CONESTOGA-ROVERS & ASSOCIATES

8615 W. Bryn Mawr Avenue, Chicago, Illinois 60631
Telephone: (773) 380 9933 Fax: (773) 380 6421
www.CRAworld.com

MEMORANDUM

TO:	Cheryl Hiatt Lisa Meoli	REF. NO.:	013968
FROM:	Bill Steinmann/lg/11	DATE:	December 9, 2002

RE: Off Site Residential Well Survey and Sampling Technical Memorandum

INTRODUCTION

This Technical Memorandum (TM) presents a summary of the residential well survey and sampling event conducted at the GM Powertrain Bedford Plant (Bedford Facility) beginning July 23, 2001. This TM presents the scope of work completed and the validated analytical results obtained from groundwater samples collected at various residences through October 25, 2002. All activities were completed in accordance with the following documents:

- June 6, 2001, Off Site Well Survey and Sampling Work Plan;
- June 6, 2001, Health and Safety Plan;
- June 6, 2001, Community Relations Plan; and
- July 18, 2001, Quality Assurance Project Plan – Preliminary RCRA Facility Investigation Activities.

The following describes the scope of work and results of the Off Site Well Survey and Sampling program.

WELL SURVEY

The initial effort consisted of a door to door survey conducted by three survey teams. Each initial team consisted of one representative from Conestoga Rovers and Associates (CRA) and one representative from Decision Quest (DQ). The residential well survey covered the entire area within a one half mile radius of the approximate geographic center of the Bedford Facility (Figure 1). Each team used maps showing all structures currently within this area, which were identified from aerial photographs taken March 27, 2001. The survey teams verified the presence of all structures on each property and interviewed the current occupants to determine the property owner and whether a groundwater supply well, or cistern, was present on the property. If a well or cistern was present, the survey teams determined the current and historical use, and whether the survey team or resident could access the well or cistern to obtain a sample.

All residents visited were given the project Fact Sheets. Residents with an accessible well or cistern were also given an informational letter. The informational letter is provided in Attachment 1. Residents who were not home or were non responsive during the first visit were left the project Fact Sheets and a "Sorry we missed you" leaflet at their door (See Attachment 1 for these communication materials). The residents

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

who continued to be non responsive were visited at least two additional times, many several more times, and were left the fact sheets and a leaflet again on one of these additional visits. Each visit was recorded in the CRA field notebook and DQ logs. If a property appeared abandoned or the survey team was not able to obtain any contact with the resident or owner, tax records were obtained from the Lawrence County or Shawswick Township Tax Assessor's office. Using the owner's name found on the tax record, telephone numbers were obtained through Internet and telephone book research. The DQ representatives attempted to contact these property owners via telephone; and either conducted the well survey over the phone, or arranged an appointment for the survey team to interview the owner in person.

Once the survey team contacted an owner, the CRA representative completed a "Well Survey Form". Information collected on the form included address and phone number of owner and well information. Well information included water source, date of well installation, well depth and location, plumbing material, well casing material, screen material, static water depth and aesthetic qualities of the water. If the property contained an accessible well or cistern, the owner was asked to sign a property access agreement, and the CRA representative sampled the well and completed a "Sample Form" (Attachment 2 presents examples of all forms completed).

As a result of this initial door to door survey, which was completed August 10, 2001, approximately 392 properties were visited within the one half mile radius. These properties contained structures including houses, businesses and churches. Property owners from 350 of the 392 properties were contacted and surveyed during this door to door effort.

After August 10th, DQ continued to call and send letters to all outstanding property owners who the survey teams had not been able to contact. In addition, another door to door survey of the outstanding properties was conducted on September 13, 2001.

In the final stage of this effort, the status of 25 properties remained outstanding. Personalized letters were mailed to 22 of these properties with a return receipt requested on October 23, 2001. As a result of these letters, five additional properties were completed: four called the information line to report that they did not have a well and one signed an access agreement to allow her cistern to be sampled. Ten properties returned a receipt, but did not respond to the information line about whether they have a well. Seven properties did not return a receipt.

Personalized letters were not sent to three of the outstanding properties. DQ had already been in contact with two of the owners over the telephone. The owner of the first property refused to provide any information, and hung up on DQ. This was counted as a denial, and no further attempt was made to contact the owner. The owner of the second property has never been on the property, which he purchased at a police auction. The owner has indicated that he will contact GM once he has received the deed to the property. The third property owner has never been approached by DQ or CRA. The property has no trespassing signs surrounding it. A neighbor indicated that the property has no water, electricity or phone, and the property owner has knocked down his mailbox so that he cannot receive mail. No further attempts were made on this property.

An overview of the results of the Off Site Well Survey for the entire half mile radius is presented on Figure 2. None of the wells surveyed within the half mile radius of the Plant were used as potable water. However, one well was being used for drinking and a well was utilized for watering the lawn and gardens outside of the half mile radius, both were non detect for PCBs.

WELL SAMPLING

During the initial door to door survey from July 23, 2001, through August 10, 2001, 37 wells and 12 cisterns were identified within the half mile radius of the plant. Of these, seven wells and four cisterns were found to be accessible and were sampled. Analytical data is summarized in Table 1. All cisterns were sampled using disposable bailers. Three wells were sampled using a hand pump, three wells were sampled using disposable bailers and one well was sampled through a spigot. Field measurements of pH, conductivity, temperature and turbidity were measured and recorded on the "Sample Forms" provided in Attachment 2.

Additional sampling occurred from the period of September 14, 2001 through June 7, 2002. No additional samples have been collected from June 7, 2002 until October 25, 2002. In addition to the wells and cisterns identified and sampled in the initial survey, one cistern and eighteen residential wells were identified and sampled during the follow up door to door well survey or later contact from the well owner amending the information collected during the survey. This additional sampling brought the total number of cisterns sampled to five and the total number of wells sampled to twenty five. It should be noted that nine of the residential wells were outside of the half mile radius, but were sampled at the owner's request.

Those wells that showed surrogate recovery inconsistencies and inconclusive data were resampled by CRA on September 14 & 15, 2001, October 1, 2001, January 29, 2002, March 28, 2002, April 10, 2002, May 7, 2002, and June 6, 2002. All sampling was performed in accordance with protocol included in the June 6, 2001 Off Site Well Survey and Sampling Work Plan. Analytical data is summarized in Table 1.

RESULTS

Groundwater samples from residential wells were analyzed for total PCBs (EPA Method 508 for Drinking Water), and select samples were also analyzed for dissolved PCBs. Field parameters including pH, temperature, turbidity and specific conductivity were also collected. Of the twenty five residential wells sampled, six wells had detectable concentrations of PCBs. All of the cisterns sampled were non detect for PCBs. The analytical results from two of the wells indicated surrogate recovery problems, with percentage of recovery below the acceptable range (70 to 130 percent). Those samples were resampled to confirm analytical data. Analytical results from well and cistern samples are summarized on Table 1 and are included as Attachment 3. Locations for all the wells and cisterns are shown on Figure 2, with the exception of two wells outside the limits of the Figure 2 map. These two wells are shown independently on Figure 3.

The following is a summary of those six wells where PCBs were detected. Refer to Figure 2 for groundwater sample locations.

Polychlorinated Biphenyl's (PCBs) were detected in low level estimated quantities at a groundwater sample collected from a residential well located on North Lawrence Street. The estimated levels detected for total PCBs were 0.26 µg/L and 0.13 µg/L (duplicate samples had been collected) as summarized in Table 1. Dissolved PCBs were not detected in the water sample from this well. Refer to Table 1 and Figure 2 for sample locations.

PCBs were also detected in four wells located on Barlow Lane to the east of the GM Plant. The results for

these four wells are summarized below:

- One well exhibited total PCB concentrations of 1.1 µg/L during the initial sampling. This well was re sampled, with a total PCB concentration of 0.95 µg/L detected.
- One well exhibited estimated total PCB concentrations of 0.16 µg/L and 0.2 µg/L (duplicate sample). Dissolved PCBs were not detected in either of the duplicate samples.
- One well exhibited an estimated total PCB concentration of 0.74 µg/L. Dissolved PCBs were not detected.
- At one location oil was identified in the well, therefore, the oil/water mixture samples were analyzed for total PCBs. Samples were collected from the oil/water at the top of the water column (LNAPL) and at the bottom of the water column (DNAPL). PCB concentrations were estimated at 3.8 µg/L and 0.87 µg/L, respectively, as summarized in Tables 1.

PCBs were detected in the initial sample obtained from a well located northeast of the Plant on Broomsage Road. This well is outside the half mile radius, but was sampled at the owner's request. The initial sample obtained from this well had an estimated PCB concentration of 1.7 µg/L. The well was re sampled for both total and dissolved PCBs. No PCBs, either total or dissolved, were detected in the duplicate samples obtained from the well.

SUMMARY

Owners of 372 of the 392 properties within a one half mile radius of the Bedford Facility have been contacted and surveyed. This survey included the sampling of twenty five wells and five cisterns, and the resampling of five of these wells by CRA. Twenty property owners could not be found and surveyed. After discussion with the U.S. EPA and the Indiana Department of Environmental Management, GM has concluded the pro active search for groundwater supply wells, or cisterns, within the one half mile radius of the Bedford Facility. GM will, however, continue to respond to any new information concerning well locations in the investigation area after the date of this TM.

ATTACHMENT 1

Worldwide Facilities Group
Environmental & Regulatory Support
Remediation Team

July 23, 2001

Dear Neighbor:

I am writing on behalf of General Motors Corporation (GM) to provide you with information about an environmental investigation that GM is conducting at the GM Powertrain Facility in Bedford. GM is conducting this investigation as part of a Voluntary Agreement with Region 5 of the U.S. Environmental Protection Agency (U.S. EPA) for a Resource Conservation and Recovery Act (RCRA) Corrective Action.

Congress enacted RCRA in 1976 to address the safe management and disposal of hazardous waste. Corrective Action is the process of investigating and cleaning up, if necessary, areas of a facility that may have been affected by the management of hazardous waste. All facilities that ever applied for a permit to manage hazardous waste are subject to this kind of investigation. The enclosed Project Fact Sheets provide more information on the RCRA Corrective Action at the Bedford facility.

Two of our first tasks are to conduct stream and groundwater investigations at and around the facility. The stream investigation will be conducted in two steps. First we plan to map creeks and streams near the plant. Next we want to collect stream surface water, sediment, fish, and nearby soils from those areas. For the groundwater investigation, we would like to identify and sample private wells within a half-mile radius of the site. Based on the results of the initial investigation, GM will work with U.S. EPA to decide whether additional testing is needed and then what cleanup activities, if any, are appropriate.

We would like your permission to sample your well and gather information on the construction of your well, if available. One or two technicians using small, hand-held equipment would collect the sample. It should take about half an hour. We will send the sample to Aqua Tech Environmental Laboratories for analysis at no cost to you. Aqua Tech Environmental Laboratories is in North Canton, Ohio and is certified by the State of Indiana for the analysis of drinking water. We will provide you with the results within six to eight weeks of taking the last sample during this groundwater investigation.

If you use your well for drinking water, we see no reason to recommend that you stop. However, if you would prefer, we would be happy to provide you with bottled drinking water, at no cost to you, until you receive the test results for your well. If you are interested in obtaining bottled water, please contact Culligan, 2217 West 16th Street in Bedford, at (812) 275-0036 and let them know you are calling in relation to the GM Bedford project. We are committed to the health and safety of our employees and the community.

With this letter, we have provided an agreement for access between you and GM for the sampling of your well. By signing this agreement, you would be allowing access to GM and its contractors to conduct this work on your property. GM will take every possible precaution to

485 West Milwaukee Avenue, MC 482-310-004 • Detroit, MI 48202-3220 • FAX (313) 556-0803

this agreement, you would be allowing access to GM and its contractors to conduct this work on your property. GM will take every possible precaution to minimize any disruption our activities may cause and will repair any damage that might inadvertently occur. GM will assume any liability associated with the work.

We appreciate your assistance and cooperation as we proceed with the Voluntary RCRA Corrective Action. We will keep employees and the community informed as we progress through the work. If you have any questions, please call Kathy Bommarito of GM toll-free at 866-223-0856 or you can reach her by e-mail at Kathy.Bommarito@gm.com.

Sincerely,

William J. McFarland

Enclosures

Worldwide Facilities Group
Environmental & Regulatory Support
Remediation Team

July 23, 2001

Dear Neighbor:

I am writing on behalf of General Motors Corporation (GM) to provide you with information about an environmental investigation that GM is conducting at the GM Powertrain Facility in Bedford. GM is conducting this investigation as part of a Voluntary Agreement with Region 5 of the U.S. Environmental Protection Agency (U.S. EPA) for a Resource Conservation and Recovery Act (RCRA) Corrective Action.

Congress enacted RCRA in 1976 to address the safe management and disposal of hazardous waste. Corrective Action is the process of investigating and cleaning up, if necessary, areas of a facility that may have been affected by the management of hazardous waste. All facilities that ever applied for a permit to manage hazardous waste are subject to this kind of investigation. The enclosed Project Fact Sheets provide more information on the RCRA Corrective Action at the Bedford facility.

Two of our first tasks are to conduct stream and groundwater investigations at and around the facility. The stream investigation will be conducted in two steps. First we plan to map creeks and streams near the plant. Next we want to collect stream surface water, sediment, fish, and nearby soils from those areas. For the groundwater investigation, we would like to identify and sample private wells within a half-mile radius of the site. Based on the results of the initial investigation, GM will work with U.S. EPA to decide whether additional testing is needed and then what cleanup activities, if any, are appropriate.

We would like your permission to map the stream(s) that runs through your property. Mapping entails walking through and around the stream to determine the plants, animals, uses and characteristics like the types of sediment present, width, depth, and flow rate of the stream. In the future, we may also want to collect surface water, sediment, fish and nearby soil samples. Two or three technicians using small, hand-held equipment would collect the samples. For each of the mapping and sampling activities, we only expect to be on your property for one or two days. Surface water samples would likely be taken during periods of high water and low water. Sample locations will be determined based on the mapping results and consultation with U.S. EPA and IDEM. Before we begin sampling, we would be happy to discuss the locations and procedures with you. In addition, any samples that we collect will be sent to Severn Trent Laboratories (STL) for analysis at no cost to you. STL is in Canton, Ohio and is a certified laboratory for the State of Indiana. We will provide you with the results within six to eight weeks of taking the last sample during this stream investigation.

We would also like your permission to sample your well and gather information on the construction of your well, if available. One or two technicians using small, hand-held equipment would collect the sample. It should take about half an hour. We will send the sample to Aqua Tech Environmental Laboratories for analysis at no cost to you. Aqua Tech Environmental

485 West Milwaukee Avenue, MC 482-310-004 • Detroit, MI 48202-3220 • FAX (313) 556-0803

GM

Worldwide Facilities Group
Environmental & Regulatory Support
Remediation Team

Sorry we missed you! We stopped by to update you about some activities that will be taking place at and around the General Motors (GM) Powertrain - Bedford facility. These activities are being conducted under a voluntary agreement that GM recently signed with the U.S. Environmental Protection Agency. The attached fact sheets will explain more.

One of our first activities is to begin a groundwater investigation at and around the facility. As part of that investigation, we would like to identify and sample private wells within a half-mile radius of the facility.

As you fall within this radius, we would like to know whether or not you have a well. **We would appreciate it very much if you would call Kathy Bommarito of GM toll-free at 866-223-0856 to let her know whether or not you have a well.** We also are happy to answer any questions you have about the attached fact sheets.

people at GM are dedicated to protecting the health and safety of the plant's employees and our neighbors and to completing the environmental work that is outlined in the voluntary agreement. Thank you in advance for your cooperation. We look forward to speaking with you throughout this process.

Sincerely,

GM

Worldwide Facilities Group
Environmental & Regulatory Support
Remediation Team

Sorry we missed you! We stopped by to update you about some activities that will be taking place at and around the General Motors (GM) Powertrain - Bedford facility. These activities are being conducted under a voluntary agreement that GM recently signed with the U.S. Environmental Protection Agency. The attached fact sheets will explain more.

One of our first activities is to begin a groundwater investigation at and around the facility. As part of that investigation, we would like to identify and sample private wells within a half-mile radius of the facility.

As you fall within this radius, we would like to know whether or not you have a well. **We would appreciate it very much if you would call Kathy Bommarito of GM toll-free at 866-223-0856 to let her know whether or not you have a well.** We also are happy to answer any questions you have about the attached fact sheets.

The people at GM are dedicated to protecting the health and safety of the plant's employees and our neighbors and to completing the environmental work that is outlined in the voluntary agreement. Thank you in advance for your cooperation. We look forward to speaking with you throughout this process.

Sincerely,

PROJECT FACT SHEET 1

MAY 2001

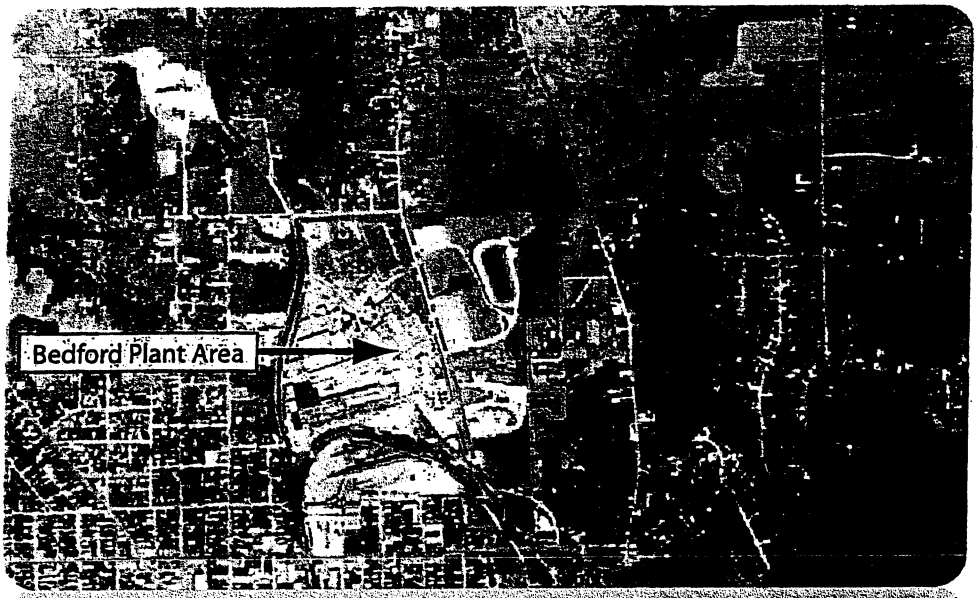
VOLUNTARY RCRA CORRECTIVE ACTION
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA
May 24, 2001

This is the first Project Fact Sheet that has been prepared to provide the community with an introduction to activities to be performed at the General Motors Corporation (GM) Bedford facility.

The facility is located at 105 GM Drive in Bedford, Indiana, on approximately 150 acres. The facility currently produces aluminum casting products, such as transmission casings, pistons, and engine blocks, within approximately one million square feet of operating floor space.

The Bedford facility was originally constructed in the early 1900's as a limestone milling operation. The U.S. Government purchased the mill in 1942, converting the facility to an aluminum aircraft engine foundry, which was operated by GM. GM purchased the property after World War II and has continued to operate the facility as an aluminum foundry as part of various GM operating divisions.

GM is currently initiating a Resource Conservation and Recovery Act (RCRA) Corrective Action program at the facility pursuant to a Voluntary Corrective Action Agreement between the U.S. EPA and GM, which became effective in March 2001. Corrective Action is required for all facilities who applied for a permit to store hazardous waste and is basically an evaluation of whether plant waste management operations have impacted the environment. The Agreement states that GM will work with U.S. EPA voluntarily to identify whether releases of hazardous constituents have occurred at or from the Bedford facility, define the nature and extent of potential releases, and complete cleanups, as needed.



March 27, 2001 Aerial Photograph

The RCRA Corrective Action at the facility will include completion of the following activities:

1. Current Conditions Report (CCR)
   - *Report summarizing available information on the plant.*
   - *GM is currently completing the CCR*

2. RCRA Facility Investigation (RFI)
   - *Investigates open environmental issues identified in the CCR.*

3. Interim Cleanup Activities (as needed)

4. Final Cleanup Activities (as needed)

The CCR will be sent to U.S. EPA and the Indiana Department of Environmental Management (IDEM) upon completion in May and will be available for public review in a local information repository (to be established).

A toll free number will be established as a point of contact for the public.

Project Fact Sheets will be issued periodically during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the facility.

GM ENCORE

Please direct any questions about this project to Ms. Kathy Bommarito of GM by phone at (248)857-6386 or by e-mail at kathy.bommarito@gm.com.

VOLUNTARY RCRA CORRECTIVE ACTION
GM POWERTRAIN-BEDFORD PLANT
BEDFORD, INDIANA
July 16, 2001



March 27, 2001 Aerial Photograph

INTRODUCTION

General Motors Corporation (GM) and U.S. EPA Region V, under a Voluntary Agreement, are undertaking RCRA Corrective Action at the GM Powertrain - Bedford Plant (Site) in Bedford, Lawrence County, Indiana.

This is the second Project Fact Sheet that has been prepared to provide the community with information regarding activities to be performed at the Site.

SITE BACKGROUND

The Site is located at 105 GM Drive in Bedford, Indiana, on approximately 152.5 acres. The Site currently produces aluminum casting products, such as transmission casings, pistons, and engine blocks, within approximately one million square feet of operating floor space.

The Bedford Site was originally constructed in the early 1900's as a limestone milling operation. The U.S. Government purchased the mill in 1942, converting the Site to an aluminum aircraft engine foundry, which was operated by GM. GM purchased the property after World War II and has continued to operate the Site as an aluminum foundry as part of various GM operating divisions.

RCRA CORRECTIVE ACTION

The **Resource Conservation and Recovery Act (RCRA)** is a federal law that encourages recycling and requires responsible waste management in a manner that is protective of human health and the environment.

Corrective Action is a process through which the areas of a facility that may have been affected by the management of solid or hazardous waste, or releases of hazardous constituents are evaluated and, if necessary, remediated.

United States Environmental Protection Agency (U.S. EPA) Region V has signed a voluntary Agreement with GM for Corrective Action work at the Site.

Indiana Department of Environmental Management (IDEM) is co-operating with U.S. EPA and GM on the voluntary Corrective Action work being performed at the Site.

ENCORE, a wholly owned subsidiary of GM, will be performing Corrective Action work at the Site.

Project Fact Sheets will be issued periodically during the implementation of the Corrective Action program to keep the community informed of ongoing activities at the Site.

GM ENCORE

Please direct any questions about this project to Ms. Kathy Bommarito of GM by phone (toll free) at 1-866-223-0856 or by e-mail at kathy.bommarito@gm.com. U.S. EPA and IDEM contact information is provided on the next page.

RCRA CORRECTIVE ACTION

GM is currently conducting RCRA Corrective Action at the Site pursuant to a RCRA Voluntary Corrective Action Agreement between the U.S. EPA and GM, which became effective on March 20, 2001. Corrective Action is required for all facilities which applied for a permit to manage hazardous waste and is basically an evaluation of whether plant waste management operations have impacted the environment. The Voluntary Agreement is designed to identify and address any significant risks to human health or the environment resulting from the release of hazardous waste or hazardous constituents to environmental media such as soil or water. Under the terms of the Voluntary Agreement, GM is taking the lead role to investigate the Site and perform any needed remediation work. The scope of investigation and any required cleanup work will be reviewed with U.S. EPA and will be conducted according to standards that are protective of public health and the environment.

The Corrective Action process begins with a Current Conditions Report, which provides a summary of current Site environmental conditions at areas where wastes have been managed or stored with the potential for release to environmental media. The Current Conditions Report was submitted to U.S. EPA and IDEM on May 25, 2001.

The next step in the Corrective Action process is a RCRA Facility Investigation (RFI). The RFI involves gathering information regarding possible releases of hazardous waste or hazardous constituents from waste management units and other areas of interest at the Site. During the RFI, environmental media, such as soil or water, will be studied to determine if they have been affected by past operations. The investigation will collect information to determine whether remedial activities are needed and will help identify appropriate cleanup methods. The following initial RFI activities will be initiated in July 2001:

- Off-Site Well Survey and Sampling
- Stream Investigation

The Off-Site Well Survey and Sampling has been designed to determine whether groundwater wells are present within a radius of approximately 1/2 mile of the Site and if groundwater wells are present, to sample that water.

The Stream Investigation has been designed to evaluate surface water, sediment and flood bank soil quality in the nearby streams. In addition, the stream investigation will also look at fish in these streams.

These initial RFI activities will be followed by on -Site investigations and additional off-Site investigations, as necessary.

PUBLIC PARTICIPATION

A Community Relations Plan has been prepared as part of the RCRA Corrective Action program. The purpose of the Community Relations Plan is to present GM's general approach to keeping the community informed of the findings and status of activities. An information repository has been established where project related documents are available for public review. The information repository is located at:

Bedford Public Library
1323 K Street
Bedford, Indiana
Tel: (812) 275-4471

CONTACT INFORMATION

If you would like more information about this project, please contact any of the following:

GM
Kathy Bommarito
Tel: (866) 223-0856 (toll-free)

U.S. EPA
Peter Ramanauskas
Tel: (312) 886-7890

IDEM
John Gunter
Tel: (317) 232-3413

ATTACHMENT 2

JUNE 4, 2001

SURVEY FORM

PROJECT NAME:	GM POWERTRAIN – BEDFORD PLANT	PROJECT NO.:	013968
OWNER/RESIDENT(S):		DATE:	
ADDRESS:		TIME:	
PHONE (H):		CRA PERSONNEL:	
PHONE (W):		DQ PERSONNEL:	

INTERVIEW

WATER SOURCE	☐ CITY ☐ WELL ☐ OTHER:	USES ☐ HOUSEHOLD ☐ NON-HOUSEHOLD ☐ HOUSEHOLD ☐ NON-HOUSEHOLD DESCRIBE:	DATE OF WELL INSTALLATION: ☐ UNKNOWN
WELL DEPTH (FEET BGS):	☐ UNKNOWN		
WELL LOCATION:	☐ UNKNOWN	TREATMENT ON PROPERTY	☐ FILTRATION: ☐ SOFTENER: ☐ OTHER:
STATIC WATER DEPTH:	☐ UNKNOWN	AESTHETIC QUALITIES	TASTE:
BOTTOM DEPTH:	☐ UNKNOWN		ODOR:
			OTHER:
PLUMBING MATERIAL:	SPIGOT:	HOLDING TANK:	☐ YES ☐ NO LOCATION:
	PIPES:		
WELL CASING MATERIAL:	☐ UNKNOWN	SCREEN MATERIAL:	☐ UNKNOWN
SCREENED INTERVAL:	☐ UNKNOWN	CAPACITY:	☐ UNKNOWN

COMMENTS:

FOLLOWUP ACTIVITIES:

ATTACHMENT 3

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28
CRASDG 1

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G250267

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: See below
Name: GM - Bedford
Description
Event: GW Supply Well survey
Samples: P1/24-1
Analysis: PCB
TAT:
Lab: Sub Contract - ATEL
Checked Against Preliminary Data:
Date: 8/20/01 Init.: MEC
Date of Validation Memo:
Invoice Approval Date:
Comments: A1G250267;

CASE NARRATIVE

A1G250267

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072401-485025-JS-001	A1G250267-001	MEL01-09355

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *24-Aug-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09355
Your Sample ID: A1G250267- 1 w/MS/MSD
Sample Source: SDWA/WTP's
Date Logged In: 7/30/01
Client Project #:
Sample Type: Water
Date Submitted to Lab: 7/26/2001 **PO#:** SR032331
Project #:

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date
	SH	7/30/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09355	508	Decachlorobiphenyl (Surr) low surrogate recovery	68 %R *	70	130
MEL01-09355	508	Tetrachloro-m-xylene (Surr)	121 %R	70	130

End of Report

EE data have been reviewed and validated as directed by CRAS Senior Chemist - Paul Wiseman, August 30, 2001

EE data are reported as is without qualification (WRS 9-13-01)

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Jessica Seck PRINTED NAME: Jessica Seck

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL VOCs (8260B)	REMARKS
1	7/24/01	11:05	GW-072401-485025-JS-001	Water	6	X	Extra Volume Collected MS/MSD
							* Ref. July 2001 QAPP
							* TAT = 2 Wk Final Report
							* CRA Contact = Paul Hass
			TOTAL NUMBER OF CONTAINERS		6		

RELINQUISHED BY: ①	DATE: 7/24/01 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Jessica Seck

RECEIVED FOR LABORATORY BY:

DATE: 7-25-01 TIME: 0915

00419

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 2 3
CRA SDGO

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G250272

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A162302
Name: GMPT - Bedford Plant
Description
Event: GW Supply well Survey
Samples: 1 (7/24-002)
Analysis: PCB
TAT: 2WK
Lab: AFL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MSC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1G250272

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072401-485025-JS-002	A1G250272-001	MEL01-09354

DUPLICATE OF:

GW-072401-485025-JS-001 AWS 9/3/01

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *24-Aug-01*

Client #: 10467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09354
Your Sample ID: A1G250272-1
Sample Source: SDWA/WTP's
Date Logged In: 7/30/01
Client Project #:
Sample Type: Water
Date Submitted to Lab: 7/26/2001 **PO#:** SR032331
Project #:

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01

EPA Method	Analyst	Prep Date	Analysis Date
	SH	7/30/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09354	508	Decachlorobiphenyl (Surr) low surrogate recovery	66 %R *	70	130
MEL01-09354	508	Tetrachloro-m-xylene (Surr)	78 %R	70	130

End of Report

data have been reviewed and validated as directed by CRA's Senior Chemist - Paul WISEMAN, AUGUST 30, 2001

data are reported as is without qualification (WKS 9-13-01)

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis are for the analytical parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

... STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999

CRA
CONESTOGA–ROVERS & ASSOCIATES
1615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Jessica Sack

PRINTED NAME: Jessica Sack

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL PCBs (8082)	REMARKS
1	7/24/01	11:05	GW-072401-485025-JS-002	Water	2	X	

TOTAL NUMBER OF CONTAINERS: 2

*Ref. July 2001 QAPP
+TAT=2 WK Final Report
#CRA Contact=Paul Nisenkorn

RELINQUISHED BY: ①	DATE: 7/24/01 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Jessica Sack

RECEIVED FOR LABORATORY BY:

DATE: 7-25-01 TIME: 0915

08420

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28 2001
CRA SDG 2

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G250271

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1G250271
Name: GMPT - Bedford Plant
Description
Event: GW Supply Well Survey
Samples: 1 (7/24-01)
Analysis: PCB
TAT: 2wk
Lab: ATEL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

August 27, 2001

CASE NARRATIVE

A1G250271

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 25, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072401-620013-LM-001	A1G250271-001	MEL01-09356

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09356
Date Logged In: 7/30/01
Sample Type: Water
Project #:

Your Sample ID: A1G250271-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 7/26/2001 **PO#:** SR032331

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01

Method	Analyst	Prep Date	Analysis Date
	SH	7/30/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	1.1 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09356	508	Decachlorobiphenyl (Surr) low surrogate recovery	68 %R *	70	130
MEL01-09356	508	Tetrachloro-m-xylene (Surr)	110 %R	70	130

End of Report

se data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

se data are reported as is without qualification (WKS 9-13-01)

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: LISA MEOLI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL-VOCs (8260)	REMARKS
1	7/24/01	1748	GW-072401-620013-LM-001	Water	2	X	
							*Ref. July 2001 QAPP *TAT = 2WK Final Report *CRA Contact = Paul Wiseman

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28 '1
CRA SDG 3

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G260192

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1G26019
Name: GMPT- Bedford Plant
Description
Event: GW-Supply Well Surv
Samples: 1-W (7/24-01)
Analysis: PCB
TAT: 2wk
Lab: ATL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

August 27, 2001

CASE NARRATIVE

A1G260192

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 26, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072401-115012-CM-001	A1G260192-001	MEL01-09498

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09498
Your Sample ID: A1G260192-1
Date Logged In: 8/1/01
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 7/31/2001 **PO#:** SR032355

- COLLECTION INFORMATION -

Date/Time/By: 7/24/01

Method	Analyst	Prep Date	Analysis Date
508	SH	7/31/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09498	508	Decachlorobiphenyl (Surr)	63 %R *	70	130
		Low surrogate recovery			
MEL01-09498	508	Tetrachloro-m-xylene (Surr)	117 %R	70	130

End of Report

These data have been reviewed and validated as directed by CRA's Senior Chemist — Paul Wiseman, August 30, 2001

These data are reported as is without qualification (WKS 9-13-01)

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Lab Name): ACE L C/O STL - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: _____ PRINTED NAME: Chris Hernicke

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: X DW-PCB/608	REMARKS
1	7/24/01	1700	GW-072401-115012-CH-001	WATER	2	X	* Ref July 2001 QAPP * TAT-21W Final Report * CRA Contact-Paul Wisman
			TOTAL NUMBER OF CONTAINERS		2		

RELINQUISHED BY: ① _____	DATE: 7/25/01 TIME: 1760	RECEIVED BY: ② _____	DATE: TIME:
RELINQUISHED BY: ② _____	DATE: TIME:	RECEIVED BY: ③ _____	DATE: TIME:
RELINQUISHED BY: ③ _____	DATE: TIME:	RECEIVED BY: ④ _____	DATE: TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No. 827443559041

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Chris Hernicke

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 7/26/01 TIME: 920

08452

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG
CRA SDG 4

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G260193

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1G260193
Name: GMPT-Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1-w (7/25-01)
Analysis: PCB
TAT: 20K
Lab: ATL/STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: ABC
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

August 27, 2001

CASE NARRATIVE

A1G260193

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 26, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072501-216012-LM-001	A1G260193-001	MEL01-09499

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09499
Date Logged In: 8/1/01
Sample Type: Water
Project #:

Your Sample ID: A1G260193-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 7/31/2001 **PO#:** SR032356

- COLLECTION INFORMATION -

Date/Time/By: 7/25/01

Method	Analyst	Prep Date	Analysis Date
508	SH	7/31/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09499	508	Decachlorobiphenyl (Surr)	56 %R *	70	130
		Low surrogate recovery			
MEL01-09499	508	Tetrachloro-m-xylene (Surr)	106 %R	70	130

End of Report

These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

These data are reported as is without qualification (WKS 9-13-01)

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL-North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-PAH (8310)	REMARKS
1	7/25/01	0940	GW-072501-216012-LM-001	H_2O	2	✓	

*Ref. July 2001 QAPP
*TAT = 2 Wk Final Report
*CRA Contact - Paul Wisman

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① Lisa C Meoli	DATE: 7/25/01 TIME: 1700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fedex AIR BILL No. 827443559041

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pi[illegible] –Shipper Copy
Go[illegible]d –Sampler Copy

SAMPLE TEAM: L Meoli

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 7/26/01 TIME: 920

p. 453

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA

CRA SDG: 5

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1G270178

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1G270178
Name: GMPT-Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1 W - (7/26-01)
Analysis: PCB
TAT: 2wk
Lab: ATL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

CASE NARRATIVE

A1G270178

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received July 27, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-072601-445014-JS-001	A1G270178-001	MEL01-09497

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09497
Date Logged In: 8/1/01
Sample Type: Water
Project #:

Your Sample ID: A1G270178-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 7/31/2001 PO#: SR032397

- COLLECTION INFORMATION -

Date/Time/By: 7/26/01

Method	Analyst	Prep Date	Analysis Date
	SH	7/31/01	8/7/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09497	508	Decachlorobiphenyl (Surr)	66 %R *	70	130
		Low surrogate recovery			
MEL01-09497	508	Tetrachloro-m-xylene (Surr)	106 %R	70	130

End of Report

these data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

these data are reported as is without qualification (WLS 9-13-01)

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Jessica Seck PRINTED NAME: Jessica Seck

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TPH-DRO (SW)	REMARKS
1	7/26/01	12:20	GW-072601-445014-JS-001	Water	2	X	

TOTAL NUMBER OF CONTAINERS 2

* Ref. July 2001 QAPP
*TAT = 2 Wk Final Rep
*CRA Contact = Paul Wis

RELINQUISHED BY: ①	DATE: 7/26/01 TIME: 1700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No. 827443559030

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden rod –Sampler Copy

SAMPLE TEAM: Jessica Seck

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 7/27/01 TIME: 940/A

p. 418

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28 '01
CA SD46

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H010237

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H0102
Name: GMPT-Bedford Plan
Description
Event: GW - Supply Well Sam
Samples: 1-W (7/31-01)
Analysis: PCB
TAT: 2wk
Lab: ATEL/STL
Checked Against Preliminary Data:
Date: 8/28/01 Init.: MC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE
A1H010237

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 1, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-073101-B809012-JS-001	A1H010237-001	MEL01-09629

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09629
Your Sample ID: A1H010237-1
Date Logged In: 8/3/01
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 8/2/2001 **PO#:** SR032491

- COLLECTION INFORMATION -

Date/Time/By: 7/31/01

EPA Method	Analyst	Prep Date	Analysis Date			Qualifier Added
8	SH	8/3/01	8/13/01			
	CAS Number	Parameter		Result		Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l		0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l		0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l		0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	UJ	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l		0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l		0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l		0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09629	508	Decachlorobiphenyl (Surr)	42 %R *	70	130
		Low surrogate recovery			
MEL01-09629	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiegman, August 30, 2001

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

Glossary: "*" as added next to the result column are defined as follows:
UJ - The report limit identified is qualified as an approximate value (WKS 9-13-01)

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968.

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Jessica Sack PRINTED NAME: Jessica Sack

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL VOCs (SW-846)	REMARKS
1	7/31/01	1645	GW-073101-B809012-JS-001	Water	2	X	

*Ref. July 2001 QAPP
*TAT=2 WK Final Report
*CORA Contact = Paul Hatsemen

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① Jessica Sack	DATE: 7/31/01 TIME: 1915	RECEIVED BY: ②	DATE: 7/31/01 TIME: 1915
RELINQUISHED BY: ②	DATE: 7/31/01 TIME: 2000	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 827443559020

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Jessica Sack, Lisa Meah

RECEIVED FOR LABORATORY BY: DATE: 8-1-01 TIME: 0945

08417

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28
CRA SDG: 7A

PROJECT NO. 13968

GM BEDFORD

Lot #: A1H020223

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H020223
Name: GMPT-Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1-W (8/1-01)
Analysis: PCB
TAT: 2wk
Lab: ATEL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

August 27, 2001

CASE NARRATIVE

A1H020223

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080101-411019-JS-001	A1H020223-001	MEL01-09741

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *24-Aug-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09741
Date Logged In: 8/7/01
Sample Type: Water
Project #:

Your Sample ID: A1H020223-1 W/ MS/MSD
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 8/3/2001 **PO#:** SR032521

- COLLECTION INFORMATION -

Date/Time/By: 8/1/01

Method	Analyst	Prep Date	Analysis Date
	SH	8/6/01	8/13/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09741	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery			
MEL01-09741	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

End of Report

USE data have been reviewed and validated by ~~CRA's~~ WKS as directed by CRA's Senior Chemist
Paul Wiseman, August 30, 2001

USE data are reported as is without qualification
(WKS 9-13-01)

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Jessica Seck PRINTED NAME: Jessica Seck

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Dup PCBs (508)	REMARKS
1	8/1/01	12:22	GW-080101-411019-JS-001	Water	6	X	*Extra Volume included MS/MSD
							*Ref. July 2001 QAPP *TAT-2 WK Final Report *CRA Contact-Paul Wiseman
			TOTAL NUMBER OF CONTAINERS		6		

RELINQUISHED BY: ① Jessica Seck	DATE: 8/1/01 TIME: 14:30	RECEIVED BY: ② Jeff Mc	DATE: 8/1/01 TIME: 1930
RELINQUISHED BY: ② Jeff Mc	DATE: 8/1/01 TIME: 17:00	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 827443559019

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Jessica Seck, Chris Meincke

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 8/2/01 TIME: 930AM

08414

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28
CRA SDG 78:

PROJECT NO. 13968

GM BEDFORD

Lot #: A1H020224

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H020224
Name: GMPT - Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1-W (B/1-002)
Analysis: PCB
TAT: 2 WK
Lab: ATEL/STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: AMC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1H020224

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080101-411019-JS-002	A1H020224-001	MEL01-09742

DUPLICATE OF:

GW-080101-411019-JS-001 MKS 9-13-01

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *24-Aug-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09742
Date Logged In: 8/7/01
Sample Type: Water
Project #:

Your Sample ID: A1H020224-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 8/3/2001 PO#: SR032521

- COLLECTION INFORMATION -

Date/Time/By: 8/1/01

Method	Analyst	Prep Date	Analysis Date
	SH	8/6/01	8/13/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09742	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL01-09742	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

End of Report

RE: data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

RE: data are reported as is without qualification (MKS 9-13-01)

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL - North Canton

REFERENCE NUMBER: 15968

PROJECT NAME: GM Bedford

SAMPLER'S SIGNATURE: Jessica Seck

PRINTED NAME: Jessica Seck

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC (8260)	REMARKS
1	8/01/01	12:22	GW-080101-411019-JS-002	Water	2	X	

*Ref. July 2001 QAPP
*TAT - 2 WK Final Report
*CRA Contact - Paul Wiseman

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① Jessica Seck	DATE: 8/1/01 TIME: 14:50	RECEIVED BY: ②	DATE: 8/1/01 TIME: 14:30
RELINQUISHED BY: ②	DATE: 8/1/01 TIME: 17:00	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex

AIR BILL No. 827443559019

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: Jessica Seck, Chris Meincke

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 8/2/01 TIME: 930

08416

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA

CRA SDG 9

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H030232

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H03023
Name: GMPT - Bedford Plant
Description
Event: GW - Supply Well Surve
Samples: 1-W (8/2-01)
Analysis: PCB
TAT: 2wlc
Lab: STL/STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MAC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1H030232

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080201-406017-CM-001	A1H030232-001	MEL01-09810

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09810
Your Sample ID: A1H030232-1
Date Logged In: 8/8/01
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 8/7/2001 **PO#:** SR032560

- COLLECTION INFORMATION -

Date/Time/By: 8/2/01

EPA Method	Analyst	Prep Date	Analysis Date
	SH	8/8/01	8/11/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09810	508	Decachlorobiphenyl (Surr)	41 %R *	70	130
		Low surrogate recovery			
MEL01-09810	508	Tetrachloro-m-xylene (Surr)	78 %R	70	130

End of Report

These data have been Reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

These data were Reported as is without qualification (MKS 9-13-01)

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GW-Bedford

SAMPLER'S SIGNATURE: C. Meincke PRINTED NAME: C. Meincke

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-PAH (8310)	REMARKS
1	08/02/01	1200	GW-080201-406017-CM-001	WATER	2	✓	
							*Ref. July 2001 QAPP *TAT = 2wk final Report *CRA Contact = Paul Wisem

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: ①	DATE: 8/3/01 TIME: 1700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No. 827443559008

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Gold —Sampler Copy

SAMPLE TEAM: C. Meincke, L. Meeks

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 8/3/01 TIME: 945

08441

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 2 8
CRA SDG 8

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H030234

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H0302
Name: GMPT - Bedford Plant
Description
Event: GW - Supply Well Sru
Samples: 1 W (8/2-01).
Analysis: PCB
TAT: 2 wk
Lab: ATGL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1H030234

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080201-1537002-CM-001	A1H030234-001	MEL01-09811

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *14-Aug-01*

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09811
Date Logged In: 8/8/01
Sample Type: Water
Project #:

Your Sample ID: A1H030234
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 8/7/2001 **PO#:** SR032561

- COLLECTION INFORMATION -

Date/Time/By: 8/2/01

Method	Analyst	Prep Date	Analysis Date		
	SH	8/8/01	8/11/01		
	CAS Number	Parameter		Result	Typical Report Limit
	12674-11-2	Aroclor 1016		<0.08 ug/l	0.08
	11104-28-2	Aroclor 1221		<0.10 ug/l	0.1
	11141-16-5	Aroclor 1232		<0.10 ug/l	0.1
	53469-21-9	Aroclor 1242		<0.10 ug/l	0.1
	12672-29-6	Aroclor 1248		<0.10 ug/l	0.1
	11097-69-1	Aroclor 1254		<0.10 ug/l	0.1
	11096-82-5	Aroclor 1260		<0.10 ug/l	0.1

EPA Method	Analyst	Prep Date	Analysis Date		
				Result	Typical Report Limit
	CAS Number	Parameter			
		Level IV QC Package			

These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Hiseman, August 30, 2001

These data are reported as is without qualification (ANS 9-13-01)

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09811	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery			
MEL01-09811	508	Tetrachloro-m-xylene (Surr)	84 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

Lab Number MEL01-0981

Your Sample ID: A1H030234

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: _____ PRINTED NAME: Chris Meincke

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: X DW-020508	REMARKS
1	8-2-01	0830	GW-080201-1537002-CM-001	WATER	2	X	
							*Ref: July 2001 QAPP *TAT=2wk Final Report *CRA Contact=Paul Liverman
			TOTAL NUMBER OF CONTAINERS		2		

RELINQUISHED BY: ① _____	DATE: 8/2/01 TIME: 1700	RECEIVED BY: ② _____	DATE: TIME:
RELINQUISHED BY: ② _____	DATE: TIME:	RECEIVED BY: ③ _____	DATE: TIME:
RELINQUISHED BY: ③ _____	DATE: TIME:	RECEIVED BY: ④ _____	DATE: TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No. 827443559008

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
P[illegible] –Shipper Copy
Golde[illegible]d –Sampler Copy

SAMPLE TEAM: Chris Meincke, Lisa Me[illegible]

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 8/3/01 TIME: 945 AM

C0440

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 23
CRA SDG 10

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H030171

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H030171
Name: GMPT- Bedford Plant
Description
Event: GW- Supply Well Survey
Samples: (8/2-01) - 1W
Analysis: PCB

TAT: 2wk
Lab: ATEL / STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1H030171

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 3, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 14, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080201-1326007-LM-001	A1H030171-001	MEL01-09812

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *14-Aug-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09812
Your Sample ID: ~~A1H03017-1~~ *AIH03017-1 WKS 9-13-01*
Date Logged In: 8/8/01
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 8/7/2001 **PO#:** SR032549

- COLLECTION INFORMATION -

Date/Time/By: 8/2/01

EPA Method	Analyst	Prep Date	Analysis Date
	SH	8/8/01	8/11/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

EPA Method	Analyst	Prep Date	Analysis Date

CAS Number	Parameter	Result	Typical Report Limit
	Level IV QC Package		

These data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2

These data are reported as is without qualification (WKS 9-13-01)

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09812	508	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery			
MEL01-09812	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

Lab Number MEL01-09812

Your Sample ID: ~~A1H03017-1~~ WKS 9-13-01
A1H03017-1

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999

JN

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *19-Sep-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Rec'd
SEP 2 4 2001

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09812
Date Logged In: 8/8/01
Sample Type: Water
Project #:

Your Sample ID: A1H030171-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 8/7/2001 **PO#:** SR032549

- COLLECTION INFORMATION -

Date/Time/By: 8/2/01

EPA Method	Analyst	Prep Date	Analysis Date
[illegible]	SH	8/8/01	8/11/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

EPA Method	Analyst	Prep Date	Analysis Date

CAS Number	Parameter	Result	Typical Report Limit
	Level IV QC Package		

Lab Number MEL01-09812

Your Sample ID: A1H030171-1

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09812	508	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery			
MEL01-09812	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

End of Report

Report Approved By: Wade T. Sr

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

Your Sample ID: A1H030171-1

Lab Number MEL01-09812

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: LISA C. MEOLI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TVPH8260B	REMARKS
1	8/2/01	1650	GW-080201-1326007-LM-001	Water	2	✓	

TOTAL NUMBER OF CONTAINERS: 2

*RL's July 2001 QAPP
*TAT-2 WK Final Report
*CRA Contact-Paul Wisen

RELINQUISHED BY: ① [signature]	DATE: 8/2/01 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed EX AIR BILL No. 827443558994

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pi[illegible] —Shipper Copy
Go[illegible]d —Sampler Copy

SAMPLE TEAM: L. Meoli, C. Meincke

RECEIVED FOR LABORATORY BY: [signature] DATE: 8/3/01 TIME: 945 AM

08431

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
AUG 28 01
CAA SDG 11

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1H080204

Paul Wiseman

Conestoga Rovers & Assoc., Inc
11100 Metro Airport Center Dr.
Suite 160
Romulus, MI 48174

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

August 27, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1H0802(
Name: GMPT- Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1-W (8/7-01)
Analysis: PCB
TAT: 2WK
Lab: ATL /STL
Checked Against Preliminary Data:
Date: 8/29/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1H080204

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received August 8, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to Paul Wiseman and Steve Carter on August 25, 2001.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-080701-330026-JS-001	A1H080204-001	MEL01-09976

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 24-Aug-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-09976
Your Sample ID: A1H080204-1
Date Logged In: 8/10/01
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 8/9/2001 **PO#:** SR032616

- COLLECTION INFORMATION -

Date/Time/By: 8/7/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	8/10/01	8/17/01

CAS Number	Parameter	Result	Qualifier Added	Typical Report Limit
	Results suspect due to low surrogate recovery, ok per client			
12674-11-2	Aroclor 1016	<0.08 ug/l	UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-09976	508	Decachlorobiphenyl (Surr)	19 %R *	70	130
		Low surrogate recovery			
MEL01-09976	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery			

End of Report

Data have been reviewed and validated as directed by CRA's Senior Chemist - Paul Wiseman, August 30, 2001

* Flags added next to the result column are defined as follows:
UJ - The report limit identified is qualified as an approximate value (WKS 9-13-01)

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s).

STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): AFEL C/O SGL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Jessi Seck PRINTED NAME: Jessica Seck

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL-PCB (SW8082)	REMARKS
1	8/7/01	11:31	GW-080701-330026-JS-001	WATER	2	X	

*Ref. July 2001 QAPP
*TAFEZWK. FINAL Report
*CRA Contact - Paul Wisner

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① Jessi Seck	DATE: 8/7/01 TIME: 12:42	RECEIVED BY: ②	DATE: 8/7/01 TIME: 1400
RELINQUISHED BY: ②	DATE: 8/7/01 TIME: 1700 1430	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FEDEX AIR BILL No. 827443558983

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pi[illegible] —Shipper Copy
G[illegible]d —Sampler Copy

SAMPLE TEAM: Jessica Seck, Lisa Me[illegible]

RECEIVED FOR LABORATORY BY: [illegible] DATE: 8-8-01 TIME: 0940

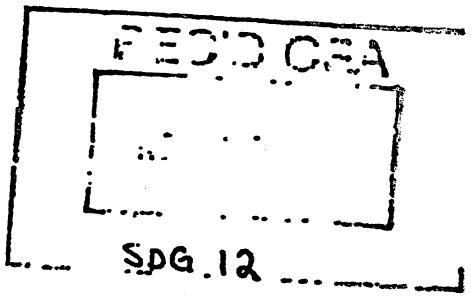
08439

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A1I210104

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

November 28, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1121
Name: GMPT-Bedford Plant
Description
Event: GW-Supply Well Sur
Samples: 1 W (9/4)
Analysis: PCB
TAT: 2 wk
Lab: STL/ATEL
Checked Against Preliminary Data
Date: 12/10/01 Init.: MSC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1I210104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-091401-8809012-LM-001 B	A1I210104-001	MEL01-11628

12/6/01

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *08-Nov-01*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11628 **Your Sample ID:** GW-091401-B809012-LM-001
Date Logged In: 9/19/01 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:** CRA
Project #: **Date Submitted to Lab:** 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

CAS Number	Parameter	Result	Typical Report Lit Qualifier Added	
Re-extraction performed out of hold time.				
12674-11-2	Aroclor 1016	<0.08 ug/l	UJ	0
11104-28-2	Aroclor 1221	<0.10 ug/l	UJ	
11141-16-5	Aroclor 1232	<0.10 ug/l	UJ	
53469-21-9	Aroclor 1242	<0.10 ug/l	UJ	
12672-29-6	Aroclor 1248	<0.10 ug/l	UJ	
11097-69-1	Aroclor 1254	<0.10 ug/l	UJ	
11096-82-5	Aroclor 1260	<0.10 ug/l	UJ	

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

These data have been reviewed and validated as directed by CRA's senior chemist, Paul Wiseman, November 12, 2001

End of Report

"J" - The report limit identified is qualified as an approximate value

Report Approved By: Walter T. Dorsey

EWS 12/19/01

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

HTEL C[illegible]STL - NORTH LEXINGTON

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GW-BEDFORD

SAMPLER'S SIGNATURE: Lisa C. Meoli PRINTED NAME: LISA C. MEOLI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-BTEX (8260)	REMARKS
1	9/14/01	1124	GW-091401-BSD-002-LM-001	WATER	2	✓ 1162B (A,B)	

*Ref. July 2001 QAPP
*TAT = 2 WK Final Report
*CRA Contact = Paul Dennis

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① [signature] 9/15/01 1535	DATE: 9/15/01 TIME: 1500	RECEIVED BY: ② [signature]	DATE: 9-18-01 TIME: 3:33
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~FED EX~~ 9/18/01 AIR BILL No. ~~4410 4466 5184~~ 9/18/01

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. MEOLI

RECEIVED FOR LABORATORY BY: D. KOCH
DATE: 9-18-01 TIME: 4:00

08436

(COI(FORMS)-OCT 24/96-REV.0-(C)(F-01)

0[illegible]

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
NOV 29
SDG 13

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1I210103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REP(
Project#: 13968 Lab#: A112(
Name: GMPT - Bedford Pla
Description
Event: GW - Supply Well S
Samples: 1W (9/15)
Analysis: PCB
TAT: 2WK
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 12/6/01 Init.: MW
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

November 28, 2001

CASE NARRATIVE

A1I210103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-091501-620013-LM-001	A1I210103-001	MEL01-11627

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *10-Oct-01*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL01-11627
Date Logged In: 9/19/01
Sample Type: Water
Project #:

Your Sample ID: GW-091501-620013-LM-001
Sample Source: SDWA/WTP's
Client Project #: CRA
Date Submitted to Lab: 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

CAS Number	Parameter	Result	Typical Report Lin
12674-11-2	Aroclor 1016	<0.08 ug/l	0.
11104-28-2	Aroclor 1221	<0.10 ug/l	(
11141-16-5	Aroclor 1232	<0.10 ug/l	(
53469-21-9	Aroclor 1242	0.95 ug/l	(
12672-29-6	Aroclor 1248	<0.10 ug/l	(
11097-69-1	Aroclor 1254	<0.10 ug/l	(
11096-82-5	Aroclor 1260	<0.10 ug/l	(

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

These data have been reviewed and validated as directed by CRA's Senior Chemist, Paul Wiseman, Date November 12, 2001

End of Report

These data are reported as is without qualification WRS 12/9/01

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

AFEL UST - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GW-BEDFORD

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS	REMARKS
1	9/15/01	1228	GW-091501-1620013-LM-001	WATER	2	~~DUP (GW)~~ 11627 (V.O.A)	

TOTAL NUMBER OF CONTAINERS 2

*Ref. July 2001 QAPP
*TAT = 21K Final Report
*CAA Contract - Pavilion Service

RELINQUISHED BY: ① ~~Lisa M. Meoli~~ 9/18/01 1533	DATE: ~~9/17/01~~ TIME: ~~1600~~	RECEIVED BY: ② Walter Dow	DATE: 9-18-01 TIME: 333
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~FED EX~~ 9/17/01 AIR BILL No. ~~4410 4466 5134~~ 9/18/01

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Li Meoli

RECEIVED FOR LABORATORY BY: S. Roach
DATE: 9-18-01 TIME: 4:00

08437

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

Or

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECEIVED
NOV 29
SDG 14

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1J020104

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

November 28, 2001

ORIGINAL ANALYTICAL REPO
Project#: 13968 Lab#: A1502
Name: GMPT - Bedford plant
Description
Event: GW - Supply Well Sun
Samples: 1W (10%)
Analysis: PCB
TAT: 28D
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 12/10/01 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1J020104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-100101-330026-LM-001	A1J020104-001	MEL01-12609

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 22-Oct-01
Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Our Lab#: MEL01-12609
Date Logged In: 10/8/01
Sample Type: Water
Project #:

Your Sample ID: A1J020104-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 10/4/2001
PO#: SR033804

- COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	10/8/01	10/11/01

CAS Number	Parameter	Result	Typical Report Lit
12674-11-2	Aroclor 1016	<0.08 ug/l	
11104-28-2	Aroclor 1221	<0.10 ug/l	
11141-16-5	Aroclor 1232	<0.10 ug/l	
53469-21-9	Aroclor 1242	<0.10 ug/l	
12672-29-6	Aroclor 1248	<0.10 ug/l	
11097-69-1	Aroclor 1254	<0.10 ug/l	
11096-82-5	Aroclor 1260	<0.10 ug/l	

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECIOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

These data have been reviewed and validated as directed by CRA's Senior Chemist, Paul Wiseman, November 12, 2001

These data are reported as is without qualification CWS 12/19/01

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

HLC c/o GL-North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13468

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Lisa Meili

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Purgeable	REMARKS
1	10/1/01	0930	GW-MW01-330076-LM-001	Water	6	✓	

TOTAL NUMBER OF CONTAINERS 6

REMARKS:
*Ref. July 2001 QAPP
*TAT = 2wk Final Report
*CRA Contact = Paul Wilson

RELINQUISHED BY: ① [signature]	DATE: 10/1/01 TIME: 2000	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. Meili

RECEIVED FOR LABORATORY BY: [signature]

DATE: 10-2-01 TIME: 0800

08423

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
NOV 29
SDG 15

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1J020103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPOR
Project#: 13968 Lab#: A1J020
Name: GMPT - Bedford Plant
Description
Event: GW - Supply Well Su
Samples: 1W (10/1)
Analysis: PCB

Amy L. McCormick
Project Manager

TAT: 2WK
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 12/10/01 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

November 28, 2001

CASE NARRATIVE

A1J020103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-100101-330026-LM-002	A1J020103-001	MEL01-12608

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 22-Oct-01

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12608 **Your Sample ID:** A1J020103-1
Date Logged In: 10/8/01 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 10/4/2001 **PO#:** SR033804

- COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	10/8/01	10/11/01

CAS Number	Parameter	Result	Typical Report Lit
Low surrogate confirmed by re-extracted sample. Re-extraction performed 10/15/2001.			Qualifier Added
12674-11-2	Aroclor 1016	<0.08 ug/l	UJ
11104-28-2	Aroclor 1221	<0.10 ug/l	UJ
11141-16-5	Aroclor 1232	<0.10 ug/l	UJ
53469-21-9	Aroclor 1242	<0.10 ug/l	UJ
12672-29-6	Aroclor 1248	<0.10 ug/l	UJ
11097-69-1	Aroclor 1254	<0.10 ug/l	UJ
11096-82-5	Aroclor 1260	<0.10 ug/l	UJ

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12608	508	Decachlorobiphenyl (Surr)	17 %R *	70	130
		Low surrogate recovery			
MEL01-12608	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery			

These data have been reviewed and validated as directed by CEA's Senior Chemist, Paul Wiseman, November 12, 2001

"UJ". The report limit identified is qualified as an approximate value
JRS 12/19/01

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

Hick & Sil - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Robert C. Newell PRINTED NAME: Lisa Medi

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Dissolved Lead	REMARKS
1	10/01/01	1533	GW-100101-330026-LM-002	Water	2		
			TOTAL NUMBER OF CONTAINERS		2		

*Ref. July 2001 COC
*TAT = 2wk Final 2-a
*CRA Contact - Paul Wise

RELINQUISHED BY: ① [signature]	DATE: 10/1/01 TIME: 12:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ - 2 10/1/01 AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. MEDI

RECEIVED FOR LABORATORY BY: [signature]

DATE: 10-2-1 TIME: 08:00

08424

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
APR 16 2002
CRA SDG 16

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300124

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300124
Name: Bedford
Description
Event: Stream Invest.
Samples: 1-WL-129-001)
DCP

Amy L. McCormick
Project Manager

TAT: 2 wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/16/02 Init.: JA
Date of Validation Memo:
Invoice Approval Date:
Comments:

April 15, 2002

CASE NARRATIVE

A2A300124

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-202021-LM-001	A2A300124-001	MEL02-01201

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 13-Feb-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-01201 **Your Sample ID:** A2A300124-1
Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036248

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01201	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-01201	508	Tetrachloro-m-xylene (Surr)	101 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036248

Report Pac ge: Expanded Deliverables
Need Analytical port 2002-02-06

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORM K

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2A300124-1	ETEW0	GW-012902-202021-LM-001	2002-01-29	508 PCB (AS Aroclors) 01/2C1
A2A300124-1 D	ETEW0	GW-012902-202021-LM-001	2002-01-29	
A2A300124-1 S	ETEW0	GW-012902-202021-LM-001	2002-01-29	

(ABCD)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Shipping Method: COURIER

Relinquished by: _____ Date/Time: 1-30-02 1100

Relinquished by: _____ Date/Time: _____

Received for Lab by: S. Reed Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

J747

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS (DW-PCB508)	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2	L	MS/MSD
2	1/29/02	1335	GW-012902-202021-LM-001	"	2	L	
3	1/29/02	1335	GW-012902-202021-LM-002	"	2	L	
				TOTAL NUMBER OF CONTAINERS	6		

*Please supply individual Analytical Report.

*Ref. July 2001 QAPP
*TAT = 2 wk Final Report
*CRA Contact = Paul Hansen

RELINQUISHED BY: ① Lisa Meoli	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: 1/29/02 Fed Ex Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden –Sampler Copy

SAMPLE TEAM: Lisa Meoli, George Zerng

RECEIVED FOR LABORAT: George Zerng DATE: 1/30/02 TIME: 7:

BY: 5Am 08434

FCC: PLS-OCT 24/96 PLLO-(CWF-011)

REC'D CRA
APR 16 2002
CRA SDG 16

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300126

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 15, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300126
Name: Bedford
Description
Event: Stream Event
Samples: 1-GW (1/19 - 602)
Analysis: PCB
TAT: 2 WK
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/4/02 Init.: LM
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2A300126

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-202021-LM-002	A2A300126-001	MEL02-01202

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *13-Feb-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-01202 **Your Sample ID:** A2A300126-1
Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036249

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01202	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery.			
MEL02-01202	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

SAMPLE ANALYSIS REQUISITION
Lab Request SR036249

Report Package: Expanded Deliverables
Need Analytical Report 2002-02-06

Project Manager: AMY MCCORMICK

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2A300126-1	ETEXH	GW-012902-202021-LM-002	2002-01-29	508 PCB (PJ Aroclors) 01/2012 AB

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Shipping Method: COURIER

Relinquished by: _____ Date/Time: 1-30-02 1115

Relinquished by: _____ Date/Time: _____

Received by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford J747

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS (MW-13968)	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2	✓	
2	1/29/02	1335	BW-012902-202021-LM-001	"	2	✓	MS/MSD
3	1/29/02	1335	GW-012902-202021-LM-002	"	2	✓	
							*Please supply individual Analytical Report.
							*Ref. July 2001 QAPP *TAT = 2 wk. Final Report *CRA Contact - Paul Wisseman
			TOTAL NUMBER OF CONTAINERS		6		

RELINQUISHED BY: ① Lisa Meoli	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③ 1/29/02	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Lisa Meoli, George Seng

RECEIVED FOR LABORATORY BY: Seng Bunn
DATE: 1/30/02 TIME: 7:45 AM 08[illegible]4

FORM FMS-OCT 24 96-REV.0-(CRF-011)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

APR 16 2002
CRA SDG 17

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300128

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300128
Name: Bedford
Description
Event: Stream Invest.
Samples: 7-U (1/29 - 601)
Analysis: PCB
TAT: 2 wk
Lab: STL
Checked Against Preliminary Data:
Date: 4/16/02 Init.: AM
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

April 15, 2002

STL North Canton is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

A2A300128

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-B809012-LM-001	A2A300128-001	MEL02-01203

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 13-Feb-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-01203 **Your Sample ID:** A2A300128-1
Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036250

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01203	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL02-01203	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

8878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036250

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Report P kage: Expanded Deliverables
Need Analyt Report 2002-02-06

Project Manager: AMY MCCC MICK

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Requ d
A2A300128-1	ETEXQ	GW-012902-B809012-LM-001	2002-01-29	508 PCI (AS Aroclors) 01.203 (AP)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Shipi Method: COURIER

Relinquished by: _____ Date/Time: 1-30-02 1115

Relinquished by: _____ Date/Time: _____

Received by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton J747

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Lisa C Meola PRINTED NAME: Lisa C Meola

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS
1	1/29/02	1420	GW-01	2-B80922-LM-001	Water 2

PARAMETERS: TVPH (8015)

REMARKS:

(*) Please send individual email of results.

*Ref. July 2001 QAPP
*TAT = 2 wk Final Report
CRA Contact = Paul Wagner

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: ① Lisa C Meola	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FedEx 1/29/02 Courier AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: L Meola, G. Seng

RECEIVED FOR LABORATORY BY: Gary Burns
DATE: 1/30/02 TIME: 7:45 AM

08432

MAR 27 2002
CRA SDG 18

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 013968

GMPT BEDFORD

Lot #: A2B130106

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

March 26, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2B130106
Name: Bedford
Description
Event: GW Sampling
Samples: 1-W (2/12-001)
Analysis: PCB
TAT: 2WK
Lab: STL
Checked Against Preliminary Data:
Date: 3/27/02 Init: MC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2B130106

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received February 13, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on March 22, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-021202-314012-JK-001	A2B130106-001	MEL02-01700

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 11-Mar-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01700
Your Sample ID: A2B130106-1
Date Logged In: 2/14/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 2/14/2002 **PO#:** SR036496

- COLLECTION INFORMATION -

Date/Time/By: 2/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/18/02	2/21/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01700	508	Decachlorobiphenyl (Surr)	10 %R *	70	130
		Low surrogate recovery.			
MEL02-01700	508	Tetrachloro-m-xylene (Surr)	48 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036496

Report ıckage: Expanded Deliverables
Need Anal cal Report 2002-02-27

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCC RMICK 330-966-9787

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2B130106-1	ET2H7	GW-021202-314012-JK-001	2002-02-12	508 D[illegible] water PCB

01700 (AB)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Sh ing . ethod: COURIER

Relinquished by: _____ Date/Time: 2-13-02 0930

Relinquished by: _____ Date/Time: _____

Recei[redacted] lab by: S. Roach Date/Time: 2[redacted]02 11:00

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): A.T.E.L. (IN CARE OF S.T.L. NORTH CANTON)

PAGE 1/1
COOLER: 11158

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 013968

PROJECT NAME: GMPT BEDFORD

SAMPLER'S SIGNATURE: Jeff Kolodziejski PRINTED NAME: JEFF KOLODZIEJSKI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: PCB's	REMARKS
	2/12/02	1150	~~GW-16-021202-JK-001-2/12/02~~ GW-021202-314012-JK-001	WATER	2	X	
			TOTAL NUMBER OF CONTAINERS		2		

RELINQUISHED BY: ① Jeff Kolodziejski	DATE: 2/12/02 TIME: 1700	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden —Sampler Copy

SAMPLE TEAM: J.K., M.D.

RECEIVED FOR LABORA[illegible] BY:

DATE: 2-13-02 TIME: [illegible] PM

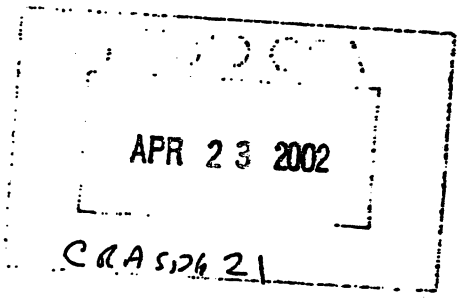
[illegible]93

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C130107

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C130107
Name: Bedford
Description
Event:
Samples: 4W (3/12 - 1-2 + D)
Analysis: PCB
T 2 wk
L: STL/ATEL
Check
I 4/23/02
Da
In
C

Amy L. McCormick
Project Manager

April 20, 2002

This report shall not be reproduced, except in full, without the written approval of Severn Trent Laboratories, Inc.

CASE NARRATIVE

A2C130107

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The samples were received March 13, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 3, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-031202-206012-JK-001	A2C130107-001	MEL02-02847
GW-031202-206012-JK-001DISS	A2C130107-002	MEL02-02848
GW-031202-206012-JK-002	A2C130107-003	MEL02-02849
GW-031202-206012-JK-002DISS	A2C130107-004	MEL02-02850

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 22-Mar-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02847 **Your Sample ID:** A2C130107-1
Date Logged In: 3/14/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

Low Surrogate recovery,ok by client to report per Sue S. 03-22-02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016 U5	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232 U5	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242 U5	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248 U5	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254 U5	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260 U5	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02847	508	Decachlorobiphenyl (Surr)	24 %R *	70	130

Low surrogate recovery.

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 22-Mar-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-02848 **Your Sample ID:** A2C130107-2

Date Logged In: 3/14/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02848	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-02848	508	Tetrachloro-m-xylene (Surr)	90 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

3678 S. STATE ROUTE 165 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 22-Mar-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02849
Date Logged In: 3/14/02
Sample Type: Water
Project #:

Your Sample ID: A2C130107-3
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

Low Surrogate recovery,ok by client to report per Sue S. 03-22-02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016 UJ	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232 UJ	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242 UJ	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248 UJ	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254 UJ	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260 UJ	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02849	508	Decachlorobiphenyl (Surr)	24 %R *	70	130
		Low surrogate recovery.			
MEL02-02849	508	Tetrachloro-m-xylene (Surr)	37 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

5878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *22-Mar-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-02850
Your Sample ID: A2C130107-4
Date Logged In: 3/14/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 3/13/2002
PO#: SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02850	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-02850	508	[illegible] (Surr)	95 %R	70	130

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL - North Canton

COOLER: K 31 | PAGE: 1 OF 1

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Jeff Kolodziejski PRINTED NAME: JEFF KOLODZIEJSKI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL VOCs 8260B DISSOLVED	PARAMETERS: TCL VOCs 8260B TOTAL	REMARKS
	3/12/02	1130	GW-031202-206012-JK-001	WATER	8	X	X	ms/msD
	↓	1200	JK-002	↓	4	X	X	
								*Ref. July 2001 QAPP *TAT = 2 wk for final report *CRA Contact - Paul Hi
			TOTAL NUMBER OF CONTAINERS		12			

RELINQUISHED BY: ① Jeff Kolodziejski	DATE: 3/12/02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: KOLODZIEJSKI

RECEIVED FOR LABORAT BY: Anne Sandy

DATE: 3-13-02 TIME:

08411

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

INFO'D CRA
APR 23 2002
CRA SDG 19

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C220121

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C220121
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event:
Samples: 2-W (3/1 - T+D
Analysis: TCL

Amy L. McCormick
Project Manager

T.A.T.: 2wk
Lab: STL
Check ... Preliminary Data:
D... 3/13/02 Init.: W
D... Memo:
In... oval Date:
C... is:

April 20, 2002

... is a service mark of Severn Trent Laboratories, Inc.

CASE NARRATIVE

A2C220121

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The samples were received March 22, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 11, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032102-413-JW-001	A2C220121-001	MEL02-03426
GW-032102-413-JW-001DISS	A2C220121-002	MEL02-03427
GW-032102-413-JW-002	A2C220121-003	MEL02-03428
GW-032102-413-JW-002DISS	A2C220121-004	MEL02-03429

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: *04-Apr-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03426
Date Logged In: 3/26/02
Sample Type: Water
Project #:

Your Sample ID: A2C220121-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03426	508	Decachlorobiphenyl (Surr)	59 %R	70	130
		Low surrogate recovery.			
MEL02-03426	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6873 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 04-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03427
Date Logged In: 3/26/02
Sample Type: Water
Project #:

Your Sample ID: A2C220121-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03427	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03427	508	Tetrachloro m xylene (Surr)	90 %R	--	

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 04-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03428
Date Logged In: 3/26/02
Sample Type: Water
Project #:

Your Sample ID: A2C220121-3
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/26/2002
PO#: SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03428	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-03428	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6676 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *04-Apr-02*

Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Our Lab#: MEL02-03429
Date Logged In: 3/26/02
Sample Type: Water
Project #:

Your Sample ID: A2C220121-4
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/26/2002
PO#: SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03429	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		* Low surrogate recovery.			
MEL02-03429	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

1 of 1
K-226

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: LISA Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DUPLICATE	TOTAL	DISSOLVED	REMARKS
1	3-21-02	1120	GW-032102-413-JW-001	H_2O	8		X	X	
2	3-21-02	1122	GW-032102-413-JW-002	H_2O	4		X	X	

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
APR - 3 2002
CRA SPG 20

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C220148

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C220148
Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event:
Samples: 1-GW (3/21-003)
Anaiysis: PCB-1 (1)

Amy L McCormick

Amy L. McCormick
Project Manager

T.A.T.: 20K
Lab: STL

Checked Against Preliminary Data:
Date: NA Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

April 2, 2002

SAMPLE SUMMARY

A2C220148

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EWR0C	001	GW-032102-413-JW-003	03/21/02	11:24
EWR0F	002	GW-032102-413-JW-003DISS	03/21/02	11:24

NOTES(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CR[illegible]

CONESTOGA-ROVERS & AS[illegible]CIATES
8615 W. Bryn Mawr Avenu
Chicago, Illinois 60631 ([illegible]3)380-9933

CHAIN OF CUSTOD[illegible] RECORD

SHIPPED TO (Lab[illegible]ory Name): STL- NORTH CANTON

COOLER: [illegible]02

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

SAMPLER'S SIGNATURE: [signature]

PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME		SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs / DISSOLVED PCBs	REMARKS
1	03/21/02	11:24	GW-0321	-413-JW-003	WATER	4	X X	OW-PCBs (508)
							~~X~~ ~~X~~ 03/21/02	
				TOTAL NUMBER OF CONTAINERS		4		

RELINQUISHED BY: ① [signature]	DATE: 3/21/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: WEINBERGER, MEOLI

RECEIVED FOR LABORATORY BY: [signature]

DATE: 3-22-02 TIME: 0800

07403

[illegible] (CHF-01)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003

GC Semivolatiles

Lot-Sample #...:	A2C220148-001	Work Order #...:	EWR0C1AA	Matrix.....:	WG
Date Sampled...:	03/21/02 11:24	Date Received..:	03/22/02		
Prep Date.....:	03/22/02	Analysis Date..:	03/24/02		
Prep Batch #...:	2081138				
Dilution Factor:	1	Initial Wgt/Vol:	1000 mL	Final Wgt/Vol..:	2 mL
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	42	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2C220148-002 Work Order #...: EWR0F1AA Matrix.....: WG
Date Sampled...: 03/21/02 11:24 Date Received..: 03/22/02
Prep Date.....: 03/22/02 Analysis Date..: 03/25/02
Prep Batch #...: 2081139
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND R	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND R	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND R	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND R	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND R	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND R	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND R	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	8.9 *	(45 - 120)
Decachlorobiphenyl	64	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

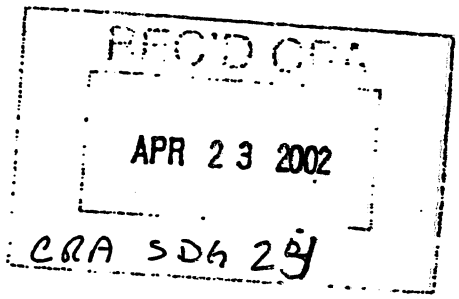
Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2C290102



Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C290102
Name: Bedford
Description
Event: GW
Samples: 2-W (2/16) 1
Analysis: PCB-T-V

Amy L. McCormick
Project Manager

TAT: 2WK
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 4/29/02 Init.: [illegible]
Date of Validation Memo:
Invoice Approval Date:
Comments:

April 20, 2002

STL North Canton is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

A2C290102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received March 29, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032802-216012-GS-001	A2C290102-001	MEL02-03664
GW-032802-216012-GS-001DISS	A2C290102-002	MEL02-03665

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 12-Apr-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03664 **Your Sample ID:** A2C290102-1
Date Logged In: 4/3/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/2/2002 **PO#:** SR037485

- COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/3/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03664	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-03664	508	Tetrachloro-m-xylene (Surr)	30 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *12-Apr-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03665
Date Logged In: 4/3/02
Sample Type: Water
Project #:

Your Sample ID: A2C290102-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/2/2002 **PO#:** SR037485

- COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/3/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03665	508	Decachlorobiphenyl (Surr)	41 %R *	70	130
		Low surrogate recovery.			
MEL02-03665	5·	Tetrachloro-m-xylene (Surr)	31 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - NORTH CANTON; NORTH CANTON, OHIO — Cooler # K93

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: George Seng — PRINTED NAME: George Seng

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Dissolved PCBs	PARAMETERS: Total PCBs	REMARKS
1	03/28/02	11:59	GW-032802-216012-GS-001	WATER	4	X	X	

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: ① George Seng	DATE: 3/28/02 TIME: 17:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER — AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden –Sampler Copy

SAMPLE TEAM: SENG, WEINBERGER

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 3/29/02 TIME: 7:40 AM 07449

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

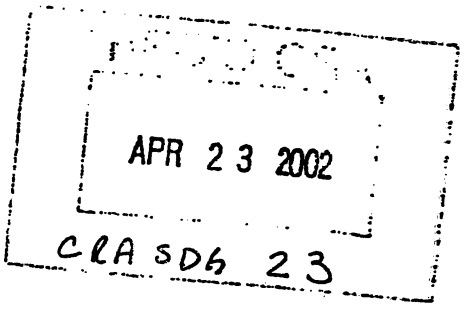
Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D030108



Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D030108
Name: Bedford
Description
Event: _____
Samples: 2 - (4½ - 6m) T+D
Analysis: PCB
_____
TAT: 2 wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/23/02 Init.: mm
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 20, 2002

STL North Canton is a part of Severn Trent Laboratories, Inc.

CASE NARRATIVE

A2D030108

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 3, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040202-305012-JW-001	A2D030108-001	MEL02-03767
GW-040202-305012-JW-001DISS	A2D030108-001	MEL02-03768

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 15-Apr-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03767 **Your Sample ID:** A2D030108-1
Date Logged In: 4/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/4/2002 **PO#:** SR037548

- COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/5/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03767	508	Decachlorobiphenyl (Surr)	68 %R *	70	130
		Low surrogate recovery.			
MEL02-03767	508	Tetrachloro-m-xylene (Surr)	46 %R *	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *15-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03768 **Your Sample ID:** A2D030108-2
Date Logged In: 4/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/4/2002 **PO#:** SR037548

- COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/5/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03768	508	Decachlorobiphenyl (Surr)	83 %R	70	130
MEL02-03768	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER # CRA60
PAGE: 1 OF 1

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger

PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
1	04/02/02	14:11	GW-040202-305012-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/02/02 TIME: 18.00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden —Sampler Copy

SAMPLE TEAM: SENG, WINXLER
WEINBERGER

RECEIVED FOR LABORATO: Terry Burr
DATE: 4/3/02 TIME: 7A

BY:

07154

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D050102

CRA SDG 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D050102
Name: Bedford
Description
Event:
Sampling (4/1 - TBD)
Analysis: PCB
TAT: 2wks
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 4/24/02 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

April 20, 2002

CASE NARRATIVE

A2D050102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn: Amy McCormick

Report Date: 18-Apr-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-03946 **Your Sample ID:** A2D050102-1

Date Logged In: 4/8/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/8/2002 **PO#:** SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result		Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	UJ	0.1
11141-16-5	Aroclor 1232	1.7 ug/l	J	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr)	38 %R *	70	130
		Low surrogate recovery.			
MEL02-03946	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

5878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *18-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03947 **Your Sample ID:** A2D050102-2
Date Logged In: 4/8/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/8/2002 **PO#:** SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery.			
MEL02-03947	508	Tetrachloro-m-xylene (Surr)	35 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER: NA
FREIGHT

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Dissolved PCBs	PARAMETERS: Total PCBs	REMARKS
	04/04/02	11:58	GW-040402-472-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① [signature]	DATE: 04/04/02 TIME: 18:30	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden –Sampler Copy

SAMPLE TEAM: SENG KOLODZIEJSKI, WEINBERGER

RECEIVED FOR LABORATORY: Anil Sahota
DATE: 04/5/02 TIME: 7

BY: 10

07458

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
MAY 29 2002
CRA SDG 29

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D100105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D100105
Name: GM-BEDFORD

Description
Event: OFFSITE GW (DW) ANALYSIS
Samples: 2 WATERS (JW 001, 002)
Analysis: PCBs;

TAT: STNDRD TAT (IT ;-)
Lab: STL-NC / ATEL.
Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D100105

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 10, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040902-414-JW-001	A2D100105-001	MEL02-04316
GW-040902-414-JW-001DISS	A2D100105-002	MEL02-04317
GW-040902-414-JW-002	A2D100105-003	MEL02-04318
GW-040902-414-JW-002DISS	A2D100105-004	MEL02-04319

Amy McCormick

Amy McCormick
Project Manager

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL C/O STL-NORTH CANTON; NORTH CANTON, OHIO

~~LOCKHEED~~ CARLER FOR

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John J. Weinberger

PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	04/09/02	10:10	GW-040902-414-JW-001	WATER	4	X	X	
	04/09/02	10:15	GW-040902-414-JW-002	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		8			

RELINQUISHED BY: ① John J. Weinberger — DATE: 04/09/02 TIME: 18:00 — RECEIVED BY: ② — DATE: TIME:

RELINQUISHED BY: ② — DATE: TIME: — RECEIVED BY: ③ — DATE: TIME:

RELINQUISHED BY: ③ — DATE: TIME: — RECEIVED BY: ④ — DATE: TIME:

METHOD OF SHIPMENT: COURIER — AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden —Sampler Copy

SAMPLE TEAM: SENG, MEOLI; WEINBERGER

RECEIVED FOR LABORATORY BY: Terry Burns

DATE: 4/10/02 TIME: 6 AM

07475

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *29-Apr-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04316
Date Logged In: 4/16/02
Sample Type: Water
Project #:

Your Sample ID: A2D100105-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04316	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04317
Date Logged In: 4/16/02
Sample Type: Water
Project #:

Your Sample ID: A2D100105-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04317	508	Decachlorobiphenyl (Surr)	63 %R *	70	130
		Low surrogate recovery.			
		m-xylene (Surr)	88 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04318
Date Logged In: 4/16/02
Sample Type: Water
Project #:

Your Sample ID: A2D100105-3
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04318	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04318	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: 10467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-04319 **Your Sample ID:** A2D100105-4

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04319	508	Decachlorobiphenyl (Surr)	72 %R	70	130
MEL02-04319	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130

Low surrogate recovery.

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330-497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
MAY 29 2002
CRA SDG 25.

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D110111

Paul Wiseman

Conestoga Rovers & Assoc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D110111
Name: GM-BEDFORD

Description
Event: OFFSITE GW (DW) ANALYSIS
Samples: 3 WATERS (LH 001 JW 001, 002)
Analysis: PCBs

TAT: STNDRD TAT (14 DAYS)
T.L. STL_NC / ATE1.

Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

SEVERN TRENT LABORATORIES,

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D110111

The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 11, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041002-115012-LM-001	A2D110111-001	MEL02-04311
GW-041002-115012-LM-001DISS	A2D110111-002	MEL02-04312
GW-041002-115012-JW-002	A2D110111-003	MEL02-04313
GW-041002-115012-JW-002DISS	A2D110111-004	MEL02-04314
GW-041002-115012-JW-001	A2D110111-005	MEL02-04315

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 29-Apr-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04311 **Your Sample ID:** A2D110111-1 D+S
Date Logged In: 4/15/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04311	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			
MEL02-04311	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04312
Date Logged In: 4/16/02
Sample Type: Water
Project #:

Your Sample ID: A2D110111-2 D+S
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04312	508	Decachlorobiphenyl (Surr)	67 %R *	70	130
		Low surrogate recovery.			
MEL02-04312	508	Tetrachloro-m-xylene (Surr)	82 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 29-Apr-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04313 Your Sample ID: A2D110111-3
Date Logged In: 4/16/02 Sample Source: SDWA/WTP's
Sample Type: Water Client Project #:
Project #: Date Submitted to Lab: 4/12/2002 PO#: SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04313	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery.			
MEL02-04313	508	[illegible] (Surr)	[illegible] %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 29-Apr-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04314 **Your Sample ID:** A2D110111-4
Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04314	508	Decachlorobiphenyl (Surr)	26 %R *	70	130
		Low surrogate recovery.			
MEL02-04314	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04315
Your Sample ID: A2D110111-5
Date Logged In: 4/16/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04315	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery.			
MEL02-04315	508	Tetrachloro-m-xylene (Surr)	77 %R	--	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & A SOCIATES
8615 W. Bryn Mawr Aver ue
Chicago, Illinois 60631 773)380–9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

1071
K165

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

CHAIN OF CUSTO Y RECORD

SAMPLER'S SIGNATURE: John L. Wei

PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
1	04/10/02	14:30	GW-04 02-115012-LM-001	WATER	8	X	X	MS/MSD
2	04/10/02	14:50	GW-04 02-115012-JW-002	WATER	4	X	X	
3	04/10/02	17:00	EB-0410 2-115012-JW-001	WATER	2		X	

TOTAL NUMBER OF CONTAINERS: 14

RELINQUISHED BY: ① John L. Wein	DATE: 04/10/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Execut Copy
Yellow –Receiving L oratory Copy
Pink –Shipper Cop
Goldenrod –Sampler Co

SAMPLE TEAM: SENG, MEOLI
WEINBERGER

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 4/11/02 TIME: 6:40 Am

07482

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
MAY 29 2002
CRA SDG - 26

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2D160105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D160105
Name: GM BEDFORD
Description
Event: OFFSITE GW(DW) ANALYSIS
Samples: 1 WATER (JW-001)
Analysis: PCBs; T+D

TAT: [illegible]
Lab: STL-NC - ATEL
Checked Against Preliminary Data:
Date: 5/30/02 Init.: mm
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D160105

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received April 16, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on May 8, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041502-403014-JW-001	A2D160105-001	MEL02-04628
GW-041502-403014-JW-001DISS	A2D160105-002	MEL02-04629

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *03-May-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04628 **Your Sample ID:** A2D160105-1
Date Logged In: 4/19/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/18/2002 **PO#:** SR037915

- COLLECTION INFORMATION -

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/19/02	4/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04628	508	Decachlorobiphenyl (Surr)	22 %R *	70	130
		Low surrogate recovery.			
MEL02-04628	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *03-May-02*

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720 **Phone:** (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04629 **Your Sample ID:** A2D160105-2

Date Logged In: 4/19/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/18/2002 **PO#:** SR037915

- COLLECTION INFORMATION -

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/19/02	4/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04629	508	Decachlorobiphenyl (Surr)	18 %R *	70	130
		Low surrogate recovery.			
MEL02-04629	508	Tetrachloro-m-xylene (Surr)	26 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL-N. Canton — Cooke STL Buffalo

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOT. PCB'S, TCL VOC'S	REMARKS
1	4-15-02	1410	GW-041502-403014-JW-001	WATER	4	2 2	

TOTAL NUMBER OF CONTAINERS: 4

RELINQUISHED BY: ① Lisa Meoli	DATE: 4-15-02 TIME: 1441	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: Meoli; Weinberger; Seng

RECEIVED FOR LABORATORY BY: ATEL STL Terry Burns
DATE: 4/16/02 TIME: 7Am

07765

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

D CRA
MAY - 7 2002
CRA SDG 21

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D180105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

May 6, 2002

ORIGINAL ANALYTICAL REPORT

Project#: 13968 Lab#: A2D180105

Name: Bedford

Description

Event:

Samples: 2-W (4/17-01+02)

PCB-T+D

Amy L. McCormick/ TAT: 2wk

Lab: STL/ATL

Checked Against Preliminary Data:

Date: _____ Init.: _____

Date of Validation Memo: _____

Invoice Approval Date: _____

Comments: _____

SAMPLE SUMMARY
A2D180105

WO#	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EX3N5	001	GW-041702-1277025-LM-001	04/17/02	12:05
EX3PC	002	GW-041702-1277025-LM-001DISS	04/17/02	12:05
EX3PE	003	GW-041702-1277025-LM-002	04/17/02	15:05
EX3PG	004	GW-041702-1277025-LM-002DISS	04/17/02	15:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 02-May-02

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04769
Your Sample ID: A2D180105-001
Date Logged In: 4/24/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04769	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		Low surrogate recovery.			
MEL02-04769	508	Tetrachloro-m-xylene (Surr)	45 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Report Date: 02-May-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04770

Your Sample ID: A2D180105-002

Date Logged In: 4/24/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04770	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04770	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 02-May-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04771 **Your Sample ID:** A2D180105-003
Date Logged In: 4/24/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04771	508	Decachlorobiphenyl (Surr)	43 %R *	70	130
		Low surrogate recovery.			
MEL02-04771	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *02-May-02*

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04772
Your Sample ID: A2D180105-004
Date Logged In: 4/24/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04772	508	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery.			
MEL02-04772	508	Tetrachloro-m-xylene (Surr)			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

CR[redacted]

CONESTOGA-ROVERS & [redacted]SOCIATES
8615 W. Bryn Mawr Ave [redacted]e
Chicago, Illinois 60631 [redacted]773)380-9933

SHIPPED TO ([redacted]ratory Name): ATEL C/O STL N. CANTON — Cooper ELAB TN

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - Bedford

CHAIN OF CUST[redacted]Y RECORD

SAMPLER'S SIGNATURE: Lisa Ce[redacted]eole PRINTED NAME: LISA C. Meoli

SEQ. No.	DATE	TIME		SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOT. PCB / DISS. PCB	REMARKS
1	4-17-02	1205	GW-C	[redacted]702-1277025-LM-001	H2O	4	X X	
2	4-17-02	1505	GW-C	[redacted]702 1277025-LM1-002	H2O	4	X X	
				TOTAL NUMBER OF CONTAINERS		8		

RELINQUISHED BY: ① Lisa Ce Meoli — DATE: 4-17-02 TIME: 1600 — RECEIVED BY: ② — DATE: TIME:

RELINQUISHED BY: ② — DATE: TIME: — RECEIVED BY: ③ — DATE: TIME:

RELINQUISHED BY: ③ — DATE: TIME: — RECEIVED BY: ④ — DATE: TIME:

METHOD OF SHIPMENT: Courier — AIR BILL No.

White –Fully Execut[redacted]d Copy
Yellow –Receiving Lc[redacted]oratory Copy
Pink –Shipper Cop
Goldenrod –Sampler Co[redacted]y

SAMPLE TEAM: G. Sen[redacted] L. Meoli

RECEIVED FOR LABORATORY BY: [redacted] DATE: 4-18-02 TIME: 0740

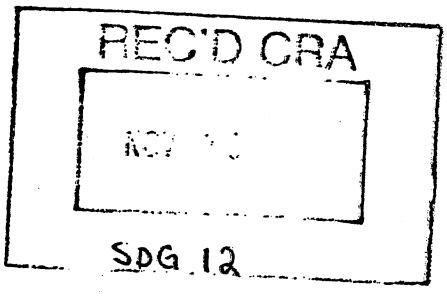
07412

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT



PROJECT NO. 13968

GM-BEDFORD

Lot #: A1I210104

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

November 28, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1I210104
Name: GMPT-Bedford Plant
Description
Event: GW-Supply Well Survey
Samples: 1 w (9/14)
Analysis: PCB

TAT: 2 wk
Lab: STL/ATEL
Checked Against Preliminary Data:
Date: 12/10/01 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

SLC

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL - North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa C. Meoli PRINTED NAME: LISA C. MEOLI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-MEE608	PARAMETERS: 11628 (A,B)	REMARKS
1	9/14/01	1724	GW-091401-B809012-LM-001	WATER	2	✓	✓	
								*Ref. July 2001 QAPP *TAT = 2 wk Final Report *CRA Contact = Paul Wisener
			TOTAL NUMBER OF CONTAINERS		2			

RELINQUISHED BY: ① Lisa M. Meoli	DATE: 9/18/01 TIME: 1533	RECEIVED BY: ② Jack T. DeLong	DATE: 9-18-01 TIME: 3:33
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ 9/18/01 AIR BILL No. ~~4410 4466 5184~~ 9/18/01

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. MEOLI

RECEIVED FOR LABORATORY BY: S. Roach
DATE: 9-18-01 TIME: 4:00

08436

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

O.C.

CASE NARRATIVE

A1I210104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-091401-8809012-LM-001	A1I210104-001	MEL01-11628

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *08-Nov-01*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL01-11628

Date Logged In: 9/19/01

Sample Type: Water

Project #:

Your Sample ID: GW-091401-8809012-LM-001

Sample Source: SDWA/WTP's

Client Project #: CRA

Date Submitted to Lab: 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

Re-extraction performed out of hold time.

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. Doss

This report shall not be reproduced, except in its entirety, withoput the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
NOV 29
SDG 13

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1I210103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 13968 **Lab#:** A1I210103

SEVERN TRENT LABORATORIES, INC **Name:** GMPT - Bedford Plant

Description

Event: GW - Supply Well Survey

Samples: 1w (9/15)

Analysis: PCB

Amy L. McCormick

Amy L. McCormick
Project Manager

TAT: 2wk

Lab: STL/ATEL

Checked Against Preliminary Data:

Date: 12/10/01 **Init.:** kw

November 28, 2001

Date of Validation Memo:

Invoice Approval Date:

Comments:

CASE NARRATIVE

A1I210103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received September 18, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-091501-620013-LM-001	A1I210103-001	MEL01-11627

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *10-Oct-01*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11627
Date Logged In: 9/19/01
Sample Type: Water
Project #:

Your Sample ID: GW-091501-620013-LM-001
Sample Source: SDWA/WTP's
Client Project #: CRA
Date Submitted to Lab: 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	0.95 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SIL

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): AFEL c/o STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS (VOCs 8260)	REMARKS
1	9/15/01	1228	GW-091501-620013-LM-001	WATER	2	1162J (N.B)	

*Ref. July 2001 QAPP
*TAT = 2wk Final Report
*CRA Contact = Paul Wilsenach

TOTAL NUMBER OF CONTAINERS 2

RELINQUISHED BY: ① [signature] 9/18/01 1533	DATE: 9/17/01 TIME: 1600	RECEIVED BY: ② Walter Dan	DATE: 9-18-01 TIME: 333
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX 9/18/01 AIR BILL No. 4410 4466 5184 9/18/01

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: Li Meoli

RECEIVED FOR LABORATORY BY: S. Roach
DATE: 9-18-01 TIME: 4:00

08437

1001(...IS)-OCT 24/96-REV.0-(C)(F-01)

Oc

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
NOV 29
SDG 14

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1J020104

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1J020104
Name: GMPT - Bedford Plant
Description
Event: GW - Supply Well Survey
Samples: 1W (10/1)
Analysis: PCB
TAT: 2WK
Lab: STL / ATGL
Checked Against Preliminary Data:
Date: 12/10/10 Init.: nc
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

November 28, 2001

CASE NARRATIVE

A1J020104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-100101-330026-LM-001	A1J020104-001	MEL01-12609

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 22-Oct-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12609
Date Logged In: 10/8/01
Sample Type: Water
Project #:

Your Sample ID: A1J020104-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 10/4/2001 **PO#:** SR033804

- COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	10/8/01	10/11/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECIOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
NOV 29
SDG 15

PROJECT NO. 13968

GM-BEDFORD

Lot #: A1J020103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

November 28, 2001

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A1J020103
Name: GMPT - Bedford Plant
Description
Event: GW - Supply Well Survey
Samples: 1W (10/1)
Analysis: PCB
TAT: 2wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 12/10/01 Init.: m
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A1J020103

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received October 2, 2001, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-100101-330026-LM-002	A1J020103-001	MEL01-12608

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

A I I 2 1 0 1 0 1

- CERTIFICATE OF ANALYSIS -

Report Date: 08-Nov-01

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11628
Date Logged In: 9/19/01
Sample Type: Water
Project #:

Your Sample ID: GW-091401-8809012-LM-001
Sample Source: SDWA/WTP's
Client Project #: CRA
Date Submitted to Lab: 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/14/2001 5:24 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

CAS Number	Parameter	Result	Typical Report Limit
Re-extraction performed out of hold time.			
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11628	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery			
MEL01-11628	508	Tetrachloro-m-xylene (Surr)	55 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. Dorsey

This report shall not be reproduced, except in its entirety, withoput the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA SDG 12, 13

ATEL

Aqua Tech Environmental Laboratories, Inc.

AI210103

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: *10-Oct-01*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-11627
Date Logged In: 9/19/01
Sample Type: Water
Project #:

Your Sample ID: GW-091501-620013-LM-001
Sample Source: SDWA/WTP's
Client Project #: CRA
Date Submitted to Lab: 9/18/2001 **PO#:** 13968 GM-Bedford

- COLLECTION INFORMATION -

Date/Time/By: 9/15/2001 12:28 PM Lisa Meoli

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	9/19/2001	9/25/2001

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	0.95 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-11627	508	Decachlorobiphenyl (Surr)	48 %R *	70	130
		Low surrogate recovery.			
MEL01-11627	508	Tetrachloro-m-xylene (Surr)	100 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

STL

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): AFEL C/O STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GW-BEDFORD

SAMPLER'S SIGNATURE: Lisa C Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOCs (8260)	PARAMETERS: 1162? (A,B)	REMARKS
1	9/15/01	1228	GW-091501-620013-LM-001	WATER	2	✓	✓	

*Ref. July 2001 QAPP
*TAT = 2wk Final Report
*CRA Contact = Paul Wilserman

TOTAL NUMBER OF CONTAINERS: 2

RELINQUISHED BY: ① [signature] 9/18/01 1533	DATE: 9/17/01 TIME: 1600	RECEIVED BY: ② Walter Dorsey	DATE: 9-18-01 TIME: 333
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX 9/18/01 AIR BILL No. 4410 4466 5184 9/18/01

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. Meoli

RECEIVED FOR LABORATORY BY: S. Roach
DATE: 9-18-01 TIME: 4:00

08437

STL

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

SAMPLER'S SIGNATURE: Lisa C. Meoli PRINTED NAME: LISA C. MEOLI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-PCB(608)	PARAMETERS: 1628 (A,B)	REMARKS
1	9/14/01	1724	GW-091401-BB09012-LM-001	WATER	2	✓	✓	
								*Ref. July 2001 QAPP *TAT = 2 wk Final Report *CRA Contact = Paul Wisenor
			TOTAL NUMBER OF CONTAINERS		2			

RELINQUISHED BY: ① [signature] 9/19/01 1533	DATE: 9/19/01 ~~9/14/01~~ TIME: 1500 ~~1500~~	RECEIVED BY: ② [signature]	DATE: 9-18-01 TIME: 3:33
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~FED EX~~ 9/19/01 AIR BILL No. ~~4410 4466 5184~~ 9/19/01

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: L. MEOLI

RECEIVED FOR LABORATORY BY: D. Koach
DATE: 9-18-01 TIME: 4:00

08436

_M

ATEL

Aqua Tech Environmental Laboratories, Inc.

A1J020103

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 22-Oct-01

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12608
Date Logged In: 10/8/01
Sample Type: Water
Project #:

Your Sample ID: A1J020103-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 10/4/2001 **PO#:** SR033804

- COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	10/8/01	10/11/01

Low surrogate confirmed by re-extracted sample. Re-extraction performed 10/15/2001.

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12608	508	Decachlorobiphenyl (Surr)	17 %R *	70	130
		Low surrogate recovery			
MEL01-12608	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

A1J020104

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 22-Oct-01

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL01-12609
Date Logged In: 10/8/01
Sample Type: Water
Project #:

Your Sample ID: A1J020104-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 10/4/2001 **PO#:** SR033804

- COLLECTION INFORMATION -

Date/Time/By: 10/1/01

EPA Method	Analyst	Prep Date	Analysis Date
508	SH	10/8/01	10/11/01

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL01-12609	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		LOW SURROGATE RECIOVERY			
MEL01-12609	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
APR 16 2002
CRA SOH 16

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300124

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300124
Name: Bedford
Description
Event: Stream Invest.
Samples: 1-W (1/29-001)
Analysis: PCB
TAT: 2wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/16/02 Init.: JA
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

April 15, 2002

CASE NARRATIVE

A2A300124

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-202021-LM-001	A2A300124-001	MEL02-01201

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *13-Feb-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-01201 **Your Sample ID:** A2A300124-1

Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036248

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01201	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-01201	508	Tetrachloro-m-xylene (Surr)	101 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036248

Report Package: Expanded Deliverables
Need Analytical Report 2002-02-06

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2A300124-1	ETEW0	GW-012902-202021-LM-001	2002-01-29	508 PCB (AS Aroclors) 01201
A2A300124-1 D	ETEW0	GW-012902-202021-LM-001	2002-01-29	
A2A300124-1 S	ETEW0	GW-012902-202021-LM-001	2002-01-29	

(ABCD)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Shipping Method: COURIER

Relinquished by: _____ Date/Time: 1-30-02 1100

Relinquished by: _____ Date/Time: _____

Received for lab by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford J747

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS (VW-012902)	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2	L	
2	1/29/02	1335	GW-012902-202021-LM-001	"	2	L	MS/MSD
3	1/29/02	1335	GW-012902-202021-LM-002	"	2	L	
				TOTAL NUMBER OF CONTAINERS	6		

*Please supply individual Analytical Report.

*Ref. July 2001 QAPP
*TAT = 2 wk Final Report
*CRA Contact - Paul Nixon

RELINQUISHED BY: ① Lisa Ci Meoli	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ Courier 1/29/02 AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden Rod —Sampler Copy

SAMPLE TEAM: Lisa Meoli, George Seng

RECEIVED FOR LABORATORY BY: Jerry Burns
DATE: 1/30/02 TIME: 7:45 AM

08434

1001 (MS)-OCT 24/96-REV.0-(C)(F-01)

REC'D CRA
APR 16 2002
CRA 5046

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300126

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 15, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300126
Name: Bedford
Description
Event: Stream Invest.
Samples: 1-GW (1/19 - 602)
Analysis: PCB
TAT: 2wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/16/02 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2A300126

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-202021-LM-002	A2A300126-001	MEL02-01202

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *13-Feb-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01202 **Your Sample ID:** A2A300126-1
Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036249

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01202	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery.			
MEL02-01202	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036249

Report Package: Expanded Deliverables

Need Analytical Report 2002-02-06

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2A300126-1	ETEXH	GW-012902-202021-LM-002	2002-01-29	508 PCB (AS Aroclors) 01202 (AB)

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Shipping Method: COURIER

Relinquished by: _____ Date/Time: 1-30-02 1115

Relinquished by: _____ Date/Time: _____

Received for lab by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 139168

PROJECT NAME: GM-Bedford J747

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL+TICs (8260)	REMARKS
1	1/29/02	1335	GW-012902-202021-LM-001	WATER	2	1	
2	1/29/02	1335	GW-012902-202021-LM-001	"	2	1	MS/MSD
3	1/29/02	1335	GW-012902-202021-LM-002	"	2	1	
							*Please supply individual Analytical Report.
							*Ref. July 2001 QAPP *TAT = 2 wk Final Report *CRA Contact = Paul Wiseman
			TOTAL NUMBER OF CONTAINERS		6		

RELINQUISHED BY: ① Lisa Meoli	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ Courier AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: Lisa Meoli, George Berg

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 1/30/02 TIME: 7:45 AM

08434

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

APR 16 2002
CRA SDG 17

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2A300128

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 15, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2A300128
Name: Bedford
Description
Event: Stream Invest.
Samples: 7-U (1/29-601)
Analysis: PCB
TAT: 2wk
Lab: STL
Checked Against Preliminary Data:
Date: 4/16/02 Init.: ~
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2A300128

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received January 30, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on February 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-012902-B809012-LM-001	A2A300128-001	MEL02-01203

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *13-Feb-02*

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720 **Phone:** (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01203 **Your Sample ID:** A2A300128-1

Date Logged In: 2/4/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 2/1/2002 **PO#:** SR036250

- COLLECTION INFORMATION -

Date/Time/By: 1/29/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/4/02	2/4/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01203	508	Decachlorobiphenyl (Surr)	46 %R *	70	130
		Low surrogate recovery			
MEL02-01203	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036250

Report Package: Expanded Deliverables
Need Analytical Report 2002-02-06

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2A300128-1	ETEXQ	GW-012902-B809012-LM-001	2002-01-29	508 PCB (AS Aroclor 5) 01203 (AP)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 1-30-02 1115

Relinquished by: _____ Date/Time: _____

Received for lab by: S. Roach Date/Time: 2-1-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton J747

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Lisa Ce Meola PRINTED NAME: Lisa Ce Meola

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TVH-RCA(5X)	REMARKS
1	1/29/02	1420	GW-012902-B80902-LM-001	Water	2		

TOTAL NUMBER OF CONTAINERS

(*) Please supply individual and triad reports.

*Ref.-July 2001 QAPP
*TAT=2 wk Final Report
*CRA Contact=Paul Wisman

RELINQUISHED BY: ① Lisa Ce Meola	DATE: 1/29/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: ~~Fed Ex~~ 1/29/02 Courier AIR BILL No.

White =Fully Executed Copy
Yellow =Receiving Laboratory Copy
Pink =Shipper Copy
Goldenrod =Sampler Copy

SAMPLE TEAM: L Meola
G. Seng

RECEIVED FOR LABORATORY BY: Jerry Burns
DATE: 1/30/02 TIME: 7:45 Am

08432

CRA-DIS-OCT 24 98-4600-(CHF-01)

RECD CRA
MAR 27 2002
CRA SPH 18

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 013968

GMPT BEDFORD

Lot #: A2B130106

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

March 26, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2B130106
Name: Bedford
Description
Event: GW Sampling
Samples: 1-W (2/12-001)
Analysis: PCB
TAT: 2wk
Lab: STL
Checked Against Preliminary Data:
Date: 3/27/02 Init.: MC
Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2B130106

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received February 13, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on March 22, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-021202-314012-JK-001	A2B130106-001	MEL02-01700

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: *11-Mar-02*

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-01700
Date Logged In: 2/14/02
Sample Type: Water
Project #:

Your Sample ID: A2B130106-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 2/14/2002 **PO#:** SR036496

- COLLECTION INFORMATION -

Date/Time/By: 2/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	2/18/02	2/21/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-01700	508	Decachlorobiphenyl (Surr)	10 %R *	70	130
		Low surrogate recovery.			
MEL02-01700	508	Tetrachloro-m-xylene (Surr)	48 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

Lab Number MEL02-01700

Your Sample ID: A2B130106-1

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION
Lab Request SR036496

Report Package: Expanded Deliverables
Need Analytical Report 2002-02-27

Laboratory: Aqua Tech Environmental Labs
PO BOX 436

MARION, OH 43301-0436

Client Code: 57787

Project Manager: AMY MCCORMICK 330-966-9787

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A2B130106-1	ET2H7	GW-021202-314012-JK-001	2002-02-12	508 Drinking water PCB

01700 (AB)

Need detection limit and analysis date included in report.

Shipping Method: COURIER

Please send a signed ~~copy of this form with~~ the report at completion of analysis.

Relinquished by: _____ Date/Time: 2-13-02 0930

Relinquished by: _____ Date/Time: _____

Received for lab by: S. Kosh Date/Time: 2-14-02 11:00

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): A.T.E.L. (IN CARE OF S.T.L. NORTH CANTON)

PAGE 1/1
COOLER: H158

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 013968

PROJECT NAME: GMPT BEDFORD

SAMPLER'S SIGNATURE: Jeff Kolodziejski PRINTED NAME: JEFF KOLODZIEJSKI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: PCB's	REMARKS
	2/12/02	1150	~~GW-16-021202-JK-001-2/12/02~~ GW-021202-314012-JK-001	WATER	2	X	

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
APR 23 2002
CRA SDG 21

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C130107

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

April 20, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C130107
Name: Bedford
Description
Event:
Samples: 4 W (3/12 - 1-2 + D)
Analysis: PCB
T: 2 wk
L: STL/ATEL
Check
T: 4/26/02
Da
In
C

CASE NARRATIVE

A2C130107

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The samples were received March 13, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 3, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-031202-206012-JK-001	A2C130107-001	MEL02-02847
GW-031202-206012-JK-001DISS	A2C130107-002	MEL02-02848
GW-031202-206012-JK-002	A2C130107-003	MEL02-02849
GW-031202-206012-JK-002DISS	A2C130107-004	MEL02-02850

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: 22-Mar-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-02847
Date Logged In: 3/14/02
Sample Type: Water
Project #:

Your Sample ID: A2C130107-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

Low Surrogate recovery,ok by client to report per Sue S. 03-22-02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016 UJ	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232 UJ	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242 UJ	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248 UJ	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254 UJ	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260 UJ	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02847	508	Decachlorobiphenyl (Surr)	24 %R *	70	130
		Low surrogate recovery.			
MEL02-02847	508	Tetrachloro-m-xylene (Surr)	63 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 22-Mar-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02848
Date Logged In: 3/14/02
Sample Type: Water
Project #:

Your Sample ID: A2C130107-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02848	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-02848	508	Tetrachloro-m-xylene (Surr)	90 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: 22-Mar-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-02849
Date Logged In: 3/14/02
Sample Type: Water
Project #:

Your Sample ID: A2C130107-3
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

Low Surrogate recovery,ok by client to report per Sue S. 03-22-02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016 UJ	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221 R	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232 UJ	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242 UJ	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248 UJ	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254 UJ	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260 UJ	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02849	508	Decachlorobiphenyl (Surr)	24 %R *	70	130
		Low surrogate recovery.			
MEL02-02849	508	Tetrachloro-m-xylene (Surr)	57 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *22-Mar-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-02850 **Your Sample ID:** A2C130107-4
Date Logged In: 3/14/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 3/13/2002 **PO#:** SR037079

- COLLECTION INFORMATION -

Date/Time/By: 3/12/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/15/02	3/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-02850	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-02850	508	Tetrachloro-m-xylene (Surr)	95 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL - North Canton

COOLER: K 31
PAGE: 1 OF 1

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: Jeff Kolodziejski PRINTED NAME: JEFF KOLODZIEJSKI

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW-465B DISSOLVED	PARAMETERS: TOTAL	REMARKS
	3/12/02	1130	GW-031202-206012-JK-001	WATER	8	X	X	MS/MSD
	↓	1200	JK-002	↓	4	X	X	
								* Ref. July 2001 QAPP
								* TAT = 2 wks Final Report
								* CRA Contact - Paul Sosinski
			TOTAL NUMBER OF CONTAINERS		12			

RELINQUISHED BY: ① Jeff Kolodziejski	DATE: 3/12/02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: KOLODZIEJSKI

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 3-13-02 TIME: 7.45

08411

1001 (COMS)—OCT 24 96—REV.0—(CHF—01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
APR 23 2002
CRA SDG 19

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C220121

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C220121
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event:
Samples: 2-W (3/21 - T+D
Analysis: PCB

Amy L. McCormick
Project Manager

TAT: 20K
Lab: STL
Checked against Preliminary Data:
Date: 4/22/02 Init.: W
Date of Revision Memo:
Invoice Approval Date:
Comments:

April 20, 2002

CASE NARRATIVE

A2C220121

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The samples were received March 22, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 11, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032102-413-JW-001	A2C220121-001	MEL02-03426
GW-032102-413-JW-001DISS	A2C220121-002	MEL02-03427
GW-032102-413-JW-002	A2C220121-003	MEL02-03428
GW-032102-413-JW-002DISS	A2C220121-004	MEL02-03429

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: 04-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03426
Date Logged In: 3/26/02
Sample Type: Water
Project #:

Your Sample ID: A2C220121-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03426	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03426	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 04-Apr-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-03427

Date Logged In: 3/26/02

Sample Type: Water

Project #:

Your Sample ID: A2C220121-2

Sample Source: SDWA/WTP's

Client Project #:

Date Submitted to Lab: 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03427	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-03427	508	Tetrachloro-m-xylene (Surr)	99 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *04-Apr-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-03428 **Your Sample ID:** A2C220121-3

Date Logged In: 3/26/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03428	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-03428	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *04-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03429 **Your Sample ID:** A2C220121-4
Date Logged In: 3/26/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 3/26/2002 **PO#:** SR037335

- COLLECTION INFORMATION -

Date/Time/By: 3/21/2002

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	3/27/2002	4/1/2002

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03429	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		Low surrogate recovery.			
MEL02-03429	508	Tetrachloro-m-xylene (Surr)	94 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wadè T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

1 of 1
K226

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-North Canton

REFERENCE NUMBER: 133968

PROJECT NAME: GW-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DW RCRA (8)	TOTAL	DISSOLVED	REMARKS
1	3-21-02	1120	GW-032102-413-JW-001	H_2O	8	X	X		
2	3-21-02	1122	GW-032102-413-JW-002	H_2O	4	X	X		

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
APR - 3 2002
CRA SPG 20

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2C220148

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C220148
Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event:
Samples: 1-GW (3/21-003)
Analysis: PCB-T+D

Amy L McCormick
Amy L. McCormick
Project Manager

TAT: 2wk
KMB
Lab: STL
Checked Against Preliminary Data:
Date: NA Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

April 2, 2002

SAMPLE SUMMARY

A2C220148

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EWR0C	001	GW-032102-413-JW-003	03/21/02	11:24
EWR0F	002	GW-032102-413-JW-003DISS	03/21/02	11:24

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA

CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): STL- NORTH CANTON

COOLER: ICE

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: John S. Weinberger PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
1	03/21/02	11:24	GW-032102-413-JW-003	WATER	4	X	X	DW-PCBs (508)

JSW 03/21/02

TOTAL NUMBER OF CONTAINERS: 4

RELINQUISHED BY: ① John S. Weinberger	DATE: 3/21/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: WEINBERGER, MEOLI

RECEIVED FOR LABORATORY BY:

DATE: 3-22-02 TIME: 0800

07403

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003

GC Semivolatiles

Lot-Sample #...: A2C220148-001 Work Order #...: EWR0C1AA Matrix.....: WG
Date Sampled...: 03/21/02 11:24 Date Received..: 03/22/02
Prep Date.....: 03/22/02 Analysis Date..: 03/24/02
Prep Batch #...: 2081138
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	42	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-032102-413-JW-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2C220148-002 Work Order #...: EWR0F1AA Matrix.....: WG
Date Sampled...: 03/21/02 11:24 Date Received..: 03/22/02
Prep Date.....: 03/22/02 Analysis Date..: 03/25/02
Prep Batch #...: 2081139
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND R	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND R	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND R	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND R	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND R	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND R	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND R	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	8.9 *	(45 - 120)
Decachlorobiphenyl	64	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

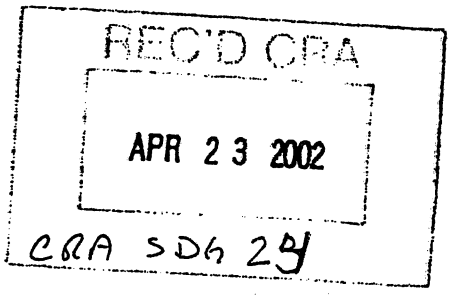
Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2C290102



Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2C290102
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event: GW
Samples: 2-W (2/16) 1
Analysis: PCB - T - D

Amy L McCormick
Amy L. McCormick
Project Manager

TAT: 2 wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/24/02 Init.: [illegible]
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

April 20, 2002

CASE NARRATIVE

A2C290102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received March 29, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-032802-216012-GS-001	A2C290102-001	MEL02-03664
GW-032802-216012-GS-001DISS	A2C290102-002	MEL02-03665

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 12-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03664
Your Sample ID: A2C290102-1
Date Logged In: 4/3/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 4/2/2002 **PO#:** SR037485

- COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/3/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03664	508	Decachlorobiphenyl (Surr)	60 %R *	70	130
		Low surrogate recovery.			
MEL02-03664	508	Tetrachloro-m-xylene (Surr)	30 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 12-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03665
Date Logged In: 4/3/02
Sample Type: Water
Project #:

Your Sample ID: A2C290102-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/2/2002 **PO#:** SR037485

- COLLECTION INFORMATION -

Date/Time/By: 3/28/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/3/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03665	508	Decachlorobiphenyl (Surr)	41 %R *	70	130
		Low surrogate recovery.			
MEL02-03665	508	Tetrachloro-m-xylene (Surr)	31 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - NORTH CANTON; NORTH CANTON, OHIO — Cooler # K93

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: George Seng — PRINTED NAME: George Seng

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
1	03/28/02	11:59	GW-032802-216012-GS-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS					

RELINQUISHED BY: ① George Seng	DATE: 3/28/02 TIME: 17:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER — AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden Rod –Sampler Copy

SAMPLE TEAM: SENG; WEINBERGER

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 3/29/02 TIME: 7:40 AM

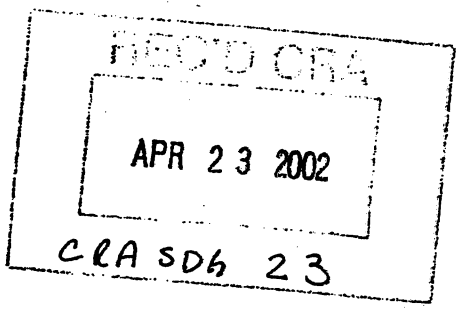
07449

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D030108

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D030108
Name: Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event:
Samples: 2 - (4½ - 60 T&D)
Analysis: PCB

Amy L McCormick
Amy L. McCormick
Project Manager

TAT: 2 wk
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/23/02 Init.: mm

April 20, 2002

Date of Validation Memo:
Invoice Approval Date:
Comments:

CASE NARRATIVE

A2D030108

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 3, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 16, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040202-305012-JW-001	A2D030108-001	MEL02-03767
GW-040202-305012-JW-001DISS	A2D030108-001	MEL02-03768

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 15-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03767
Date Logged In: 4/4/02
Sample Type: Water
Project #:

Your Sample ID: A2D030108-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/4/2002 **PO#:** SR037548

- COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/5/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03767	508	Decachlorobiphenyl (Surr)	68 %R *	70	130
		Low surrogate recovery.			
MEL02-03767	508	Tetrachloro-m-xylene (Surr)	46 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: *15-Apr-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-03768
Date Logged In: 4/4/02
Sample Type: Water
Project #:

Your Sample ID: A2D030108-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/4/2002 **PO#:** SR037548

- COLLECTION INFORMATION -

Date/Time/By: 4/2/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/5/02	4/9/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03768	508	Decachlorobiphenyl (Surr)	83 %R	70	130
MEL02-03768	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER # CRA 60
PAGE: 1 OF 1

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
1	04/02/02	14:11	GW-040202-305012-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/02/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golde –Sampler Copy

SAMPLE TEAM: SENG, WINKLER; WEINBERGER

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 4/3/02 TIME: 7AM

07454

1001 - ORIG)-OCT 24 '96-REV.0-(CWF-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D050102

CRA SDG 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D050102
Name: Bedford
Description
Event:
Samples: 2-W (4/4 - 1 TRIP)
Analysis: PCB
TAT: 2 WK
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/24/02 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

April 20, 2002

CASE NARRATIVE

A2D050102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn: Amy McCormick

Report Date: *18-Apr-02*

Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Our Lab#: MEL02-03946
Date Logged In: 4/8/02
Sample Type: Water
Project #:

Your Sample ID: A2D050102-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/8/2002
PO#: SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result		Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	UJ	0.1
11141-16-5	Aroclor 1232	1.7 ug/l	J	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr)	38 %R *	70	130
		Low surrogate recovery.			
MEL02-03946	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *18-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn: Amy McCormick

Our Lab#: MEL02-03947 **Your Sample ID:** A2D050102-2
Date Logged In: 4/8/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/8/2002 **PO#:** SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery.			
MEL02-03947	508	Tetrachloro-m-xylene (Surr)	35 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

COOLER: NA
FREE! 1 OF 1

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	04/01/02	11:58	GW-040402-472-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/04/02 TIME: 18:30	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: SENG, KOLODZIEJSKI
WEINBERGER

RECEIVED FOR LABORATORY BY: Kmil Sanders
DATE: 04/5/02 TIME: 7:40

458

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D050102

CRA SDG 28

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D050102
Name: Bedford
Description
Event:
Samples: 2-W (4/4 - 1 TRIP)
Analysis: PCB
TAT: 21DLC
Lab: STL / ATEL
Checked Against Preliminary Data:
Date: 4/24/02 Init.: hw
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

April 20, 2002

CASE NARRATIVE

A2D050102

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT Bedford Site, project number 13968. The sample was received April 5, 2002, according to documented sample acceptance procedures.

Analysis for Polychlorinated Biphenyls was performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 19, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040402-472-JW-001	A2D050102-001	MEL02-03946
GW-040402-472-JW-001DISS	A2D050102-002	MEL02-03947

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: 10467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn: Amy McCormick

Report Date: *18-Apr-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-03946

Your Sample ID: A2D050102-1

Date Logged In: 4/8/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 4/8/2002 **PO#:** SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	1.7 ug/l J	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03946	508	Decachlorobiphenyl (Surr)	38 %R *	70	130
		Low surrogate recovery.			
MEL02-03946	508	Tetrachloro-m-xylene (Surr)	33 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn: Amy McCormick

Report Date: 18-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-03947
Your Sample ID: A2D050102-2
Date Logged In: 4/8/02
Sample Source: SDWA/WTP's
Sample Type: Water
Client Project #:
Project #:
Date Submitted to Lab: 4/8/2002
PO#: SR037656

- COLLECTION INFORMATION -

Date/Time/By: 4/4/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/9/02	4/15/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-03947	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery.			
MEL02-03947	508	Tetrachloro-m-xylene (Surr)	35 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER: NA
PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	04/04/02	11:58	GW-040402-472-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/04/02 TIME: 18:30	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden —Sampler Copy

SAMPLE TEAM: SENG, KOLODZIEJSKI
WEINBERGER

RECEIVED FOR LABORATORY BY: Anil Sailus
DATE: 4/5/02 TIME: 7:40

07458

1001 (RUS)-OCT 24/96-REV.0-(C)(F-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
MAY 29 2002
CRA SDG 29

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D100105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D100105
Name: GM-BEDFORD

Description
Event: OFFSITE GW (DW) ANALYSIS
Samples: 2 WATERS (JW 001, 002)
Analysis: PCBs;

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC / ATEL.
Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D100105

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 10, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-040902-414-JW-001	A2D100105-001	MEL02-04316
GW-040902-414-JW-001DISS	A2D100105-002	MEL02-04317
GW-040902-414-JW-002	A2D100105-003	MEL02-04318
GW-040902-414-JW-002DISS	A2D100105-004	MEL02-04319

Amy McCormick

Amy McCormick
Project Manager

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON; NORTH CANTON, OHIO

PAGE 1 OF 1
~~Cooler K310~~ Cooler F09

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT- BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger

PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	04/09/02	10:10	GW-040902-414-JW-001	WATER	4	X	X	
	04/09/02	10:15	GW-040902-414-JW-002	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		8			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/09/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golde[illegible]d —Sampler Copy

SAMPLE TEAM: SENG, MEOLI
WEINBERGER

RECEIVED FOR LABORATORY BY: Doug Burns
DATE: 4/10/02 TIME: 6AM

07475

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *29-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04316 **Your Sample ID:** A2D100105-1
Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04316	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			
MEL02-04316	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *29-Apr-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-04317 **Your Sample ID:** A2D100105-2

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04317	508	Decachlorobiphenyl (Surr)	63 %R *	70	130
		Low surrogate recovery.			
MEL02-04317	508	Tetrachloro-m-xylene (Surr)	88 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *29-Apr-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-04318 **Your Sample ID:** A2D100105-3

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04318	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04318	508	Tetrachloro-m-xylene (Surr)	80 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *29-Apr-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-04319 **Your Sample ID:** A2D100105-4

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037832

- COLLECTION INFORMATION -

Date/Time/By: 4/9/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04319	508	Decachlorobiphenyl (Surr)	72 %R	70	130
MEL02-04319	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130

Low surrogate recovery.

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
MAY 29 2002
CRA SDG 25.

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D110111

Paul Wiseman

Conestoga Rovers & Assoc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D110111
Name: GM-BEDFORD

Description
Event: OFFSITE GW (DW) ANALYSIS
Samples: 3 WATERS (LH 001 JW 001, 002)
Analysis: PCBs;

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC / ATEL.

Checked Against Preliminary Data:
Amy L. McCormick Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

SEVERN TRENT LABORATORIES,

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D110111

The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received April 11, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on April 30, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041002-115012-LM-001	A2D110111-001	MEL02-04311
GW-041002-115012-LM-001DISS	A2D110111-002	MEL02-04312
GW-041002-115012-JW-002	A2D110111-003	MEL02-04313
GW-041002-115012-JW-002DISS	A2D110111-004	MEL02-04314
GW-041002-115012-JW-001	A2D110111-005	MEL02-04315

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *29-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04311 **Your Sample ID:** A2D110111-1 D+S
Date Logged In: 4/15/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04311	508	Decachlorobiphenyl (Surr)	28 %R *	70	130
		Low surrogate recovery.			
MEL02-04311	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *29-Apr-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04312 **Your Sample ID:** A2D110111-2 D+S
Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04312	508	Decachlorobiphenyl (Surr)	67 %R *	70	130
		Low surrogate recovery.			
MEL02-04312	508	Tetrachloro-m-xylene (Surr)	82 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *29-Apr-02*

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720 **Phone:** (330) 497-9396 **Ext:**

Attn: **FAX:** (330) 497-0772

Our Lab#: MEL02-04313 **Your Sample ID:** A2D110111-3

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04313	508	Decachlorobiphenyl (Surr)	32 %R *	70	130
		Low surrogate recovery.			
MEL02-04313	508	Tetrachloro-m-xylene (Surr)	64 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04314
Date Logged In: 4/16/02
Sample Type: Water
Project #:

Your Sample ID: A2D110111-4
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04314	508	Decachlorobiphenyl (Surr)	26 %R *	70	130
		Low surrogate recovery.			
MEL02-04314	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 29-Apr-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-04315 **Your Sample ID:** A2D110111-5

Date Logged In: 4/16/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/12/2002 **PO#:** SR037834

- COLLECTION INFORMATION -

Date/Time/By: 4/10/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/15/02	4/18/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04315	508	Decachlorobiphenyl (Surr)	55 %R *	70	130
		Low surrogate recovery.			
MEL02-04315	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): ATEL c/o STL - NORTH CANTON

1 of 1
K165

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
1	04/10/02	14:30	GW-041002-115012-LM-001	WATER	8	X	X	MS/MSD
2	04/10/02	14:50	GW-041002-115012-JW-002	WATER	4	X	X	
3	04/10/02	17:00	EB-041002-115012-JW-001	WATER	2		X	
			TOTAL NUMBER OF CONTAINERS		14			

RELINQUISHED BY: ① John L. Weinberger	DATE: 04/10/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: SENG, MEOLI
WEINBERGER

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 4/11/02 TIME: 6:40 Am

07482

1001(FORMS)-OCT 24/96-REV.0-(C)(F-011)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
MAY 29 2002
CRA SDG-26

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2D160105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D160105
Name: GM BEDFORD

Description
Event: OFFSITE GW(DW) ANALYSIS
Samples: 1 WATER (JW-001)
Analysis: PCBs; T+D

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC - ATEL
Checked Against Preliminary Data:
Date: 5/30/02 Init.: JM
Date of Validation Memo:
Invoice Approval Date:
Comments:

SEVERN TRENT LABORATORIES, INC

Amy L. McCormick
Project Manager

May 28, 2002

CASE NARRATIVE

A2D160105

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Bedford Site, project number 13968. The sample was received April 16, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on May 8, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-041502-403014-JW-001	A2D160105-001	MEL02-04628
GW-041502-403014-JW-001DISS	A2D160105-002	MEL02-04629

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *03-May-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720 **Phone:** (330) 497-9396 **Ext:**

Attn: **FAX:** (330) 497-0772

Our Lab#: MEL02-04628 **Your Sample ID:** A2D160105-1
Date Logged In: 4/19/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/18/2002 **PO#:** SR037915

- COLLECTION INFORMATION -

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/19/02	4/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04628	508	Decachlorobiphenyl (Surr)	22 %R *	70	130
		Low surrogate recovery.			
MEL02-04628	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *03-May-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04629 **Your Sample ID:** A2D160105-2
Date Logged In: 4/19/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 4/18/2002 **PO#:** SR037915

- COLLECTION INFORMATION -

Date/Time/By: 4/15/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/19/02	4/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04629	508	Decachlorobiphenyl (Surr)	18 %R *	70	130
		Low surrogate recovery.			
MEL02-04629	508	Tetrachloro-m-xylene (Surr)	26 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): KTEL C/O STL-N. Canton
Cooler: STL Buffalo

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: Lisa Meoli PRINTED NAME: Lisa Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOT. PCB'S	PARAMETERS: DISS. PCB	REMARKS
1	4-15-02	1410	GW-041502-463014-JW-001	WATER	4	2	2	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① Lisa Meoli	DATE: 4-15-02 TIME: 1441	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: Meoli; Weinberger; Seng

RECEIVED FOR LABORATORY BY: Hall STL Terry Burns
DATE: 4/16/02 TIME: 7Am
07765

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
MAY - 7 2002
CRA SD621

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2D180105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2D180105
Name: Bedford

Description
Event:
Samples: 2-W (4/17-01+02)
Analysis: PCB-T+D
TAT: 2wk
Lab: STL/ATEL

Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

May 6, 2002

SAMPLE SUMMARY
A2D180105

WO#	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EX3N5	001	GW-041702-1277025-LM-001	04/17/02	12:05
EX3PC	002	GW-041702-1277025-LM-001DISS	04/17/02	12:05
EX3PE	003	GW-041702-1277025-LM-002	04/17/02	15:05
EX3PG	004	GW-041702-1277025-LM-002DISS	04/17/02	15:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Report Date: 02-May-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04769 **Your Sample ID:** A2D180105-001

Date Logged In: 4/24/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U J	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U J	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U J	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U J	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U J	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U J	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U J	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04769	508	Decachlorobiphenyl (Surr)	30 %R *	70	130
		Low surrogate recovery.			
MEL02-04769	508	Tetrachloro-m-xylene (Surr)	45 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Report Date: 02-May-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04770
Date Logged In: 4/24/02
Sample Type: Water
Project #:

Your Sample ID: A2D180105-002
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04770	508	Decachlorobiphenyl (Surr)	33 %R *	70	130
		Low surrogate recovery.			
MEL02-04770	508	Tetrachloro-m-xylene (Surr)	47 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *02-May-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-04771
Date Logged In: 4/24/02
Sample Type: Water
Project #:

Your Sample ID: A2D180105-003
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04771	508	Decachlorobiphenyl (Surr)	43 %R *	70	130
		Low surrogate recovery.			
MEL02-04771	508	Tetrachloro-m-xylene (Surr)	60 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong
Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Report Date: 02-May-02

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-04772
Date Logged In: 4/24/02
Sample Type: Water
Project #:

Your Sample ID: A2D180105-004
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 4/23/2002 **PO#:** SR037982

- COLLECTION INFORMATION -

Date/Time/By: 4/17/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	4/23/02	4/26/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-04772	508	Decachlorobiphenyl (Surr)	45 %R *	70	130
		Low surrogate recovery.			
MEL02-04772	508	Tetrachloro-m-xylene (Surr)	70 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): ATEL C/O STL N. CANTON
Cooler: ELAB TN

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - Bedford

SAMPLER'S SIGNATURE: Lisa C. Meoli PRINTED NAME: LISA C. Meoli

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOT. REQ. / DISS. REQ.	REMARKS
1	4-17-02	1205	GW-041702-1277025-LM-001	H2O	4	X X	
2	4-17-02	1505	GW-041702-1277025-LM-002	H2O	4	X X	
			TOTAL NUMBER OF CONTAINERS		8		

RELINQUISHED BY: ① Lisa C. Meoli	DATE: 4-17-02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White =Fully Executed Copy
Yellow =Receiving Laboratory Copy
Pink =Shipper Copy
Goldenrod =Sampler Copy

SAMPLE TEAM: G. Seng, L. Meoli

RECEIVED FOR LABORATORY BY:
DATE: 4-18-02 TIME: 0740

07412

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUN 11 2002
CRA SDG 30

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E080109

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L McCormick

Amy L. McCormick
Project Manager

June 6, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E080109
Name: GM Bedford
Description
Event: Stream-DW
Samples: 2-W (S/T-001)
Analysis: PCB-T+D
TAT: 3wk 2wk
Lab: STL
Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

SAMPLE SUMMARY

A2E080109

WO#	LOT #	CLIENT SAMPLE ID	DATE	TIME
E03NT	A2E080109-001	G-050702-206012-JW-001	05/08/02	13:44
E03NW	A2E080109-002	G-050702-206012-JW-001DISS	05/08/02	13:44

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *31-May-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-05794 **Your Sample ID:** A2E080109-1

Date Logged In: 5/14/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 5/10/2002 **PO#:** SR038489

- COLLECTION INFORMATION -

Date/Time/By: 5/7/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	5/15/02	5/27/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05794	508	Decachlorobiphenyl (Surr)	53 %R *	70	130
		Low surrogate recovery.			
MEL02-05794	508	Tetrachloro-m-xylene (Surr)	70 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *31-May-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-05795 **Your Sample ID:** A2E080109-2

Date Logged In: 5/14/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 5/10/2002 **PO#:** SR038489

- COLLECTION INFORMATION -

Date/Time/By: 5/7/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	5/15/02	5/27/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05795	508	Decachlorobiphenyl (Surr)	52 %R *	70	130
		Low surrogate recovery.			
MEL02-05795	508	Tetrachloro-m-xylene (Surr)	88 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER: 0214

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John S. Weinberger PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	05/07/02	13:44	GW-050702-ZO6012-JW-001	WATER	4	X	X	
			BOTTLES FOR DISSOLVED ANALYSIS					
			HAVE NOT BEEN FILTERED. PLEASE					
			FILTER PRIOR TO ANALYSIS					
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John S. Weinberger	DATE: 05/07/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: SENG, MEOLI
WEINBERGER

RECEIVED FOR LABORATORY BY: [signature]
DATE: 5-8-02 TIME: 7:45

07894

1CO1(FORMS)-OCT 24/96-REV.0-(C)(F-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUN 11 2002
CRA SD6 31

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2E090107

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E090107
Name: GM Bedford
Description
Event: Stream DW
Samples: 2 - W (S/B - 001)
Analysis: PCB - T - D
TAT: 2 wk
Lab: STL
Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

Amy L McCormick

Amy L. McCormick
Project Manager

June 6, 2002

SAMPLE SUMMARY

A2E090107

WO#	LOT #	CLIENT SAMPLE ID	DATE	TIME
E05MC	A2E090107-001	G-050802-514013-JW-001	05/09/02	11:21
E05ME	A2E090107-002	G-050802-514013-JW-001DISS	05/09/02	11:21

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 — **Report Date:** *03-Jun-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05852 — **Your Sample ID:** A2E090107-1
Date Logged In: 5/15/02 — **Sample Source:** SDWA/WTP's
Sample Type: Water — **Client Project #:**
Project #: — **Date Submitted to Lab:** 5/14/2002 — **PO#:** SR038516

- COLLECTION INFORMATION -

Date/Time/By: 5/8/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	5/15/02	5/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	0.74 ug/l J	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05852	508	Decachlorobiphenyl (Surr)	59 %R *	70	130
		Low surrogate recovery.			
MEL02-05852	508	Tetrachloro-m-xylene (Surr)	50 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 03-Jun-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-05853 **Your Sample ID:** A2E090107-2
Date Logged In: 5/15/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 5/14/2002 **PO#:** SR038516

- COLLECTION INFORMATION -

Date/Time/By: 5/8/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	5/15/02	5/22/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-05853	508	Decachlorobiphenyl (Surr)	79 %R	70	130
MEL02-05853	508	Tetrachloro-m-xylene (Surr)	74 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL C/O STL-N. Canton

Page 1 of 1
Cooler: 5659

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GM-Bedford

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTALS PCBs	PARAMETERS: DIS. PCBs	REMARKS
1	5/8/02	1121	GW-050802-514013-JW-001	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS					

RELINQUISHED BY: ① John L. Weinberger	DATE: 5/8/02 TIME: 1400	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: L. Meoli - E. Vivian
J. Weinberger - G. Seng
R. Aylsworth

RECEIVED FOR LABORATORY BY: Terry Burns
DATE: 5/9/02 TIME: 7 44 am
07896

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
MAY 31 2002
CRA SDG 32.

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E080107

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E080107
Name: GM BEDFORD
Description
Event: GROUNDWATER (DW) ANALYSIS
Samples: 1 WATER (JW-002)
Analysis: PCBs, (Dissolved, Total)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC
Checked Against Preliminary Data:
Date: 6/10/02 Init.:
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

May 27, 2002

CRA

CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): STL-NORTH CANTON; NORTH CANTON, OHIO

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT- BEDFORD

SAMPLER'S SIGNATURE: John S. Weinberger PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: DISSOLVED PCBs	PARAMETERS: TOTAL PCBs	REMARKS
	05/07/02	13:44	GW-050702-206012-JW-002	WATER	4	X	X	
			BOTTLES FOR DISSOLVED ANALYSIS HAVE					
			NOT BEEN FILTERED. PLEASE FILTER					
			PRIOR TO ANALYSIS!!!					
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John S. Weinberger	DATE: 05/07/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White =Fully Executed Copy
Yellow =Receiving Laboratory Copy
Pink =Shipper Copy
Goldenrod =Sampler Copy

SAMPLE TEAM: SENG, MEOLI
WEINBERGER

RECEIVED FOR LABORATORY BY: Anne SANDERS
DATE: 5/8/02 TIME: 7:45

07893

FORMS\COC\COC-OCT 24 '96-REV.0-(C)(F-01)

SAMPLE SUMMARY

A2E080107

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E03NK	001	GW-050702-206012-JW-002	05/07/02	13:44
E03NL	002	GW-050702-206012-JW-002(DISS)	05/07/02	13:44

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-050702-206012-JW-002

GC Semivolatiles

Lot-Sample #...:	A2E080107-001	Work Order #...:	E03NK2AA	Matrix.....:	WG
Date Sampled...:	05/07/02 13:44	Date Received..:	05/08/02		
Prep Date.....:	05/14/02	Analysis Date..:	05/17/02		
Prep Batch #...:	2134098				
Dilution Factor:	100	Initial Wgt/Vol:	1000 mL	Final Wgt/Vol..:	2 mL
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	20	ug/L	5.4
Aroclor 1221	ND	20	ug/L	11
Aroclor 1232	ND	40	ug/L	5.6
Aroclor 1242	ND	20	ug/L	7.5
Aroclor 1248	ND	20	ug/L	6.1
Aroclor 1254	ND	20	ug/L	8.2
Aroclor 1260	ND	20	ug/L	4.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	106	(45 - 120)
Decachlorobiphenyl	53	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-050702-206012-JW-002(DISS)

Dissolved GC Semivolatiles

Lot-Sample #...: A2E080107-002 Work Order #...: E03NL2AA Matrix.....: WG
Date Sampled...: 05/07/02 13:44 Date Received..: 05/08/02
Prep Date.....: 05/14/02 Analysis Date..: 05/17/02
Prep Batch #...: 2134101
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(45 - 120)
Decachlorobiphenyl	87	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 17 2002
CRA SDG # 33

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310105

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E310105
Name: GMPT BEDFORD

Description

SEVERN TRENT LABORATORIES, INC. Event: GW(DW) ANALYSIS
Samples: GW (JW-001;)
Analysis: PCBs; (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.

Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: 7/25/02 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

July 15, 2002

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON

COOLER: J 966.

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John S. Weinberger

PRINTED NAME: JOHN S. WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
	05/30/02	10:15	EB-053002-715013-JW-001	WATER	2	X	X	
	05/30/02	10:30	GW-053002-715013-JW-001	WATER	8	X	X	MS/MSD
			TOTAL NUMBER OF CONTAINERS		10			

RELINQUISHED BY: ① John S. Weinberger	DATE: 05/30/02 TIME: 17:45	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: MEOLI, SENG
WEINBERGER

RECEIVED FOR LABORATORY BY: Chris SANDERS
DATE: 5/31/02 TIME: 8110

07956

1001(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CASE NARRATIVE

A2E310105

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received May 31, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
EB-053002-715013-JW-001	A2E310105-001	MEL02-06650
GW-053002-715013-JW-001	A2E310105-002	MEL02-06651
GW-053002-715013-JW-001 DISS	A2E310105-003	MEL02-06652

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Attn:

Report Date: *14-Jun-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-06651
Date Logged In: 6/5/02
Sample Type: Water
Project #:

Your Sample ID: A2E310105-2DS
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 6/4/2002 **PO#:** SR039050

- COLLECTION INFORMATION -

Date/Time/By: 5/30/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06651	508	Decachlorobiphenyl (Surr)	39 %R *	70	130
		Matrix effect confirmed by low surrogate for MS and MSD.			
MEL02-06651	508	Tetrachloro-m-xylene (Surr)	50 %R *	70	130
		Matrix effect confirmed by low surrogate for MS and MSD.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *14-Jun-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06652 **Your Sample ID:** A2E310105-3DS

Date Logged In: 6/5/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/4/2002 **PO#:** SR039050

- COLLECTION INFORMATION -

Date/Time/By: 5/30/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06652	508	Decachlorobiphenyl (Surr)	51 %R *	70	130
		* Low surrogate recovery.			
MEL02-06652	508	Tetrachloro-m-xylene (Surr)	72 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

REC'D CRA
JUN 25 2002
CRA SDH 34

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310109

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E310109
Name: GMPT-Bedford
Description
Event: Stream
Samples: 2-W (5/30-02 T+D)
Analysis: PCB

Amy L McCormick 7/2/02
Amy L. McCormick
Project Manager

Lab: STL
Checked Against Preliminary Data:
Date: 7/2/02 Init.: ABe
Date of Validation Memo:
Invoice Approval Date:
Comments:

June 19, 2002

SAMPLE SUMMARY

A2E310109

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E18VD	001	GW-053002-715013-JW-002	05/30/02	10:30
E18VK	002	GW-053002-715013-JW-002 DISS	05/30/02	10:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL-NORTH CANTON

COOLER: 01-013

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger

PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
	05/30/02	10:30	GW-053002-715013-JW-002	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY: ① John L. Weinberger	DATE: 05/30/02 TIME: 17:45	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER

AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: MEOLI, GENE
WEINBERGER

RECEIVED FOR LABORATORY BY: Anne Sandusky
DATE: 5/31/02 TIME: 8:10

07957

1CC1(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-053002-715013-JW-002

GC Semivolatiles

Lot-Sample #...:	A2E310109-001	Work Order #...:	E18VD2AA	Matrix.....:	WG
Date Sampled...:	05/30/02 10:30	Date Received..:	05/31/02		
Prep Date.....:	06/05/02	Analysis Date..:	06/07/02		
Prep Batch #...:	2156123				
Dilution Factor:	1	Initial Wgt/Vol:	1000 mL	Final Wgt/Vol..:	2 mL
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND U5	0.20	ug/L	0.054
Aroclor 1221	ND U5	0.20	ug/L	0.11
Aroclor 1232	ND U5	0.40	ug/L	0.056
Aroclor 1242	ND U5	0.20	ug/L	0.075
Aroclor 1248	ND U5	0.20	ug/L	0.061
Aroclor 1254	ND U5	0.20	ug/L	0.082
Aroclor 1260	ND U5	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	15 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-053002-715013-JW-002 DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2E310109-002 Work Order #...: E18VK1AA Matrix.....: WG
Date Sampled...: 05/30/02 10:30 Date Received..: 05/31/02
Prep Date.....: 06/03/02 Analysis Date..: 06/04/02
Prep Batch #...: 2154162
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(45 - 120)
Decachlorobiphenyl	79	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 17
CRA SDG #35.

PROJECT NO. 13968

GM-BEDFORD

Lot #: A2F010103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F010103
Name: GMPT BEDFORD

Description
Event: GW (DW) INVESTIGATION
Samples: 2 GW (JW 001, 002)
Analysis: PCBs, (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.

SEVERN TRENT LABORATORIES, INC

Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: 7/25/02 Init.: MBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

July 15, 2002

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL c/o STL-NORTH CANTON — COOLER: 1645

REFERENCE NUMBER: 13968

PROJECT NAME: GM-BEDFORD

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
	05/31/02	10:00	EB-053102-327012-JW-001	WATER	2		X	
	↓	10:20	GW-053102-327012-JW-001	WATER	4	X	X	
	↓	10:40	GW-053102-327012-JW-002	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		10			

RELINQUISHED BY: ① John L. Weinberger	DATE: / TIME:	RECEIVED BY: ②	DATE: / TIME:
RELINQUISHED BY: ②	DATE: / TIME:	RECEIVED BY: ③	DATE: / TIME:
RELINQUISHED BY: ③	DATE: / TIME:	RECEIVED BY: ④	DATE: / TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: SENG, WEINBERGER

RECEIVED FOR LABORATORY BY: Anne Sandusky
DATE: 6/1/02 TIME: 7:05

07963

CASE NARRATIVE

A2F010103

The following report contains the analytical results for three water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 1, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 25, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
EB-053102-327012-JW-001	A2F010103-001	MEL02-06645
GW-053102-327012-JW-001	A2F010103-002	MEL02-06646
GW-053102-327012-JW-001 DISS	A2F010103-003	MEL02-06647
GW-053102-327012-JW-002	A2F010103-004	MEL02-06648
GW-053102-327012-JW-002 DISS	A2F010103-005	MEL02-06649

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr.NW

N Canton, OH 44720

Attn:

Report Date: *14-Jun-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06646 **Your Sample ID:** A2F010103-2

Date Logged In: 6/5/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/4/2002 **PO#:** SR039075

- COLLECTION INFORMATION -

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06646	508	Decachlorobiphenyl (Surr)	44 %R *	70	130
		Low surrogate recovery.			
MEL02-06646	508	Tetrachloro-m-xylene (Surr)	57 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *14-Jun-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06647 **Your Sample ID:** A2F010103-3

Date Logged In: 6/5/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/4/2002 **PO#:** SR039075

- COLLECTION INFORMATION -

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06647	508	Decachlorobiphenyl (Surr)	71 %R	70	130
MEL02-06647	508	Tetrachloro-m-xylene (Surr)	65 %R *	70	130

Low surrogate recovery.

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: *14-Jun-02*

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-06648
Date Logged In: 6/5/02
Sample Type: Water
Project #:

Your Sample ID: A2F010103-4
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 6/4/2002 **PO#:** SR039075

- COLLECTION INFORMATION -

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06648	508	Decachlorobiphenyl (Surr)	50 %R *	70	130
		Low surrogate recovery.			
MEL02-06648	508	Tetrachloro-m-xylene (Surr)	69 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** *14-Jun-02*

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06649 **Your Sample ID:** A2F010103-5
Date Logged In: 6/5/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 6/4/2002 **PO#:** SR039075

- COLLECTION INFORMATION -

Date/Time/By: 5/31/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/5/02	6/7/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06649	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-06649	508	Tetrachloro-m-xylene (Surr)	52 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

REC'D CRA
JUN 25 2002
CRA SDH 34

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E310109

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E310109
Name: GMPT-Bedford
Description
Event: Stream
Samples: 2-W (5/30-02 T*D)
Analysis: PCB

Amy L McCormick 7/2/02

Amy L. McCormick
Project Manager

Lab: STL
Checked Against Preliminary Data:
Date: 7/2/02 Init.: LBC
Date of Validation Memo:
Invoice Approval Date:
Comments:

June 19, 2002

SAMPLE SUMMARY

A2E310109

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E18VD	001	GW-053002-715013-JW-002	05/30/02	10:30
E18VK	002	GW-053002-715013-JW-002 DISS	05/30/02	10:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL-NORTH CANTON

COOLER: 013

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
	05/30/02	10:30	GW-053002-715013-JW-002	WATER	4	X	X	

TOTAL NUMBER OF CONTAINERS: 4

RELINQUISHED BY: ① [signature]	DATE: 05/30/02 TIME: 17:45	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: MEOLI, GENE; WEINBERGER

RECEIVED FOR LABORATORY BY: [signature]
DATE: 5/31/02 TIME: 8:10

07957

ICC FORM 1-OCT 24 96-REV.0-1CHF-011

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002

GC Semivolatiles

Lot-Sample #...: A2E310109-001 Work Order #...: E18VD2AA Matrix.....: WG
Date Sampled...: 05/30/02 10:30 Date Received..: 05/31/02
Prep Date.....: 06/05/02 Analysis Date..: 06/07/02
Prep Batch #...: 2156123
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	ND UJ	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	15 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053002-715013-JW-002 DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2E310109-002 Work Order #...: E18VK1AA Matrix.....: WG
Date Sampled...: 05/30/02 10:30 Date Received..: 05/31/02
Prep Date.....: 06/03/02 Analysis Date..: 06/04/02
Prep Batch #...: 2154162
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

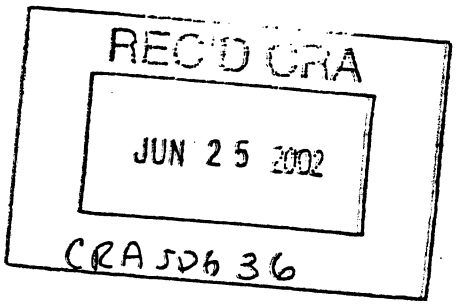
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(45 - 120)
Decachlorobiphenyl	79	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT



PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F010102

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F010102
Name: GM Bedford
Description
Event: Stream
Samples: 2-W (5/31-003)
Analysis: PCB-T-D
TAT: 5WS
Lab: KML
Checked Against Preliminary Data:
Date: 7/9/02 Init.: [illegible]
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

Amy L. McCormick
Amy L. McCormick
Project Manager

June 20, 2002

SAMPLE SUMMARY

A2F010102

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2AR7	001	053102-327012-003	05/31/02	11:00
E2AR8	002	053102-327012-003 DISS	05/31/02	11:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): COOLER: 322
ASTL - NORTH CANTON, NORTH CANTON, OHIO

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: John Weinberger PRINTED NAME: JOHN WEINBERGER

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISSOLVED PCBs	REMARKS
	05/31/02	11:00	GW-053102-327012-JW-003	WATER	4	X	X	
			TOTAL NUMBER OF CONTAINERS		4			

RELINQUISHED BY ① John L. Weinberger	DATE: 05/31/02 TIME: 17:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: SEN, WEINBERGER

RECEIVED FOR LABORATORY BY: Anne SANDERS
DATE: 5/6/02 TIME: 7:05

07964

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053102-327012-JW-003

GC Semivolatiles

Lot-Sample #...: A2F010102-001 Work Order #...: E2AR72AA Matrix.....: WG
Date Sampled...: 05/31/02 11:00 Date Received..: 06/01/02
Prep Date.....: 06/05/02 Analysis Date..: 06/07/02
Prep Batch #...: 2156123
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	ND UJ	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	69	(45 - 120)
Decachlorobiphenyl	19 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-053102-327012-JW-003 DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F010102-002 Work Order #...: E2AR81AA Matrix.....: WG
Date Sampled...: 05/31/02 11:00 Date Received..: 06/01/02
Prep Date.....: 06/03/02 Analysis Date..: 06/04/02
Prep Batch #...: 2154162
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	68	(45 - 120)
Decachlorobiphenyl	81	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUN 25 2002
CRA SOH 37

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F060115

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F060115
Name: Bedford
Description
Event: Stream
Samples: 2-(4/5-001-003)
Analysis: PCB-I-D
TAT: B 2WK
Lab: STL
Checked Against Preliminary Data:
Date: 7/1/02 Init.: L
Date of Validation Memo:
Invoice Approval Date:
Comments:

SEVERN TRENT LABORATORIES, INC.

Amy L McCormick

Amy L. McCormick
Project Manager

June 21, 2002

SAMPLE SUMMARY

A2F060115

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2JHK	001	GW-060502-421-JW-001	06/05/02	11:2
E2JHN	002	GW-060502-421-JW-001DISS	06/05/02	11:2
E2JHP	003	GW-060502-619013-LM-003	06/05/02	15:3
E2JHQ	004	GW-060502-619013-LM-003DISS	06/05/02	15:3

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): STL - North Canton Cooler LCM

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: J. Weinberger PRINTED NAME: John Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: Total PCBs	PARAMETERS: Diss. PCBs	REMARKS
1	6/5/02	11:26	GW-060502-421-JW-001	H2O	4	X	X	
2	6/5/02	15:30	GW-060502-619013-LM-003	H2O	4	X	X	

TOTAL NUMBER OF CONTAINERS: 8

RELINQUISHED BY: ① Lisa Cimeli	DATE: 6/5/02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: J. Weinberger G. Seng L. Meseli

RECEIVED FOR LABORATORY BY:

DATE: 6-6-02 TIME: 0740

07970

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-421-JW-001

GC Semivolatiles

Lot-Sample #...:	A2F060115-001	Work Order #...:	E2JHK2AA	Matrix.....:	WG
Date Sampled...:	06/05/02 11:26	Date Received..:	06/06/02		
Prep Date.....:	06/10/02	Analysis Date..:	06/12/02		
Prep Batch #...:	2161407				
Dilution Factor:	1	Initial Wgt/Vol:	1000 mL	Final Wgt/Vol..:	2 mL
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	0.13 J	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	63	(45 - 120)
Decachlorobiphenyl	11 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-421-JW-001DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F060115-002 Work Order #...: E2JHN2AA Matrix.....: WG
Date Sampled...: 06/05/02 11:26 Date Received..: 06/06/02
Prep Date.....: 06/10/02 Analysis Date..: 06/12/02
Prep Batch #...: 2161408
Dilution Factor: 1 Initial Wgt/Vol: 800 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND UJ	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND UJ	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND UJ	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND UJ	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND UJ	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND UJ	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	14 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060502-619013-LM-003

GC Semivolatiles

Lot-Sample #...: A2F060115-003
Date Sampled...: 06/05/02 15:30
Prep Date.....: 06/10/02
Prep Batch #...: 2161407
Dilution Factor: 1

Work Order #...: E2JHP2AA
Date Received..: 06/06/02
Analysis Date..: 06/12/02

Initial Wgt/Vol: 1000 mL
Method.....: SW846 8082

Matrix.....: WG

Final Wgt/Vol..: 2 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	0.16 J	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(45 - 120)
Decachlorobiphenyl	39	(24 - 128)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060502-619013-LM-003DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F060115-004 Work Order #...: E2JHQ2AA Matrix.....: WG
Date Sampled...: 06/05/02 15:30 Date Received..: 06/06/02
Prep Date.....: 06/10/02 Analysis Date..: 06/12/02
Prep Batch #...: 2161408
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	40	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 16 2002
CRA SDG # 38

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F060113

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F060113
Name: GMPT BEDFORD
Description
Event: GW (DW) INVESTIGATION.
Samples: 2 WATERS (JW-002, LM-004)
Analysis: PCBs. (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.
Checked Against Preliminary Data:
Date: 7/26/02 Init.: m
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

July 15, 2002

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): ATEL c/o STL — Cooler 002 0024

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: John Weinberger PRINTED NAME: John Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOTAL PCBs	PARAMETERS: DISS. PCBs	REMARKS
1	6/5/02	11:28	GW-060502-421-JW-002	H2O	4	X	X	
2	6/5/02	15:35	GW-060502-619@13-LM-004	H_2O	4	X	X	

TOTAL NUMBER OF CONTAINERS: 4 4 8

RELINQUISHED BY: ① Jessica Neal	DATE: 6/5/02 TIME: 1600	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden –Sampler Copy

SAMPLE TEAM: John Weinberger
LISA Medi, George Seng

RECEIVED FOR LABORATORY BY:
DATE: 6-6-02 TIME: 0740

07969

1001(PCMS)–OCT. 24/96–REV.0–(C)(F–01)

CASE NARRATIVE

A2F060113

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 6, 2002, according to documented sample acceptance procedures.

Analyses for Polychlorinated Biphenyls were performed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 26, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060502-421-JW-002	A2F060113-001	MEL02-06982
GW-060502-421-JW-002DISS	A2F060113-002	MEL02-06983
GW-060502-619013-LM-004	A2F060113-003	MEL02-06984
GW-060502-619013-LM-004DISS	A2F060113-004	MEL02-06985

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

REVISED

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 05-Aug-02
Original Report Date: 25-Jun-02
Phone: (330) 497-9396 Ext:
FAX: (330) 497-0772

Our Lab#: MEL02-06982
Date Logged In: 6/11/02
Sample Type: Water
Project #:

Your Sample ID: A2F060113-1
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 6/10/2002
PO#: SR039170

- COLLECTION INFORMATION -

Date/Time/By: 6/5/2002

EPA Method	Analyst	Prep Date	Analysis Date
8	MRW	6/10/2002	6/16/2002

Sample exhibits a non-classical pattern for aroclor-1242 possibly due to weathering. Results should be considered semi-quantitative.

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	0.26 ug/l J	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06982	508	Decachlorobiphenyl (Surr)	43 %R *	70	130
		Low surrogate recovery.			
MEL02-06982	508	Tetrachloro-m-xylene (Surr)	77 %R	70	130

Total number of pages 1

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, withoput the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-307-2650 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467
STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720
Attn:

Report Date: 24-Jun-02

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Our Lab#: MEL02-06983
Date Logged In: 6/11/02
Sample Type: Water
Project #:

Your Sample ID: A2F060113-2
Sample Source: SDWA/WTP's
Client Project #:
Date Submitted to Lab: 6/10/2002 **PO#:** SR039170

- COLLECTION INFORMATION -

Date/Time/By: 6/5/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06983	508	Decachlorobiphenyl (Surr)	66 %R *	70	130
		Low surrogate recovery.			
MEL02-06983	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

REVISED

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 05-Aug-02

Original Report Date: 25-Jun-02

Phone: (330) 497-9396 Ext:

FAX: (330) 497-0772

Our Lab#: MEL02-06984 Your Sample ID: A2F060113-3

Date Logged In: 6/11/02 Sample Source: SDWA/WTP's

Sample Type: Water Client Project #:

Project #: Date Submitted to Lab: 6/10/2002 PO#: SR039170

- COLLECTION INFORMATION -

Date/Time/By: 6/5/2002

EPA Method	Analyst	Prep Date	Analysis Date
[illegible]	MRW	6/10/2002	6/16/2002

CAS Number	Parameter	Result	Typical Report Limit
Sample exhibits a non-classical pattern for aroclor-1242 possibly due to weathering. Results should be considered semi-quantitative.			
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	0.20 ug/l J	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06984	508	Decachlorobiphenyl (Surr)	61 %R *	70	130
		Low surrogate recovery.			
MEL02-06984	508	Tetrachloro-m-xylene (Surr)	76 %R	70	130

Total number of pages 1

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 24-Jun-02

STL North Canton
4101 Shuffel Dr NW
N Canton, OH 44720

Phone: (330) 497-9396 **Ext:**
FAX: (330) 497-0772

Attn:

Our Lab#: MEL02-06985 **Your Sample ID:** A2F060113-4
Date Logged In: 6/11/02 **Sample Source:** SDWA/WTP's
Sample Type: Water **Client Project #:**
Project #: **Date Submitted to Lab:** 6/10/2002 **PO#:** SR039170

- COLLECTION INFORMATION -

Date/Time/By: 6/5/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06985	508	Decachlorobiphenyl (Surr)	53 %R *	70	130
		Low surrogate recovery.			
MEL02-06985	508	Tetrachloro-m-xylene (Surr)	96 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 16 2002
CRA SDG #39

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F070106

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F070106
Name: GMPT BEDFORD

Description
Event: GW (DW) INVESTIGATION
Samples: 2 WATERS (JW-001, EB)
Analysis: PCBs, (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.
Checked Against Preliminary Data:
Date: 7/26/02 Init.: MSC
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

July 15, 2002

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL

COOLER: B179

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT – Bedford

SAMPLER'S SIGNATURE: John L. Weinberger PRINTED NAME: John Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOT. PCBs	PARAMETERS: DISS. PCBs	REMARKS
1	6/6/02	1130	GW-060602-472-JW-001	H2O	4	X	X	
2	6/6/02	1055	EB-060602-472-JW-001	"	2	X	X	

TOTAL NUMBER OF CONTAINERS 6 06/06/02

RELINQUISHED BY: ① John L. Weinberger	DATE: 6/6/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Golden[illegible] –Sampler Copy

SAMPLE TEAM: J. Weinberger G. Seneg L. Meeli

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 6/7/02 TIME: 7:10

08215

1001(F[illegible]S)-OCT 24/96-REV.0-(C)(F-01)

CASE NARRATIVE

A2F070106

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 7, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 26, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060602-472-JW-001	A2F070106-001	MEL02-06979
GW-060602-472-JW-001 DISS	A2F070106-002	MEL02-06980
EB-060602-472-JW-001	A2F070106-003	MEL02-06981

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 24-Jun-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06979 **Your Sample ID:** A2F070106-1

Date Logged In: 6/11/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/10/2002 **PO#:** SR039211

- COLLECTION INFORMATION -

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l U5	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l U5	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l U5	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l U5	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l U5	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l U5	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l U5	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06979	508	Decachlorobiphenyl (Surr)	27 %R *	70	130
		Low surrogate recovery.			
MEL02-06979	508	Tetrachloro-m-xylene (Surr)	24 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 24-Jun-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06980

Date Logged In: 6/11/02

Sample Type: Water

Project #:

Your Sample ID: A2F070106-2

Sample Source: SDWA/WTP's

Client Project #:

Date Submitted to Lab: 6/10/2002 **PO#:** SR039211

- COLLECTION INFORMATION -

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l UJ	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l UJ	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l UJ	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l UJ	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l UJ	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l UJ	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l UJ	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06980	508	Decachlorobiphenyl (Surr)	34 %R *	70	130
		Low surrogate recovery.			
MEL02-06980	508	Tetrachloro-m-xylene (Surr)	32 %R *	70	130
		Low surrogate recovery.			

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 16 2002
CRA SDG # 40

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F070104

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F070104
Name: GMPT BEDFORD
Description
Event: GW (DW) ANALYSIS.
Samples: GW (JW-003)
Analysis: PCBs. (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.
Checked Against Preliminary Data:
Date: 7/26/02 Init.: MSC
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

Amy L. McCormick
Project Manager

July 15, 2002

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): ATEL

COOLER: 125

REFERENCE NUMBER: 13468

PROJECT NAME: GMPT - Bedford

SAMPLER'S SIGNATURE: J. L. Weinberger PRINTED NAME: J. Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL PCBs Diss. PCBs	REMARKS
1	6/6/02	1600	GW-060602-452-JW-003	H2O	4	8X	
			TOTAL NUMBER OF CONTAINERS		4		

RELINQUISHED BY: ① J. L. Weinberger	DATE: 6/6/02 TIME: 1805	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Golden —Sampler Copy

SAMPLE TEAM: J. Weinberger G. Seng L. Rossi

RECEIVED FOR LABORATORY BY: Anne Sanders
DATE: 6/7/02 TIME: 7:00

08213

CASE NARRATIVE

A2F070104

The following report contains the analytical results for one water sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The sample was received June 7, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on June 26, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060602-452-JW-003	A2F070104-001	MEL02-06977
GW-060602-452-JW-003 DISS	A2F070104-002	MEL02-06978

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 24-Jun-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06977 **Your Sample ID:** A2F070104-1

Date Logged In: 6/11/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/10/2002 **PO#:** SR039210

- COLLECTION INFORMATION -

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06977	508	Decachlorobiphenyl (Surr)	62 %R *	70	130
		Low surrogate recovery.			
MEL02-06977	508	Tetrachloro-m-xylene (Surr)	71 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: 24-Jun-02

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-06978

Your Sample ID: A2F070104-2

Date Logged In: 6/11/02

Sample Source: SDWA/WTP's

Sample Type: Water

Client Project #:

Project #:

Date Submitted to Lab: 6/10/2002 **PO#:** SR039210

- COLLECTION INFORMATION -

Date/Time/By: 6/6/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/10/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-06978	508	Decachlorobiphenyl (Surr)	78 %R	70	130
MEL02-06978	508	Tetrachloro-m-xylene (Surr)	85 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

SAMPLE SUMMARY

A2F050101

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2F1A	001	EB-060402-704013-GS-001	06/04/02	10:00
E2F1E	002	GW-060402-704013-GS-001	06/04/02	10:10
E2F1L	003	GW-060402-704013-GS-002	06/04/02	10:20
E2F1P	004	GW-060402-704013-GS-003	06/04/02	16:00
E2F1Q	005	GW-060402-704013-GS-004	06/04/02	16:10
E2F1R	006	TB-060402-704013-GS-001	06/04/02	16:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): STL- NORTH CANTON; NORTH CANTON, OHIO

PAGE 1 of

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - BEDFORD

SAMPLER'S SIGNATURE: George Sengpiehler PRINTED NAME: GEORGE SENG

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PCBs	SVOCs	VOCs	TAL METALS	TNN CYAN: DE	REMARKS
	06/04/02	10:00	EB-060402-704013-GS-001	WATER	2	X					Code 422
		10:10	GW-060402-704013-GS-001	OIL/WATER	2	X					LNAPL " 422
		10:20	GW-060402-704013-GS-002	OIL/WATER	4	X	X				DNAPL " 422
		16:00	GW-060402-704013-GS-003	OIL/WATER	8		X	X	X	X	LNAPL " STL-CTOOL
		16:10	GW-060402-704013-GS-004	OIL/WATER	6			X	X	X	DNAPL " STL-CTOOL
	06/04/02	16:00	TB-060402-704013-GS-001	WATER	2			X			STL-CTOOL

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY ① John L. Ward	DATE: 06/04/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: COURIER AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: SENG, MEELI, WEINBERGER

RECEIVED FOR LABORATORY BY:

DATE: 6-5-02 TIME: 0720

07967

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-001

GC Semivolatiles

Lot-Sample #...: A2F050101-002 Work Order #...: E2F1H1AA Matrix.....: WG
Date Sampled...: 06/04/02 10:10 Date Received..: 06/05/02
Prep Date.....: 06/05/02 Analysis Date..: 06/10/02
Prep Batch #...: 2156123
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 5.5 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.55	ug/L	0.054
Aroclor 1221	ND UJ	0.55	ug/L	0.11
Aroclor 1232	ND UJ	0.55	ug/L	0.056
Aroclor 1242	3.8 J	0.55	ug/L	0.075
Aroclor 1248	ND UJ	0.55	ug/L	0.061
Aroclor 1254	ND UJ	0.55	ug/L	0.082
Aroclor 1260	ND UJ	0.55	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	24 *	(45 - 120)
Decachlorobiphenyl	29	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-002

GC Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L2AC Matrix.....: WG
Date Sampled...: 06/04/02 10:20 Date Received..: 06/05/02
Prep Date.....: 06/11/02 Analysis Date..: 06/13/02
Prep Batch #...: 2162363
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND UJ	0.20	ug/L	0.054
Aroclor 1221	ND UJ	0.20	ug/L	0.11
Aroclor 1232	ND UJ	0.40	ug/L	0.056
Aroclor 1242	0.87 J	0.20	ug/L	0.075
Aroclor 1248	ND UJ	0.20	ug/L	0.061
Aroclor 1254	ND UJ	0.20	ug/L	0.082
Aroclor 1260	ND UJ	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	56	(45 - 120)
Decachlorobiphenyl	21 *	(24 - 128)

NOTE(S):

* Surrogate recovery is outside stated control limits.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L1AA Matrix.....: WG
Date Sampled...: 06/04/02 10:20 Date Received..: 06/05/02
Prep Date.....: 06/05/02 Analysis Date..: 06/11/02
Prep Batch #...: 2156121
Dilution Factor: 25 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	250	ug/L	20
Acenaphthylene	ND	250	ug/L	18
Acetophenone	ND	250	ug/L	65
Anthracene	ND	250	ug/L	17
Atrazine	ND	250	ug/L	62
Benzo(a)anthracene	ND	250	ug/L	18
Benzo(a)pyrene	ND	250	ug/L	18
Benzo(b)fluoranthene	ND	250	ug/L	24
Benzo(ghi)perylene	ND	250	ug/L	21
Benzo(k)fluoranthene	ND	250	ug/L	21
Benzaldehyde	ND	250	ug/L	70
1,1'-Biphenyl	ND	250	ug/L	65
bis(2-Chloroethoxy) methane	ND	250	ug/L	22
bis(2-Chloroethyl)-ether	ND	250	ug/L	24
bis(2-Ethylhexyl) phthalate	ND	250	ug/L	68
4-Bromophenyl phenyl ether	ND	250	ug/L	22
Butyl benzyl phthalate	ND	250	ug/L	22
Caprolactam	ND	250	ug/L	62
Carbazole	ND	250	ug/L	20
4-Chloroaniline	ND	250	ug/L	15
4-Chloro-3-methylphenol	ND	250	ug/L	25
2-Chloronaphthalene	ND	250	ug/L	21
2-Chlorophenol	ND	250	ug/L	25
4-Chlorophenyl phenyl ether	ND	250	ug/L	20
Chrysene	ND	250	ug/L	19
Dibenz(a,h)anthracene	ND	250	ug/L	20
Dibenzofuran	ND	250	ug/L	28
3,3'-Dichlorobenzidine	ND UJ	1200	ug/L	23
2,4-Dichlorophenol	ND	250	ug/L	21
Diethyl phthalate	ND	250	ug/L	16
2,4-Dimethylphenol	ND	250	ug/L	21
Dimethyl phthalate	ND	250	ug/L	19
Di-n-butyl phthalate	ND	250	ug/L	17

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	1200	ug/L	32
2,4-Dinitrophenol	ND	1200	ug/L	75
2,4-Dinitrotoluene	ND	250	ug/L	20
2,6-Dinitrotoluene	ND	250	ug/L	14
Di-n-octyl phthalate	ND	250	ug/L	28
Fluoranthene	ND	250	ug/L	20
Fluorene	ND	250	ug/L	25
Hexachlorobenzene	ND	250	ug/L	18
Hexachlorobutadiene	ND	250	ug/L	18
Hexachlorocyclopenta-diene	ND	1200	ug/L	28
Hexachloroethane	ND	250	ug/L	18
Indeno(1,2,3-cd)pyrene	ND	250	ug/L	16
Isophorone	ND	250	ug/L	16
2-Methylnaphthalene	ND	250	ug/L	16
2-Methylphenol	ND	250	ug/L	28
4-Methylphenol	ND	250	ug/L	32
Naphthalene	ND	250	ug/L	19
2-Nitroaniline	ND	1200	ug/L	18
3-Nitroaniline	ND	1200	ug/L	18
4-Nitroaniline	ND	1200	ug/L	32
Nitrobenzene	ND	250	ug/L	20
2-Nitrophenol	ND	250	ug/L	52
4-Nitrophenol	ND	1200	ug/L	48
N-Nitrosodi-n-propyl-amine	ND	250	ug/L	17
N-Nitrosodiphenylamine	ND	250	ug/L	35
2,2'-oxybis(1-Chloropropane)	ND	250	ug/L	20
Pentachlorophenol	ND	250	ug/L	60
Phenanthrene	23 J	250	ug/L	20
Phenol	ND	250	ug/L	65
Pyrene	ND UJ	250	ug/L	28
2,4,5-Trichloro-phenol	ND	250	ug/L	30
2,4,6-Trichloro-phenol	ND	250	ug/L	42

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44 DIL	(32 - 112)
2-Fluorobiphenyl	47 DIL	(30 - 110)
Terphenyl-d14	61 DIL	(10 - 144)
Phenol-d5	44 DIL	(10 - 113)
2-Fluorophenol	57 DIL	(13 - 110)
2,4,6-Tribromophenol	0.0 DIL,*	(21 - 122)

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-002

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-003 Work Order #...: E2F1L1AA Matrix.....: WG

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Volatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AA Matrix.....: WG
Date Sampled...: 06/04/02 16:00 Date Received..: 06/05/02
Prep Date.....: 06/06/02 Analysis Date..: 06/06/02
Prep Batch #...: 2158201
Dilution Factor: 16.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1100	170	ug/L	8.5
Benzene	ND	17	ug/L	2.7
Bromodichloromethane	ND	17	ug/L	2.8
Bromoform	ND	17	ug/L	3.0
Bromomethane	ND	17	ug/L	3.3
2-Butanone	1100	170	ug/L	6.8
Carbon disulfide	ND	17	ug/L	3.3
Carbon tetrachloride	ND UJ	17	ug/L	2.0
Chlorobenzene	ND	17	ug/L	2.3
Chloroethane	ND	17	ug/L	4.3
Chloroform	ND	17	ug/L	2.3
Chloromethane	ND	17	ug/L	2.2
Cyclohexane	ND	17	ug/L	2.2
Dibromochloromethane	ND	17	ug/L	4.3
1,2-Dibromo-3-chloro-propane	ND	33	ug/L	10
1,2-Dibromoethane	ND	17	ug/L	3.7
1,2-Dichlorobenzene	ND	17	ug/L	1.8
1,3-Dichlorobenzene	ND	17	ug/L	2.5
1,4-Dichlorobenzene	ND	17	ug/L	2.8
Dichlorodifluoromethane	ND	17	ug/L	4.3
1,1-Dichloroethane	ND	17	ug/L	2.7
1,2-Dichloroethane	ND	17	ug/L	3.5
1,1-Dichloroethene	ND	17	ug/L	4.0
cis-1,2-Dichloroethene	ND	8.3	ug/L	3.7
trans-1,2-Dichloroethene	ND	8.3	ug/L	2.5
1,2-Dichloropropane	ND	17	ug/L	2.8
cis-1,3-Dichloropropene	ND	17	ug/L	2.0
trans-1,3-Dichloropropene	ND	17	ug/L	4.5
Ethylbenzene	2.6 J	17	ug/L	2.0
2-Hexanone	ND UJ	170	ug/L	7.7
Isopropylbenzene	ND	17	ug/L	2.0
Methyl acetate	ND	170	ug/L	6.8
Methylene chloride	ND	17	ug/L	5.7
Methylcyclohexane	ND	17	ug/L	2.5
4-Methyl-2-pentanone	ND	170	ug/L	3.8
Methyl tert-butyl ether	ND	83	ug/L	2.2
Styrene	ND	17	ug/L	2.5

(Continued on next page)

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Volatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	17	ug/L	4.2
Tetrachloroethene	ND	17	ug/L	3.8
Toluene	ND	17	ug/L	3.0
1,2,4-Trichloro-benzene	ND	17	ug/L	2.8
1,1,1-Trichloroethane	ND	17	ug/L	2.5
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	ND	17	ug/L	2.3
Trichlorofluoromethane	ND	17	ug/L	4.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	17	ug/L	5.3
Vinyl chloride	ND	17	ug/L	2.5
Xylenes (total)	17	17	ug/L	5.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AC Matrix.....: WG
Date Sampled...: 06/04/02 16:00 Date Received..: 06/05/02
Prep Date.....: 06/05/02 Analysis Date..: 06/11/02
Prep Batch #...: 2156121
Dilution Factor: 50 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	500	ug/L	40
Acenaphthylene	ND	500	ug/L	36
Acetophenone	ND	500	ug/L	130
Anthracene	ND	500	ug/L	34
Atrazine	ND	500	ug/L	120
Benzo(a)anthracene	ND	500	ug/L	35
Benzo(a)pyrene	ND	500	ug/L	36
Benzo(b)fluoranthene	ND	500	ug/L	47
Benzo(ghi)perylene	ND	500	ug/L	42
Benzo(k)fluoranthene	ND	500	ug/L	42
Benzaldehyde	ND	500	ug/L	140
1,1'-Biphenyl	ND	500	ug/L	130
bis(2-Chloroethoxy) methane	ND	500	ug/L	44
bis(2-Chloroethyl)-ether	ND	500	ug/L	48
bis(2-Ethylhexyl) phthalate	ND	500	ug/L	140
4-Bromophenyl phenyl ether	ND	500	ug/L	44
Butyl benzyl phthalate	ND	500	ug/L	44
Caprolactam	ND	500	ug/L	120
Carbazole	ND	500	ug/L	41
4-Chloroaniline	ND	500	ug/L	30
4-Chloro-3-methylphenol	ND	500	ug/L	50
2-Chloronaphthalene	ND	500	ug/L	42
2-Chlorophenol	ND	500	ug/L	50
4-Chlorophenyl phenyl ether	ND	500	ug/L	40
Chrysene	ND	500	ug/L	38
Dibenz(a,h)anthracene	ND	500	ug/L	40
Dibenzofuran	ND	500	ug/L	55
3,3'-Dichlorobenzidine	ND UJ	2500	ug/L	46
2,4-Dichlorophenol	ND	500	ug/L	42
Diethyl phthalate	ND	500	ug/L	32
2,4-Dimethylphenol	ND	500	ug/L	42
Dimethyl phthalate	ND	500	ug/L	38
Di-n-butyl phthalate	ND	500	ug/L	34

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2500	ug/L	65
2,4-Dinitrophenol	ND	2500	ug/L	150
2,4-Dinitrotoluene	ND	500	ug/L	40
2,6-Dinitrotoluene	ND	500	ug/L	28
Di-n-octyl phthalate	ND	500	ug/L	55
Fluoranthene	ND	500	ug/L	40
Fluorene	ND	500	ug/L	50
Hexachlorobenzene	ND	500	ug/L	37
Hexachlorobutadiene	ND	500	ug/L	36
Hexachlorocyclopentadiene	ND	2500	ug/L	55
Hexachloroethane	ND	500	ug/L	37
Indeno(1,2,3-cd)pyrene	ND	500	ug/L	32
Isophorone	ND	500	ug/L	32
2-Methylnaphthalene	ND	500	ug/L	32
2-Methylphenol	ND	500	ug/L	55
4-Methylphenol	ND	500	ug/L	65
Naphthalene	ND	500	ug/L	38
2-Nitroaniline	ND	2500	ug/L	35
3-Nitroaniline	ND	2500	ug/L	36
4-Nitroaniline	ND	2500	ug/L	65
Nitrobenzene	ND	500	ug/L	40
2-Nitrophenol	ND	500	ug/L	100
4-Nitrophenol	ND	2500	ug/L	95
N-Nitrosodi-n-propylamine	ND	500	ug/L	34
N-Nitrosodiphenylamine	ND	500	ug/L	70
2,2'-oxybis(1-Chloropropane)	ND	500	ug/L	39
Pentachlorophenol	ND	500	ug/L	120
Phenanthrene	83 J	500	ug/L	41
Phenol	ND	500	ug/L	130
Pyrene	ND UJ	500	ug/L	55
2,4,5-Trichlorophenol	ND	500	ug/L	60
2,4,6-Trichlorophenol	ND	500	ug/L	85

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	0.0 DIL,*	(32 - 112)
2-Fluorobiphenyl	0.0 DIL,*	(30 - 110)
Terphenyl-d14	76 DIL	(10 - 144)
Phenol-d5	0.0 DIL,*	(10 - 113)
2-Fluorophenol	0.0 DIL,*	(13 - 110)
2,4,6-Tribromophenol	0.0 DIL,*	(21 - 122)

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

GC/MS Semivolatiles

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P1AC Matrix.....: WG

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

TOTAL Metals

Matrix.....: WG

Lot-Sample #...: A2F050101-004
Date Sampled...: 06/04/02 16:00 Date Received..: 06/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2157111						
Thallium	ND	0.0010	mg/L	SW846 6020	06/06-06/10/02	E2F1P1A1
		Dilution Factor: 1		Analysis Time..: 17:38	Analyst ID.....:	001644
		Instrument ID..: I7		MDL.....: 0.000033		
Aluminum	2.7 J	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AF
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.028		
Arsenic	ND	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AW
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0039		
Lead	0.033	0.0030	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AX
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0025		
Antimony	ND	0.060	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AG
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0022		
Barium	0.078 B J	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AH
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0030		
Selenium	ND	0.0050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AD
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0045		
Beryllium	ND	0.0050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AJ
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.00054		
Cadmium	0.0044 B J	0.0050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AK
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.00028		
Chromium	0.0053 B J	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AL
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0014		

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-003

TOTAL Metals

Lot-Sample #...: A2F050101-004 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	0.0033 BJ	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AM
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0013		
Copper	0.062	0.025	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AN
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0042		
Iron	9.5	0.10	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AP
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.088		
Manganese	0.36	0.015	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AQ
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.00090		
Nickel	0.0050 BJ	0.040	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AR
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0022		
Silver	ND	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AT
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0015		
Vanadium	0.0048 BJ	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AU
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.00082		
Zinc	0.40	0.020	mg/L	SW846 6010B	06/06-06/09/02	E2F1P1AV
		Dilution Factor: 1		Analysis Time..: 10:32	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.012		
Mercury	0.00019 BJ	0.00020	mg/L	SW846 7470A	06/06-06/07/02	E2F1P1A2
		Dilution Factor: 1		Analysis Time..: 10:53	Analyst ID.....: 001086	
		Instrument ID..: H1		MDL.....: 0.000069		

NOTE(S):

B Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-003

General Chemistry

Lot-Sample #...: A2F050101-004 Work Order #...: E2F1P Matrix.....: WG
Date Sampled...: 06/04/02 16:00 Date Received..: 06/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide Amenable to Chlorination	ND	0.010	mg/L	SW846 9012	06/07/02	2158286
	Dilution Factor: 1			MDL.....: 0.010		
Cyanide, Total	0.0061 BJ	0.010	mg/L	SW846 9012A	06/07/02	2158271
	Dilution Factor: 1			MDL.....: 0.0018		

NOTE(S):
RL Reporting Limit
B Estimated result. Result is less than RL.

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

GC/MS Volatiles

Lot-Sample #...: A2F050101-005 Work Order #...: E2F1Q1AA Matrix.....: WG
Date Sampled...: 06/04/02 16:10 Date Received..: 06/05/02
Prep Date.....: 06/06/02 Analysis Date..: 06/06/02
Prep Batch #...: 2158201
Dilution Factor: 16.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol..: 5 mL
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	810	170	ug/L	8.5
Benzene	ND	17	ug/L	2.7
Bromodichloromethane	ND	17	ug/L	2.8
Bromoform	ND	17	ug/L	3.0
Bromomethane	ND	17	ug/L	3.3
2-Butanone	830	170	ug/L	6.8
Carbon disulfide	ND	17	ug/L	3.3
Carbon tetrachloride	ND UJ	17	ug/L	2.0
Chlorobenzene	ND	17	ug/L	2.3
Chloroethane	ND	17	ug/L	4.3
Chloroform	ND	17	ug/L	2.3
Chloromethane	ND	17	ug/L	2.2
Cyclohexane	ND	17	ug/L	2.2
Dibromochloromethane	ND	17	ug/L	4.3
1,2-Dibromo-3-chloropropane	ND	33	ug/L	10
1,2-Dibromoethane	ND	17	ug/L	3.7
1,2-Dichlorobenzene	ND	17	ug/L	1.8
1,3-Dichlorobenzene	ND	17	ug/L	2.5
1,4-Dichlorobenzene	ND	17	ug/L	2.8
Dichlorodifluoromethane	ND	17	ug/L	4.3
1,1-Dichloroethane	ND	17	ug/L	2.7
1,2-Dichloroethane	ND	17	ug/L	3.5
1,1-Dichloroethene	ND	17	ug/L	4.0
cis-1,2-Dichloroethene	ND	8.3	ug/L	3.7
trans-1,2-Dichloroethene	ND	8.3	ug/L	2.5
1,2-Dichloropropane	ND	17	ug/L	2.8
cis-1,3-Dichloropropene	ND	17	ug/L	2.0
trans-1,3-Dichloropropene	ND	17	ug/L	4.5
Ethylbenzene	ND	17	ug/L	2.0
2-Hexanone	ND UJ	170	ug/L	7.7
Isopropylbenzene	ND	17	ug/L	2.0
Methyl acetate	ND	170	ug/L	6.8
Methylene chloride	ND	17	ug/L	5.7
Methylcyclohexane	ND	17	ug/L	2.5
4-Methyl-2-pentanone	ND	170	ug/L	3.8
Methyl tert-butyl ether	ND	83	ug/L	2.2
Styrene	ND	17	ug/L	2.5

(Continued on next page)

COASTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

GC/MS Volatiles

Lot-Sample #...: A2F050101-005 Work Order #...: E2F1Q1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	17	ug/L	4.2
Tetrachloroethene	ND	17	ug/L	3.8
Toluene	ND	17	ug/L	3.0
1,2,4-Trichloro-benzene	ND	17	ug/L	2.8
1,1,1-Trichloroethane	ND	17	ug/L	2.5
1,1,2-Trichloroethane	ND	17	ug/L	5.0
Trichloroethene	ND	17	ug/L	2.3
Trichlorofluoromethane	ND	17	ug/L	4.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	17	ug/L	5.3
Vinyl chloride	ND	17	ug/L	2.5
Xylenes (total)	ND	17	ug/L	5.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-004

TOTAL Metals

Lot-Sample #...: A2F050101-005 Matrix.....: WG
Date Sampled...: 06/04/02 16:10 Date Received..: 06/05/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2157111						
Thallium	0.0052	0.0010	mg/L	SW846 6020	06/06-06/10/02	E2F1Q1A0
		Dilution Factor: 1		Analysis Time..: 17:51	Analyst ID.....:	001646
		Instrument ID..: I7		MDL.....: 0.000033		
Aluminum	93.0 J	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AE
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.028		
Arsenic	0.14	0.050	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AV
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.020		
Lead	4.5	0.015	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AW
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.012		
Antimony	0.035 ~~B,G~~ J	0.30	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AF
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.011		
Barium	1.1	0.20	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AG
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.0030		
Selenium	ND ~~G~~	0.025	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AX
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.022		
Beryllium	0.0022 ~~B~~ J	0.0050	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AH
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....:	001011
		Instrument ID..: I6		MDL.....: 0.00054		
Cadmium	0.15	0.025	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AJ
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.0014		
Chromium	0.20	0.050	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AK
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....:	001637
		Instrument ID..: I6		MDL.....: 0.0070		

(Continued on next page)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060402-704013-GS-004

TOTAL Metals

Lot-Sample #...: A2F050101-005 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	0.069	0.050	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AL
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0013		
Copper	11.2	0.025	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AM
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0042		
Iron	1230	0.50	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AN
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....: 001637	
		Instrument ID..: I6		MDL.....: 0.44		
Manganese	4.2	0.075	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AP
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....: 001637	
		Instrument ID..: I6		MDL.....: 0.0045		
Nickel	0.20	0.040	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AQ
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0022		
Silver	ND	0.010	mg/L	SW846 6010B	06/06-06/09/02	E2F1Q1AR
		Dilution Factor: 1		Analysis Time..: 10:47	Analyst ID.....: 001011	
		Instrument ID..: I6		MDL.....: 0.0015		
Vanadium	0.19 ~~B,G~~ J	0.25	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AT
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....: 001637	
		Instrument ID..: I6		MDL.....: 0.0041		
Zinc	48.2	0.10	mg/L	SW846 6010B	06/06-06/10/02	E2F1Q1AU
		Dilution Factor: 5		Analysis Time..: 18:12	Analyst ID.....: 001637	
		Instrument ID..: I6		MDL.....: 0.060		
Mercury	0.00077	0.00020	mg/L	SW846 7470A	06/06-06/07/02	E2F1Q1A1
		Dilution Factor: 1		Analysis Time..: 10:57	Analyst ID.....: 001086	
		Instrument ID..: H1		MDL.....: 0.000069		

NOTE(S):

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060402-704013-GS-004

General Chemistry

Lot-Sample #...: A2F050101-005 Work Order #...: E2F1Q Matrix.....: WG
Date Sampled...: 06/04/02 16:10 Date Received..: 06/05/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cyanide Amenable to Chlorination	ND	0.010	mg/L	SW846 9012	06/07/02	2158286
	Dilution Factor: 1			MDL.....: 0.010		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	06/07/02	2158271
	Dilution Factor: 1			MDL.....: 0.0018		

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

RECD CRA
JUN 25 2002
CRA SDG 36

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F010102

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

Amy L. McCormick
Project Manager

June 20, 2002

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F010102
Name: GM Bedford
Description
Event: Stream
Samples: 2-W (5/31-003)
Analysis: PCB-T-D
TAT: 3WK
Lab: SWK
Checked Against Preliminary Data:
Date: 7/9/02 Init.: LM
Date of Validation Memo:
Invoice Approval Date:
Comments:

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUN 25 2002
CRA SDG S-210

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2E300106

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2E300106
Name: GM Bedford

SEVERN TRENT LABORATORIES, INC.

Description
Event: Stream
Samples: 1-SW(5/29-5013)
Analysis: TCL/TAL

TAT: 2 wk
Lab: STL

Amy L McCormick
Amy L. McCormick
Project Manager

Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: _____
Invoice Approval Date: _____
Comments: _____

June 19, 2002

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUN 25
CRA SDG 41

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F070107

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F070107

SEVERN TRENT LABORATORIES, INC. Name: Bedford

Description
Event: Stream
Samples: 3-W; 3-Soil (6/6)
Analysis: PCB
TAT: 2wk
Lab: STL
Checked Against Preliminary Data:
Date: 7/9/02 Init.: m
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick /kmm
Amy L. McCormick
Project Manager

June 22, 2002

SAMPLE SUMMARY

A2F070107

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
E2L4C	001	GW-060602-452-JW-004	06/06/02	16:10
E2L4E	002	GW-060602-452-JW-004DISS	06/06/02	16:10
E2L4F	003	GW-060602-472-JW-002	06/06/02	11:35
E2L4G	004	GW-060602-472-JW-002DISS	06/06/02	11:35
E2L4H	005	SW-060602-JW-001	06/06/02	10:00
E2L4J	006	SW-060602-JW-001DISS	06/06/02	10:00
E2L4K	007	S-060602-JW-1913	06/06/02	10:23
E2L40	008	S-060602-GS-1914	06/06/02	10:25
E2L41	009	S-060602-GS-1914A	06/06/02	10:27
E2L43	010	EB-060602-JW-002	06/06/02	10:30

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL- North Canton

COOLER: 826

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - Bedford

SAMPLER'S SIGNATURE: J. L. Weinberger

PRINTED NAME: J. Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOT. ACBS PCB DISS. PCB	REMARKS
1	6/6/02	1610	GW-060602-452-JW-004	H2O	4	X X	
			TOTAL NUMBER OF CONTAINERS		4		

RELINQUISHED BY: ① J. L. Weinberger	DATE: 6/6/02 TIME: 18:00	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier

AIR BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: C. Mesle
G. Senf J. Weinberger

RECEIVED FOR LABORATORY BY: Anne S Andrews

DATE: 6-7-02 TIME: ~~0715~~ 7:10

08219

1CG1(FORMS)-OCT 24/96-REV.0-(C)(F-01)

CRA
CONESTOGA–ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380–9933

SHIPPED TO (Laboratory Name): STL-North Canton K269

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT-Bedford

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: George L Sg PRINTED NAME: George Seng

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOT 8260	PCBs 8082	REMARKS
1	6/6/02	1135	GW-060602-472-GW-002	H2O	4	X	X	
2		1000	SW-060602-JW-001	H2O	2	X	X	
3		1023	S-060602-DW-1913	SOIL	3	X		
4		1025	S-060602-GS-1914	SOIL	1	X		
5		1027	S-060602-GS-1914A	SOIL	1	X		
6		1030	EB-060602-JW-002	H2O	2	X		
			TOTAL NUMBER OF CONTAINERS		13			

RELINQUISHED BY: ① George L Sg	DATE: 6/6/02 TIME: 1800	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: G. Seng & Meoli
J. Weinberger

RECEIVED FOR LABORATORY BY: Anne SAnders
DATE: 6/7/02 TIME: 7100

08217

1CC1(FORMS)–OCT 24/96–REV.0–(C)(F-01)

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060602-452-JW-004

GC Semivolatiles

Lot-Sample #...: A2F070107-001 Work Order #...: E2L4C1AA Matrix.....: WG
Date Sampled...: 06/06/02 16:10 Date Received..: 06/07/02
Prep Date.....: 06/07/02 Analysis Date..: 06/10/02
Prep Batch #...: 2158188
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol..: 2 mL
Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	57	(45 - 120)
Decachlorobiphenyl	34	(24 - 128)

CONESTOGA ROVERS & ASSOC.,INC.

Client Sample ID: GW-060602-452-JW-004DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F070107-002	Work Order #...: E2L4E1AA	Matrix.....: WG	
Date Sampled...: 06/06/02 16:10	Date Received..: 06/07/02		
Prep Date.....: 06/07/02	Analysis Date..: 06/10/02		
Prep Batch #...: 2158187			
Dilution Factor: 1	Initial Wgt/Vol: 1000 mL	Final Wgt/Vol..: 2 mL	
	Method.....: SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(45 - 120)
Decachlorobiphenyl	61	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-472-JW-002

GC Semivolatiles

Lot-Sample #...:	A2F070107-003	Work Order #...:	E2L4F1AA	Matrix.....:	WG
Date Sampled...:	06/06/02 11:35	Date Received..:	06/07/02		
Prep Date.....:	06/07/02	Analysis Date..:	06/10/02		
Prep Batch #...:	2158188				
Dilution Factor:	1	Initial Wgt/Vol:	1000 mL	Final Wgt/Vol..:	2 mL
		Method.....:	SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.20	ug/L	0.054
Aroclor 1221	ND	0.20	ug/L	0.11
Aroclor 1232	ND	0.40	ug/L	0.056
Aroclor 1242	ND	0.20	ug/L	0.075
Aroclor 1248	ND	0.20	ug/L	0.061
Aroclor 1254	ND	0.20	ug/L	0.082
Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	65	(45 - 120)
Decachlorobiphenyl	34	(24 - 128)

CONESTOGA ROVERS & ASSOC., INC.

Client Sample ID: GW-060602-472-JW-002DISS

Dissolved GC Semivolatiles

Lot-Sample #...: A2F070107-004	Work Order #...: E2L4G1AA	Matrix.....: WG	
Date Sampled...: 06/06/02 11:35	Date Received..: 06/07/02		
Prep Date.....: 06/07/02	Analysis Date..: 06/10/02		
Prep Batch #...: 2158187			
Dilution Factor: 1	Initial Wgt/Vol: 1000 mL	Final Wgt/Vol..: 2 mL	
	Method.....: SW846 8082		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Dissolved Aroclor-1016	ND	0.20	ug/L	0.054
Dissolved Aroclor 1221	ND	0.20	ug/L	0.11
Dissolved Aroclor 1232	ND	0.40	ug/L	0.056
Dissolved Aroclor 1242	ND	0.20	ug/L	0.075
Dissolved Aroclor 1248	ND	0.20	ug/L	0.061
Dissolved Aroclor 1254	ND	0.20	ug/L	0.082
Dissolved Aroclor 1260	ND	0.20	ug/L	0.044

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(45 - 120)
Decachlorobiphenyl	27	(24 - 128)

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

REC'D CRA
JUL 17 [illegible]
CRA SDG #42

PROJECT NO. 13968

GMPT-BEDFORD

Lot #: A2F110103

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

SEVERN TRENT LABORATORIES, INC.

ORIGINAL ANALYTICAL REPORT
Project#: 13968 Lab#: A2F110103
Name: GMPT BEDFORD
Description
Event: GW(DW) ANALYSIS
Samples: GW (JW-001)
Analysis: PCBs; (Total, Dissolved)

TAT: STNDRD TAT (14 DAYS)
Lab: STL-NC.
Checked Against Preliminary Data:
Date: 8/26/02 Init: M
Date of Validation Memo:
Invoice Approval Date:
Comments:

Amy L. McCormick
Project Manager

July 16, 2002

CRA
CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631 (773)380-9933

SHIPPED TO (Laboratory Name): ATEL

Q45838

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: 13968

PROJECT NAME: GMPT - Bedford

SAMPLER'S SIGNATURE: [signature]

PRINTED NAME: J. Weinberger

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOT. Pb's DIS. Pb's	REMARKS
1	6/7/02	1037	GW-060702-1250-JW-001	H2O	4	XX	

TOTAL NUMBER OF CONTAINERS: 4

RELINQUISHED BY: ① [signature]	DATE: 6/7/02 TIME: 1430	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: Courier

AIR BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: J. Weinberger
L. Meoli G. Seng

RECEIVED FOR LABORATORY BY: [signature]

DATE: 6-8-02 TIME: 0700

08195

1001(F S)-OCT 24/96-REV.0-(C)(F-01)

CASE NARRATIVE

A2F110103

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GMPT-Bedford Site, project number 13968. The samples were received June 8, 2002, according to documented sample acceptance procedures.

Polychlorinated Biphenyls were analyzed at Aqua Tech Environmental Laboratories, Inc. A copy of their report has been provided.

Preliminary results were provided to the Chemistry Department on July 15, 2002.

Sample ID Cross Reference

CRA	STL	Aqua Tech
GW-060702-1250-JW-001	A2F110103-001	MEL02-07030
GW-060702-1250-JW-001 DISS	A2F110103-002	MEL02-07031

Amy McCormick

Amy McCormick
Project Manager

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720

Attn:

Report Date: *27-Jun-02*

Phone: (330) 497-9396 **Ext:**

FAX: (330) 497-0772

Our Lab#: MEL02-07030 **Your Sample ID:** A2F110103-1

Date Logged In: 6/13/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/11/2002 **PO#:** SR039260

- COLLECTION INFORMATION -

Date/Time/By: 6/7/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/13/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	< 0.08 ug/l	0.08
11104-28-2	Aroclor 1221	< 0.10 ug/l	0.1
11141-16-5	Aroclor 1232	< 0.10 ug/l	0.1
53469-21-9	Aroclor 1242	< 0.10 ug/l	0.1
12672-29-6	Aroclor 1248	< 0.10 ug/l	0.1
11097-69-1	Aroclor 1254	< 0.10 ug/l	0.1
11096-82-5	Aroclor 1260	< 0.10 ug/l	0.1

--- Surrogate Recoveries ---

QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-07030	508	Decachlorobiphenyl (Surr)	69 %R *	70	130
		Low surrogate recovery.			
MEL02-07030	508	Tetrachloro-m-xylene (Surr)	103 %R	70	130

End of Report

Report Approved By: Wade T. DeLong

Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229

ATEL

Aqua Tech Environmental Laboratories, Inc.

- CERTIFICATE OF ANALYSIS -

Client #: I0467 **Report Date:** 27-Jun-02

STL North Canton

4101 Shuffel Dr NW

N Canton, OH 44720 **Phone:** (330) 497-9396 **Ext:**

Attn: **FAX:** (330) 497-0772

Our Lab#: MEL02-07031 **Your Sample ID:** A2F110103-2

Date Logged In: 6/13/02 **Sample Source:** SDWA/WTP's

Sample Type: Water **Client Project #:**

Project #: **Date Submitted to Lab:** 6/11/2002 **PO#:** SR039260

- COLLECTION INFORMATION -

Date/Time/By: 6/7/02

EPA Method	Analyst	Prep Date	Analysis Date
508	MRW	6/13/02	6/16/02

CAS Number	Parameter	Result	Typical Report Limit
12674-11-2	Aroclor 1016	<0.08 ug/l	0.08
11104-28-2	Aroclor 1221	<0.10 ug/l	0.1
11141-16-5	Aroclor 1232	<0.10 ug/l	0.1
53469-21-9	Aroclor 1242	<0.10 ug/l	0.1
12672-29-6	Aroclor 1248	<0.10 ug/l	0.1
11097-69-1	Aroclor 1254	<0.10 ug/l	0.1
11096-82-5	Aroclor 1260	<0.10 ug/l	0.1

--- Surrogate Recoveries ---

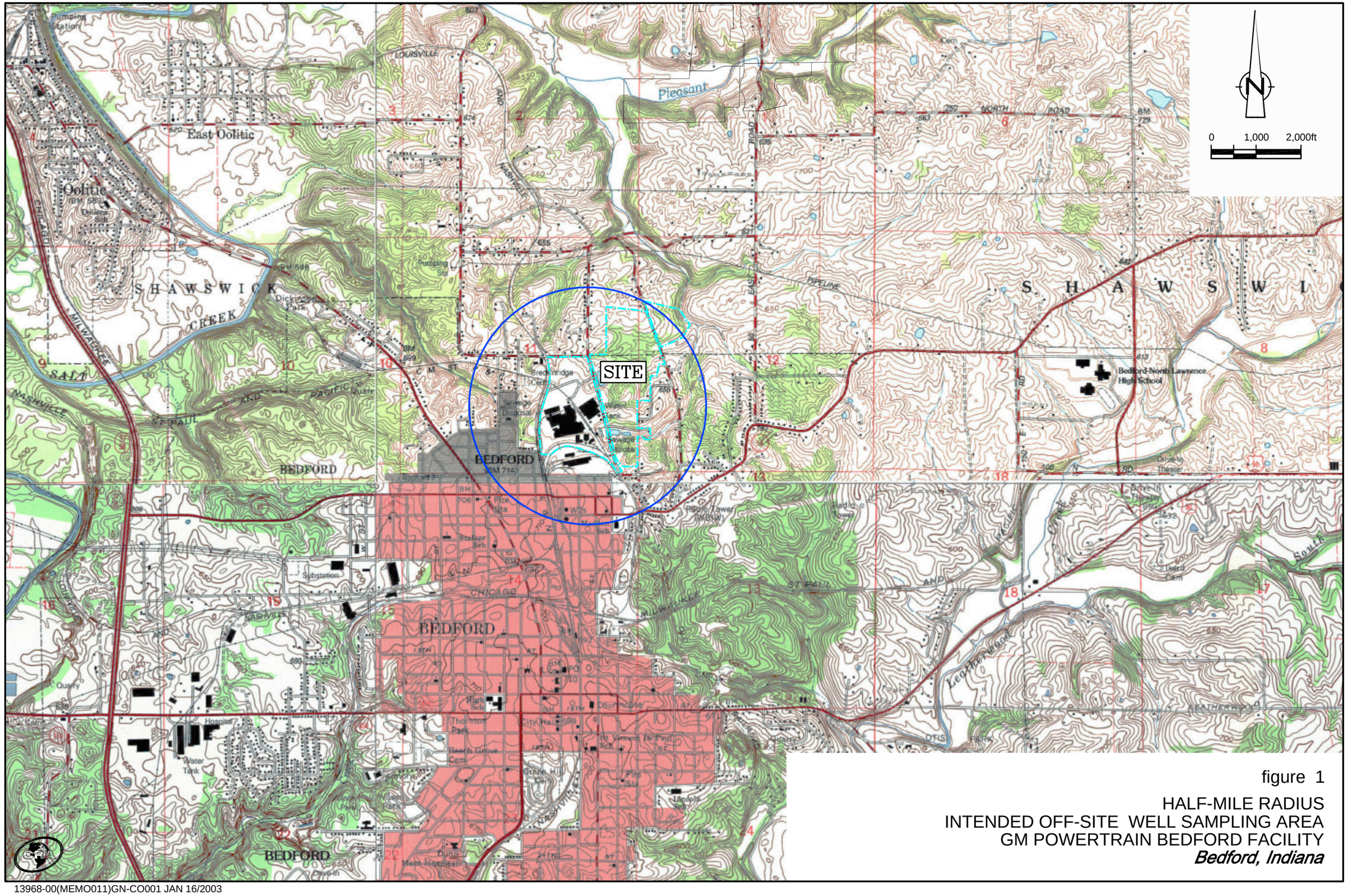
QC Lab#	EPA Method	Surrogate Name	Percent Recovery	Lower Limit	Upper Limit
MEL02-07031	508	Decachlorobiphenyl (Surr)	64 %R *	70	130
		Low surrogate recovery.			
MEL02-07031	508	Tetrachloro-m-xylene (Surr)	89 %R	70	130

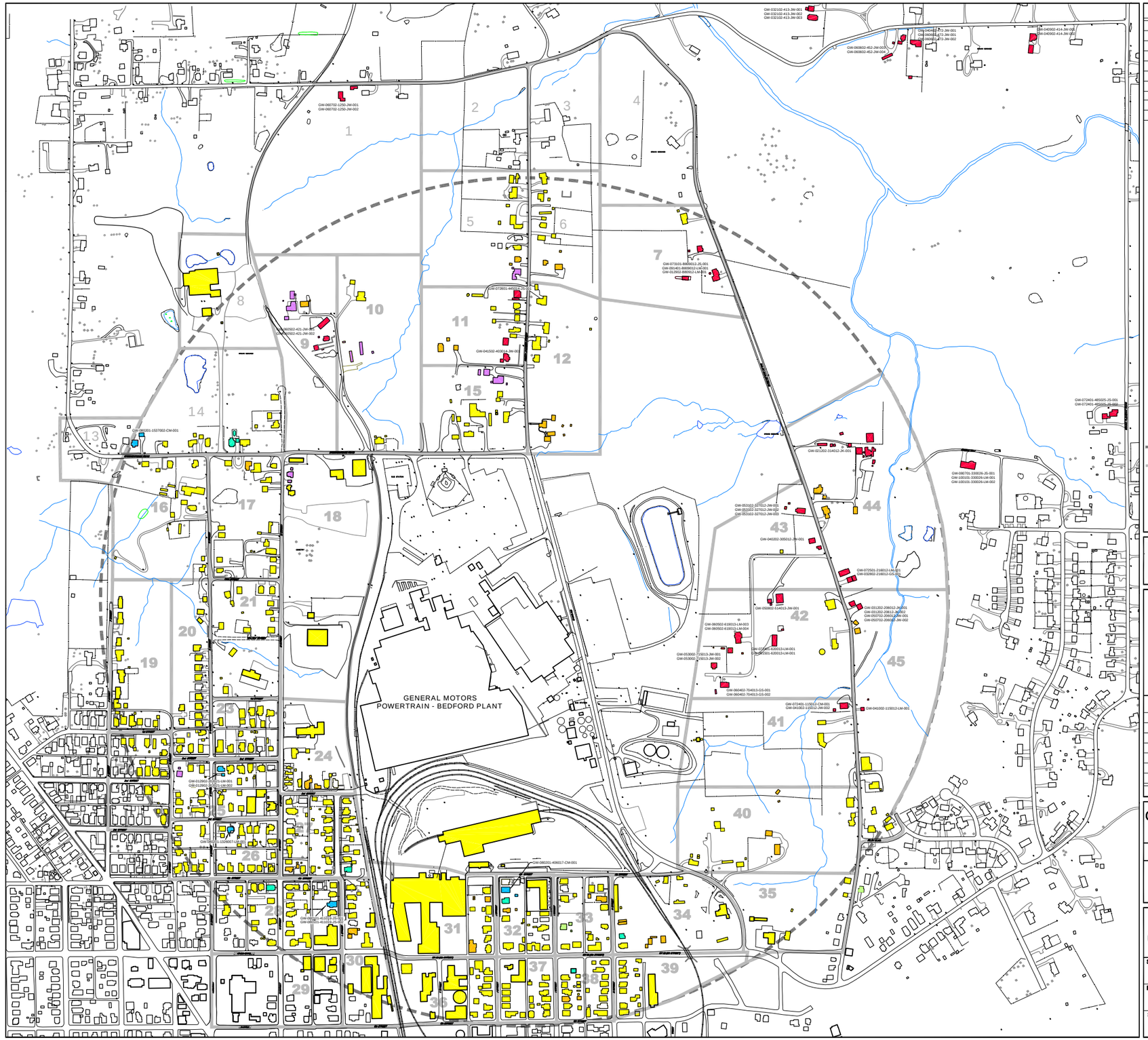
End of Report

Report Approved By: Wade T. DeLong

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory. The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The results relate only to the individual samples tested. Certifications: AZ0117, OH4054, NC39701.

6878 S. STATE ROUTE 100 • P.O. BOX 76 • MELMORE, OH 44845-9999
PHONE 419-397-2659 • 1-800-858-8869 • FAX 419-397-2229


SITE
0
1,000
2,000ft
N
BEDFORD
East Oolitic
Oolitic
SHAWSWICK
CREEK
Pleasant
LOUISVILLE
NASHVILLE
CHICAGO
MILWAUKEE
AND
ST PAUL
PACIFIC
Bedford-North Lawrence High School
Drive-In Theater
Leatherwood
Water Tank
Sewage Disposal
Substation
Hospital
Courthouse
City Hall
Thornton Park
Beech Grove Cem
Dixon Mem Hospital
Radio Tower
Quarry
Dump
Pumping Station
Dickinson Park
Fire Sta
Stalker Sch
Lincoln Sch
Tikerd Cem
Breadnridge Sch
Dwellings
Trailer Park
Dairy
Fairgrounds
Golf Course
Cem
Church
Tank
Pipeline
Radio Tower (WBIW)
Drive-In Theater
Fire Sta
Lincoln Sch
Dixon Mem Hospital
Beech Grove Cem
Thornton Park
City Hall
Courthouse
Hospital
Substation
Water Tank
Quarry
Dump
Drive-In



NO	Revision	Date	Initial

0 100 200

LEGEND:

- NO WELL
- CISTERN SAMPLED
- WELL SAMPLED
- CISTERN PRESENT - UNABLE TO SAMPLE
- WELL PRESENT - UNABLE TO SAMPLE
- WELL ABANDONED - FILLED IN
- OUTSTANDING
- CISTERN ABANDONED-FILLED IN
- 1/2 MILE RADIUS
- SECTION BOUNDARY

Approved

DRAWING STATUS

Status	Date	Initial

GENERAL MOTORS POWERTRAIN DIVISION
BEDFORD, INDIANA

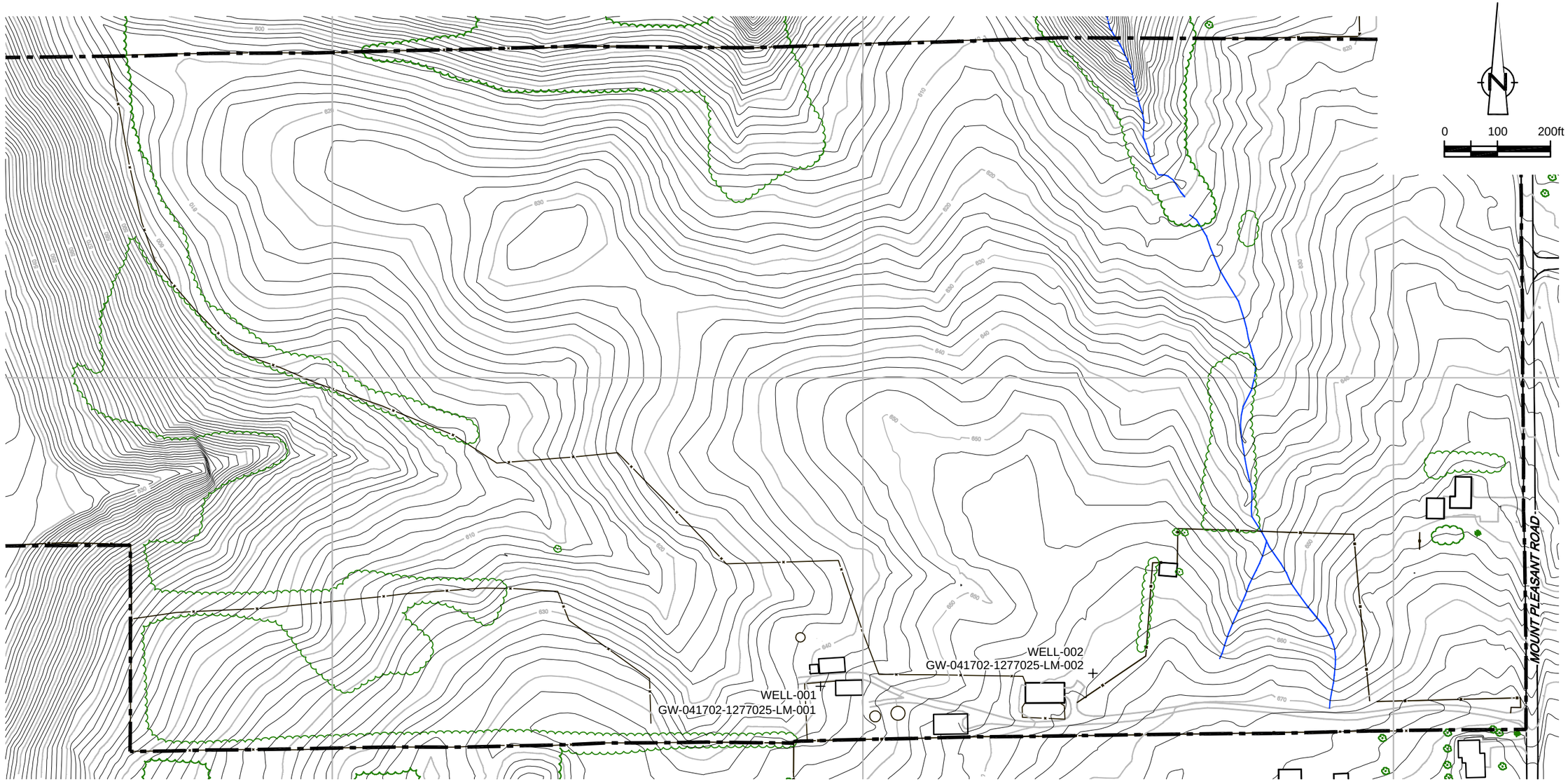
GENERAL MOTORS POWERTRAIN DIVISION

OFF-SITE WELL SURVEY

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. McGUIGAN	J. NICHOLS	AUGUST 28, 2001	
Scale: AS SHOWN	Project Nº: 13968-00	Report Nº: SOURCE	Drawing Nº: figure 2



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE SURFACE WATER LOCATION
- WELL-001 + WELL SAMPLE LOCATION AND IDENTIFIER (APRIL 2002)

NOTE: PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. LOCATIONS MAY NOT ACCURATELY REPRESENT THE TRUE BOUNDARIES

FIGURE 3

WELL 001 AND 002 SAMPLING LOCATIONS
Bedford, Indiana

13968-00(MEMO011)GN-CO002 JAN 16/2003

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*MT. PLEASANT WELL*		*PARCEL 207 WELL**		*PARCEL 208 WELL*	
Sample ID:		*GW-072401-485025-JS-001*	*GW-072401-485025-JS-002*	*GW-060402-704013-GS-001*	*GW-060402-704013-GS-002*	*GW-072401-620013-LM-001*	*GW-091501-620013-LM-001*
Sample Date:		*7/24/01*	*7/24/01*	*6/4/2002*	*6/4/2002*	*7/24/01*	*9/15/01*
			Duplicate				
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.55) UJ	ND (0.2) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.4) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	3.8 J	0.87 J	1.1	0.95
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.55) UJ	ND (0.2) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	3.8 J	0.87 J	1.1	0.95
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reported detection limit is an estimated quantity.

R = Data Rejected

* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 211 & 212 WELL*		*N.JACKSON WELL*	*L STREET CISTERN*		*J STREET CISTERN*
Sample ID:		*GW-072501-216012-LM-001*	*GW-32802-216012-GS-001*	*GW-072601-445014-JS-001*	*GW-080101-411019-JS-001*	*GW-080101-411019-JS-002*	*GW-080201-406017-CM-001*
Sample Date:		*7/25/01*	*3/28/2002*	*7/26/01*	*8/1/01*	*8/1/2001*	*8/2/2001*
						Duplicate	
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	ND (0.08) UJ	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	ND (0.10) UJ	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	0	N/A	N/A	N/A	N/A

NOTES:
J = The reported laboratory result is qualified as an estimated value
UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.
R = Data Rejected
* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*BRECKINRIDGE CISTERN*	*THIRD STREET CISTERN*	*PARCEL 13 WELL*		
Sample ID:		*GW-080201-1537002-CM-001*	*GW-080201-1326007-LM-001*	*GW-080701-330026-JS-001*	*GW-100101-330026-LM-001*	*GW-100101-330026-LM-002*
Sample Date:		*8/2/01*	*8/2/2001*	*8/7/01*	*10/1/01*	*10/1/01*
						Duplicate
PCBs						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
PCBs (dissolved)						
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	-
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	-
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	-
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	-
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-	-
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	-
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	-
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	N/A

NOTES:
J = The reported laboratory result is qualified as an estimated value
UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.
R = Data Rejected
* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*202 N ST CISTERN*		*PARCEL 15 WELL*	*PARCEL 5 WEST WELL*		*PARCEL 5 EAST WELL*
Sample ID:		*GW-12902-202021-LM-001*	*GW-12902-202021-LM-002*	*GW-021202-314012-JK-001*	*GW-072401-115012-CM-001*	*GW-041002-115012-JW-002*	*GW-041002-115012-LM-001*
Sample Date:		*1/29/2002*	*1/29/2002*	*2/12/02*	*7/24/01*	*4/10/2002*	*4/10/2002*
			Duplicate				
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08) UJ	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	-	ND (0.08) UJ	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	-	ND (0.10) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	N/A	0	0

NOTES:
J = The reported laboratory result is qualified as an estimated value
UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.
R = Data Rejected
* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 18 WELL*			*PARCEL 20 296 WELL*		*PARCEL 28 WELL 001*
Sample ID:		*GW-040902-414-JW-001*	*GW-040902-414-JW-002*	*GW-40402-472-JW-001*	*GW-060602-472-JW-001*	*GW-060602-472-JW-002*	*GW-041702-1277025-LM-001*
Sample Date:		*4/9/2002*	*4/9/2002*	*4/4/2002*	*6/6/2002*	*6/6/2002*	*4/17/2002*
			Duplicate			*Duplicate*	
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10)	1.7 J	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	1.7 J	0	0	0
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)	ND (0.08) UJ
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)	ND (0.10) UJ
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)	ND (0.10) UJ
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0

NOTES:

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.

R = Data Rejected

* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 28 WELL 002*	*PARCEL 209 & 210 WELL*			
Sample ID:		*GW-041702-1277025-LM-002*	*GW-031202-206012-JK-001*	*GW-031202-206012-JK-002*	*GW-050702-206012-JW-001*	*GW-050702-206012-JW-002*
Sample Date:		*4/17/2002*	*3/12/2002*	*3/12/2002*	*5/7/2002*	*5/7/2002*
				Duplicate		*Duplicate*
PCBs						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08)	ND (20)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	R	R	ND (0.10)	ND (20)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (40)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (20)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0
PCBs (dissolved)						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10) UJ	R	R	ND (0.10)	ND (0.2)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

NOTES:
J = The reported laboratory result is qualified as an estimated value
UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.
R = Data Rejected
* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 217 WELL*			*PARCEL 292 WELL*		
Sample ID:		*GW-073101-B809012-JS-001*	*GW-091401-B809012-LM-001*	*GW-12902-B809012-LM-001*	*GW-32102-413-JW-001*	*GW-32102-413-JW-002*	*GW-032102-413-JW-003*
Sample Date:		*7/31/01*	*9/14/01*	*1/29/2002*	*3/21/2002*	*3/21/2002*	*3/21/2002*
						Duplicate	*Duplicate*
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.08) UJ	ND (0.08)	ND (0.08)	ND (0.08)	ND (0.2)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.4)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.10) UJ	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.2)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	-	-	-	ND (0.08)	ND (0.08)	R
Aroclor-1221 (PCB-1221), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1232 (PCB-1232), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1242 (PCB-1242), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1248 (PCB-1248), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1254 (PCB-1254), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Aroclor-1260 (PCB-1260), dissolved	ug/L	-	-	-	ND (0.10)	ND (0.10)	R
Sum of Detected PCBs (ND=0)	ug/L	N/A	N/A	N/A	0	0	N/A

NOTES:
J = The reported laboratory result is qualified as an estimated value
UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.
R = Data Rejected
* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 295 WELL*		*PARCEL 372 WELL*	*PARCEL 388 WELL*	
Sample ID:		*GW-060602-452-JW-003*	*GW-060602-452-JW-004*	*GW-041502-403014-JW-001*	*GW-060502-421-JW-001*	*GW-060502-421-JW-002*
Sample Date:		*6/6/2002*	*6/6/2002*	*4/15/2002*	*6/5/2002*	*6/5/2002*
			Duplicate			*Duplicate*
PCBs						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	0.13 J	0.26 J
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0.13 J	0.26 J
PCBs (dissolved)						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

NOTES:

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.

R = Data Rejected

* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 394 WELL*		*PARCEL 412 WELL*		*PARCEL 413 WELL*	
Sample ID:		*GW-060702-1250-JW-001*	*GW-060702-1250-JW-002*	*GW-053002-715013-JW-001*	*GW-053002-715013-JW-002*	*GW-060502-619013-LM-003*	*GW-060502-619013-LM-004*
Sample Date:		*6/7/2002*	*6/7/2002*	*5/30/2002*	*5/30/2002*	*6/5/2002*	*6/5/2002*
			Duplicate		*Duplicate*		*Duplicate*
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08)	ND (0.20)	ND (0.08) UJ	ND (0.20) UJ	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10)	ND (0.40)	ND (0.10) UJ	ND (0.40) UJ	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	0.16 J	0.20 J
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10)	ND (0.20)	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10)	ND (0.20) UJ	ND (0.10) UJ	ND (0.20) UJ	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0.16 J	0.2 J
PCBs (dissolved)							
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.20)	ND (0.08)	ND (0.20)	ND (0.20)	ND (0.08)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.40)	ND (0.10)	ND (0.40)	ND (0.40)	ND (0.10)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.20)	ND (0.10)	ND (0.20)	ND (0.20)	ND (0.10)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0	0

NOTES:

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.

R = Data Rejected

* = Oil/Water Mixture

TABLE 1

ANALYTICAL DATA SUMMARY - RESIDENTIAL WELL SAMPLING
GM POWERTRAIN BEDFORD FACILITY
BEDFORD, INDIANA

Sample Location:		*PARCEL 414 WELL*	*PARCEL 415 WELL*		*PARCEL 416 WELL*	
Sample ID:		*GW-050802-514013-JW-001*	*GW-40202-305012-JW-001*	*GW-053102-327012-JW-001*	*GW-053102-327012-JW-002*	*GW-053102-327012-JW-003*
Sample Date:		*5/8/2002*	*4/2/2002*	*5/31/2002*	*5/31/2002*	*5/31/2002*
					Duplicate	*Duplicate*
PCBs						
Aroclor-1016 (PCB-1016)	ug/L	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.08) UJ	ND (0.20) UJ
Aroclor-1221 (PCB-1221)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1232 (PCB-1232)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.40) UJ
Aroclor-1242 (PCB-1242)	ug/L	0.74 J	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1248 (PCB-1248)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1254 (PCB-1254)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Aroclor-1260 (PCB-1260)	ug/L	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.10) UJ	ND (0.20) UJ
Sum of Detected PCBs (ND=0)	ug/L	0.74 J	0	0	0	0
PCBs (dissolved)						
Aroclor-1016 (PCB-1016), dissolved	ug/L	ND (0.08)	ND (0.08)	ND (0.08) UJ	ND (0.08) UJ	ND (0.20)
Aroclor-1221 (PCB-1221), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1232 (PCB-1232), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.40)
Aroclor-1242 (PCB-1242), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1248 (PCB-1248), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1254 (PCB-1254), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Aroclor-1260 (PCB-1260), dissolved	ug/L	ND (0.10)	ND (0.10)	ND (0.10) UJ	ND (0.10) UJ	ND (0.20)
Sum of Detected PCBs (ND=0)	ug/L	0	0	0	0	0

NOTES:

J = The reported laboratory result is qualified as an estimated value

UJ = The analyte was not detected above the sample reporting detection limit. The reporte detection limit is an estimated quantity.

R = Data Rejected

* = Oil/Water Mixture