

MTA LONG ISLAND RAIL ROAD



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**FINDINGS REPORT FOR THE
GROUNDWATER INVESTIGATION OF PETROLEUM
CONTAMINATION
AT RICHMOND HILL and MORRIS PARK FACILITIES
JAMAICA, NEW YORK**

September 2007

(Revision 3—February 2008)



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NYSDEC CONSOLIDATED SPILL #89-08760

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TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	ES-1
1.0 INTRODUCTION	1
2.0 SITE HISTORY AND DESCRIPTION.....	2
2.1 Subject Property	2
2.1.1 Richmond Hill Site.....	2
2.1.2 Morris Park Site.....	5
3.0 SCOPE OF WORK	7
3.1 Subsurface Sampling.....	8
3.2 Groundwater Monitoring Wells	10
3.2.1 Monitoring Well Locations.....	10
3.2.2 Monitoring Well Installation Procedures	15
3.2.3 Monitoring Well Development	17
3.3 Groundwater Investigation.....	17
3.3.1 Groundwater Sampling Procedures	18
3.3.2 Monitoring Well Survey	19
3.3.3 Hydrological tests.....	20
3.4 Waste Disposal.....	20
4.0 ANALYTICAL RESULTS	21
4.1 Soil Sample Results	21
4.2 Groundwater Sample Results	26
4.4 QA/QC Results.....	33
4.4.1 Soil QA/QC Results.....	33
4.4.2 Groundwater QA/QC Results	33
5.0 CONCLUSIONS AND RECOMMENDATIONS.....	34

TABLES

<u>No.</u>	<u>Description</u>
1A	Soil Analytical Results (Samples Collected Above Five Feet from the Groundwater Interface)
1B	Soil Analytical Results (Samples Collected Three to Five Feet Above Groundwater Interface)
1C	Soil Sample Results (Samples Collected At or Below the Groundwater Interface)
2	Groundwater Analytical Results-April Groundwater Sampling Event
3	Groundwater Analytical Results-July Groundwater Sampling Event
4	QA/QC Analytical Results
5	Monitoring Well and Groundwater Elevation Data

FIGURES

<u>No.</u>	<u>Description</u>
1	Location Map
2	Proposed Monitoring Well Location Map (from the November 2006 Work Plan)
3	Site Plan, Spill Locations and Monitoring Well Location Map (Installed 2007)
3A	Monitoring Well Location Map-Block End
3B	Monitoring Well Location Map-McGurl Building
3C	Monitoring Well Location Map-Upgradient Background
3D	Monitoring Well Location Map-Receiving Tracks
3E	Monitoring Well Location Map-Former AOC 1
3F	Monitoring Well Location Map-Dunton Tower Area
4	Site Plan of Existing Monitoring Well Locations
5	Groundwater Contour Map-April 2007

APPENDICES

APPENDIX A – Soil Boring Logs

APPENDIX B – Well Construction Logs

APPENDIX C – Well Development Logs

APPENDIX D – Groundwater Sampling Logs-April Groundwater Sampling Event

APPENDIX E – Groundwater Sampling Logs-July Groundwater Sampling Event

APPENDIX F – Laboratory Results

APPENDIX G – Slug Testing Data

APPENDIX H – Excavation Endpoint Sampling Analytical Results (related to spill #88-01587)

APPENDIX I – Bioventing System, Bioamendment Infiltration System, and Product Recovery
System Drawings

EXECUTIVE SUMMARY

Gannett Fleming Engineers & Architects, P.C. (GF), on behalf of the MTA Long Island Rail Road (LIRR), has prepared this Findings Report for Groundwater Investigation of Petroleum Contamination at Richmond Hill and Morris Park Facilities, Jamaica, New York (Figure 1). The scope of this assignment was to investigate potential on and off-site petroleum impacts to the groundwater due to historic operations and documented spills (consolidated spill #89-08760) at the Richmond Hill and Morris Park facilities. The goal of this investigation is to formulate appropriate recommendations for the supplemental investigation, remediation or monitoring of the sites and obtain spill case closure.

The Richmond Hill Shop and Yard is located in Richmond Hill, Queens immediately north of the Morris Park Yard. The Richmond Hill Shop and Yard is used for the daily inspection, repair and cleaning of locomotive hauled passenger trains. The areas of concern at this site are:

1. Storage Yard - The Storage Yard is located south of the Richmond Hill Locomotive and Sheridan Shops. Several large petroleum spills have occurred throughout the yard area.
2. Advance Yard – The Advance Yard is located east of the employee facility and includes the train wash facility. The yard is primarily used for train storage. There are no known spills in this yard area. However, past LIRR operations including storage of old diesel locomotives and coaches may have caused soil and/or groundwater contamination.
3. Receiving Yard – The Receiving Yard is located southeast of the employee facility interlocking and primarily used for train storage. The yard was used in the past for fueling of diesel locomotives and coaches. There are several spills still active on the NYSDEC database. Surficial petroleum contamination is present throughout the yard.
4. Yard Interlocking Area/Employee Facility/Retaining Wall – This is the interlocking area between the Storage, Advance and Receiving Yards. Surficial petroleum contamination is present throughout the yard. Additionally, petroleum contaminated

soil was discovered during the construction of a new retaining wall along the northern property boundary.

The Morris Park facility is located just north of Atlantic Avenue and east of 121st Street in Richmond Hill, Queens County, New York. The facility has operated since the 1890s as the central location for maintenance of the locomotives, coaches, and electric powered coaches. The areas of concern at this site are:

1. The storage tracks east of the fuel docks and turntable extending to Dunton Tower. This includes the ladder tracks, inspection pits and lube area. Significant surface staining is evident throughout this area. Additionally, there have been several open spills for this location.
2. The former gasoline fuel depot located in the southwest corner of the site. During removal of four 500-gallon tanks, petroleum contamination was observed under the excavation.
3. Off-site petroleum contamination from the fuel dock area. The LIRR is in the process of addressing the on-site soil and free product under separate projects, the potential off-site contamination will be evaluated as part of this work scope.

Soil samples were collected at the areas of concern on February 12 through March 27, 2007 during the installation of twenty-one monitoring wells. Groundwater samples were collected at the areas of concern on April 9 through 11, 2007. The results of the soil and groundwater sampling in reference to each AOC are listed below:

Richmond Hill

1. Storage Yard (Block End)

The results of the soil and groundwater samples indicate that impacts to soil and groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

2. Advance Yard

No monitoring wells were proposed for the Advance Yard based on the lack of odors encountered during construction related soil excavation and no observable evidence of stained surface ballast or soils.

3. East Fueling Yard

Due to the interference of the reinforced concrete and underground slab, it was unclear whether underground utilities were present and the proposed monitoring wells could not be installed. Alternative locations will need to be identified to advance borings and install monitoring wells in this area.

4. Receiving Yard (Receiving Tracks)

The results of the soil and groundwater samples indicate that impacts to soil and groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

5. Yard Interlocking Area/Employee Facility/Retaining Wall (McGurl Building, Between McGurl Building and Receiving Tracks, and Upgradient Background)

Free floating petroleum product was observed in MW-GF-18. Groundwater sample results reported non-detect or below guidance value concentrations for VOCs and SVOCs in all samples except for MW-GF-8. Therefore supplemental investigation is warranted in the area adjacent to the McGurl Building and between the McGurl Building and Receiving Tracks.

Morris Park:

1. Dunton Tower Area

Groundwater analytical results were reported above Guidance Values for VOCs and SVOCs for groundwater sample MW-GF-22. It is recommended that monthly monitoring and quarterly sampling be performed for one year at which time the need for further investigation will be evaluated.

2. Former Gasoline Fuel Depot (Former AOC 1)

The results of the soil and groundwater samples indicate that impacts to soil and groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

3. Off-Site Petroleum Contamination from Fuel Dock Area (Atlantic Avenue)

The results of the soil and groundwater samples indicate that impacts to soil and groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

Although, groundwater sample MW-15-60 (located south of the turntable) exhibited concentrations of VOCs and SVOCs above Guidance Values, this location is within the Bioventing, Bioamendment and Product Recovery Systems currently being installed at Morris Park. The drawings of these systems are provided in Appendix I.

1.0 INTRODUCTION

Gannett Fleming Engineers & Architects, P.C. (GF), on behalf of the MTA Long Island Rail Road (LIRR), has prepared this Phase II Environmental Site Investigation Findings Report (ESI) for the properties located at Richmond Hill and Morris Park, Jamaica, New York (Figure 1). The scope of this assignment was to investigate potential on and off-site petroleum impacts to the groundwater due to historic operations and documented spills (consolidated spill #89-08760) at the Richmond Hill and Morris Park facilities. The goal of this investigation is to formulate appropriate recommendations for the supplemental investigation, remediation or monitoring of the sites and obtain spill case closure.

This report describes the on-site investigation activities, analytical results, and recommendations.

2.0 SITE HISTORY AND DESCRIPTION

2.1 Subject Property

2.1.1 Richmond Hill Site

The Richmond Hill Shop and Yard is located in Richmond Hill, Queens immediately north of the Morris Park Yard. The Richmond Hill Shop and Yard is used for the daily inspection, repair and cleaning of locomotive hauled passenger trains. Fueling has occurred throughout the Storage and Receiving Yards of Richmond Hill. The LIRR Richmond Hill Shop and Yard is comprised of the following areas:

- Sheridan Shop – Coach servicing
- Locomotive Shop – Locomotive repair
- Storage Yard – Storage, fueling and maintenance of locomotives and coaches.
- Employee Facility
- Train Wash
- Receiving Yard – Train storage (past fueling activities)
- Advance Yard – Train storage

In the early 1990's the LIRR removed a 20,000 gallon diesel storage tank located in the vicinity of the new employee facility. Although the majority of contaminated soil was removed as part of this effort, additional contaminated soil was uncovered during construction of a retaining wall adjacent to the removed tank. Also, significant amounts of contaminated soil were removed from the Storage Yard during the rehabilitation of this area. Several recent spills in the storage Yard remain active on the NYSDEC spill database. Due to past storage and fueling in the Advance and Receiving Yards, visible staining is apparent sporadically throughout these locations.

The LIRR contracted the removal of 1,180 tons of contaminated soil as part of the parking lot and access ramp construction located east of the McGurl Building. Nine soil samples, RH-1 through RH-9, were collected from the excavation on April 20, 2006. Soil samples were collected from two to three feet below ground surface. The samples were analyzed for VOCs via method 8260 and SVOCs via method 8270. During the same project at the east end of the Advance Yard, the LIRR did not observe any visible or olfactory evidence of contamination during excavation and soil removal activities. The results are presented in Appendix H.

The areas of concern at this site included in this scope are:

1. Storage Yard - The Storage Yard is located south of the Richmond Hill Locomotive and Sheridan Shops. Several large petroleum spills have occurred throughout the yard area.
2. Advance Yard – The Advance Yard is located east of the employee facility and includes the train wash facility. The yard is primarily used for train storage. There are no known spills in this yard area. Past LIRR operations including storage of old diesel locomotives and coaches may have caused soil and/or groundwater contamination.
3. Receiving Yard – The Receiving Yard is located southeast of the employee facility interlocking and primarily used for train storage. The yard was used in the past for fueling of diesel locomotives and coaches. There are several spills still active on the NYSDEC database. Surficial petroleum staining is present throughout the yard.
4. Yard Interlocking Area/Employee Facility/Retaining Wall – This is the interlocking area between the Storage, Advance and Receiving Yards. Surficial petroleum staining is present throughout the yard. Additionally, petroleum impacted soil was discovered during the construction of a new retaining wall along the northern property boundary.

The spill cases are summarized in the following table:

<u>Spill #</u>	<u>Facility</u>	<u>Location</u>	<u>Spill Cause</u>	<u>Product</u>	<u>Comments</u>
89-07630	Richmond Hill Advance Yard	Receiving Yard, (Exact Location Unknown)	Punctured Fuel Tank	Diesel	Closed and consolidated under 89-08760
89-08760	Richmond Hill Yard	Storage Yard - Block End Track #10		Diesel	Open
90-05491	Richmond Hill Yard	Old Turntable/91st Avenue	Tank Overfill	Diesel	Closed and Consolidated under 89-08760
90-08461	Richmond Hill Yard	Block End Track #10	Unknown	Diesel	Closed and consolidated under 89-08760
92-05074	Richmond Hill Filling Station	#1&2 Receiving Tracks, Approx.	Equipment Failure	Diesel	Closed and consolidated under 89-08760
93-03609	Richmond Hill Yard	#1 Receiving Track, Approx.	Line Leak	Diesel	Closed and consolidated under 89-08760
93-10347	Richmond Hill Yard	Block End Track #10	Line Leak	Diesel	Closed and consolidated under 89-08760
94-01535	Richmond Hill Yard	Unknown	Equipment Failure	Diesel	Closed and consolidated under 89-08760
97-04724	Richmond Hill Yard	Fuel Station Tracks 1 & 2 (Block End)	Line Leak	Diesel	Closed and consolidated under 89-08760
98-05610	Richmond Hill Yard	Block End Storage Yard (Pipe Elbow)	Line Leak	Diesel	Closed and consolidated under 89-08760
98-10288	Richmond Hill Yard	East Fueling Yard	Line Leak	Diesel	Closed and consolidated under 89-08760
99-01518	Richmond Hill Yard	Near MW-1	Line Leak	Diesel	Closed and consolidated under 89-08760
05-50364	Richmond Hill Yard	Fuel Line, Exact Location Unknown	Line Leak (5/16/84)	Unknown	Closed and consolidated under 89-08760.

2.1.2 Morris Park Site

The Morris Park facility is located just north of Atlantic Avenue and east of 121st Street in Richmond Hill, Queens County, New York. The facility is approximately 23 acres and is surrounded by residential, light industrial and commercial zones. The facility has operated since the 1890s as the central location for maintenance of the locomotives, coaches, and electric powered coaches. The majority of the facility closed in the early 1990s coinciding with the opening of the Railroad's Hillside Maintenance Complex. Several of the buildings have been demolished since the decommissioning; however, diesel locomotive fueling, maintenance, overhaul and repair are still performed at this site.

During removal of underground storage tanks (USTs), petroleum contamination was discovered at several locations within the facility. In order to comply with New York State Department of Environmental Conservation (NYSDEC) spill and UST regulations, the Railroad initiated a Preliminary Investigation (PI) followed by a Remedial Investigation (RI). In summary, the results of the RI indicated the following:

1. Diesel fuel contamination was predominant in the southern portion of the Yard.
2. A light, non-aqueous phase liquid (LNAPL) plume is located in the southern portion of the yard and is identified as diesel fuel.
3. CFCs were the most frequently occurring volatile organic compound (VOC), and were detected in several on-site and off-site wells above regulatory standards.

Please note that these issues are being addressed in separate LIRR projects. On-site petroleum-related contamination within the fuel dock area and CFC contamination throughout the site are not part of this scope of work. The areas of concern at this site included in this scope are:

1. The storage tracks east of the fuel docks and turntable extending to Dunton Tower. This includes the ladder tracks, inspection pits and lube area. Significant surface staining is evident throughout this area. Additionally, there have been several open spills for this location.

2. The former gasoline fuel depot located in the southwest corner of the site. During removal of four 500-gallon tanks, petroleum contamination was observed under the excavation.
3. Off-site petroleum contamination from the fuel dock area. The LIRR is in the process of addressing the on-site soil and free product under separate projects, the potential off-site contamination will be evaluated as part of this work scope.

The spill cases are summarized in the following table:

<u>Spill #</u>	<u>Facility</u>	<u>Location</u>	<u>Spill Cause</u>	<u>Product</u>	<u>Comments</u>
03-11941	Morris Park Yard	Between Sand & Dunton Towers	Leaking Drum	Kerosene	Closed and consolidated under 89-08760
06-50816	Morris Park Yard	Former Gasoline Depot Area	Storage System Leak	Gasoline	Closed and consolidated under 89-08760

The scope of this work included investigation of the following areas:

- The storage tracks east of the fuel docks extending to Dunton Tower associated with surficial petroleum staining and several open spill cases.
- The former gasoline depot located in the southern corner of the site where four 500 gallon USTs have been removed.
- Potential off-site petroleum impacted groundwater from the fuel dock area.

3.0 SCOPE OF WORK

In response to the contamination at Richmond Hill and Morris Park twenty seven groundwater monitoring wells were proposed to be drilled and installed following procedures presented in the November 2006 Work Plan for Groundwater Investigation of Petroleum Contamination. These locations were based on an inferred southwesterly direction of groundwater movement, historic spill locations, and the locations of structures and equipment with the potential to impact groundwater. The groundwater monitoring wells were placed to identify and delineate on-site impacts and to assess the potential for off-site migration.

From February 12, 2007 through March 14, 2007 Aquifer Drilling & Testing, Inc. (ADT) drilled and installed fifteen of the proposed monitoring wells at the Richmond Hill Yard. From March 19 through 27th, 2007 Jersey Boring and Drilling, Inc. (JBD) drilled and installed seven of the proposed monitoring wells at the Morris Park Yard. Five of the twenty seven monitoring wells were not installed due to underground utilities and structures causing potential hazards. Soil samples were collected from each of the boring locations with the exception of the boring associated with MW-GF-20. After well installation, a qualified field scientist developed each well with the exception MW-GF-18 due to the presence of free product.

On April 9 through 11, 2007, groundwater samples were collected from twenty of the newly installed wells and eight of the existing wells (MW-01, MW-10-60, MW-9-60, MW-11-60, MW-2D-60, MW-3D-60, MW-15-60 and MW-16-60). On May 21 and 22, 2007, slug tests were performed on four of the newly installed wells (MW-GF-05, MW-GF-09, MW-GF-14 and MW-GF-27) and a survey (by a NYS licensed surveyor) of the newly installed monitoring wells was conducted.

On July 9 through 11, 2007, a second round of groundwater samples was collected. Sampling was conducted on twenty of the newly installed wells and eight of the existing wells (MW-01, MW-10-60, MW-9-60, MW-11-60, MW-2D-60, MW-3D-60, MW-15-60 and MW-16-60), with one additional well (MW-1-60) to accommodate LIRR's requests.

3.1 Subsurface Sampling

LIRR personnel performed an onsite geophysical survey and utility markouts at the site prior to all drilling activities. One Call was notified by the driller (ADT) and utility locations for offsite drilling areas were marked-out prior to the commencement of drilling. This was completed so that drilling would not impact existing underground utilities and structures.

The soil borings were advanced with a track mounted hollow-stem auger drilling rig in the Richmond Hill Yard and a truck-mounted hollow-stem auger drilling rig in the Morris Park Yard. Borings were hand cleared to five feet below grade. Soil samples were collected using two feet long by two inch diameter split core sampling spoons. Split spoon samples were collected continuously from five to eleven feet below ground surface and every five feet thereafter. Each sample were lithologically logged by a Gannett Fleming environmental scientist and divided vertically into two equal parts. One aliquot was placed in a sample container for laboratory analysis, while the other was placed in a plastic bag for field screening. Sample bottles were placed in a cooler and packed with ice or ice packs to maintain a temperature of approximately 4 degrees Celsius. The coolers were kept in a cool location prior to shipment to the laboratory.

Two trip blanks (for VOCs only), two field blanks and two matrix spike/matrix spike duplicates were collected for QA/QC purposes. The subsurface soil samples and QA/QC samples were transported under chain of custody procedures to Chemtech Laboratories for analysis of VOCs using USEPA Method 8260, and SVOCs using USEPA Method 8270 (for TAGM fuel oil parameters).

Soil samples were labeled and handled using the procedures specified in the sample identification section of this Work Plan. In addition, a Sample/Core Log was prepared by for each soil boring. The log indicates the depth interval, lithologic description, and headspace PID measurements for each sample.

Two soil samples were collected from each monitoring well location for laboratory analysis with the exception of the boring associated with MW-GF-20 because this well was installed in an existing boring that was backfilled with native soil during a prior investigative effort.

The subsurface sample intervals were observed for physical characteristics of petroleum contamination (staining, odor, etc.) and screened with a PID. The sample interval exhibiting the greatest likelihood of contamination and the sample interval from just above the groundwater interface were submitted for laboratory analysis.

The following table describes the soil samples collected on February 12 through March 27, 2007. The boring logs are included in Appendix A.

WELL #	SAMPLE ID	DEPTH (FT)	PID READING (PPM)	REASON FOR SAMPLING
MW-GF-02	GFSB02-20-22	20-22	0.4	Highest PID Reading
MW-GF-02	GFSB02-30-32	30-32	0.0	Groundwater Interface
MW-GF-04	GFSB04-15-17	15-17	53.1	Highest PID Reading
MW-GF-04	GFSB04-40-42	40-42	25.2	Groundwater Interface
MW-GF-05	GFSB05-9-11	9-11	4.0	Highest PID Reading
MW-GF-05	GFSB05-45-47	45-47	0.0	Groundwater Interface
MW-GF-06	GFSB06-40-42	40-42	0.9	Highest PID Reading
MW-GF-06	GFSB06-50-52	50-52	0.0	Groundwater Interface
MW-GF-07	GFSB07-35-37	35-37	92.0	Highest PID Reading
MW-GF-07	GFSB07-50-52	50-52	77.2	Groundwater Interface
MW-GF-08	GFSB08-40-42	40-42	102.0	Highest PID Reading
MW-GF-08	GFSB08-45-47	45-47	52.2	Groundwater Interface
MW-GF-09	GFSB09-25-27	25-27	0.3	Highest PID Reading
MW-GF-09	GFSB09-45-47	45-47	0.0	Groundwater Interface
MW-GF-12	GFSB12-9-11	9-11	36.0	Highest PID Reading
MW-GF-12	GFSB12-45-47	45-47	12.1	Groundwater Interface
MW-GF-13	GFSB13-30-32	30-32	2.6	Highest PID Reading
MW-GF-13	GFSB13-45-47	45-47	0.9	Groundwater Interface
MW-GF-14	GFSB14-7-9	7-9	2.6	Highest PID Reading/recovery
MW-GF-14	GFSB14-45-47	45-47	8.1	Groundwater Interface
MW-GF-15	GFSB15-15-17	15-17	359.0	Highest PID Reading

MW-GF-15	GFSB15-30-32	30-32	0.0	Groundwater Interface
MW-GF-16	GFSB16-9-11	9-11	0.0	Highest PID Reading/recovery
MW-GF-16	GFSB-30-32	30-32	0.0	Groundwater Interface
MW-GF-17	GFSB17-15-17	15-17	0.0	Highest PID Reading/recovery
MW-GF-17	GFSB17-30-32	30-32	0.0	Groundwater Interface
MW-GF-18	GFSB18-9-11	9-11	53.2	Highest PID Reading
MW-GF-18	GFSB18-45-47	45-47	56.7	Groundwater Interface
MW-GF-21	GFSB21-7-9	7-9	0.8	Highest PID Reading
MW-GF-21	GFSB21-35-37	35-37	0.2	Groundwater Interface
MW-GF-22	GFSB22-7-9	7-9	0.4	Highest PID Reading
MW-GF-22	GFSB22-35-37	35-37	0.0	Groundwater Interface
MW-GF-23	GFSB23-25-27	25-27	0.1	Highest PID Reading
MW-GF-23	GFSB23-30-32	30-32	0.0	Groundwater Interface
MW-GF-24	GFSB24-15-17	15-17	0.1	Highest PID Reading
MW-GF-24	GFSB24-30-32	30-32	0.0	Groundwater Interface
MW-GF-25	GFSB25-5-7	5-7	0.0	Highest PID Reading/recovery
MW-GF-25	GFSB25-30-32	30-32	0.0	Groundwater Interface
MW-GF-26	GFSB26-9-11	9-11	0.0	Highest PID Reading/recovery
MW-GF-26	GFSB26-35-37	35-37	0.0	Groundwater Interface
MW-GF-27	GFSB27-7-9	7-9	0.0	Highest PID Reading/recovery
MW-GF-27	GFSB27-35-37	35-37	0.0	Groundwater Interface

3.2 Groundwater Monitoring Wells

3.2.1 Monitoring Well Locations

Gannett Fleming’s subcontractors, Aquifer Drilling & Testing, Inc. (ADT) and Jersey Boring and Drilling, Inc. installed fifteen groundwater monitoring wells at Richmond Hill and seven wells at Morris Park, respectively.

In the Richmond Hill Yard, three monitoring wells were installed in the Block End area to investigate spills and possible leaks in the fuel/lube distribution systems. Two of the proposed wells were not installed due to underground interferences. Four monitoring wells were installed

around the McGurl Building which is the location of a former fuel-oil storage tank and spill (Spill Number 90-05491) associated with a tank overflow. Due to underground interferences, the two proposed monitoring wells in the East Fueling Yard, (the location of Spill Number 98-10288), were not installed. Three monitoring wells were installed at the Receiving Tracks at the location of two spills (Spill Number 93-03609 and 92-05074). Three upgradient background monitoring wells were installed north of Richmond Hill Yard along 92nd Avenue. Two monitoring wells were installed east of the McGurl Building. No monitoring wells were proposed for the Advance Yard based on the lack of odors encountered during construction related soil excavation and no observable evidence of stained surface ballast or soils.

At the Morris Park Yard, three monitoring wells were installed in the former gasoline depot. Four monitoring wells were installed near Dunton Tower. One monitoring well was installed offsite just south of Dunton Tower. The locations of the groundwater monitoring wells are provided on Figure 3.

The details of boring advancement and well installation in the areas of concern are as follows:

Richmond Hill:

1. Block End

Proposed wells MW-GF-2, MW-GF-4 and MW-GF-5 were installed as presented in Figure 3A. Proposed wells MW-GF-1 and MW-GF-3 were unable to be installed. Prior to drilling, ADT used a Vactron to clear 5 feet below ground surface for all of the originally proposed locations due to excessive amounts of utility lines in the block end area. MW-GF-5 was Vactroned to five feet on February 27, 2007 and installed at its proposed location on February 28, 2007. The originally proposed location of MW-GF-2 was Vactroned on February 28, 2007, but the location was abandoned due to the presence of underground utilities. MW-GF-3 was not Vactroned or drilled due to underground obstructions. Due to these obstructions, the proposed wells MW-GF-2 and MW-GF-3 were relocated to the sidewalk on 89th Ave below the Block End between 123rd and 124th Streets. Proposed monitoring well MW-GF-3 was not installed due to underground

obstructions. MW-GF-2 was installed in the newly proposed location on March 14, 2007. MW-GF-4 was Vactroned at its proposed location on February 28, 2007 and was attempted to be installed on March 6, 2007, but an underground obstruction was encountered. MW-GF-4 was relocated to the driveway entrance to the Block End. The newly proposed location for MW-GF-4 was successfully Vactroned on March 7, 2007 and installed on March 12, 2007. MW-GF-1 was Vactroned on February 27, 2007. ADT attempted to drill and install the well on March 1, 2007 but encountered unknown underground piping at approximately 10 feet below grade. MW-GF-1 was relocated directly adjacent to existing well, MW-1. It was Vactroned on March 7, 2007, but cement casing and PVC piping was encountered within the excavation at approximately 5 feet below grade.

2. East Fueling Yard

Proposed wells MW-GF-10 and MW-GF-11 could not be installed due to underground utility and structures posing potential hazards. On March 24th, GF and ADT attempted to hand clear at the proposed location of MW-GF-10. Rebar was encountered at four feet below ground surface. The drilling location was shifted east to an area where asphalt was present. Gravel was present below the asphalt and the hand cleared-hole continually collapsed. A Vactron unit was then used while hand clearing the boring location. At approximately 3.5 feet below grade, a concrete slab or metal plate was encountered. Due to the interference of the reinforced concrete and unknown slab, it was unclear whether underground utilities were present. At this point, the boring location was abandoned. Alternative locations will need to be identified to advance borings and install monitoring wells in this area.

3. McGurl Building

Monitoring wells MW-GF-6, MW-GF-7, MW-GF-8 and MW-GF-9 were installed at their proposed locations as presented in Figure 3B. MW-GF-6 was advanced and installed on February 12, 2007, MW-GF-7 on February 13, 2007, MW-GF-8 on February 15, 2007 and MW-GF-9 on February 14, 2007.

4. Upgradient Background

Monitoring wells MW-GF-15, MW-GF-16 and MW-GF-17 were installed as presented in Figure 3C. MW-GF-15 was advanced and installed on March 1, 2007, MW-GF-16 on March 2, 2007, and MW-GF-17 on March 5, 2007.

5. Receiving Tracks

Monitoring wells MW-GF-12, MW-GF-13 and MW-GF-14 were installed at their proposed locations as presented in Figure 3D. MW-GF-12 was advanced and installed on February 19, 2007 and MW-GF-13 and MW-GF-14 on February 20, 2007.

6. Between McGurl Building and Receiving Tracks

Monitoring well MW-GF-18 was advanced on March 12, 2007 and installed on March 13, 2007 as presented on Figure 3. Proposed monitoring well MW-GF-19 was unable to be installed due to underground utilities and structures.

Morris Park:

1. Former AOC 1

Wells MW-GF-20, MW-GF-26 and MW-GF-27 were installed as presented on Figure 3E. MW-GF-20 was advanced and installed on March 19, 2007, MW-GF-26 on March 20, 2007 and MW-GF-27 on March 21, 2007. Actual locations varied from the proposed due to areal restrictions in positioning the drill rig and locations of underground utilities. In general, the locations are within proximity to the mapped proposed locations. Running sands were encountered during the installation of all three wells.

2. Dunton Tower Area

Monitoring wells MW-GF-21, MW-GF-22, MW-GF-23 and MW-GF-24 were installed as presented in Figure 3F. Actual locations varied from the proposed due to areal restrictions in positioning the drill rig and locations of underground utilities. In general, the locations are within proximity to the mapped proposed locations. MW-GF-21 was advanced and installed on March 27, 2007, MW-GF-22 on March 26, 2007, MW-GF-23 was advanced on March 22, 2007 and installed on March 23, 2007 and MW-GF-24 on March 21, 2007. No problems were encountered during the installation of these monitoring wells with the exception of MW-GF-23. Running sands were encountered during the installation of MW-GF-23, but the well was successfully installed.

3. Atlantic Avenue

Well MW-GF-25 was advanced and installed on March 5, 2007 at its proposed location as presented in Figure 3.

The following table summarizes the well locations:

<u>Location</u>	<u>Spill #</u>	<u>Well ID #</u>	<u>Product</u>
Richmond Hill Yard - Block End	97-04724, 93-10347, 98-05610, 99-01518, 89-08760, 90-08461	MW-GF-5	Diesel
Richmond Hill Yard – McGurl Building	90-05491	MW-GF-6 – MW-GF-9	Diesel
Richmond Hill Yard – East Fueling Yard	98-10288	N/A	Diesel
Richmond Hill Yard – Receiving Tracks	93-03609, 92-05074	MW-GF-12 –MW-GF-14	Diesel
Richmond Hill Yard –Upgradient background	N/A	MW-GF-15 – MW-GF-17	Petroleum
Richmond Hill Yard – East of McGurl Building	N/A	MW-GF-18	Petroleum
Morris Park Yard – Former Gasoline Depot	06-50816	MW-GF-20,MW-GF-26, MW-GF-27	Gasoline
Morris Park Yard – Dunton Tower	03-11941	MW-GF-21 – MW-GF-24	Petroleum
Morris Park Yard-offsite south of Dunton Tower	03-11941	MW-GF-25	Petroleum

3.2.2 Monitoring Well Installation Procedures

The groundwater monitoring wells were installed using the hollow stem auger method to depths of approximately 55-60 feet below grade at Richmond Hill and 40-45 feet below grade at Morris Park. Actual well depths were determined based on site conditions. The wells are constructed of 2-inch diameter schedule 40 PVC pipe with American Society of Testing Materials (ASTM) F-480 pipe threading and 20 feet of 2-inch diameter, 0.010-inch (10 slot) PVC well screen. Solvent glue was not used in assembling the well screen or riser casing. The wells are constructed so that approximately 10 feet of well screen was installed above the water table with 10 feet of screen below the water table to determine if floating product (LNAPL) is present on the water table. While installing some of the wells, the drillers encountered running sands and were unable to install exactly 10 feet of screen below the water table. The completed wells were flush with the surrounding land surface and completed with a flush-mounted box.

Number 0 sand pack was placed around the well screen from the bottom of the well to two feet above the well screen. The depth to the top of the sand pack was confirmed by measuring down

the annular space between the well casing and the borehole with a weighted tape. When running sands were encountered, potable water was pumped into the borehole to maintain a positive head in the annular space to facilitate well installation. Heaving sands were encountered while monitoring wells MW-GF- 23, MW-GF-20, MW-GF-26 and MW-GF-27 were being installed. A bentonite seal was placed on top of the sand pack and the remainder of the annulus was filled with a cement grout-slurry to grade. The top of the bentonite seal was measured with a weighted tape and hydrated with potable water prior to grouting. The cement/bentonite grout was used to fill the annulus of the borehole from above the bentonite seal to land surface. The cement/bentonite grout was mixed at a ratio of 94 pounds of cement to 3 to 5 pounds of bentonite and 6.5 gallons of potable water. A flush-mount, protective steel casing with locking “J” cap was installed after completion of the well.

Well Construction Logs are included in Appendix B. The table below summarizes the well depth and screen interval for all monitoring wells installed during this investigation.

WELL ID	WELL DEPTH	SCREEN INTERVAL
MW-GF-02	45 ft	25-45 ft
MW-GF-04	57 ft	37-57 ft
MW-GF-05	55 ft	35-55 ft
MW-GF-06	60 ft	40-60 ft
MW-GF-07	60 ft	40-60 ft
MW-GF-08	60 ft	40-60 ft
MW-GF-09	55 ft	35-55 ft
MW-GF-12	60 ft	40-60 ft
MW-GF-13	55 ft	35-55 ft
MW-GF-14	55 ft	35-55 ft
MW-GF-15	45 ft	25-45 ft
MW-GF-16	45 ft	25-45 ft
MW-GF-17	45 ft	25-45 ft
MW-GF-18	60 ft	40-60 ft
MW-GF-20	43 ft	23-43 ft
MW-GF-21	45 ft	25-45 ft
MW-GF-22	45 ft	25-45 ft

WELL ID	WELL DEPTH	SCREEN INTERVAL
MW-GF-23	45 ft	25-45 ft
MW-GF-24	48 ft	28-48 ft
MW-GF-25	45 ft	25-45 ft
MW-GF-26	50 ft	30-50 ft
MW-GF-27	50 ft	30-50 ft

3.2.3 Monitoring Well Development

Monitoring wells were developed using a submersible pump to ensure the removal of any drilling fines and to restore the hydraulic properties of the surrounding water bearing material. The pump's flow rate was controlled to create draw-down in the well but not dry the well. The wells were developed until the turbidity was below 50 NTUs or ten well volumes had been removed, to provide sediment-free water for sampling.

New polyethylene tubing was used for development of each well. Development water was drummed pending receipt of laboratory analytical data to determine proper disposal.

Well development logs are provided in Appendix C.

3.3 Groundwater Investigation

Groundwater quality was assessed by conducting two sampling rounds of product-free monitoring wells for VOCs and SVOCs for NYSDEC STARS list compounds. The twenty new monitoring wells, one existing well at the Block End (MW-1), one existing well at the Morris Park Yard (MW-16-60) and six existing wells located offsite along Atlantic Avenue (MW-2D-60, MW-3D-60, MW-9-60, MW-10-60, MW-11-60 and MW-15-60) were sampled for the first and second groundwater sampling events in April and July, respectively. An additional well at the Morris park yard, MW-1-60, was sampled during the second groundwater sampling event as requested by Long Island Railroad. Note that MW-15-60 was not the original proposed well to be sampled, but due to traffic restrictions, MW-15-60 was sampled in place of MW-14-60 in

addition to twenty-one of the newly installed wells. The locations of the existing groundwater monitoring wells are provided on Figure 2. MW-GF-18 was not developed or sampled due to the presence of free phase petroleum product during the initial gauging and first sampling round.

3.3.1 Groundwater Sampling Procedures

After removing the well cap for sampling, the depth to water in each well was measured to the nearest hundredth of a foot using an electronic water-level indicator and was recorded on the Sampling Log (Appendices D and E). The immersed portion of the indicator was cleaned between measurements with a solution of non-phosphate detergent and potable water, followed by a distilled water rinse to avoid cross contamination between wells. Wash and rinse water was drummed and consolidated with the monitoring well development water.

Monitoring wells were evacuated immediately prior to sampling using a submersible pump. The pump's flow rate was controlled in order to create draw-down in the well but not dry the well. The wells were purged until three well volumes were removed.

Field parameters including pH, temperature, specific conductivity, and turbidity, of the discharge water was recorded for every well volume using a field calibrated meter. A flow through cell was used to collect measurements after the evacuation of each well volume. Prior to making the tests, the instruments were calibrated according to the manufacturer's instructions. After each use, the probe was rinsed with distilled water. The field measurements were recorded on a Water Sampling Log provided in Appendices D and E.

Once three well-volumes were removed, the pump intake was slowly raised so that the groundwater which was eventually sampled was not agitated. The purged water was drummed pending the laboratory analytical results to determine proper disposal.

After the evacuation was complete a dedicated disposable bailer was used to collect the water samples. The bailer was slowly lowered into the well using new polypropylene rope. The line was lowered and raised by hand with the slack portion of the line left to lie on a plastic tarp or in a clean

container placed next to the well. The bailer was slowly lowered until it is immersed within the well. Care was taken not to agitate the water in the well to avoid possible volatilization of contaminants. Since the bailers and rope are disposable, they were discarded after sampling each well.

New disposable gloves were worn during sample collection and discarded after use. Water from the bailer was carefully transferred to the sample bottles to minimize aeration of the sample. The VOC containers were filled first, followed by SVOCs. Special care was taken in filling and capping the VOC vials, so that no headspace or air bubbles are present. In addition, overflowing bottles were avoided to prevent the loss of floating substances or preservatives which may have already been added to the bottle. All sample bottle caps were secured snugly, but not over-tightened.

Sample bottles were placed in a cooler and packed with ice or ice packs to maintain a temperature of approximately 4° Celsius. The coolers were kept out of the sun in a cool location prior to shipment to the laboratory.

One trip blank (for VOCs only) and one field blank was collected for quality assurance/quality control (QA/QC) purposes. The groundwater samples and two QA/QC samples were transported under chain of custody procedures to Chemtech Laboratories.

Groundwater samples were analyzed for the VOCs using USEPA Method 8260 and SVOCs using USEPA Method 8270 for New York STARS list compounds. The analytical results were compared to New York State Ambient Water Quality Standards as provided in NYSDEC Technical and Operations Guidance Series (TOGS).

Groundwater Sampling Logs are included in Appendices D and E.

3.3.2 Monitoring Well Survey

After the wells were installed and developed, a licensed land surveyor surveyed the top of well casing and top of manhole elevations and provided the horizontal coordinates and elevations of the

monitoring wells. The surveyed measurements were made to the nearest thousandth of a foot. Elevation information is presented in Tables 4 and 5.

3.3.3 Hydrological tests

Slug tests were conducted on four selected boring locations (MW-GF-5, MW-GF-9, MW-GF-14, and MW-GF-26) on April 23, 2007. Wells MW-GF-5 and MW-GF-26 were not originally proposed for this test. Well MW-GF-5 replaced MW-GF-1, which was never installed due to underground obstructions. Well MW-GF-26 replaced MW-GF-20 because it was installed in an existing boring formerly completed by LIRR. Slug test data are provided in Appendix G.

3.4 Waste Disposal

Drill cuttings from soil boring and monitoring well drilling activities and groundwater generated from development and sampling of monitoring wells were containerized into the appropriate U.S. Department of Transportation (DOT) approved 55-gallon drums, labeled, and stored in a staging area designated by the LIRR. Each drum was identified by boring number or well number, date filled, and to the extent possible, the depth interval of the soil contained within. All waste drums will be properly disposed following completion of the second sampling round and documentation will be provided as an addendum to this report once the disposal is completed.

4.0 ANALYTICAL RESULTS

A summary of the laboratory results for each soil and groundwater sample are included on Tables 1 through 3. Laboratory analytical data sheets are included in Appendix F. The soil analytical results are compared to New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objectives (RSCOs) from TAGM 4046 for soil samples collected above 5 feet from the groundwater interface, 40% of RSCO for the soil samples collected 3 to 5 feet above the groundwater interface, and Allowable Soil Concentrations for soil samples collected at or below the groundwater interface. The groundwater analytical results are compared to NYSDEC Technical and Operational Guidance Series (TOGS) Class GA standards.

4.1 Soil Sample Results

All soil sample results are presented in Table 1A (soil collected above five feet from the groundwater interface), Table 1B (soil collected from 3 to 5 feet above the groundwater interface), and Table 1C (soil collected at or below the groundwater interface).

1- Block End

Laboratory results reported non-detect concentrations of VOCs in soil samples GFSB02-20-22 and GFSB02-30-35.

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil samples GFSB04-15-17 and GFSB05-9-11.

Laboratory results reported concentrations of VOCs below 40% of NYSDEC RSCOs in soil samples GFSB04-40-42 and GFSB05-45-47.

Laboratory results reported non-detect concentrations of SVOCs in soil samples GFSB02-20-22, GFSB02-30-35, GFSB04-15-17, GFSB04-40-42, and GFSB05-45-47.

Laboratory results reported concentrations of SVOCs below NYSDEC RSCOs in soil sample GFSB05-9-11.

2- McGurl Building

Laboratory results reported non-detect concentrations of VOCs in soil samples GWSB06-50-52 and GFSB09-45-47.

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil samples GFSB06-40-42, GFSB07-35-37, GFSB08-40-42, GFSB08-45-47, and GFSB09-25-27.

Laboratory results reported concentrations of VOCs below 40% of NYSDEC RSCOs in soil sample GFSB08-45-47.

Laboratory results reported concentrations of VOCs above NYSDEC Allowable Soil Concentrations (ASCs) in soil sample GFSB07-50-52. Naphthalene as detected at 150 ug/kg (RSCO=130 ug/kg). All remaining VOCs were reported below ASCs or as non-detect.

Laboratory results reported concentrations of VOCs below 40% of NYSDEC RSCOs in soil sample GFSB06-40-42.

Laboratory results reported non-detect concentrations of SVOCs in soil sample GFSB09-45-47.

Laboratory results reported concentrations of SVOCs below NYSDEC RSCOs in soil samples GFSB07-35-37 and GFSB08-40-42.

Laboratory results reported concentrations of SVOCs below 40% of NYSDEC RSCOs in soil sample GFSB08-45-47.

Laboratory results reported concentrations of SVOCs below NYSDEC ASCs in soil sample GFSB07-50-52.

Laboratory results reported concentrations of SVOCs above NYSDEC RSCOs in soil sample GFSB09-25-27. Benzo(a)pyrene was detected at 89 ug/kg (RSCO=61 ug/kg). All remaining SVOCs were detected at concentrations below RSCOs or reported as non-detect.

Laboratory results reported concentrations of SVOCs above 40% of NYSDEC RSCOs in soil sample GFSB06-40-42. Benzo(a)anthracene was detected at 340 ug/kg (RSCO=89.6 ug/kg), chrysene at 380 ug/kg (RSCO=160 ug/kg), benzo(b)fluoranthene at 430 ug/kg (RSCO=88 ug/kg), benzo(k)fluoranthene at 170 ug/kg (RSCO=88 ug/kg), and benzo(a)pyrene at 350 ug/kg (RSCO=24.4 ug/kg). All remaining SVOCs were detected below 40% of NYSDEC RSCOs or reported as non-detect.

Laboratory results reported concentrations of SVOCs above NYSDEC ASCs in soil sample GFSB06-50-52. Benzo(b)fluoranthene was detected at 50 ug/kg (RSCO=11 ug/kg). All remaining SVOCs were detected below ASCs or reported as non-detect.

3- Upgradient Background

Laboratory results reported non-detect concentrations for VOCs in soil samples GFSB16-9-11, GFSB17-15-17, and GFSB16-30-32.

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil sample GFSB15-15-17.

Laboratory results reported concentrations of VOCs below 40% of NYSDEC RSCOs in soil samples GFSB15-30-32 and GFSB17-30-32.

Laboratory results reported concentrations of SVOCs below NYSDEC RSCOs in soil sample GFSB15-15-17.

Laboratory results reported non-detect concentrations of SVOCs in soil samples GFSB16-9-11, GFSB17-15-17, GFSB15-30-32, and GFSB17-30-32.

Laboratory results reported GFSB-16-9-11 with a high method detection limit (MDL). According to Chemtech, this sample was diluted 20 times due to matrix viscosity, causing the high MDL.

Soil sample GFSB16-30-32 was not analyzed for SVOCs.

4- Receiving Tracks

Laboratory results reported non-detect concentrations for VOCs in soil sample GFSB13-30-32, GFSB12-45-47, and GFSB13-45-47.

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil samples GFSB12-9-11 and GFSB14-7-9.

Laboratory results reported concentrations of VOCs below NYSDEC ASCs for soil sample GFSB14-45-47.

Laboratory results reported non-detect concentrations for SVOCs in soil samples GFSB12-9-11, GFSB12-45-47, GFSB13-30-32, GFSB13-45-47, GFSB14-7-9, and GFSB14-45-47.

5- Between McGurl Building and Receiving Tracks

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil samples GFSB18-9-11 and GFSB18-45-47.

Laboratory results reported concentrations of SVOCs below NYSDEC RSCOs in soil sample GFSB18-45-47.

Laboratory results reported concentrations of SVOCs above NYSDEC RSCOs in soil sample GFSB18-9-11. Benzo(a)anthracene was detected at 1,200 ug/kg (RSCO=224 ug/kg), chrysene was detected at 1,200 ug/kg (RSCO=400 ug/kg), benzo(b)fluoranthene was detected at 1,900 ug/kg (RSCO=220 ug/kg), benzo(k)fluoranthene was detected at 1,100 ug/kg (RSCO=220 ug/kg), and benzo(a)pyrene at 2,100 ug/kg (RSCO=61 ug/kg). All remaining SVOCs were detected at concentrations below RSCOs or reported as non-detect.

6- Former AOC 1

Laboratory results reported non-detect concentrations for VOCs in soil samples GFSB26-9-11, GFSB26-35-37, GFSB27-7-9, and GFSB27-35-37.

Laboratory results reported non-detect concentrations of SVOCs for NYSDEC RSCOs in soil sample GFSB27-7-9, GFSB26-35-37, and GFSB27-35-37.

Laboratory results reported detections of SVOCs below NYSDEC RSCOs in soil sample GFSB26-9-11.

7- Dunton Tower Area

Laboratory results reported non-detect concentrations of VOCs in soil samples GFSB23-25-27, GFSB21-7-9, GFSB24-15-17, GFSB24-30-32, GFSB22-35-37, and GFSB23-25-27.

Laboratory results reported concentrations of VOCs below NYSDEC RSCOs in soil sample GFSB22-7-9.

Laboratory results reported non-detect concentrations for SVOCs in the soil samples GFSB21-35-37, GFSB24-15-17, GFSB24-30-32, GFSB22-35-37, and GFSB23-25-27.

Laboratory results reported concentrations of SVOCs below NYSDEC RSCOs in soil sample GFSB21-7-9.

Laboratory results reported concentrations of SVOCs above NYSDEC RSCOs in soil sample GFSB22-7-9. Chrysene was detected at 430 ug/kg (RSCO=400 ug/kg). All remaining SVOCs were detected at concentrations below RSCOs or reported as non-detect.

8- Atlantic Avenue

Laboratory results reported non-detect concentrations for VOCs in soil samples GFSB25-5-7 and GFSB25-30-32.

Laboratory results reported non-detect concentrations for SVOCs in soil samples GFSB25-5-7 and GFSB25-30-32.

4.2 Groundwater Sample Results

1- Block End

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs and SVOCs in groundwater samples MW-01, MW-GF-02, MW-GF-04 and MW-GF-05.

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs and SVOCs in groundwater samples MW-01, MW-GF-02, MW-GF-04 and MW-GF-05.

2- McGurl Building

April Groundwater Sampling Event

Free product was measured in MW-GF-18 during the well development event and April groundwater sampling event. The well was not developed and groundwater samples were not collected.

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-06 and MW-GF-09. Laboratory results reported detections of VOCs below NYSDEC Guidance Values in groundwater samples MW-GF-07.

Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample MW-GF-08. Groundwater sample MW-GF-08 exhibited concentrations of isopropylbenzene at 6.5 ug/kg (Guidance Value=5 ug/kg), and n-propylbenzene at 8.3 ug/kg (Guidance Value=5 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-06 and MW-GF-09. Laboratory results reported detections of SVOCs below NYSDEC Guidance Values in groundwater sample MW-GF-07.

Laboratory results reported detections of SVOCs above NYSDEC Guidance Values in groundwater sample MW-GF-08. Groundwater sample MW-GF-08 exhibited concentrations of acenaphthene at 26 ug/kg (Guidance Value=20 ug/kg), phenanthrene at 77 ug/kg (Guidance Value=50 ug/kg) and fluorene at 52 ug/kg (Guidance Value=50 ug/kg).

July Groundwater Sampling Event

MW-GF-18 was not sampled due to the presence of free product recorded during the initial groundwater sampling event.

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-06, MW-GF-07, MW-GF-08 and MW-GF-09.

Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample MW-GF-07 and MW-GF-08. Groundwater sample MW-GF-07 exhibited

concentrations of sec-butylbenzene at 5.5 ug/kg (Guidance Value=5 ug/kg). Groundwater sample MW-GF-08 exhibited concentrations of isopropylbenzene at 7.6 ug/kg (Guidance Value=5 ug/kg), n-propylbenzene at 9 ug/kg (Guidance Value=5 ug/kg), sec-butylbenzene at 5.6 ug/kg (Guidance Value=5 ug/kg) and n-butylbenzene at 5.3 ug/kg (Guidance Value=5 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-06 and MW-GF-09. Laboratory results reported detections of SVOCs below NYSDEC Guidance Values in groundwater samples MW-GF-07 and MW-GF-08.

3- Upgradient Background

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-16 and MW-GF-17. Laboratory results reported detections of VOCs below NYSDEC Guidance Values in groundwater samples MW-GF-15.

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-16 and MW-GF-17. No laboratory results were submitted for MW-GF-15 for SVOCs due accidental breakage of the sample bottle after collection.

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-16 and MW-GF-17.

Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample MW-GF-15. Groundwater sample MW-GF-15 exhibited concentrations of sec-Butylbenzene at 5.9 ug/kg (Guidance Value=5 ug/kg), n-Butylbenzene at 6 ug/kg (Guidance Value=5 ug/kg) and naphthalene at 12ug/kg (Guidance Value=10 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-16 and MW-GF-17. Laboratory results reported detections of SVOCs below NYSDEC Guidance Values in groundwater samples MW-GF-15.

4- Receiving Tracks

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in all of the groundwater samples at the receiving tracks (MW-GF-12, MW-GF-13 and MW-GF-14).

Laboratory results reported non-detect concentrations for SVOCs in all of the groundwater samples at the receiving tracks (MW-GF-12, MW-GF-13 and MW-GF-14).

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in all of the groundwater samples at the receiving tracks (MW-GF-12, MW-GF-13 and MW-GF-14).

Laboratory results reported non-detect concentrations for SVOCs in all of the groundwater samples at the receiving tracks (MW-GF-12, MW-GF-13 and MW-GF-14).

5- Former AOC 1

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in all of the groundwater samples at the receiving tracks (MW-GF-20, MW-GF-26 and MW-GF-27).

Laboratory results reported non-detect concentrations for SVOCs in all of the groundwater samples at the receiving tracks (MW-GF-20, MW-GF-26 and MW-GF-27).

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in all of the groundwater samples at the receiving tracks (MW-GF-20, MW-GF-26 and MW-GF-27).

Laboratory results reported non-detect concentrations for SVOCs in all of the groundwater samples at the receiving tracks (MW-GF-20, MW-GF-26 and MW-GF-27).

6- Dunton Tower Area

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-23, MW-GF-24 and MW-16-60. Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample MW-GF-22. Groundwater sample MW-GF-22 exhibited concentrations of ethylbenzene at 5.9 ug/kg (Guidance Value=5 ug/kg), M & P xylenes at 9 ug/kg (Guidance Value=5 ug/kg), n- propylbenzene at 6.4 ug/kg (Guidance Value=5 ug/kg), 1,3,5- trimethylbenzene at 20 ug/kg (Guidance Value=5 ug/kg), 1,2,4- trimethylbenzene at 52 ug/kg (Guidance Value=5 ug/kg), sec-butylbenzene at 5.3 ug/kg (Guidance Value=5 ug/kg), p-isopropyltoluene at 10 ug/kg (Guidance Value=5 ug/kg), n-butylbenzene at 7.7 ug/kg (Guidance Value=5 ug/kg) and napthalene at 96 ug/kg (Guidance Value=5 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-23, MW-GF-24 and MW-16-60. Laboratory results reported detections of SVOCs above NYSDEC Guidance Values in groundwater sample MW-GF-22. Groundwater sample MW-GF-22 exhibited concentrations of acenaphthene at 300 ug/kg (Guidance Value=20 ug/kg), fluorene at 81 ug/kg (Guidance Value=50 ug/kg), phenanthrene at 170 ug/kg (Guidance Value=50 ug/kg), anthracene at 250 ug/kg (Guidance Value=50 ug/kg) and benzo(a)anthracene at 18 ug/kg (Guidance Value=0.002 ug/kg).

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in groundwater samples MW-GF-23, MW-GF-24 and MW-16-60. Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample MW-GF-22. Groundwater sample MW-GF-

22 exhibited concentrations of 1,2,4-trimethylbenzene at 13 ug/kg (Guidance Value=5 ug/kg), p-isopropyltoluene at 5.9 ug/kg (Guidance Value=5 ug/kg), and naphthalene at 20 ug/kg (Guidance Value=5 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs in groundwater samples MW-GF-23 and MW-GF-24. Laboratory results reported detections of SVOCs below NYSDEC Guidance Values in groundwater samples MW-GF-22 and MW-16-60.

7- Atlantic Avenue

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in the groundwater sample collected at the receiving tracks (MW-GF-25).

Laboratory results reported non-detect concentrations for SVOCs the groundwater sample collected at the receiving tracks (MW-GF-25).

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in the groundwater sample collected at the receiving tracks (MW-GF-25).

Laboratory results reported non-detect concentrations for SVOCs the groundwater sample collected at the receiving tracks (MW-GF-25).

8- Existing Off-Site Monitoring Wells

April Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in the groundwater sample collected at MW-2D-60, MW-3D-60, MW-9-60, MW-10-60 and MW-11-60. Laboratory results reported detections of VOCs above NYSDEC Guidance Values in groundwater sample

MW-15-60. Groundwater sample MW-15-60 exhibited concentrations of benzene at 1.1 ug/kg (Guidance Value=0.7 ug/kg).

Laboratory results reported non-detect concentrations for SVOCs the groundwater sample collected at MW-2D-60, MW-3D-60, MW-9-60, MW-10-60, MW-11-60 and MW-15-60.

July Groundwater Sampling Event

Laboratory results reported non-detect concentrations for VOCs in the groundwater sample collected at MW-2D-60, MW-3D-60, MW-9-60, MW-10-60, MW-11-60 and MW-15-60.

Laboratory results reported non-detect concentrations for SVOCs the groundwater sample collected at MW-2D-60, MW-3D-60, MW-9-60, MW-10-60, MW-11-60 and MW-15-60.

9- Additional Well

July Groundwater Sampling Event (not sampled for April Groundwater Sampling Event)

Laboratory results reported non-detect concentrations for VOCs in the groundwater sample collected at Morris Park (MW-1-60).

Laboratory results reported non-detect concentrations for SVOCs the groundwater sample collected at Morris Park (MW-1-60).

4.4 QA/QC Results

4.4.1 Soil QA/QC Results

The trip blanks submitted for analysis on March 2 and March 27, 2007 reported non-detect concentrations of VOCs.

Field and equipment blanks were collected on March 2 & 27, 2007. VOCs and SVOCs were not detected in either field blanks.

A duplicate soil sample (DUP032707) was collected on March 27, 2007 from soil sample location GFSB21-35-37. The duplicate sample was submitted for VOCs and SVOCs analyses. Sample GFSB21-35-37 reported isopropylbenzene below RSCOs. The DUP032707 sample exhibited non-detect concentrations for VOCs. Therefore the samples exhibited a relative percent difference of greater than 20% for isopropylbenzene. This suggests poor precision of analytical results and the results for isopropylbenzene in GFSB21-35-37 should be considered an estimated value. SVOC results were reported as non-detect in both samples.

Matrix spike (MS) and matrix spike duplicate (MSD) samples were collected on March 2, 2007 from soil sample GFSB16-9-11 and on March 27, 2007 from soil sample GFSB21-30-32. Both samples reported recoveries within limits, therefore matrix interference is not considered to affect the quality of the sample data.

4.4.2 Groundwater QA/QC Results

The trip blanks submitted for analysis on April 12 and July 11, 2007 reported non-detect concentrations of VOCs.

Field and equipment blanks were collected on April 11 and July 11, 2007. VOCs and SVOCs were not detected in either field blanks.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Gannett Fleming Engineers & Architects, P.C. (GF), on behalf of the MTA Long Island Rail Road (LIRR), has prepared this Findings Report for Groundwater Investigation of Petroleum Contamination at Richmond Hill and Morris Park Facilities, Jamaica, New York (Figure 1). The scope of this assignment was to investigate potential on and off-site petroleum impacts to the groundwater due to historic operations and documented spills (consolidated spill #89-08760) at the Richmond Hill and Morris Park facilities. The goal of this investigation is to formulate appropriate recommendations for the supplemental investigation, remediation or monitoring of the sites and obtain spill case closure.

Soil samples were collected at the areas of concern on February 12 through March 27, 2007 during the installation of twenty-one monitoring wells. Groundwater samples were collected at the areas of concern on April 9 through 11, 2007 for the first round and July 7 through 11, 2007 for the second round. The results of the soil and groundwater sampling in reference to each AOC are listed below:

Richmond Hill

1. Storage Yard (Block End)

MW-1, MW-GF-2, MW-GF-4, and MW-GF-5 were installed and soil and groundwater samples were collected. VOCs and SVOCs were reported as non-detect or detected below standards for soil and groundwater. The results of the soil and groundwater samples indicate that impacts to groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

2. Advance Yard

No monitoring wells were proposed for the Advance Yard based on the lack of odors encountered during construction related soil excavation and no observable evidence of stained surface ballast or soils. It should be noted that groundwater data provided by the LIRR for downgradient wells MW-5-60 and MW-12-60 indicates that groundwater contamination does not exist further downgradient.

3. East Fueling Yard

Proposed wells MW-GF-10 and MW-GF-11 could not be installed due to underground utility and structures posing potential hazards. On March 24th, GF and ADT attempted to hand clear at the proposed location of MW-GF-10. Rebar was encountered at four feet below ground surface. The drilling location was shifted east to an area where asphalt was present. Gravel was present below the asphalt and the hand cleared hole continually collapsed. A Vactron unit was then used while hand clearing the boring location. At approximately 3.5 feet below grade, a slab or metal plate was encountered. Due to the interference of the reinforced concrete and unknown slab, it was unclear whether underground utilities were present. At this point, the boring location was abandoned. Alternative locations will need to be identified to advance borings and install monitoring wells in this area.

4. Receiving Yard (Receiving Tracks)

MW-GF-12, MW-GF-13 and MW-GF-14 were installed and soil and groundwater samples were collected. VOCs and SVOCs were reported as non-detect or detected below standards for soil and groundwater. The results of the soil and groundwater samples indicate that impacts to groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

5. Yard Interlocking Area/Employee Facility/Retaining Wall (McGurl Building, Between McGurl Building and Receiving Tracks, and Upgradient Background)

Soil samples results reported VOC concentrations below RSCOs. All soil sample results reported SVOC concentrations below standards except for three boring locations: MW-

GF-06, MW-GF-09 and MW-GF-18. Free floating petroleum product was observed in MW-GF-18, therefore a groundwater sample was not collected. Groundwater sample results reported non-detect or below guidance value concentrations for VOCs and SVOCs in all samples except for MW-GF-8. Therefore supplemental investigation is warranted in the area adjacent to the McGurl Building and between the McGurl Building and Receiving Tracks. It should be noted that groundwater data provided by the LIRR for wells MW-5-60 and MW-12-60 indicates that groundwater contamination does not exist downgradient.

Morris Park:

1. Dunton Tower Area

MW-GF-21, MW-GF-22, MW-GF-23 and MW-GF-24 were installed and soil and groundwater samples were collected. VOCs and SVOCs were reported as either non-detect or detected below standards in the soil and groundwater samples associated with MW-GF-21, MW-GF-23, and MW-GF-24. Results for the soil samples MW-GF-22 were reported as non-detect or detected below RSCOs. Groundwater analytical results were reported above Guidance Values for VOCs and SVOCs for groundwater sample MW-GF-22. Therefore, supplemental investigation is warranted southwest of the new sand tower.

2. Former Gasoline Fuel Depot (Former AOC 1)

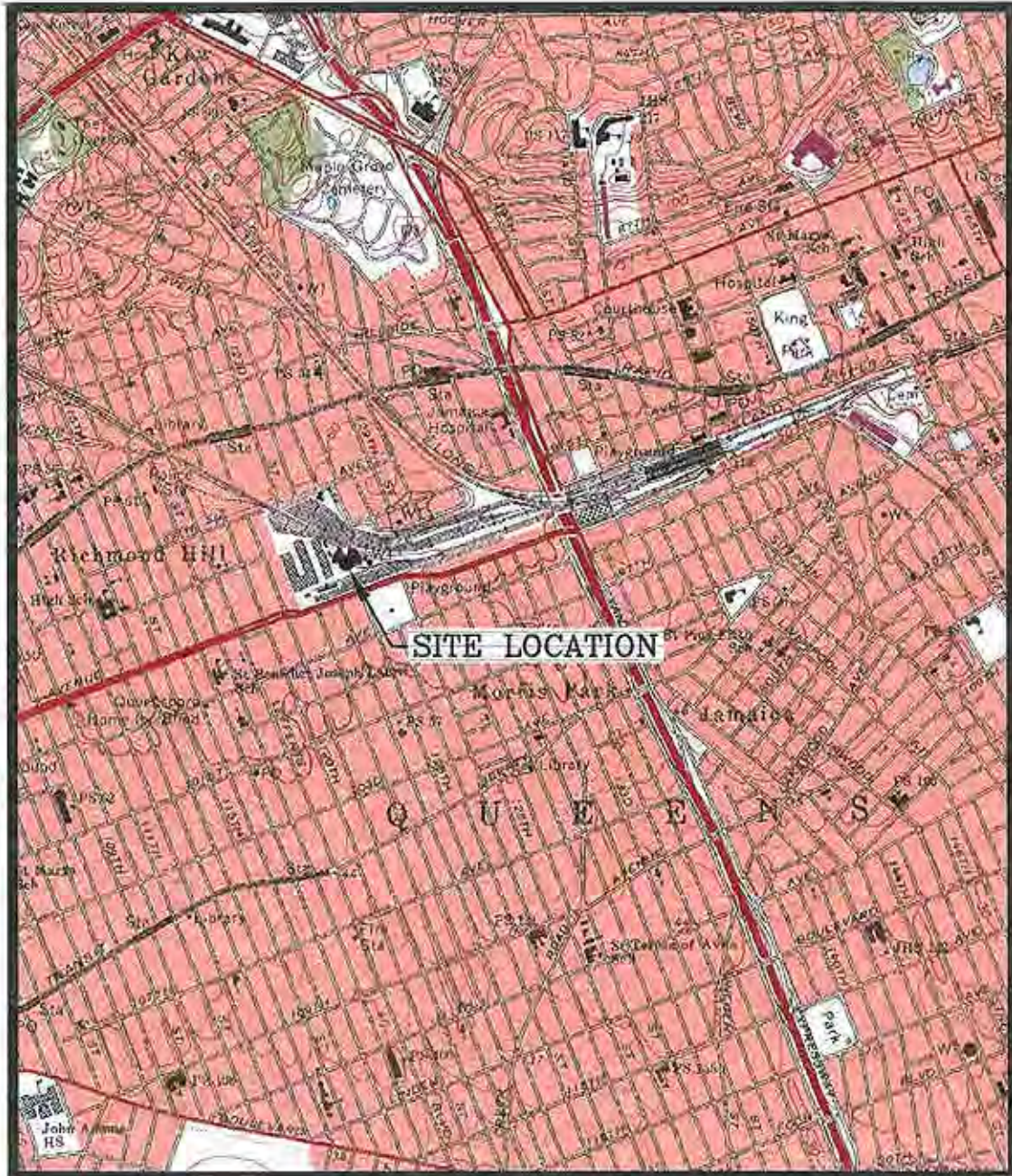
MW-GF-20, MW-GF-26 and MW-GF-27 were installed and soil and groundwater samples were collected. VOCs and SVOCs were reported as non-detect or detected below standards for soil and groundwater. The results of the soil and groundwater samples indicate that impacts to groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

3. Off-Site Petroleum Contamination from Dunton Tower (Atlantic Avenue)

MW-GF-25 was installed and soil and groundwater samples were collected. VOCs and SVOCs were reported as non-detect or detected below standards for soil and groundwater. The results of the soil and groundwater samples indicate that impacts to groundwater are below NYSDEC guidelines. Supplemental investigation, remedial action, and monitoring are not recommended in this area.

Although, groundwater sample MW-15-60 (located south of the turntable) exhibited concentrations of VOCs above Guidance Values, this location is within the Bioventing, Bioamendment and Product Recovery Systems currently being installed at Morris Park. The drawings of these systems are provided in Appendix I.

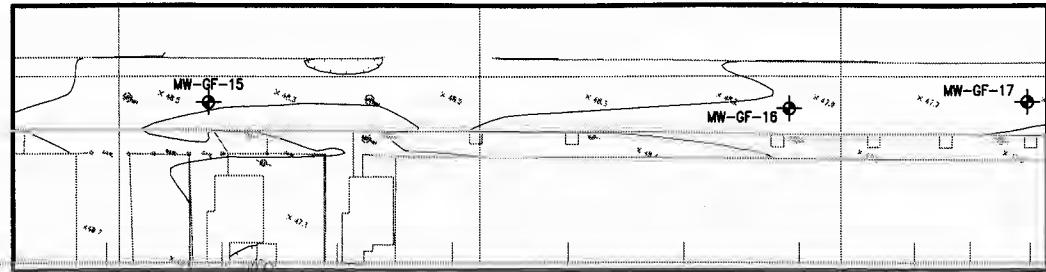
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RICHMOND HILL, NEW YORK**



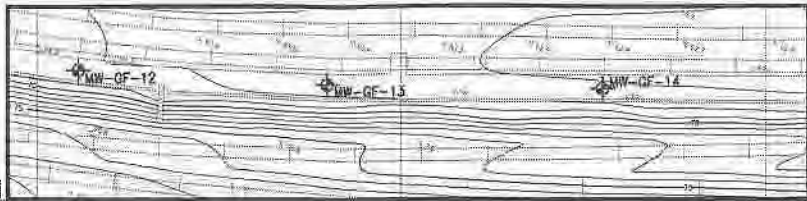
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U.S.G.S. 7.5 MINUTE QUADRANGLE
JAMAICA, NEW YORK

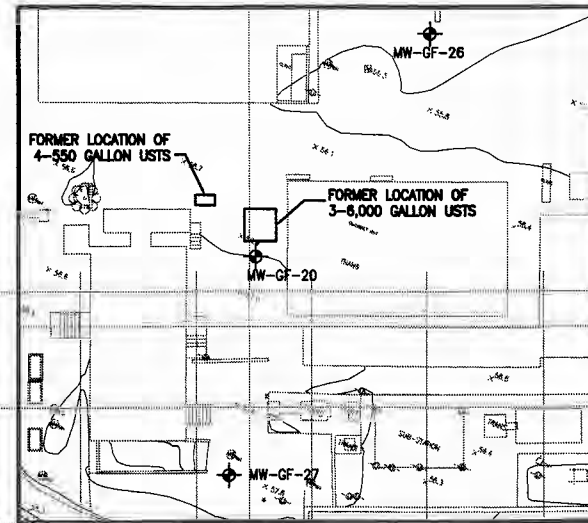
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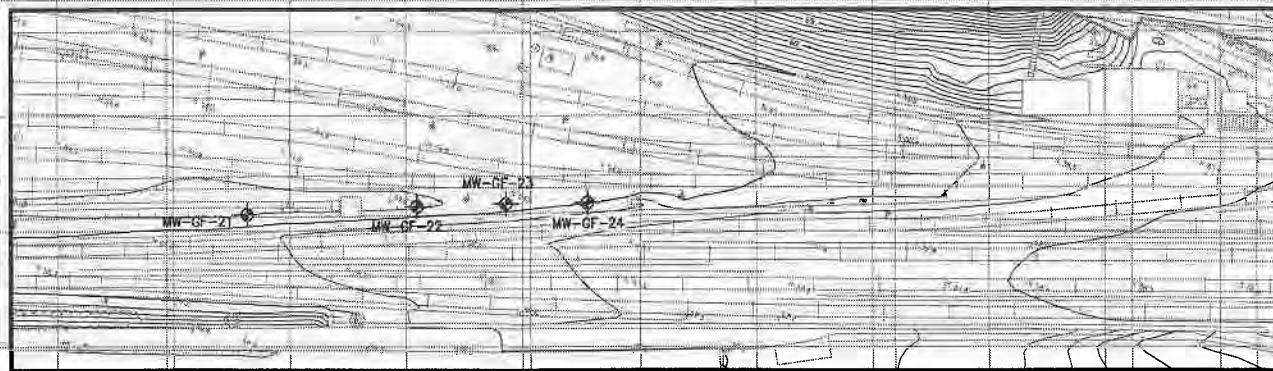
4 UPGRADE BACKGROUND
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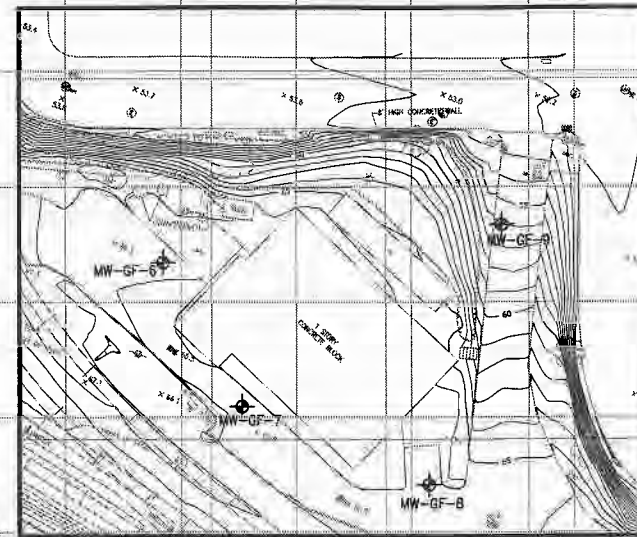
6 RECEIVING TRACKS
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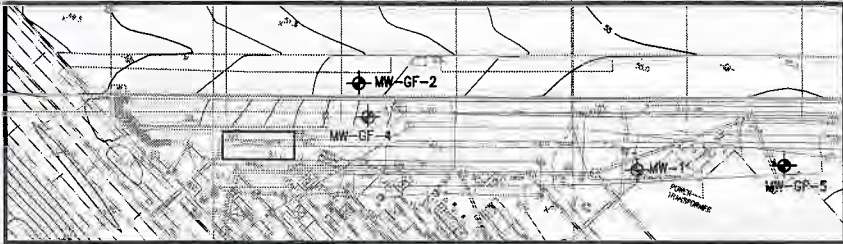
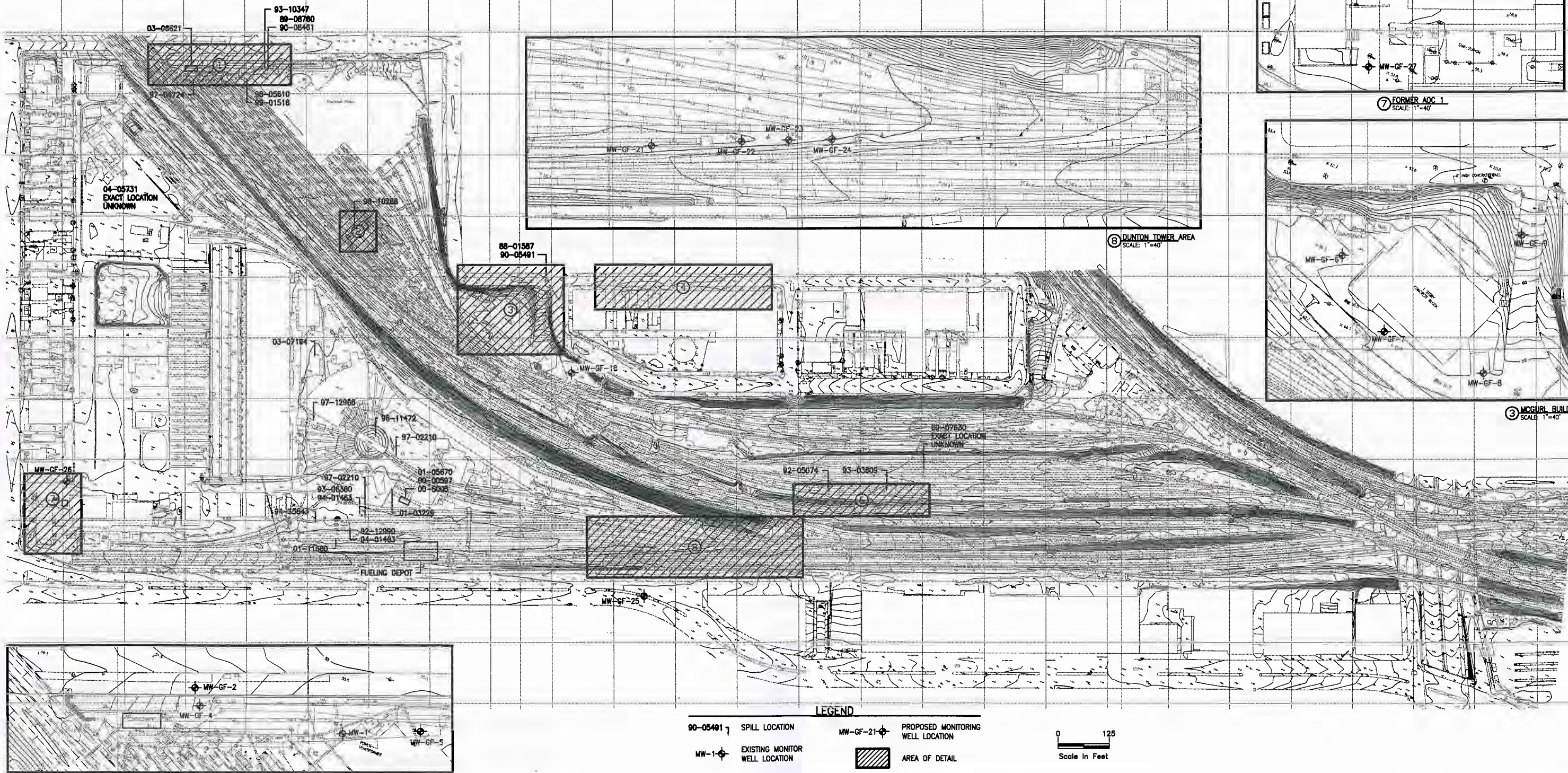
7 FORMER AOC 1
SCALE: 1"=40'



8 DUNTON TOWER AREA
SCALE: 1"=40'



3 MCGUIRE BUILDING
SCALE: 1"=40'



1 BLOCK END
SCALE: 1"=40'

LEGEND

- 90-05491 7 SPILL LOCATION
- MW-1 6 EXISTING MONITOR WELL LOCATION
- MW-GF-21 6 PROPOSED MONITORING WELL LOCATION
- [Hatched Box] AREA OF DETAIL



02/21/06 3:30pm FILE: K:\PROJECTS\45007\45007\FIGURE 3-SPILL LOC & WELLS REVISED 01/07/06.dwg by LAMSON XREF: none

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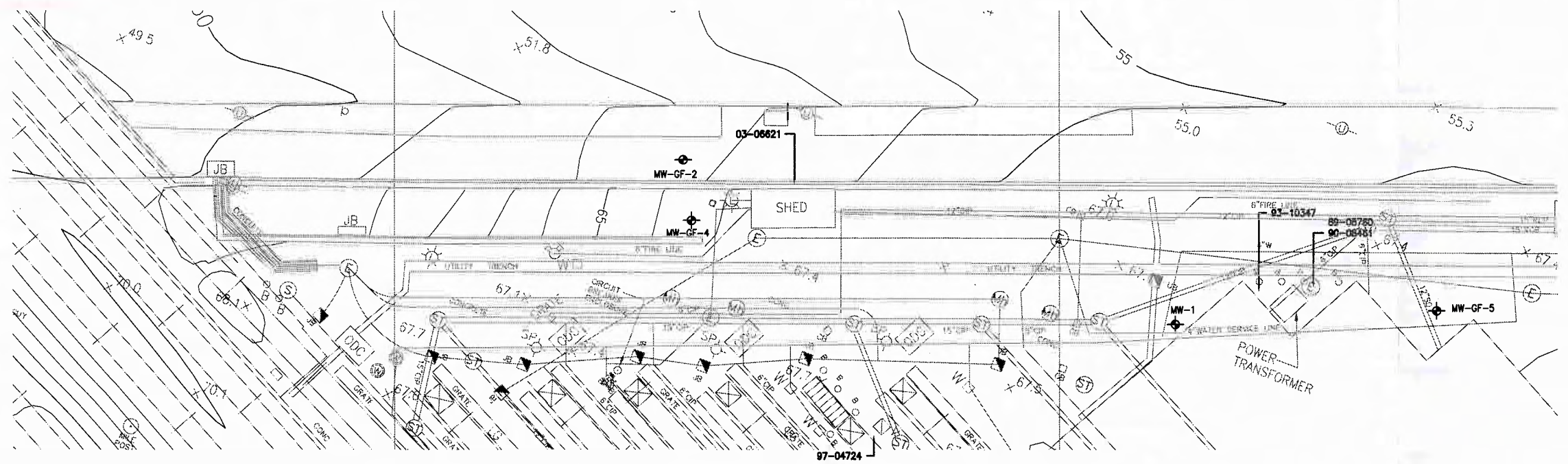
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TITLE: **SITE PLAN
SPILL LOCATIONS &
MONITORING WELL LOCATIONS
(INSTALLED 2007)**

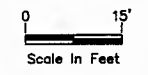
SHEET No. **FIG-3**



1-BLOCK END

LEGEND

- 90-05401 - SPILL LOCATION
- MW-GF-4 - PROPOSED MONITORING WELL LOCATION
- MW-1 - EXISTING MONITOR WELL LOCATION



11/06/07 3:59pm FILE: K:\PROJECTS\45000A\45000A\02\FIGURE 3A-SPILL LOC & WELLS REVISED 0707.dwg by LMASON REF FILE = NONE

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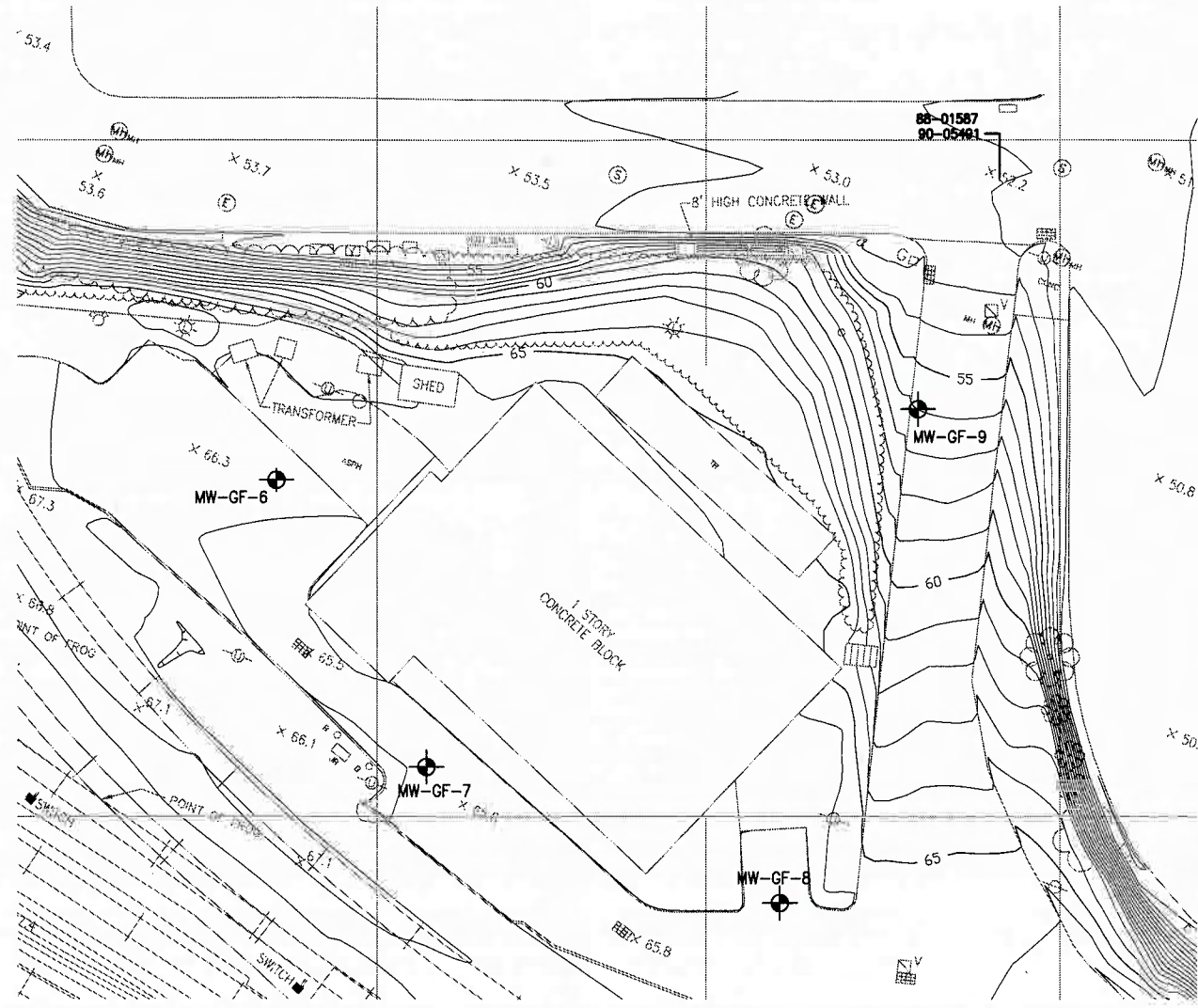
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SHEET No.
FIG-3A



3-MCGURL BUILDING

LEGEND

90-054017 SPILL LOCATION MW-GF-6 PROPOSED MONITORING WELL LOCATION



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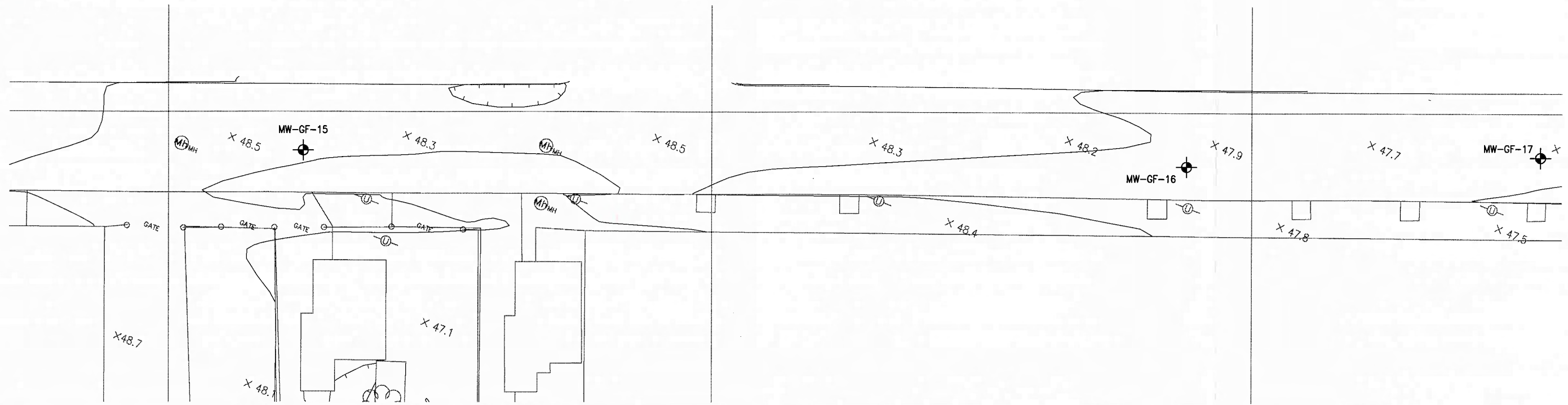
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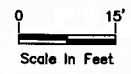
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SHEET No.
FIG-3B

11/06/07 4:03pm FILE: K:\PROJECTS\450005\001\002\FIGURE_3B-SPILL_LOC & MWELLS REVISED 0707.dwg by LAMSON DREF FILE = NONE



4-UPGRADIENT BACKGROUND



LEGEND
 MW-GF-15 PROPOSED MONITORING WELL LOCATION

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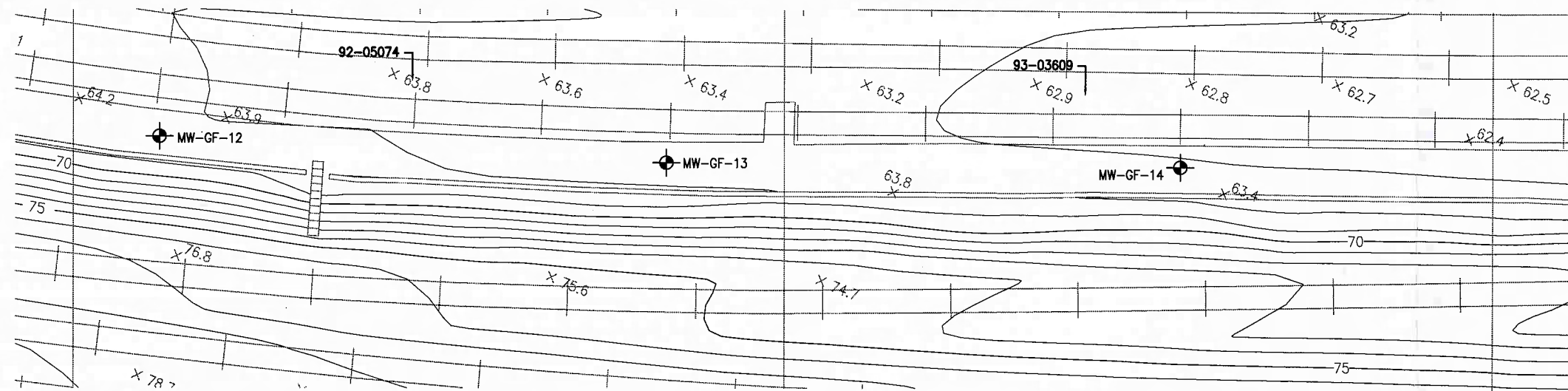
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SHEET No. **FIG-3C**

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6-RECEIVING TRACKS



LEGEND

- 90-05401 SPILL LOCATION
- MW-GF-12 PROPOSED MONITORING WELL LOCATION

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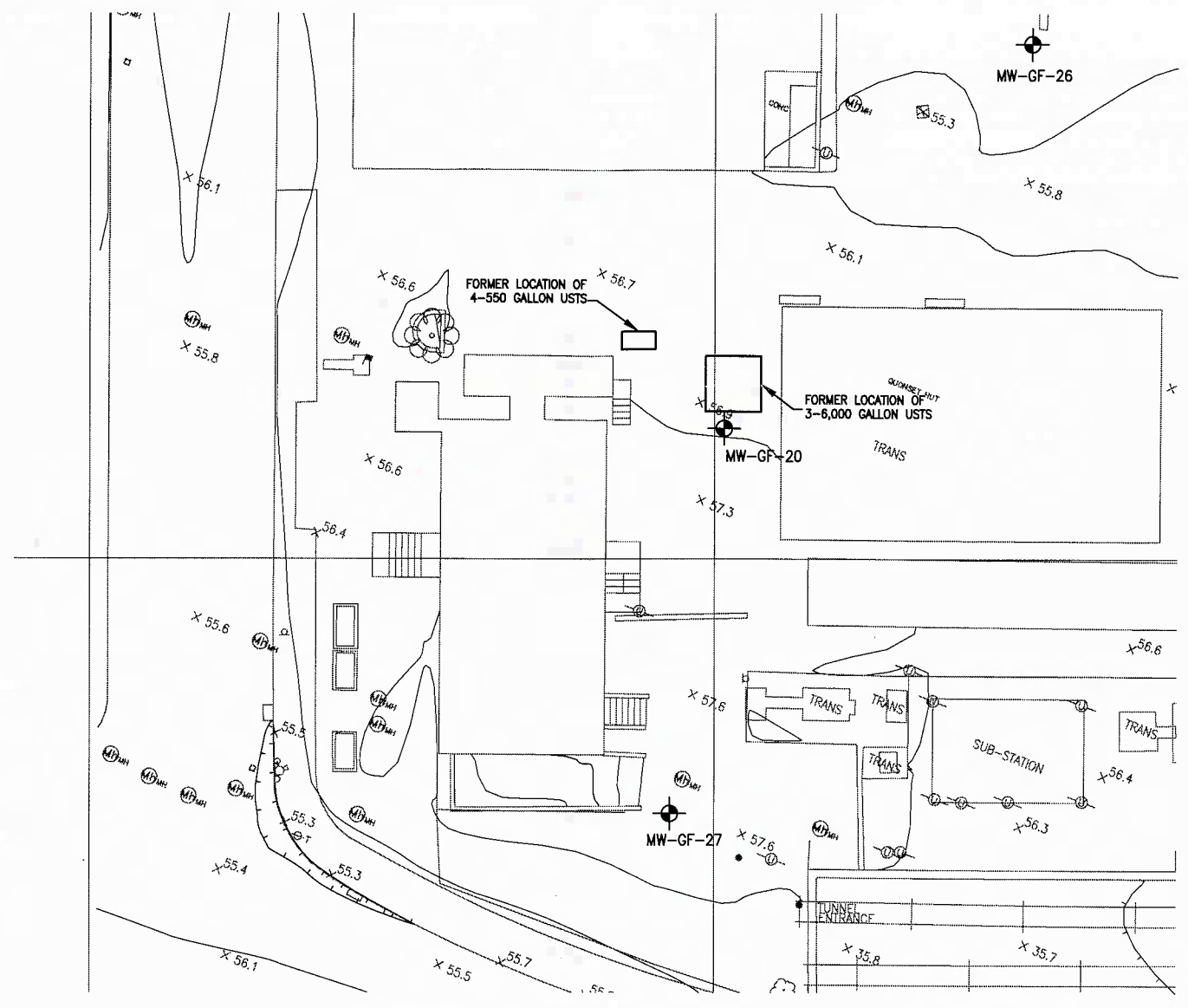
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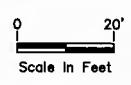
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SHEET No.
FIG-3D

1/12/07 2:30pm FILE: K:\PROJECTS\90001\45813\001\FIGURE 3D-SPILL LOC & WELLS REVISED 8/17/06.dwg BY: LAMSON XREF FILE = NONE



7--FORMER AOC 1



LEGEND
 MW-GF-27 PROPOSED MONITORING WELL LOCATION

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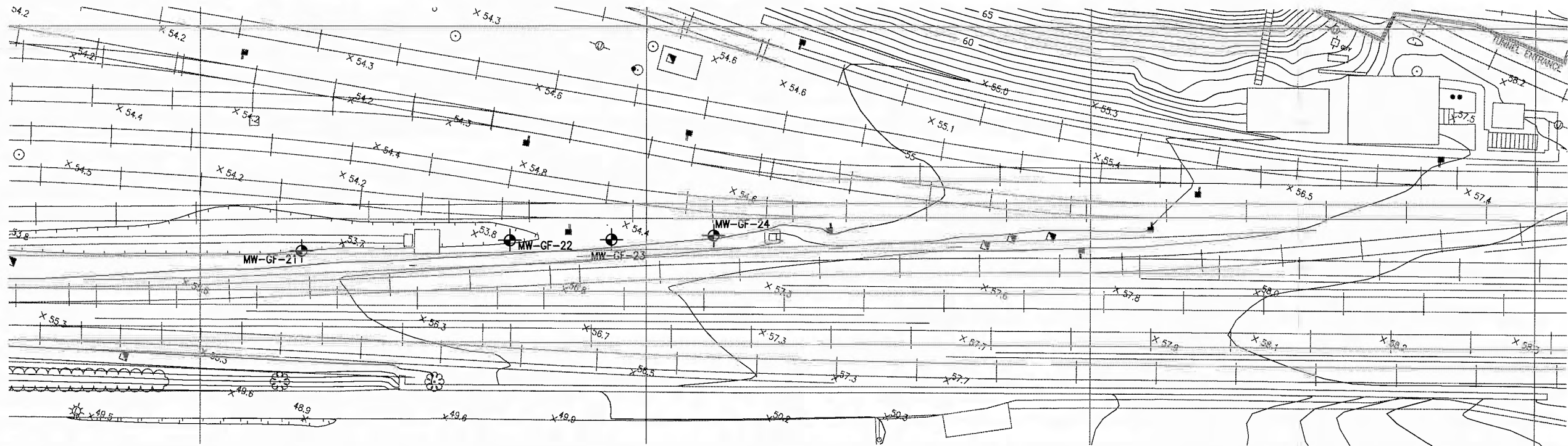


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SHEET No.
FIG-3E

02/21/08 3:26pm FILE: K:\PROJECTS\45813\DOCS\FIGURE 3E-SPILL LOC & WELLS REVISED 0707.dwg by MASON XREF=000007



8 - DUNTON TOWER AREA



LEGEND

MW-GF-21 PROPOSED MONITORING WELL LOCATION

1/12/07 2:56pm FILE: K:\PROJECTS\66066\66066\DWG\FIGURE 3F-SPILL.LOC & WELLS REVISED 5/17/07.dwg by: LAMSON XREF FILE = NONE

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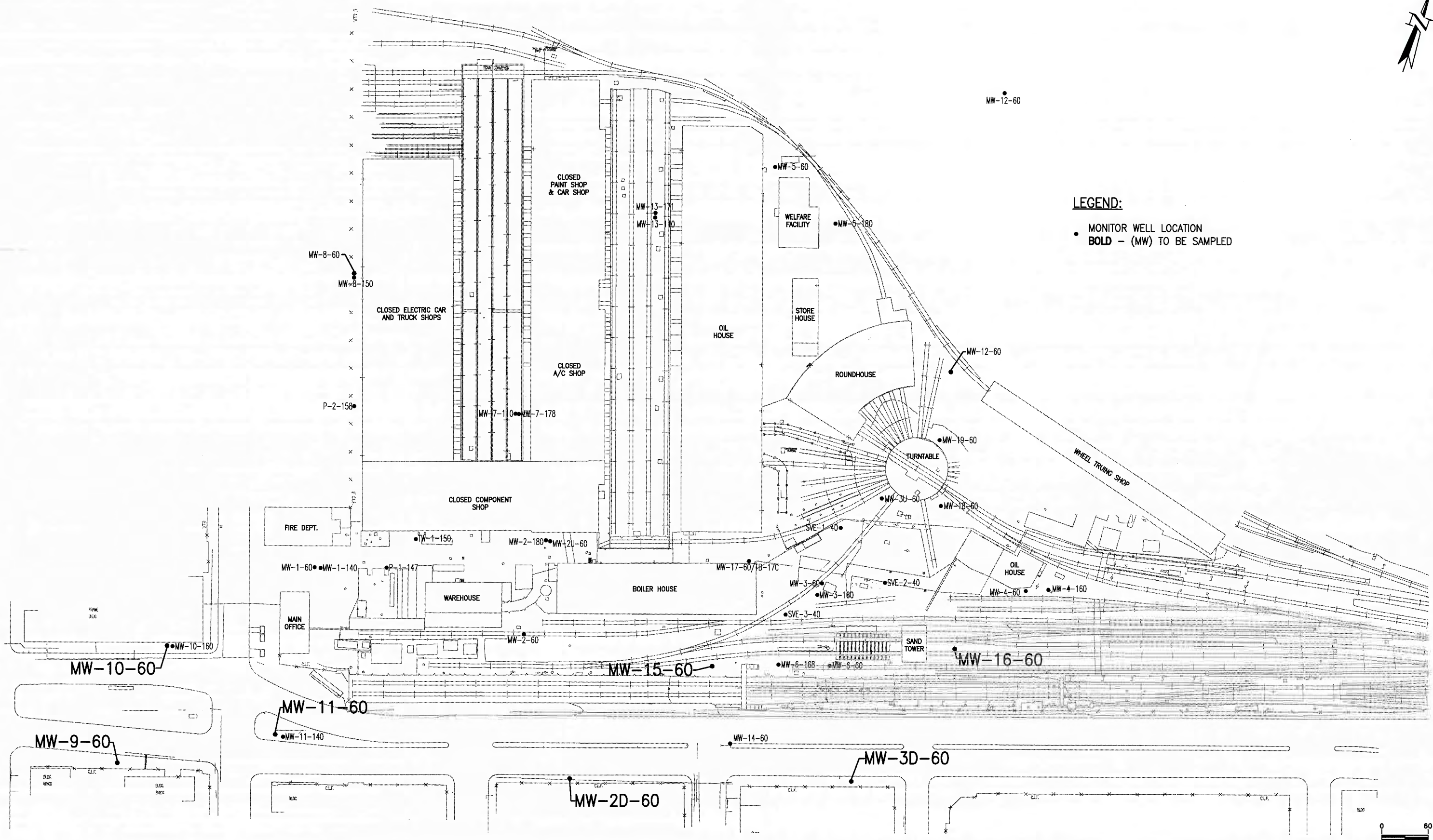


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SHEET No.
FIG-3F



LEGEND:
 ● MONITOR WELL LOCATION
 ● BOLD - (MW) TO BE SAMPLED

07/30/07 8:15am FILE: 45000A\0813\02\FIGURE 3-SITE PLAN EX.MWDwg by JAMSON XREF FILE = NONE

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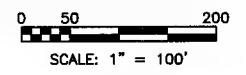
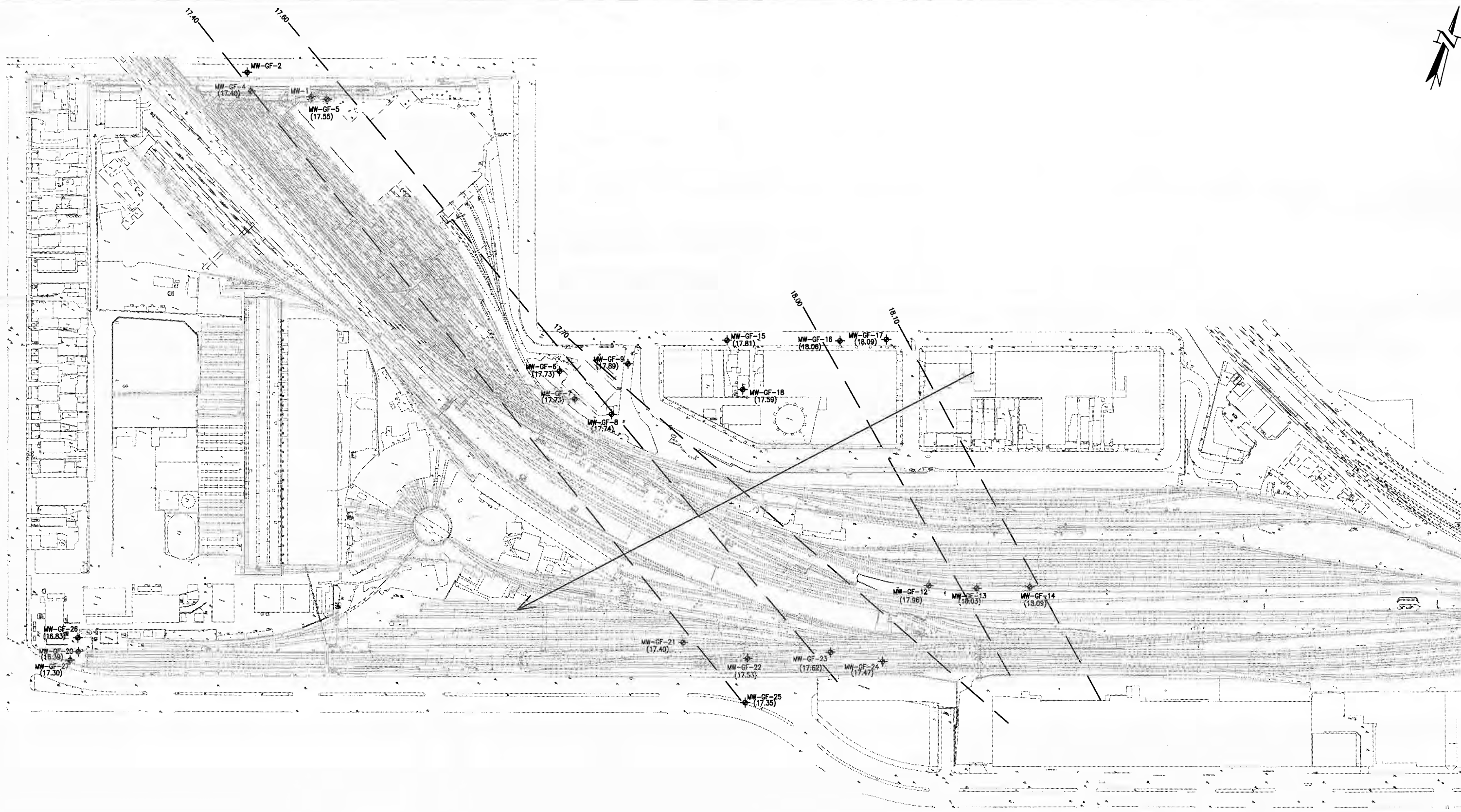
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TITLE
SITE PLAN OF EXISTING MONITORING WELL LOCATIONS

SHEET No.
FIG-4



LEGEND

MW-GF-21	MONITORING WELL LOCATION
(18.09)	GROUNDWATER ELEVATION
→	GROUNDWATER FLOW DIRECTION

D:\2007\10-06-06am FILE-45813\10-06-06am\2007\FIGURE 5.dwg by LAMSON: 08/07 FILE = NONE

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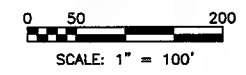
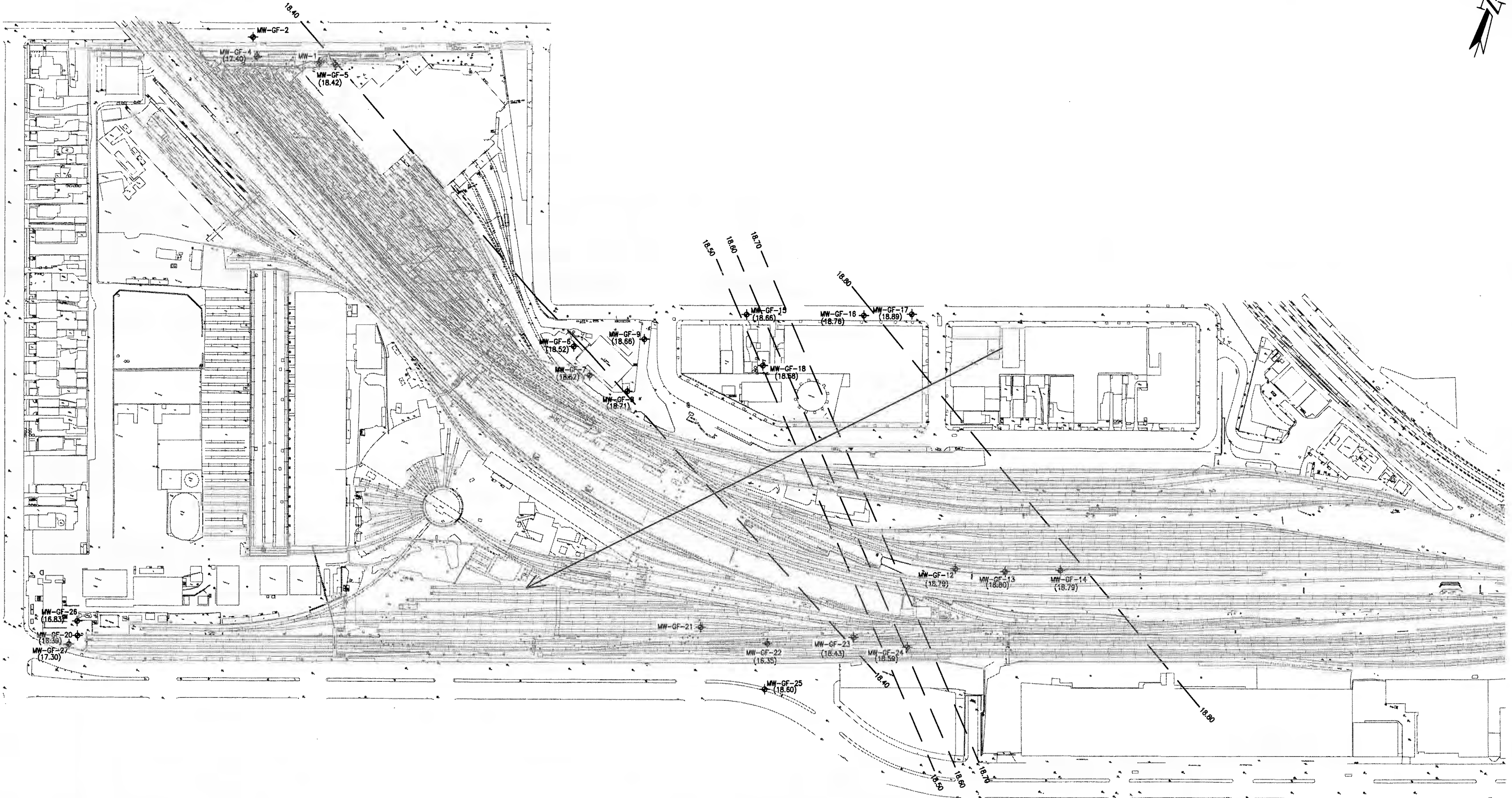
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TITLE **GROUNDWATER CONTOUR MAP**
 APRIL 2007

SHEET No. **FIG-5**



LEGEND

	MW-GF-21	MONITORING WELL LOCATION
(18.09)		GROUNDWATER ELEVATION
		GROUNDWATER FLOW DIRECTION

06/21/07 10:23am FILE: K:\PROJECTS\10000\4813\02\Figure 5.dwg by LAMSON XREF FILE - NONE

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TITLE
GROUNDWATER CONTOUR MAP
JULY 2007

SHEET No.
FIG-6

TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB02-20-22	GFSB04-15-17	GFSB05-9-11	GFSB07-35-37	GFSB08-40-42	GFSB09-25-27	GFSB12-9-11
SAMPLE DEPTH (BGS):		20-22	15-17	9-11	35-37	40-42	25-27	9-11
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/14/2027	3/12/2007	2/28/2007	2/13/2007	2/15/2007	2/14/2007	2/19/2007
VOCs (ppb) - EPA Method 8260								
Benzene	60 or MDL	2.4 U	2.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.2 U
Toluene	1,500	2.5 U	2.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.2 U
Ethylbenzene	5,500	2.2 U	1.9 U	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U
M&P-Xylenes ¹	1,200	5.3 U	4.7 U	4.6 U	4.5 U	6.1 J	4.5 U	4.7 U
O-Xylene ¹	1,200	2.3 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1 U
TOTAL BTEX	--	ND	ND	ND	ND	6.1	ND	ND
Isopropylbenzene	2,300	2.5 U	2.3 U	2.2 U	2.2 U	22 J	2.2 U	2.3 U
n-Propylbenzene	3,700	3.3 U	2.9 U	2.8 U	18.0 J	29	2.8 U	2.9 U
1,3,5-Trimethylbenzene	3,300	3.0 U	6.3 J	9.4 J	2.6 U	2.6 U	2.6 U	2.7 U
1,2,4-Trimethylbenzene	10,000	2.3 U	2.1 U	32	140	2.0 U	3.7 U	2.1 U
sec-Butylbenzene	10,000	2.5 U	2.3 U	2.2 U	270	370	2.0 U	2.3 U
p-Isopropyltoluene	10,000	2.6 U	2.3 U	7.5 J	160	2.2 U	6.5 J	2.3 U
n-Butylbenzene	10,000	2.1 U	8.0 J	8.8 J	280	490	1.8 U	1.8 U
tert-Butylbenzene	10,000	4.4 U	3.9 U	3.8 U	24 J	35	3.7 U	3.9 U
Naphthalene (v)	13,000	3.6 U	25 U	28	5000 D	3.1 U	3.1 U	6.4 J
Methyl tert-butyl ether (MTBE) ²	120	2.2 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	2.0
TOTAL VOCs	--	ND	14.3	85.7	5,892	946	6.5	8.4

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

**TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)**

**LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK**

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB02-20-22	GFSB04-15-17	GFSB05-9-11	GFSB07-35-37	GFSB08-40-42	GFSB09-25-27	GFSB12-9-11
SAMPLE DEPTH (BGS):		20-22	15-17	9-11	35-37	40-42	25-27	9-11
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/14/2027	3/12/2007	2/28/2007	2/13/2007	2/15/2007	2/14/2007	2/19/2007
<i>PAHs (ppb) - EPA Method 8270</i>								
Naphthalene	13,000	68 U	62 U	60 U	2,500	61 U	60 U	61 U
Acenaphthene	50,000	71 U	65 U	63 U	130 U	64 U	62 U	64 U
Fluorene	50,000	68 U	62 U	60 U	1,400	60 U	59 U	60 U
Phenanthrene	50,000	64 U	58 U	140 J	2,700	6,700 D	260 J	57 U
Anthracene	50,000	60 U	55 U	53 U	360 J	880	58 J	54 U
Fluoranthene	50,000	60 U	54 U	53 U	120 J	360	220 J	53 U
Pyrene	50,000	71 U	65 U	63 J	330 J	360	200 J	63 U
Benzo(a)anthracene	224 or MDL	56 U	51 U	50 U	99 U	50 U	91 J	50 U
Chrysene	400	72 U	66 U	64 U	130 U	64 U	91 J	64 U
Benzo(b)fluoranthene	220 or MDL	44 U	40 U	39 U	78 U	44 J	100 J	39 U
Benzo(k)fluoranthene	220 or MDL	88 U	80 U	78 U	160 U	79 U	77 U	79 U
Benzo(a)pyrene	61 or MDL	64 U	58 U	57 U	110 U	57 U	89 J	57 U
Indeno(1,2,3-cd)pyrene	3,200	51 U	46 U	45 U	90 U	45 U	44 U	46 U
Dibenzo(a,h)anthracene	14.3 or MDL	50 U	46 U	44 U	89 U	45 U	44 U	45 U
Benzo(ghi)perylene	50,000	66 U	60 U	59 U	120 U	59 U	58 U	59 U
TOTAL PAHs	--	ND	ND	203	7,410	8,344	1,109	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes
 2-Guidance value for MTBE is for gasoline contaminated soil
 Samples analyzed by CHEMTECH of Mountainside, NJ
 Results reported on a dry weight basis
 Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB13-30-32	GFSB14-7-9	GFSB15-15-17	GFSB16-9-11	GFSB17-15-17	GFSB18-9-11	GFSB21-7-9
SAMPLE DEPTH (BGS):		30-32	7-9	15-17	9-11	15-17	9-11	7-9
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		2/20/2007	2/20/2007	3/1/2007	3/2/2007	3/2/2007	3/13/2007	3/27/2007
VOCs (ppb) - EPA Method 8260								
Benzene	60 or MDL	2.1 U	2.1 U	2.1 U	2.2 U	2.2 U	2.1 U	2.1 U
Toluene	1,500	2.2 U	2.1 U	2.2 U	2.3 U	2.2 U	2.1 U	2.1 U
Ethylbenzene	5,500	1.9 U	1.8 U	1.9 U	2.0 U	1.9 U	1.9 U	1.8 U
M&P-Xylenes ¹	1,200	4.6 U	4.5 U	4.6 U	4.9 U	4.7 U	4.6 U	4.5 U
O-Xylene ¹	1,200	2.1 U	2.0 U	2.0 U	2.2 U	2.1 U	2.0 U	2.0 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	2.2 U	2.1 U	2.2 U	2.3 U	2.2 U	2.2 U	2.1 U
n-Propylbenzene	3,700	2.9 U	2.8 U	2.9 U	3.0 U	2.9 U	2.8 U	2.8 U
1,3,5-Trimethylbenzene	3,300	2.7 U	2.6 U	2.6 U	2.8 U	2.7 U	7.8 J	2.5 U
1,2,4-Trimethylbenzene	10,000	2.0 U	7.4 J	9.1 U	2.1 U	2.0 U	10 J	2.0 U
sec-Butylbenzene	10,000	2.2 U	2.2 U	26 J	2.3 U	2.3 U	2.2 U	2.2 U
p-Isopropyltoluene	10,000	2.3 U	2.2 U	7.4 J	2.4 U	2.3 U	18 J	2.2 U
n-Butylbenzene	10,000	1.8 U	1.7 U	24 J	1.9 U	1.8 U	1.8 U	1.7 U
tert-Butylbenzene	10,000	3.8 U	3.7 U	3.8 U	4.0 U	3.9 U	3.8 U	3.7 U
Naphthalene (v)	13,000	3.1 U	20.0 J	56	3.3 U	3.2 U	3.1 U	3.0 U
Methyl tert-butyl ether (MTBE) ²	120	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U	1.9 U	1.9 U
TOTAL VOCs	--	ND	27.4	113.4	ND	ND	35.8	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

**TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)**

**LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK**

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB13-30-32	GFSB14-7-9	GFSB15-15-17	GFSB16-9-11	GFSB17-15-17	GFSB18-9-11	GFSB21-7-9
SAMPLE DEPTH (BGS):		30-32	7-9	15-17	9-11	15-17	9-11	7-9
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		2/20/2007	2/20/2007	3/1/2007	3/2/2007	3/2/2007	3/13/2007	3/27/2007
<i>PAHs (ppb) - EPA Method 8270</i>								
Naphthalene	13,000	60 U	60 U	60 U	1,300 U	63 U	420	59 U
Acenaphthene	50,000	62 U	62 U	62 U	1,300 U	65 U	420	61 U
Fluorene	50,000	59 U	59 U	59 U	1,300 U	62 U	400	58 U
Phenanthrene	50,000	56 U	56 U	350 J	1,200 U	58 U	2,900 D	55 U
Anthracene	50,000	53 U	53 U	69 J	100 U	55 U	950	52 U
Fluoranthene	50,000	52 U	52 U	69 J	1,100 U	55 U	2,700 D	51 U
Pyrene	50,000	62 U	62 U	120 J	1,300 U	65 U	2,600 D	110 J
Benzo(a)anthracene	224 or MDL	49 U	49 U	49 U	1,000 U	51 U	1,200	48 U
Chrysene	400	63 U	63 U	63 U	1,300 U	66 U	1,200	62 U
Benzo(b)fluoranthene	220 or MDL	39 U	38 U	45 J	820 U	40 U	1,900 D	38 U
Benzo(k)fluoranthene	220 or MDL	77 U	77 U	77 U	1,600 U	81 U	1,100	76 U
Benzo(a)pyrene	61 or MDL	56 U	56 U	56 U	1,200 U	59 U	2,100	55 U
Indeno(1,2,3-cd)pyrene	3,200	44 U	44 U	45 U	940 U	47 U	49 J	44 U
Dibenzo(a,h)anthracene	14.3 or MDL	44 U	44 U	44 U	930 U	46 U	45 U	43 U
Benzo(ghi)perylene	50,000	58 U	58 U	58 U	1,200 U	61 U	330 J	57 U
TOTAL PAHs	--	ND	ND	653	ND	ND	18,269	110

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB22-7-9	GFSB23-25-27	GFSB24-15-17	GFSB25-5-7	GFSB26-9-11	GFSB27-7-9
SAMPLE DEPTH (BGS):		7-9	25-27	15-17	5-7	9-11	7-9
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/26/2007	3/23/2007	3/22/2007	3/5/2007	3/20/2007	3/21/2007
VOCs (ppb) - EPA Method 8260							
Benzene	60 or MDL	2.5 U	2.1 U	2.3 U	2.3 U	2.1 U	2.1 U
Toluene	1,500	42	2.1 U	2.3 U	2.3 U	2.2 U	2.1 U
Ethylbenzene	5,500	20 J	1.8 U	2.0 U	2.0 U	1.9 U	1.8 U
M&P-Xylenes ¹	1,200	88	4.5 U	5.0 U	5.0 U	4.6 U	4.5 U
O-Xylene ¹	1,200	34	2.0 U	2.2 U	2.2 U	2.0 U	2.0 U
TOTAL BTEX	--	184	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	2.6 U	2.2 U	2.4 U	2.4 U	2.2 U	2.1 U
n-Propylbenzene	3,700	19 J	2.8 U	3.1 U	3.1 U	2.9 U	2.8 U
1,3,5-Trimethylbenzene	3,300	61	2.6 U	2.8 U	2.8 U	2.6 U	2.6 U
1,2,4-Trimethylbenzene	10,000	160	2.0 U	4.1 U	2.2 U	2.0 U	2.0 U
sec-Butylbenzene	10,000	2.6 U	2.2 U	2.2 U	2.4 U	2.2 U	2.2 U
p-Isopropyltoluene	10,000	2.7 U	2.2 U	2.4 U	2.4 U	2.3 U	2.2 U
n-Butylbenzene	10,000	2.1 U	1.8 U	1.9 U	1.9 U	1.8 U	1.7 U
tert-Butylbenzene	10,000	4.5 U	3.7 U	4.1 U	34.1 U	3.8 U	3.7 U
Naphthalene (v)	13,000	3.7 U	3.1 U	3.4 U	3.4 U	3.1 U	3.0 U
Methyl tert-butyl ether (MTBE) ²	120	2.3 U	1.9 U	2.1 U	2.1 U	2.0 U	1.9 U
TOTAL VOCs	--	240	ND	ND	ND	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

**TABLE 1A
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED FIVE FEET ABOVE THE GROUNDWATER INTERFACE)**

**LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK**

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives	GFSB22-7-9	GFSB23-25-27	GFSB24-15-17	GFSB25-5-7	GFSB26-9-11	GFSB27-7-9
SAMPLE DEPTH (BGS):		7-9	25-27	15-17	5-7	9-11	7-9
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/26/2007	3/23/2007	3/22/2007	3/5/2007	3/20/2007	3/21/2007
<i>PAHs (ppb) - EPA Method 8270</i>							
Naphthalene	13,000	140 J	60 U	64 U	65 U	60 U	60 U
Acenaphthene	50,000	75 U	62 U	67 U	67 U	62 U	62 U
Fluorene	50,000	71 U	59 U	64 U	64 U	59 U	59 U
Phenanthrene	50,000	200 J	56 U	60 U	60 U	71 J	56 U
Anthracene	50,000	64 U	53 U	57 U	57 U	53 U	53 U
Fluoranthene	50,000	61 U	52 U	56 U	56 U	52 U	52 U
Pyrene	50,000	84 J	62 U	67 U	67 U	63 J	62 U
Benzo(a)anthracene	224 or MDL	59 U	49 U	53 U	53 U	49 U	49 U
Chrysene	400	430 J	63 U	68 U	68 U	63 U	63 U
Benzo(b)fluoranthene	220 or MDL	78 J	39 U	41 U	42 U	39 U	38 U
Benzo(k)fluoranthene	220 or MDL	93 U	77 U	83 U	83 U	77 U	77 U
Benzo(a)pyrene	61 or MDL	67 U	56 U	60 U	61 U	56 U	56 U
Indeno(1,2,3-cd)pyrene	3,200	54 U	44 U	48 U	48 U	45 U	44 U
Dibenzo(a,h)anthracene	14.3 or MDL	43 U	44 U	47 U	47 U	44 U	44 U
Benzo(ghi)perylene	50,000	70 U	58 U	62 U	63 U	58 U	58 U
TOTAL PAHs	--	932	ND	ND	ND	134	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

TABLE 1B
SOIL SAMPLE ANALYTICAL RESULTS
(3 TO 5 FEET ABOVE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives (40%)	GFSB02-30-35	GFSB04-40-42	GFSB05-45-47	GFSB06-40-42	GFSB08-45-47	GFSB12-45-47	GFSB15-30-32
SAMPLE DEPTH (BGS):		30-35	40-42	45-47	40-42	45-47	45-47	30-32
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/14/2027	3/12/2007	2/28/2007	2/12/2007	2/15/2007	2/19/2007	3/1/2007
VOCs (ppb) - EPA Method 8260								
Benzene	24 or MDL	2.1 U	2.0 U	2.1 U	2.1 U	2.2 U	2.3 U	2.1 U
Toluene	600	2.1 U	2.0 U	2.2 U	2.1 U	2.2 U	2.4 U	2.2 U
Ethylbenzene	2,200	1.9 U	1.8 U	1.9 U	1.8 U	1.9 U	2.1 U	1.9 U
M&P-Xylenes ¹	480	4.6 U	4.3 U	4.6 U	4.5 U	4.7 U	5.0 U	4.7 U
O-Xylene ¹	480	2.0 U	1.9 U	2.0 U	2.0 U	2.1 U	2.2 U	2.1 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	920	2.2 U	2.1 U	2.2 U	2.1 U	8.2 J	2.4 U	2.2 U
n-Propylbenzene	1,480	2.8 U	2.7 U	2.9 U	2.8 U	12 J	3.1 U	2.9 U
1,3,5-Trimethylbenzene	1,320	2.6 U	2.5 U	2.6 U	2.6 U	2.7 U	2.9 U	2.7 U
1,2,4-Trimethylbenzene	4,000	2.0 U	1.9 U	2.0 U	2.0 U	2.1 U	2.2 U	2.0 U
sec-Butylbenzene	4,000	2.2 U	2.1 U	2.2 U	2.2 U	130	2.4 U	2.3 U
p-Isopropyltoluene	4,000	2.2 U	2.1 U	2.3 U	2.2 U	2.3 U	2.5 U	2.3 U
n-Butylbenzene	4,000	1.8 U	1.7 U	1.8 U	1.7 U	170	2.0 U	1.8 U
tert-Butylbenzene	4,000	3.8 U	3.6 U	3.8 U	3.7 U	12 J	4.2 U	3.9 U
Naphthalene (v)	5,200	3.1 U	17 J	13 J	5.7 J	3.2 U	3.4 U	22 J
Methyl tert-butyl ether (MTBE) ²	48	1.9 U	1.8 U	2.0 U	1.9 U	2.0 U	2.1 U	2.0 U
TOTAL VOCs	--	ND	17	13	5.7	332.2	ND	22

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives by 40%

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

TABLE 1B
SOIL SAMPLE ANALYTICAL RESULTS
(3 TO 5 FEET ABOVE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives (40%)	GFSB02-30-35	GFSB04-40-42	GFSB05-45-47	GFSB06-40-42	GFSB08-45-47	GFSB12-45-47	GFSB15-30-32
SAMPLE DEPTH (BGS):		30-35	40-42	45-47	40-42	45-47	45-47	30-32
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/14/2027	3/12/2007	2/28/2007	2/12/2007	2/15/2007	2/19/2007	3/1/2007
<i>PAHs (ppb) - EPA Method 8270</i>								
Naphthalene	5,200	60 U	59 U	61 U	60 U	120 U	67 U	62 U
Acenaphthene	20,000	63 U	61 U	64 U	82 J	130 U	70 U	64 U
Fluorene	20,000	59 U	58 U	60 U	83 J	1,000	66 U	61 U
Phenanthrene	20,000	56 U	55 U	57 U	1,000	2,000	62 U	57 U
Anthracene	20,000	53 U	52 U	54 U	160 J	230 J	59 U	54 U
Fluoranthene	20,000	52 U	51 U	53 U	870	110 U	58 U	54 U
Pyrene	20,000	62 U	61 U	63 U	880	130 U	69 U	64 U
Benzo(a)anthracene	89.6 or MDL	49 U	48 U	50 U	340 J	100 U	55 U	50 U
Chrysene	160	63 U	62 U	64 U	380	130 U	70 U	65 U
Benzo(b)fluoranthene	88 or MDL	39 U	38 U	39 U	430	79 U	43 U	40 U
Benzo(k)fluoranthene	88 or MDL	77 U	76 U	79 U	170 J	160 U	86 U	79 U
Benzo(a)pyrene	24.4 or MDL	56 U	55 U	57 U	350	120 U	63 U	58 U
Indeno(1,2,3-cd)pyrene	1,280	45 U	44 U	46 U	120 J	91 U	50 U	46 U
Dibenzo(a,h)anthracene	5.72 or MDL	44 U	43 U	45 U	44 U	90 U	49 U	45 U
Benzo(ghi)perylene	20,000	58 U	57 U	59 U	200 J	120 U	65 U	60 U
TOTAL PAHs	--	ND	ND	ND	5,065	3,230	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND Not detected

U Not detected in sample

J Estimated Value

D Dilution

BTEX Benzene, toluene, ethylbenzene, xylenes

VOCs Volatile organic compounds

PAHs Polynuclear aromatic hydrocarbons

ppb Parts per billion (µg/kg)

-- No standard established

MDL Method Detection Limit

BGS Below Ground Surface

NS Not Sampled

TABLE 1B
SOIL SAMPLE ANALYTICAL RESULTS
(3 TO 5 FEET ABOVE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives (40%)	GFSB16-30-32	GFSB17-30-32	GFSB18-45-47	GFSB24-30-32	GFSB25-30-32	GFSB26-35-37	GFSB27-35-37
SAMPLE DEPTH (BGS):		30-32	30-32	45-47	30-32	30-32	35-37	35-37
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/2/2007	3/2/2007	3/13/2007	3/22/2007	3/5/2007	3/20/2007	3/21/2007
VOCs (ppb) - EPA Method 8260								
Benzene	24 or MDL	2.3 U	2.2 U	2.1 U	2.1 U	2.1 U	2.0 U	2.1 U
Toluene	600	2.3 U	2.2 U	14 J	2.1 U	2.1 U	2.1 U	2.1 U
Ethylbenzene	2,200	2.0 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
M&P-Xylenes ¹	480	5.0 U	4.8 U	12 J	4.5 U	4.5 U	4.4 U	4.5 U
O-Xylene ¹	480	2.2 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
TOTAL BTEX	--	ND	ND	26.0	ND	ND	ND	ND
Isopropylbenzene	920	2.4 U	2.3 U	6.1 J	2.1 U	2.1 U	2.1 U	2.1 U
n-Propylbenzene	1,480	3.1 U	2.9 U	9.8 J	2.8 U	2.8 U	2.7 U	2.8 U
1,3,5-Trimethylbenzene	1,320	2.8 U	2.7 U	19 J	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	4,000	2.2 U	2.1 U	48	2.0 U	2.0 U	1.9 U	2.0 U
sec-Butylbenzene	4,000	2.4 U	2.3 U	76	2.0 U	2.2 U	2.1 U	2.2 U
p-Isopropyltoluene	4,000	2.5 U	2.3 U	37	2.2 U	2.2 U	2.2 U	2.2 U
n-Butylbenzene	4,000	1.9 U	1.9 U	99	1.7 U	1.7 U	1.7 U	1.7 U
tert-Butylbenzene	4,000	4.1 U	3.9 U	8.9 J	3.7 U	3.7 U	3.7 U	3.7 U
Naphthalene (v)	5,200	30 U	18 J	31 U	3.0 U	3.0 U	3.0 U	3.0 U
Methyl tert-butyl ether (MTBE) ²	48	2.1 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
TOTAL VOCs	--	ND	18	304	ND	ND	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

TABLE 1B
SOIL SAMPLE ANALYTICAL RESULTS
(3 TO 5 FEET ABOVE GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Recommended Soil Cleanup Objectives (40%)	GFSB16-30-32	GFSB17-30-32	GFSB18-45-47	GFSB24-30-32	GFSB25-30-32	GFSB26-35-37	GFSB27-35-37
SAMPLE DEPTH (BGS):		30-32	30-32	45-47	30-32	30-32	35-37	35-37
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		3/2/2007	3/2/2007	3/13/2007	3/22/2007	3/5/2007	3/20/2007	3/21/2007
PAHs (ppb) - EPA Method 8270								
Naphthalene	5,200	NS	62 U	59 U	59 U	59 U	59 U	59 U
Acenaphthene	20,000	NS	65 U	190 J	61 U	61 U	61 U	61 U
Fluorene	20,000	NS	62 U	270 J	58 U	58 U	58 U	58 U
Phenanthrene	20,000	NS	58 U	730	55 U	55 U	55 U	55 U
Anthracene	20,000	NS	55 U	85 J	52 U	52 U	52 U	52 U
Fluoranthene	20,000	NS	54 U	51 U	51 U	51 U	51 U	51 U
Pyrene	20,000	NS	65 U	74 J	61 U	61 U	61 U	61 U
Benzo(a)anthracene	89.6 or MDL	NS	51 U	48 U	48 U	48 U	48 U	48 U
Chrysene	160	NS	66 U	62 U	62 U	62 U	62 U	62 U
Benzo(b)fluoranthene	88 or MDL	NS	40 U	38 U	38 U	38 U	38 U	38 U
Benzo(k)fluoranthene	88 or MDL	NS	80 U	76 U	76 U	76 U	75 U	76 U
Benzo(a)pyrene	24.4 or MDL	NS	58 U	55 U	55 U	55 U	55 U	55 U
Indeno(1,2,3-cd)pyrene	1,280	NS	46 U	44 U	44 U	44 U	44 U	44 U
Dibenzo(a,h)anthracene	5.72 or MDL	NS	46 U	43 U	43 U	43 U	43 U	43 U
Benzo(ghi)perylene	20,000	NS	60 U	57 U	57 U	57 U	57 U	57 U
TOTAL PAHs	--	NS	ND	1,349	ND	ND	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Recommended Soil Cleanup Objectives

ND Not detected

U Not detected in sample

J Estimated Value

D Dilution

BTEX Benzene, toluene, ethylbenzene, xylenes

VOCs Volatile organic compounds

PAHs Polynuclear aromatic hydrocarbons

ppb Parts per billion (µg/kg)

-- No standard established

MDL Method Detection Limit

BGS Below Ground Surface

NS Not Sampled

TABLE 1C
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED AT OR BELOW GROUNDWATER INTERFACE)

LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Allowable Soil Concentrations	GFSB06-50-52	GFSB07-50-52	GFSB09-45-47	GFSB13-45-47	GFSB14-45-47	GFSB22-35-37	GFSB23-25-27
SAMPLE DEPTH (BGS):		50-52	50-52	45-47	45-47	45-47	35-37	25-27
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		2/12/2007	2/13/2007	2/14/2007	2/20/2007	2/20/2007	3/26/2007	3/23/2007
<i>VOCs (ppb) - EPA Method 8260</i>								
Benzene	0.6 or MDL	2.3 U	2.3 U	2.5 U	2.1 U	2.2 U	2.3 U	2.1 U
Toluene	15	2.3 U	2.4 U	2.5 U	2.2 U	2.3 U	2.4 U	2.1 U
Ethylbenzene	55	2.0 U	2.1 U	2.2 U	1.9 U	2.0 U	2.1 U	1.8 U
M&P-Xylenes ¹	12	5.0 U	5.1 U	5.4 U	4.7 U	4.9 U	5.1 U	4.5 U
O-Xylene ¹	12	2.2 U	2.2 U	2.4 U	2.1 U	2.2 U	2.3 U	2.0 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	2.4 U	2.4 U	2.6 U	2.2 U	2.3 U	2.4 U	2.2 U
n-Propylbenzene	37	3.1 U	3.1 U	3.4 U	2.9 U	3.0 U	3.2 U	2.8 U
1,3,5-Trimethylbenzene	33	2.9 U	2.9 U	3.1 U	2.7 U	2.8 U	2.9 U	2.6 U
1,2,4-Trimethylbenzene	130	2.2 U	2.2 U	2.4 U	2.0 U	2.1 U	2.2 U	2.0 U
sec-Butylbenzene	110	2.4 U	2.4 U	2.6 U	2.2 U	2.4 U	2.5 U	2.2 U
p-Isopropyltoluene	110	2.5 U	2.5 U	2.7 U	2.3 U	2.4 U	2.5 U	2.2 U
n-Butylbenzene	120	2.0 U	6.0 J	2.1 U	1.8 U	1.9 U	2.0 U	1.8 U
tert-Butylbenzene	110	4.1 U	4.2 U	4.5 U	3.8 U	4.0 U	4.2 U	3.7 U
Naphthalene (v)	130	3.4 U	150	3.7 U	3.1 U	9.5 J	3.4 U	3.1 U
Methyl tert-butyl ether (MTBE)	1.2	2.1 U	2.2 U	2.3 U	2.0 U	2.1 U	2.2 U	1.9 U
TOTAL VOCs	--	ND	156	ND	ND	9.5	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Allowable Soil Concentrations

ND	Not detected	ppb	Parts per billion (µg/kg)
U	Not detected in sample	--	No standard established
J	Estimated Value	MDL	Method Detection Limit
D	Dilution	BGS	Below Ground Surface
BTEX	Benzene, toluene, ethylbenzene, xylenes	NS	Not Sampled
VOCs	Volatile organic compounds		
PAHs	Polynuclear aromatic hydrocarbons		

**TABLE 1C
SOIL SAMPLE ANALYTICAL RESULTS
(SAMPLES COLLECTED AT OR BELOW GROUNDWATER INTERFACE)**

**LONG ISLAND RAILROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK**

SAMPLE ID:	NYSDEC Allowable Soil Concentrations	GFSB06-50-52	GFSB07-50-52	GFSB09-45-47	GFSB13-45-47	GFSB14-45-47	GFSB22-35-37	GFSB23-25-27
SAMPLE DEPTH (BGS):		50-52	50-52	45-47	45-47	45-47	35-37	25-27
SAMPLE TYPE:		Grab	Grab	Grab	Grab	Grab	Grab	Grab
SAMPLE DATE:		2/12/2007	2/13/2007	2/14/2007	2/20/2007	2/20/2007	3/26/2007	3/23/2007
<i>PAHs (ppb) - EPA Method 8270</i>								
Naphthalene	130	67 U	120 J	70 U	60 U	64 U	66 U	60 U
Acenaphthene	920	70 U	71 U	73 U	63 U	67 U	69 U	62 U
Fluorene	3,650	66 U	94 J	69 U	60 U	63 U	65 U	59 U
Phenanthrene	2,180	130 J	210 J	66 U	56 U	60 U	62 U	56 U
Anthracene	7,000	59 U	60 U	62 U	53 U	56 U	58 U	53 U
Fluoranthene	19,000	110 J	59 U	61 U	53 U	56 U	57 U	52 U
Pyrene	6,650	100 J	70 U	73 U	62 U	66 U	68 U	62 U
Benzo(a)anthracene	28	55 U	56 U	58 U	49 U	52 U	54 U	49 U
Chrysene	400	70 U	71 U	74 U	63 U	67 U	69 U	63 U
Benzo(b)fluoranthene	11	50 J	44 U	45 U	39 U	41 U	42 U	39 U
Benzo(k)fluoranthene	11	86 U	87 U	91 U	78 U	82 U	85 U	77 U
Benzo(a)pyrene	110	63 U	64 U	66 U	57 U	60 U	62 U	56 U
Indeno(1,2,3-cd)pyrene	32	50 U	50 U	52 U	45 U	47 U	49 U	44 U
Dibenzo(a,h)anthracene	1,650,000	49 U	50 U	52 U	44 U	47 U	48 U	44 U
Benzo(ghi)perylene	80,000	65 U	66 U	68 U	58 U	62 U	64 U	58 U
TOTAL PAHs	--	390	424	ND	ND	ND	ND	ND

NOTES:

1-Listed Guidance Value is for mixed Xylenes

2-Guidance value for MTBE is for gasoline contaminated soil

Samples analyzed by CHEMTECH of Mountainside, NJ

Results reported on a dry weight basis

Concentrations shown in bold type face exceed current NYSDEC Allowable Soil Concentrations

ND Not detected

U Not detected in sample

J Estimated Value

D Dilution

BTEX Benzene, toluene, ethylbenzene, xylenes

VOCs Volatile organic compounds

PAHs Polynuclear aromatic hydrocarbons

ppb Parts per billion (µg/kg)

-- No standard established

MDL Method Detection Limit

BGS Below Ground Surface

NS Not Sampled

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-02	MW-GF-02	MW-GF-04	MW-GF-04	MW-GF-05	MW-GF-05	MW-GF-06	MW-GF-06	MW-GF-07	MW-GF-07
SAMPLE DATE:		4/9/2007	7/10/2007	4/11/2007	7/10/2007	4/11/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007
<i>VOCs (ppb) - EPA Method 8260</i>											
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.3 J	0.44 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.2 J	5.5
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	3.4 J
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	1.2 J	1.2 J
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	4.0 J	6.6
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	ND	ND	ND	ND	ND	ND	10.7	16.7

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-02	MW-GF-02	MW-GF-04	MW-GF-04	MW-GF-05	MW-GF-05	MW-GF-06	MW-GF-06	MW-GF-07	MW-GF-07
SAMPLE DATE:		4/9/2007	7/10/2007	4/11/2007	7/10/2007	4/11/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007
<i>PAHs (ppb) - EPA Method 8270</i>											
Acenaphthene	20	1.5 U	1.4 U	1.5 U	1.4 U	1.5 U	1.5 U	1.4 U	1.4 U	3.3 J	1.4 U
Fluorene	50	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.5 U	1.5 U	8.2 J	6.2 J
Phenanthrene	50	1.6 U	1.5 U	1.6 U	1.5 U	1.6 U	1.6 U	1.5 U	1.5 U	10 J	3.7 J
Anthracene	50	1.5 U	1.5 U	1.6 U	1.4 U	1.6 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U
Fluoranthene	50	1.3 U	1.3 U	1.3 U	1.2 U	1.4 U	1.4 U	1.3 U	1.3 U	1.3 U	1.3 U
Pyrene	50	1.6 U	1.5 U	1.6 U	1.5 U	1.7 U	1.6 U	1.5 U	1.5 U	1.5 U	1.5 U
Benzo(a)anthracene	0.002	1.2 U	1.2 U	1.2 U	1.1 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Chrysene	0.002	1.8 U	1.8 U	1.9 U	1.7 U	1.9 U	1.9 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzo(b)fluoranthene	0.002	0.820 U	0.800 U	0.830 U	0.770 U	0.860 U	0.850 U	0.790 U	0.790 U	0.800 U	0.790 U
Benzo(k)fluoranthene	0.002	2.1 U	2.0 U	2.1 U	1.9 U	2.2 U	2.1 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)pyrene	0.002	1.3 U	1.2 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U
Indeno(1,2,3-cd)pyrene	0.002	0.910 U	0.880 U	0.920 U	0.850 U	0.950 U	0.940 U	0.870 U	0.870 U	0.880 U	0.870 U
Dibenzo(a,h)anthracene	50	0.950 U	0.920 U	0.960 U	0.890 U	1.0 U	0.980 U	0.910 U	0.910 U	0.920 U	0.910 U
Benzo(ghi)perylene	0.002	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
Naphthalene (sv)	10	1.5 U	1.5 U	1.5 U	1.4 U	1.6 U	1.6 U	1.5 U	1.5 U	2.4 J	3.1 J
TOTAL PAHs	--	ND	ND	ND	ND	ND	ND	ND	ND	23.9	13

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-08	MW-GF-08	MW-GF-09	MW-GF-09	MW-GF-12	MW-GF-12	MW-GF-13	MW-GF-13	MW-GF-14	MW-GF-14
SAMPLE DATE:		4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007
<i>VOCs (ppb) - EPA Method 8260</i>											
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	6.5	7.6	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
n-propylbenzene	5.0	8.3	9	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	4.2 J	5.6	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
n-Butylbenzene	5.0	3.1 J	5.3	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	22.1	27.5	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-08	MW-GF-08	MW-GF-09	MW-GF-09	MW-GF-12	MW-GF-12	MW-GF-13	MW-GF-13	MW-GF-14	MW-GF-14
SAMPLE DATE:		4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007
<i>PAHs (ppb) - EPA Method 8270</i>											
Acenaphthene	20	26	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.5 U
Fluorene	50	52	4.6 J	1.4 U	1.6 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U
Phenanthrene	50	77	1.5 U	1.4 U	1.6 U	1.5 U	1.6 U	1.4 U	1.5 U	1.6 U	1.6 U
Anthracene	50	1.7 J	1.5 U	1.4 U	1.6 U	1.5 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U
Fluoranthene	50	5.7 J	1.3 U	1.2 U	1.4 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U
Pyrene	50	1.6 U	1.5 U	1.5 U	1.7 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.6 U
Benzo(a)anthracene	0.002	1.2 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
Chrysene	0.002	1.9 U	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U	1.7 U	1.8 U	1.9 U	1.9 U
Benzo(b)fluoranthene	0.002	0.830 U	0.780 U	0.760 U	0.870 U	0.810 U	0.820 U	0.760 U	0.810 U	0.830 U	0.830 U
Benzo(k)fluoranthene	0.002	2.1 U	2.0 U	1.9 U	2.2 U	2.0 U	2.1 U	1.9 U	2.0 U	2.1 U	2.1 U
Benzo(a)pyrene	0.002	1.3 U	1.2 U	1.2 U	1.4 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.3 U
Indeno(1,2,3-cd)pyrene	0.002	0.920 U	0.860 U	0.840 U	0.960 U	0.900 U	0.910 U	0.840 U	0.900 U	0.920 U	0.920 U
Dibenzo(a,h)anthracene	50	0.960 U	0.900 U	0.880 U	1.0 U	0.940 U	0.950 U	0.880 U	0.940 U	0.960 U	0.960 U
Benzo(ghi)perylene	0.002	1.2 U	1.1 U	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U
Naphthalene (sv)	10	1.5 U	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.5 U
TOTAL PAHs	--	162.4	4.6	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-15	MW-GF-15	MW-GF-16	MW-GF-16	MW-GF-17	MW-GF-17	MW-GF-20	MW-GF-20	MW-GF-22	MW-GF-22
SAMPLE DATE:		4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/10/2007	7/9/2007
<i>VOCs (ppb) - EPA Method 8260</i>											
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	5.9	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	9.0	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	14.9	ND
Isopropylbenzene	5.0	1.8 J	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.7 J	0.44 U
n-propylbenzene	5.0	2.7 J	4.2 J	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	6.4	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	20	4.7 J
1,2,4-Trimethylbenzene	5.0	1.3 J	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	52	13
sec-Butylbenzene	5.0	3.6 J	5.9	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	5.3	1.9 J
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	10	5.9
n-Butylbenzene	5.0	2.7 J	6.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	7.7	0.49 U
Naphthalene	10	2.5 J	12	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	96	20
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	14.6	28.1	ND	ND	ND	ND	ND	ND	217.0	45.5

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-15	MW-GF-15	MW-GF-16	MW-GF-16	MW-GF-17	MW-GF-17	MW-GF-20	MW-GF-20	MW-GF-22	MW-GF-22
SAMPLE DATE:		4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/9/2007	7/10/2007	4/10/2007	7/9/2007
<i>PAHs (ppb) - EPA Method 8270</i>											
Acenaphthene	20	NA	1.4 U	1.5 U	1.5 U	1.4 U	1.5 U	1.7 U	1.5 U	300	1.6 J
Fluorene	50	NA	3.2 J	1.6 U	1.6 U	1.5 U	1.6 U	1.8 U	1.5 U	81 J	4.3 J
Phenanthrene	50	NA	2.5 J	1.6 U	1.6 U	1.5 U	1.6 U	1.8 U	1.6 U	170	3.9 J
Anthracene	50	NA	1.5 U	1.6 U	1.6 U	1.5 U	1.6 U	1.7 U	1.5 U	250	1.6 U
Fluoranthene	50	NA	1.3 U	1.4 U	1.3 U	1.3 U	1.4 U	1.5 U	1.3 U	15 U	1.3 U
Pyrene	50	NA	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U	1.8 U	1.6 U	13 U	1.6 U
Benzo(a)anthracene	0.002	NA	1.2 U	1.3 U	1.2 U	1.2 U	1.3 U	1.4 U	1.2 U	18 J	1.2 U
Chrysene	0.002	NA	1.8 U	1.9 U	1.9 U	1.8 U	1.9 U	2.1 U	1.8 U	12 U	1.9 U
Benzo(b)fluoranthene	0.002	NA	0.790 U	0.850 U	0.850 U	0.810 U	0.860 U	0.940 U	0.820 U	18 U	0.830 U
Benzo(k)fluoranthene	0.002	NA	2.0 U	2.1 U	2.1 U	2.0 U	2.2 U	2.4 U	2.1 U	8.1 U	2.1 U
Benzo(a)pyrene	0.002	NA	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.5 U	1.3 U	20 U	1.3 U
Indeno(1,2,3-cd)pyrene	0.002	NA	0.870 U	0.940 U	0.940 U	0.890 U	0.950 U	1.0 U	0.910 U	13 U	0.920 U
Dibenzo(a,h)anthracene	50	NA	0.910 U	0.980 U	0.960 U	0.930 U	1.0 U	1.1 U	0.950 U	9.0 U	0.960 U
Benzo(ghi)perylene	0.002	NA	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.4 U	1.2 U	9.4 U	1.2 U
Naphthalene (sv)	10	NA	1.8 J	1.6 U	1.5 U	1.5 U	1.6 U	1.7 U	1.5 U	12 U	5.9 J
TOTAL PAHs	--	NA	7.5	ND	ND	ND	ND	ND	ND	819	15.7

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-23	MW-GF-23	MW-GF-24	MW-GF-24	MW-GF-25	MW-GF-25	MW-GF-26	MW-GF-26	MW-GF-27	MW-GF-27
SAMPLE DATE:		4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/9/2007	7/11/2007	4/9/007	7/10/2007	4/9/2007	7/10/2007
<i>VOCs (ppb) - EPA Method 8260</i>											
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ

Concentrations shown in bold type face exceed NYSDEC Guidance Values

1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-GF-23	MW-GF-23	MW-GF-24	MW-GF-24	MW-GF-25	MW-GF-25	MW-GF-26	MW-GF-26	MW-GF-27	MW-GF-27
SAMPLE DATE:		4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/9/2007	7/11/2007	4/9/007	7/10/2007	4/9/2007	7/10/2007
<i>PAHs (ppb) - EPA Method 8270</i>											
Acenaphthene	20	1.4 U	1.5 U	1.4 U	1.3 U	1.5 U	1.5 U	1.4 U	1.6 U	1.7 U	1.5 U
Fluorene	50	1.5 U	1.5 U	1.5 U	1.4 U	1.6 U	1.6 U	1.5 U	1.7 U	1.8 U	1.6 U
Phenanthrene	50	1.5 U	1.5 U	1.5 U	1.4 U	1.6 U	1.6 U	1.5 U	1.7 U	1.8 U	1.6 U
Anthracene	50	1.5 U	1.5 U	1.5 U	1.4 U	1.6 U	1.6 U	1.5 U	1.6 U	1.8 U	1.6 U
Fluoranthene	50	1.3 U	1.3 U	1.3 U	1.2 U	1.4 U	1.3 U	1.3 U	1.4 U	1.5 U	1.4 U
Pyrene	50	1.6 U	1.6 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.7 U	1.8 U	1.7 U
Benzo(a)anthracene	0.002	1.2 U	1.2 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U	1.3 U	1.4 U	1.3 U
Chrysene	0.002	1.8 U	1.8 U	1.8 U	1.7 U	1.9 U	1.9 U	1.8 U	2.0 U	2.1 U	1.9 U
Benzo(b)fluoranthene	0.002	0.810 U	0.810 U	0.800 U	0.750 U	0.850 U	0.830 U	0.810 U	0.880 U	0.950 U	0.860 U
Benzo(k)fluoranthene	0.002	2.0 U	2.0 U	2.0 U	1.9 U	2.1 U	2.1 U	2.0 U	2.2 U	2.4 U	2.2 U
Benzo(a)pyrene	0.002	1.3 U	1.3 U	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U	1.4 U	1.5 U	1.3 U
Indeno(1,2,3-cd)pyrene	0.002	0.890 U	0.3900 U	0.880 U	0.830 U	0.940 U	0.920 U	0.890 U	0.970 U	1.0 U	0.950 U
Dibenzo(a,h)anthracene	50	0.930 U	0.940 U	0.920 U	0.870 U	0.980 U	0.960 U	0.930 U	1.0 U	1.1 U	1.0 U
Benzo(ghi)perylene	0.002	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	1.4 U	1.2 U
Naphthalene (sv)	10	1.5 U	1.5 U	1.5 U	1.4 U	1.6 U	1.5 U	1.5 U	1.6 U	1.7 U	1.6 U
TOTAL PAHs	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-10-60	MW-10-60	MW-15-60	MW-15-60	MW-16-60	MW-16-60	MW-2D-60	MW-2D-60	MW-3D-60	MW-3D-60
SAMPLE DATE:		4/9/2007	7/11/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/11/2007	7/11/2007	4/11/2007	7/11/2007
<i>VOCs (ppb) - EPA Method 8260</i>											
Benzene	0.7	0.39 U	0.39 U	1.1 J	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-10-60	MW-10-60	MW-15-60	MW-15-60	MW-16-60	MW-16-60	MW-2D-60	MW-2D-60	MW-3D-60	MW-3D-60
SAMPLE DATE:		4/9/2007	7/11/2007	4/10/2007	7/9/2007	4/10/2007	7/9/2007	4/11/2007	7/11/2007	4/11/2007	7/11/2007
<i>PAHs (ppb) - EPA Method 8270</i>											
Acenaphthene	20	1.6 U	2.1 U	1.5 U	1.5 U	1.4 U	1.5 U	1.5 U	1.6 U	1.5 U	1.5 U
Fluorene	50	1.7 U	2.2 U	1.6 U	1.6 U	1.4 U	1.6 U	1.5 U	1.7 U	1.5 U	1.6 U
Phenanthrene	50	1.7 U	2.2 U	1.6 U	1.6 U	1.5 U	1.6 U	1.5 U	1.7 U	1.5 U	1.6 U
Anthracene	50	1.7 U	2.2 U	1.6 U	1.6 U	1.4 U	1.6 U	1.5 U	1.7 U	1.5 U	1.6 U
Fluoranthene	50	1.5 U	1.9 U	1.3 U	1.3 U	1.2 U	1.4 U	1.3 U	1.5 U	1.3 U	1.3 U
Pyrene	50	1.8 U	2.3 U	1.6 U	1.6 U	1.5 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U
Benzo(a)anthracene	0.002	1.4 U	1.7 U	1.2 U	1.3 U	1.1 U	1.3 U	1.2 U	1.3 U	1.2 U	1.2 U
Chrysene	0.002	2.0 U	2.6 U	1.9 U	1.9 U	1.7 U	1.9 U	1.8 U	2.0 U	1.8 U	1.9 U
Benzo(b)fluoranthene	0.002	0.910 U	1.2 U	0.830 U	0.850 U	0.770 U	0.850 U	0.810 U	0.900 U	0.810 U	0.850 U
Benzo(k)fluoranthene	0.002	2.3 U	2.9 U	2.1 U	2.1 U	1.9 U	2.1 U	2.0 U	2.3 U	2.0 U	2.1 U
Benzo(a)pyrene	0.002	1.4 U	1.8 U	1.3 U	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.3 U	1.3 U
Indeno(1,2,3-cd)pyrene	0.002	1.0 U	1.3 U	0.920 U	0.940 U	0.850 U	0.940 U	0.900 U	1.0 U	0.900 U	0.920 U
Dibenzo(a,h)anthracene	50	1.1 U	1.4 U	0.960 U	0.980 U	0.890 U	0.980 U	0.940 U	1.0 U	0.940 U	0.960 U
Benzo(ghi)perylene	0.002	1.3 U	1.7 U	1.2 U	1.2 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U
Naphthalene (sv)	10	1.7 U	2.2 U	1.5 U	1.5 U	1.4 U	2.3 J	1.5 U	1.7 U	1.5 U	1.5 U
TOTAL PAHs	--	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-11-60	MW-11-60	MW-01	MW-01	MW-9-60	MW-9-60	MW-1-60
SAMPLE DATE:		4/11/2007	7/11/2007	4/11/2007	7/11/2007	4/11/2007	7/11/2007	7/11/2007
<i>VOCs (ppb) - EPA Method 8260</i>								
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	MW-11-60	MW-11-60	MW-01	MW-01	MW-9-60	MW-9-60	MW-1-60
SAMPLE DATE:		4/11/2007	7/11/2007	4/11/2007	7/11/2007	4/11/2007	7/11/2007	7/11/2007
<i>PAHs (ppb) - EPA Method 8270</i>								
Acenaphthene	20	1.5 U	1.6 U	1.5 U	1.5 U	2.0 U	1.5 U	1.4 U
Fluorene	50	1.5 U	1.7 U	1.5 U	1.5 U	2.1 U	1.5 U	1.4 U
Phenanthrene	50	1.5 U	1.7 U	1.6 U	1.5 U	2.1 U	1.5 U	1.5 U
Anthracene	50	1.5 U	1.6 U	1.5 U	1.5 U	2.1 U	1.5 U	1.4 U
Fluoranthene	50	1.3 U	1.4 U	1.3 U	1.3 U	1.8 U	1.3 U	1.2 U
Pyrene	50	1.6 U	1.7 U	1.6 U	1.6 U	2.1 U	1.6 U	1.5 U
Benzo(a)anthracene	0.002	1.2 U	1.3 U	1.2 U	1.2 U	1.6 U	1.2 U	1.1 U
Chrysene	0.002	1.8 U	2.0 U	1.8 U	1.8 U	2.5 U	1.8 U	1.7 U
Benzo(b)fluoranthene	0.002	0.810 U	0.880 U	0.820 U	0.810 U	1.1 U	0.810 U	0.770 U
Benzo(k)fluoranthene	0.002	2.0 U	2.2 U	2.1 U	2.0 U	2.8 U	2.0 U	1.9 U
Benzo(a)pyrene	0.002	1.3 U	1.4 U	1.3 U	1.3 U	1.7 U	1.3 U	1.2 U
Indeno(1,2,3-cd)pyrene	0.002	0.900 U	0.970 U	0.910 U	0.900 U	1.2 U	0.900 U	0.850 U
Dibenzo(a,h)anthracene	50	0.940 U	1.0 U	0.950 U	0.940 U	1.3 U	0.940 U	0.890 U
Benzo(ghi)perylene	0.002	1.2 U	1.3 U	1.2 U	1.2 U	1.6 U	1.2 U	1.1 U
Naphthalene (sv)	10	1.5 U	1.6 U	1.5 U	1.5 U	2.0 U	1.5 U	1.4 U
TOTAL PAHs	--	ND	ND	ND	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	Field Blank	Field Blank	Trip Blank	Trip Blank
SAMPLE DATE:		4/11/2007	7/11/2007	4/12/2007	7/11/2007
<i>VOCs (ppb) - EPA Method 8260</i>					
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.2 U	1.2 U	1.2 U	1.2 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.42 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.49 U
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.34 U	0.34 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.39 U	0.39 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	ND	ND

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
APRIL 9-11, 2007
JULY 9-11, 2007

MTA-LONG ISLAND RAILROAD
RICHMOND HILL AND MORRIS PARK YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	Field Blank	Field Blank	Trip Blank	Trip Blank
SAMPLE DATE:		4/11/2007	7/11/2007	4/12/2007	7/11/2007
<i>PAHs (ppb) - EPA Method 8270</i>					
Acenaphthene	20	1.5 U	1.4 U	NA	NA
Fluorene	50	1.6 U	1.5 U	NA	NA
Phenanthrene	50	1.6 U	1.5 U	NA	NA
Anthracene	50	1.6 U	1.5 U	NA	NA
Fluoranthene	50	1.3 U	1.3 U	NA	NA
Pyrene	50	1.6 U	1.6 U	NA	NA
Benzo(a)anthracene	0.002	1.2 U	1.2 U	NA	NA
Chrysene	0.002	1.9 U	1.8 U	NA	NA
Benzo(b)fluoranthene	0.002	0.830 U	0.810 U	NA	NA
Benzo(k)fluoranthene	0.002	2.1 U	2.0 U	NA	NA
Benzo(a)pyrene	0.002	1.3 U	1.3 U	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	0.920 U	0.890 U	NA	NA
Dibenzo(a,h)anthracene	50	0.960 U	0.930 U	NA	NA
Benzo(ghi)perylene	0.002	1.2 U	1.2 U	NA	NA
Naphthalene (sv)	10	1.5 U	1.5 U	NA	NA
TOTAL PAHs	--	ND	ND	NA	NA

NOTES:

Samples analyzed by Chemtech Laboratories, Inc. of Mountainside, NJ
Concentrations shown in bold type face exceed NYSDEC Guidance Values
1 - Guidance value of 5 ppb is the standard for total xylenes

BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
ppb Parts per billion (mg/L)
-- No standard established
NA Not Available

TABLE 3
SOIL QA/QC RESULTS
LOND ISLAND RAIL ROAD
MORRIS PARK AND RICHMOND HILL YARDS
JAMAICA, NEW YORK

SAMPLE ID:	NYSDEC Guidance Values	EB-01	TRIP BLANK	FIELDBLANK	TRIPBLANK
SAMPLE DATE:		3/2/2007	3/2/2007	3/27/2007	3/27/2007
VOCs (ppb) - EPA Method 8260					
Benzene	0.7	0.39 U	0.39 U	0.39 U	0.39 U
Toluene	5.0	0.36 U	0.36 U	0.36 U	0.36 U
Ethylbenzene	5.0	0.45 U	0.45 U	0.45 U	0.45 U
M&P-Xylenes ¹	5.0	1.20 U	1.20 U	1.20 U	1.20 U
O-Xylene ¹	5.0	0.46 U	0.46 U	0.46 U	0.46 U
TOTAL BTEX	--	ND	ND	ND	ND
Isopropylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.46 U
n-propylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.44 U
1,3,5-Trimethylbenzene	5.0	0.42 U	0.42 U	0.42 U	0.49 U
1,2,4-Trimethylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.42 U
sec-Butylbenzene	5.0	0.44 U	0.44 U	0.44 U	0.44 U
p-Isopropyltoluene	5.0	0.49 U	0.49 U	0.49 U	0.44 U
n-Butylbenzene	5.0	0.49 U	0.49 U	0.49 U	0.49 U
Naphthalene	10	0.39 U	0.39 U	0.34 U	0.34 U
tert-Butylbenzene	5.0	0.34 U	0.34 U	0.39 U	0.39 U
Methyl tert-butyl ether	10	0.28 U	0.28 U	0.28 U	0.28 U
TOTAL VOCs	--	ND	ND	ND	
PAHs (ppb) - EPA Method 8270					
Acenaphthene	20	1.4 U	NS	1.4 U	NS
Fluorene	50	1.4 U	NS	1.4 U	NS
Phenanthrene	50	1.4 U	NS	1.4 U	NS
Anthracene	50	1.4 U	NS	1.5 U	NS
Fluoranthene	50	1.2 U	NS	1.4 U	NS
Pyrene	50	1.5 U	NS	1.2 U	NS
Benzo(a)anthracene	0.002	1.1 U	NS	1.5 U	NS
Chrysene	0.002	1.7 U	NS	1.1 U	NS
Benzo(b)fluoranthene	0.002	0.760 U	NS	1.7 U	NS
Benzo(k)fluoranthene	0.002	1.9 U	NS	0.770 U	NS
Benzo(a)pyrene	0.002	1.2 U	NS	1.9 U	NS
Ideno(1,2,3-cd)pyrene	0.002	0.840 U	NS	1.2 U	NS
Dibenzo(a,h)anthracene	50	0.840 U	NS	0.850 U	NS
Benzo(ghi)perylene	0.002	1.1 U	NS	0.850 U	NS
Naphthalene (sv)	10	1.40 U	NS	1.1 U	NS
TOTAL PAHs	--	ND	NS	ND	NS

NOTES:

1-Listed Guidance Value is for mixed Xylenes
Samples analyzed by CHEMTECH of Mountainside, NJ
Concentrations shown in bold type face exceed current NYSDEC Guidance Values

ND Not detected
U Not detected in sample
J Estimated Value
D Dilution
BTEX Benzene, toluene, ethylbenzene, xylenes
VOCs Volatile organic compounds
PAHs Polynuclear aromatic hydrocarbons

Table 4
Monitoring Well and Groundwater Elevation Data
Long Island Railroad
Richmond Hill and Morris Park Yards
Jamaica, New York

Well No.	Elev. (ft.)*	Depth to GW (ft.) 4/9-11/2007	GW Elev. (ft.) 4/9-11/2007
MW-GF-4	62.910	45.51	17.40
MW-GF-5	67.150	49.60	17.55
MW-GF-6	66.204	48.47	17.73
MW-GF-7	65.621	47.89	17.73
MW-GF-8	65.511	47.77	17.74
MW-GF-9	54.769	36.88	17.89
MW-GF-12	63.688	45.73	17.96
MW-GF-13	63.441	45.41	18.03
MW-GF-14	63.249	45.16	18.09
MW-GF-15	49.701	31.89	17.81
MW-GF-16	47.920	29.86	18.06
MW-GF-17	46.916	28.83	18.09
MW-GF-18	66.187	48.60	17.59
MW-GF-20	56.267	39.88	16.39
MW-GF-21	55.064	37.66	17.40
MW-GF-22	54.333	36.80	17.53
MW-GF-23	54.376	36.76	17.62
MW-GF-24	54.624	37.15	17.47
MW-GF-25	49.953	32.60	17.35
MW-GF-26	55.980	39.15	16.83
MW-GF-27	57.000	39.70	17.30

Horizontal Datum: NAD1983

Vertical Datum: NAVD88

Coordinate System SPC-NY Long Island Zone 3104

Units:Feet

Table 5
Monitoring Well and Groundwater Elevation Data
Long Island Railroad
Richmond Hill and Morris Park Yards
Jamaica, New York

Well No.	Elev. (ft.)*	Depth to GW (ft.) 7/9-11/2007	GW Elev. (ft.) 7/9-11/2007
MW-GF-2	NA	32.02	NA
MW-GF-4	62.910	44.65	18.26
MW-GF-5	67.150	48.73	18.42
MW-GF-6	66.204	47.68	18.52
MW-GF-7	65.621	47.10	18.52
MW-GF-8	65.511	46.80	18.71
MW-GF-9	54.769	36.11	18.66
MW-GF-12	63.688	44.90	18.79
MW-GF-13	63.441	44.64	18.80
MW-GF-14	63.249	44.46	18.79
MW-GF-15	49.701	31.04	18.66
MW-GF-16	47.920	29.14	18.78
MW-GF-17	46.916	28.03	18.89
MW-GF-18	66.187	47.69	18.50
MW-GF-20	56.267	39.06	17.21
MW-GF-21	55.064	NA	NA
MW-GF-22	54.333	37.98	16.35
MW-GF-23	54.376	35.95	18.43
MW-GF-24	54.624	36.03	18.59
MW-GF-25	49.953	31.35	18.60
MW-GF-26	55.980	38.31	17.67
MW-GF-27	57.000	39.77	17.23
MW-1	NA	50.35	NA
MW-2D-60	NA	37.07	NA
MW-3D-60	NA	33.51	NA
MW-9-60	NA	39.62	NA
MW-10-60	NA	39.13	NA
MW-11-60	NA	39.12	NA
MW-15-60	NA	38.69	NA
MW-16-60	NA	37.11	NA

Horizontal Datum: NAD1983

Vertical Datum: NAVD88

Coordinate System SPC-NY Long Island Zone 3104

Units:Feet

APPENDIX A
Soil Boring Logs

SOIL BORING LOG

Client: LIRR				Boring No.: MW-GF-01			Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813				Sheet 1 of 1				
Site Location: Richmond Hill Yard				Date: 3/1/2007				
Drilling Co: Aquifer Drilling & Testing, Inc.				Location of boring (not to scale) Block end between tracks				
Method: Hollow Stem Auger (HSA)								
Personnel: Kimberly Simone								
Total Depth: _____ Depth to Water: _____								
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT Refusal @ 5.5 ft	Hand cleared to 5 feet bgs. Hard concrete surface @ 6 ft Broke through surface as per Lee Goodman Encountered water after breaking through hard surface. It is unknown what was drilled through, but was confirmed by electricians and plumbers that it did not affect anything, and was backfilled and patched up with cement.
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-02	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 3/14/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) South side of 89th Ave between 123rd and 124th streets	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: <u>45 ft</u> Depth to Water: <u>35 ft</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand cleared to 5 feet bgs.
2								
3								
4								
5		100/0in		5-7		0in/24in	Rock/Boulders	
6								No spoons taken because of excessive Boulders
7		100/0in		7-9		0in/24in	same as above	
8								
9		100/0in		9-11		0in/24in	same as above	
10								
11								
12								
13								
14								
15	0.5	9		15-17	slightly moist	2in/24in	Light Brown M SAND with little Gravel	no odor no staining
16		12						
17		16						
18		11						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-02		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 3/14/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	0.4	5 6	GFSB02-20-22	20-22	moist	12in/24in	Light Brown C SAND with trace Rock	no odor no staining
22		6 4						
23								
24								
25	0.0	4 7		25-27	moist	12in/24in	Light Brown C SAND with trace Rock	no odor no staining
26		3 5						
27								
28								
30	0.0	3 7	GFSB02-30-32	30-32	moist	12in/24in	Light Brown C SAND with trace Rock	no odor no staining
31		4 5						
32								
33								
35	0.0	3 5		35-37	saturated	24in/24in	Light Brown C SAND with trace Rock	no odor no staining
36		3 3						
37								
38								
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-02	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 3/14/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								
42								
43								
44								
45								
46							Groundwater interface encountered at 35 ft bgs.	Samples GFSB02-20-22 and GFSB04-2-30-32 submitted for analysis on 3/16/07
47							End of boring at 45 ft bgs	
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-03	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 1	
Site Location: Richmond Hill Yard	Date: 3/14/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) South side of 89th Ave between 123rd and 124th streets	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: _____ Depth to Water: _____		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT 2 refusals @ 3 ft (encountered pvc piping) 1 refusal @ 5 ft 1 refusal @ 8 ft (boulders)	Hand cleared to 5 feet bgs.
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-04	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 3/12/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) Block End at Richmond Hill Driveway to Morris Park	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: <u>57 ft</u> Depth to Water: <u>47 ft</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.0	5		5-7	slightly moist	2in/24in	Light Brown M SAND	no odor no staining
6		2						
7		2						
8		100/0in		7-9		0in/24in	Rock	
9	53.1	1	GFSB04-	9-11	slightly moist	10in/24in	Light Brown M SAND	slight odor no staining
10		2	9-11					
11		3						
12		2						
13								
14								
15		4		15-17		0in/24in		No Recovery
16		4						
17		3						
18		2						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-04	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 2 of 3	
Site Location: Richmond Hill Yard	Date: 3/12/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21		100/0in		20-22		0in/24in	Rock No recovery	
22								
23								
24								
25	0.9	12		25-27		8in/24in	Light Brown C SAND with little Gravel	slight odor no staining
26		16						
27		19						
28		13						
29								
30		100/0in		30-32		0in/24in	Rock/Boulders	
31								
32								
33								
34								
35		100/0in		35-37		0in/24in	no recovery	
36								
37								
38								
39								
40		14						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-04	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/28/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	25.2	6	GFSB04-	40-42	slightly	8in/24in	Light Brown C SAND with trace Gravel	slight odor no staining
		4	40-42		moist			
42		5						
43								
44								
45	7.2	7		45-47	saturated	24in/24in	Light Brown C SAND with trace Gravel	slight odor no staining
46		6						
47		3						
48							Groundwater interface encountered at 47 ft bgs.	Samples GFSB04-25-27 and GFSB04-40-42 submitted for analysis on 3/2/07
49							End of boring at 57 ft bgs	
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-05	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/28/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) Block End at Richmond Hill	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone & Jessica Ferngren		
Total Depth: 60 ft Depth to Water: 50 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CONCRETE	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.0	6		5-7	slightly moist	8in/24in	Brown to Light Brown M SAND with trace Gravel	no odor no staining
6		3						
7		3						
8	0.0	4		7-9	slightly moist	12in/24in	Light Brown M SAND with trace Gravel	no odor no staining
9		4						
10	4.0	6	GFSB5-9-11	9-11	slightly moist	5in/24in	Light Brown M SAND with trace Gravel	no odor no staining
11		6						
12		7						
13		3						
14		4						
15		4		15-17		0in/24in		No Recovery
16		4						
17		3						
18		2						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-05		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 2/28/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	1.1	6 6		20-22	slightly moist	5in/24in	Light Brown M SAND with little Gravel	no odor no staining
22		10 13						
25		100/0in		25-27		0in/24in	Course Gravel and Cobbles	Tough drilling @ 25-40ft
26								
30		100/0in		30-32		0in/24in	Same as above	Did not take spoons because of excessive Cobbles and Boulders
31								
35		100/0in		35-37		0in/24in	Same as above	
36								
40		5						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-05	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/28/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.2	8		40-42	slightly moist	8in/24in	Brown M SAND with some Gravel	no odor no staining
42		6						
43		4						
44								
45	0.0	7	GFSB5-45-47	45-47	moist	14in/24in	Light Brown to Brown M SAND with trace Gravel	no odor no staining
46		7						
47		9						
48		11						
49								
50	0.0	3		50-52	saturated	18in/24in	Light Brown M SAND	No odor No staining
51		3						
52		2					Groundwater interface encountered at 50 ft bgs.	Samples GFSB05-9-11 and GFSB05-45-47 submitted for analysis on 2/15/07
53		4						
54								
55								
56								
57								
58								
59								
60							End of boring at 60 ft bgs	

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-06	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/12/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) West of McGurl Building in Area 3 on map	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone & Brian Dortch		
Total Depth: <u>60 ft</u> Depth to Water: <u>50 ft</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CONCRETE	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.5	4		5-7	slightly moist	6in/24in	Brown M SAND with trace Gravel	no odor no staining
6		4						
7		5						
8	0.6	3		7-9	slightly moist	6in/24in	Light Brown M SAND with trace Gravel	no odor no staining
9		4						
10		2						
11	0.6	3		9-11	slightly moist	12in/24in	Brown M SAND with trace Gravel	no odor no staining
12		4						
13		3						
14		2						
15	0.3	4		15-17	slightly moist	6in/24in	Brown M SAND with trace Gravel	no odor no staining
16		3						
17		4						
18								
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-06		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 2/12/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	0.5	30 35 41 16		20-22	slightly moist	6in/24in	Brown M SAND with trace Brick and Gravel	no odor no staining REFUSAL @ 22 ft Move over approx. 5 ft east and continue
22								
23								
24								
25	0.1	6 13 5 31		25-27	moist	4in/24in	Dark Brown M SAND with trace Gravel	no odor no staining
26								
27								
28								
30	0.2	13 24 25 32		30-32	moist	12in/24in	Dark Brown M SAND with trace Gravel	no odor no staining
31								
32								
33								
35	0.2	4 13 15 10		35-37	moist	12in/24in	Dark Brown M SAND with trace Gravel and Clay	no odor no staining
36								
37								
38								
39								
40		5						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-06	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/12/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.9	8	GFSB06-	40-42	moist	12in/24in	Light Brown M SAND with trace Gravel	no odor no staining
		6	40-42					
42		4						
43								
44								
45		7		45-47		0in/24in	Brown M SAND with trace Gravel	no recovery
46		7						
47		6						
48		8						
49								
50	0.0	10	GFSB06	50-52	saturated	18in/24in	Brown M SAND with trace Gravel	No odor No staining
51		7	50-52					
52		9					Groundwater interface encountered at 50 ft bgs.	Samples GFSB06-40-42 and GFSB06-50-52 submitted for analysis on 2/15/07
53		8						
54								
55								
56								
57								
58								
59								
60								
End of boring at 60 ft bgs								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-07	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/13/2007	
Drilling Co: Aquifer Drilling & Testing Inc.	Location of boring (not to scale) Near south entrance to Mcgurl building	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone & Brian Dortch		
Total Depth: 60 ft Depth to Water: 50 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.9	4		5-7	slightly moist	6in/24in	Dark Brown M SAND with trace Gravel	no odor no staining
6		6						
7	0.0	7		7-9	slightly moist	12in/24in	Light Brown M SAND with trace Gravel	no odor no staining
8		3						
9	0.4	4		9-11	slightly moist	12in/24in	Light Brown M SAND with trace Gravel	no odor no staining
10		4						
11		3						
12		4						
13								
14								
15	0.0	4		15-17	slightly moist	4in/24in	Dark Brown M SAND with trace Gravel	no odor no staining
16		3						
17		2						
18		2						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-07		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 2/13/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	4		20-22	slightly moist	4in/24in	Dark Brown M SAND with Clay	no odor slight staining
21		3						
22		3						
23		4						
24								
25	0.0	100/6in		25-27	moist	6in/24in	Dark Brown M soft CLAY	no odor no staining
26								
27								
28								
29								
30	1.4	29		30-32	slightly moist	4in/24in	Light Gray M SAND	no odor no staining
31		21						
32		15						
33		14						
34								
35	92.0	29	GFSB07-35-37	35-37	moist	6in/24in	Light Brown M SAND with trace Gravel	slight odor no staining
36		21						
37		16						
38		15						
39								
40		11						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-07	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/13/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	71.2	9		40-42	slightly moist	8in/24in	Light Grayish brown M SAND with trace Gravel	strong odor no staining
42		10						
43		13						
44								
45	84.0	11		45-47	slightly moist	8in/24in	Light Grayish brown M SAND with trace Gravel	strong odor no staining
46		11						
47		9						
48		9						
49								
50	77.2	12	GFSB07-	50-52	saturated	18in/24in	Light Grayish brown M SAND with trace Gravel	strong odor no staining
51		12	50-52					
52		16						
53		12					Groundwater interface encountered at 50 ft bgs.	
54								Samples GFSB07-35-37 and GFSB07-50-52 submitted for analysis on 2/15/07
55								
56								
57								
58								
59								
60								
End of boring at 60 ft bgs								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-08	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: LIRR	Date: 2/15/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale)	
Method: Hollow Stem Auger (HSA)	East of McGurl building	
Personnel: Kimberly Simone & Jessica Ferngren	South of driveway	
Total Depth: 60 ft	Depth to Water: 50 ft	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.0	4		5-7	slightly moist	12in/24in	Light Brown SILT with trace Gravel	no odor no staining
6		4						
7		3						
8	0.0	5		7-9	slightly moist	6in/24in	Light Brown SILT with trace Gravel	no odor no staining
9		7						
10	0.0	10		9-11	slightly moist	8in/24in	Light Brown M SAND with trace Gravel	no odor no staining
11		8						
12		7						
13								
14								
15	0.1	4		15-17	slightly moist	9in/24in	Light Brown M SAND with trace Gravel	no odor no staining
16		4						
17		4						
18		5						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-08		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 2/15/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20		7		20-22		0in/24in		no recovery
21		6						
		5						
22		5						
23								
24								
25	1.0	23		25-27	moist	12in/24in	Light and Dark Brown M SAND with little Gravel	slight odor no staining
26		21						
27		23						
28		18						
29								
30	4.3	25		30-32	saturated	8in/24in	DarkBrownish Black M SAND with trace course Gravel	strong odor slight staining
31		18						
32		18						
33		12						
34								
35	2.1	10		35-37		4in/24in	Black Gravel	slight odor no stain
36		18						
37		23						
38		21						
39								
40								
		21						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-08	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/15/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	102.0	18	GFSB08-40-42	40-42	wet	14in/24in	Light to Dark Brown M SAND with trace Gravel	strong odor no stain
42		15						
43		10						
44								
45	52.2	11	GFSB08-45-47	45-47	wet	18in/24in	Light to Dark Brown M SAND with trace Gravel	strong odor no stain
46		11						
47		12						
48		13						
49								
50		13		50-52	saturated	18in/24in	Light to Dark Brown M SAND with trace Gravel	strong odor no stain
51		13						
52		14						
53		12					Groundwater interface encountered at 50 ft bgs.	Samples GFSB08-45-47 and GFSB08-40-42 submitted for analysis on 2/15/07
54								
55								
56								
57								
58								
59								
60							End of boring at 60 ft bgs	

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-09	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/14/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) Driveway north of McGurl building	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone and Brian Dortch		
Total Depth: 55 ft Depth to Water: 45 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand cleared to 5 feet bgs.
2								
3								
4								
5	0.0	4		5-7	slightly moist	12in/24in	Dark Brown M soft CLAY	no odor no staining
6		5						
7		4						
8	0.0	2						
9		7		7-9	slightly moist	6in/24in	Dark Brown M soft CLAY with trace Gravel	no odor no staining
10		7						
11		8						
12	0.0	10		9-11	slightly moist	12in/24in	Brown M soft CLAY with brown M SAND with trace Brick and Gravel	no odor no staining
13		25						
14		22						
15		18						
16		24						
17								
18								
19	0.2	50/50		15-17	slightly moist	6in/24in	Brown M soft CLAY	no odor no staining
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-09		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill Yard					Date: 2/14/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	9		20-22	slightly moist	6in/24in	Dark Brown M soft CLAY with trace Gravel	no odor no staining
21		7						
22		30 9						
23								
24								
25	0.3	7	GFSB09-25-27	25-22	slightly moist	12in/24in	Brown M SAND with Clay and trace Gravel	no odor no staining
26		7						
27		12 12						
28								
29								
30	0.0	9		30-32	moist	1in/24in	Brown M SAND with trace Gravel	no odor no staining
31		12						
32		9 13						
33								
34								
35	0.0	9		35-37	moist	12in/24in	Brown M SAND with trace Gravel	no odor no staining
36		10						
37		11 12						
38								
39								
40		8						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-09	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/14/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.0	9		40-42	moist	12in/24in	Brown M SAND with trace Gravel	no odor no staining
42		10						
43		10						
44								
45	0.0	6	GFSB09-	45-47	saturated	18in/24in	Brown M SAND with trace Gravel Groundwater interface encountered at 45 ft bgs.	no odor no staining
46		9	45-47					
47		8						
48		9						
49								Samples GFSB09-25-22 and GFSB09-45-47 submitted for analysis on 2/15/07
50								
51								
52								
53								
54								
55							End of boring at 55 ft bgs	
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-12	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/19/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) Receiving Tracks of Richmond Hill Yard	
Method: Hollow Stem Auger (HSA)		
Personnel: Jessica Ferngren		
Total Depth: 60 ft Depth to Water: 48 ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							ASPHALT	Hand cleared to 5 feet bgs
2								
3								
4								
5	0.3	5		5-7	slightly moist	6in/24in	Brown F and M SAND	
6		5						
7		6						
8	0.0	5		7-9	slightly moist	12in/24in	Yellowish Brown F and M SAND	
9		5						
10	36.0	6	GFSB-12-9-11	9-11	slightly moist	12in/24in	Yellowish Brown F and M SAND	
11		3						
12		5						
13		7						
14								
15	0.4	14		15-17	slightly moist	6in/24in	Yellowish Brown F and M SAND with trace Gravel	
16		11						
17		17						
18		22						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-12		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 2/19/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	17		20-22	slightly moist	6 in/24in	Yellowish Brown F and M SAND	
21		11						
22		15						
23		9						
24								
25	0.0	16		25-27	slightly moist	6in/24in	Yellowish Brown F and M SAND	
26		14						
27		12						
28		17						
29								
30	0.2	18		30-32	slightly moist	6in/24in	Yellowish Brown F and M SAND	
31		13						
32		16						
33		12						
34								
35	0.0	20		35-37	slightly moist	12in/24in	Yellowish Brown F and M SAND	
36		12						
37		14						
38		16						
39								
40								
		20						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-12	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill	Date: 2/19/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.1	7		40-42	slightly moist	12in/24in	Yellowish Brown F and M SAND	Samples GFSB12-9-11 and GFSB12-45-47 submitted for analysis on 2/23/07
42		3						
43		7						
44								
45	12.1	10	GFSB12-45-47	45-47	slightly moist	6in/24in	Yellowish Brown F and M SAND	
46		12						
47		7					Groundwater interface encountered between 47-50 ft bgs.	
48		9						
49								
50	27.6	7		50-52	saturated	6in/24in	Yellowish Brown F and M SAND	
51		8						
52		9						
53		13						
54								
55								
56								
57								
58								
59								
60							End of boring at 60 ft bgs	

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-13	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/20/2007	
Drilling Co: Aquifer Drilling & Testing, Inc.	Location of boring (not to scale) Receiving Tracks at Richmond Hill Yard	
Method: Hollow Stem Auger (HAS)		
Personnel: Jessica Ferngren		
Total Depth: <u>55 ft</u> Depth to Water: <u>46 ft</u>		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							ASPHALT (1.5ft)	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.2	14		5-7		0in/24in	No Recovery	
6		7						
7		5						
8	0.1	3		7-9		0in/24in	No Recovery	very soft
9		4						
10	0.2	4		9-11	slightly moist	12in/24in	Yellowish Brown F and M SAND	slight petroleum odor
11		6						
12		4						
13								
14								
15	0.4	24		15-17	slightly moist	6in/24in	Yellowish Brown F and M SAND	slight petroleum odor
16		36						
17		18						
18		21						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-13		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 2/20/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	1.1	36		20-22	slightly moist	6in/24in	Brown F and M SAND	
21		24						
22		25						
23		21						
24							Brown F and M SAND	
25	0.2	12		25-27	slightly moist	6in/24in		
26		24						
27		30						
28		18					Light Yellowish Brown M and F SAND	
29								
30	2.6	19	GFSB-13-	30-32	slightly moist	8 in/24in		
31		16	30-32					
32		16					Light Yellowish Brown M and F SAND	
33		17						
34								
35	1.0	15		35-37	slightly moist	3 in/24in		
36		12						
37		8						
38		16						
39								
40		12						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-13	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: LIRR-Richmond Hill	Date: 2/20/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	1.3	10		40-42	slightly moist	6 in/24in	Yellowish Brown F and M SAND	Samples GFSB12-9-11 and GFSB12-30-32 submitted for analysis on 2/23/07
42		15						
43		10						
44								
45	0.9	15	GFSB13-45-47	45-47	slightly moist	12in/24in	Yellowish Brown F and M SAND	
46		17			saturated		Groundwater interface encountered at 46 ft bgs.	
47		11						
48		13						
49								
50								
51								
52								
53								
54								
55							End of boring at 55 ft bgs	
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-14	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 2/20/2007	
Drilling Co: Aquifer Drilling and Testing, Inc.	Location of boring (not to scale) Receiving Tracks at Richmond Hill Yard	
Method: Hollow Stem Auger (HSA)		
Personnel: Jessica Ferngren		
Total Depth: 55ft Depth to Water: 46ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							ASPHALT (1.5ft)	Hand Cleared to 5 ft bgs
2								
3								
4								
5	8.3	3		5-7	slightly moist	6in/24in	Yellowish Brown F and M SAND	
6		3						
7		2						
8	2.6	2	GFBS-14-7-9	7-9	slightly moist	8in/24in	Yellowish Brown F and M SAND	
9		2						
10	0.8	4		9-11	slightly moist	3in/24in	Yellowish Brown F and M SAND	
11		3						
12		2						
13								
14								
15	1.1	7		15-17	slightly moist	6in/24in	Yellowish Brown F and M SAND	
16		8						
17		9						
18		3						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-14		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 2/20/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.9	10		20-22	slightly moist	3in/24in	Yellowish Brown F and M SAND	
21		12						
		8						
22		10						
23								
24								
25		12		25-27		0in/24in	No Recovery Rock at bottom of spoon	
26		17						
		21						
27		10						
28								
29								
30	0.6	24		30-32	slightly moist	3in/24in	Yellowish Brown F and M SAND with some C and F Gravel	
31		21						
		20						
32		16						
33								
34								
35	1.6	20		35-37	slightly moist	4in/24in	Yellowish Brown F and M SAND with some C and F Gravel	
36		12						
		8						
37		12						
38								
39								
40		18						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-14	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 2/20/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	1.0	16		40-42	slightly moist	2in/24in	Yellowish Brown F and M SAND with some C and F Gravel	
42		17						
43		10						
44								
45	8.1	12	GFSB14-	45-47	slightly moist	12in/24in	same as above (6 in) 3 in - Grayish Brown F and M SAND 3 in - Yellowish Brown F and M SAND Groundwater interface encountered at 46 ft bgs.	slight petroleum odor
46		10	45-47		saturated			
47		17						
48		15						
49								Samples GFSB14-7-9 and GFSB14-45-47 submitted for analysis on 2/23/07
50								
51								
52								
53								
54								
55							End of boring at 55 ft bgs	
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR							Boring No.: MW-GF-15	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813							Sheet 1 of 3		
Site Location: Richmond Hill Yard							Date: 3/1/2007		
Drilling Co: Aquifer Drilling and Testing, Inc.							Location of boring (not to scale) Upgradient background Richmond Hill -92nd street		
Method: Hollow Stem Auger (HSA)									
Personnel: Kimberly Simone									
Total Depth: 45ft Depth to Water: 35ft									
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks	
1							GRAVEL	Hand Cleared to 5 ft bgs	
2							3 refusals @ 3 ft		
3									
4									
5	0.0	2		5-7	very moist	14in/24in	Brown and Black M SAND, CLAY	no odor no staining	
6		2							
7		2							
8	97.7	4		7-9	moist	8in/24in	Brown and Light Brown M SAND with little Gravel	petroleum odor no staining	
9		5							
10		7							
11	0.0	13		9-11	slightly moist	12in/24in	Brown M SAND with some Gravel	petroleum odor no staining	
12		22							
13		21							
14		18						tough drilling @ ~11 ft	
15	359.0	10	GFSB15-15-17	15-17	slightly moist	12in/24in	Brown and Light Brown M SAND with trace Gravel	petroleum odor no stain	
16		12							
17		15							
18		11							
19									
20									

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-15		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 3/1/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	48.2	10 12		20-22	slightly moist	12in/24in	Light Brown and Brown M SAND with trace Gravel	petroleum odor slight staining
22		8 10						
23								
24								
25	0.0	6		25-27	slightly moist	15in/24in	Light Brown and Brown M SAND with trace Gravel	petroleum odor slight staining
26		7						
27		7 8						
28								
29								
30	0.0	8	GFSB15-30-32	30-32	slightly moist	12in/24in	Light Brown and Brown M SAND with trace Gravel	petroleum odor no staining
31		9						
32		9 5						
33								
34								
35	0.0	5		35-37	saturated	18in/24in	Light Brown and Brown M SAND with trace Gravel Groundwater interface encountered at 35 ft bgs.	no staining petroleum odor
36		5						
37		4 5						
38								
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-15	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 3/1/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								Samples GFSB15-15-17 and GFSB15-30-32 submitted for analysis on 3/2/07
42								
43								
44								
45							End of boring at 45 ft bgs	
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-16	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 2	
Site Location: Richmond Hill Yard	Date: 3/2/2007	
Drilling Co: Aquifer Drilling and Testing, Inc.	Location of boring (not to scale)	
Method: Hollow Stem Auger (HSA)	Upgradient background	
Personnel: Kimberly Simone	Richmond Hill -92nd street	
Total Depth: 45ft	Depth to Water: 35ft	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							GRAVEL	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.0	2		5-7	wet	6in/24in	Brown and Light Brown M SAND with trace Gravel	no odor no staining
6		2						
7		1						
8	0.0	2		7-9	slightly moist	6in/24in	Light Brown M SAND with trace Gravel	no odor no staining
9		2						
10	0.0	9	GFSB16	9-11	slightly moist	10in/24in	Light Brown M SAND with trace Gravel	no odor no staining
11		12	9-11					
12		11	MS/MSD					
13		10	DUP					
14								
15		100/0in		15-17		0in/24in	Rocks, Boulders	unable to retrieve spoon sample
16								
17								
18								
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-16		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 2			
Site Location: Richmond Hill					Date: 3/2/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21		100/0in		20-22		0in/24in	Rocks, Boulders	unable to retrieve spoon sample
22								
23								
24								
25	0.0	5		25-27	slightly moist	12in/24in	Light Brown M SAND with trace Gravel	no odor no staining
26		5						
27		4 3						
28								
29								
30	0.0	9	GFSB16-30-32	30-32	slightly moist	10in/24in	Light Brown M SAND with trace Gravel	no odor no staining
31		12						
32		13 11						
33								
34								
35							Groundwater interface encountered at 35 ft bgs.	
36								
37								
38								
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-16	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 3/2/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								Samples GFSB16-9-11 and GFSB16-30-32 submitted for analysis on 3/2/07
42								
43								
44								
45							End of boring at 45 ft bgs	
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-17	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Richmond Hill Yard	Date: 3/2&5/2007	
Drilling Co: Aquifer Drilling and Testing, Inc.	Location of boring (not to scale)	
Method: Hollow Stem Auger (HSA)	92nd st.	
Personnel: Kimberly Simone	Corner of 92nd and 130th	
Total Depth: 45ft	Depth to Water: 35ft	Richmond Hill

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							GRAVEL	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.0	8		5-7	slightly moist	8in/24in	Brown and Dark Brown M SAND with trace Gravel	no odor no staining
6		8						
7		9						
8	0.0	7		7-9	saturated	24in/24in	Brown M SAND with trace Gravel	no odor no staining
9		4						
10		4						
11	0.0	5		9-11	slightly moist	20in/24in	Light and Dark Brown M SAND with trace Gravel	no odor no staining
12		9						
13		8						
14		7						
15		9						
16	0.0	10	GFSB17-15-17	15-17	slightly moist	12in/24in	Light and Dark Brown M SAND with trace Gravel	no odor no staining
17		12						
18		10						
19		11						
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-17		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 3/2&5/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	12		20-22	slightly moist	10in/24in	Light and Dark Brown M SAND with trace Gravel	no odor no staining
21		11						
22		11						
23		8						
24								
25		5		25-27		0in/24in	Light and Dark Brown M SAND with trace Gravel	no recovery
26		5						
27		7						
28		9						
29								
30	0.0	11	GFSB17-	30-32	slightly moist	18in/24in	Light and Dark Brown M SAND with trace Gravel	no odor no staining
31		11	30-32					
32		10						
33		8						
34								
35	0.0	4		35-37	saturated	18in/24in	Light and Dark Brown M SAND Groundwater interface encountered at 35 ft bgs.	
36		4						
37		5						
38		4						
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-17	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 3/2&5/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

End of boring at 45 ft bgs

Samples
GFSB17-15-17
and
GFSB17-30-32
submitted for
analysis
on 3/9/07

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR							Boring No.: MW-GF-18	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813							Sheet 1 of 3		
Site Location: Richmond Hill Yard							Date: 3/12/2007		
Drilling Co: Aquifer Drilling and Testing, Inc.							Location of boring (not to scale) Richmond Hill Top of Driveway		
Method: Hollow Stem Auger (HSA)									
Personnel: Kimberly Simone									
Total Depth: 60ft Depth to Water: 50ft									
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks	
1							ASPHALT	Hand Cleared to 5 ft bgs	
2									
3									
4									
5	0.0	6		5-7	dry	2in/24in	Asphalt, brick	slight odor no staining	
6		12							
7		13							
8	34.8	11		7-9	dry	15in/24in	Asphalt, brick	slight odor no staining	
9		9							
10	53.2	11	GFSB18-9-11	9-11	slightly moist	15in/24in	Light Brown and Brown C SAND with trace Gravel	slight odor slight staining	
11		11							
12		8							
13		10							
14									
15		10		15-17		0in/24in	no recovery		
16		12							
17		11							
18		8							
19									
20									

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-18		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Richmond Hill					Date: 3/12/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	36.0	18 21 23 25		20-22	wet	6in/24in	Black and Brown M SAND with some Gravel	slight odor slight staining
22								
23								
24								
25		100/0in		25-27		0in/24in	Rock	unable to retrieve spon sample
26								
27								
28								
29								
30								
31		20 18 19		30-32		0in/24in	no recovery	
32								
33								
34								
35	27.7	12 18 22 24		35-37	dry	6in/24in	Dark Brown M SAND with some Gravel	petroleum odor no staining
36								
37								
38								
39								
40		18						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-18	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Richmond Hill Yard	Date: 3/12/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	46.8	10		40-42	slightly moist	3in/24in	Brown M SAND with little Gravel very rocky ~ 42ft	petroleum odor no staining
42		10						
43		12						
44								
45	56.7	12	GFSB18-	45-47	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	petroleum odor no staining
46		10	45-47					
47		13						
48		9						
49								
50							Groundwater interface encountered at 50 ft bgs.	Samples GFSB18-9-11 and GFSB18-45-47 submitted for analysis on 3/16/07
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
End of boring at 60 ft bgs								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-21	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Morris Park	Date: 3/27/2007	
Drilling Co: Jersey Boring and Drilling, Inc	Location of boring (not to scale) Tracks by Dunton Tower	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: 45ft Depth to Water: 36ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							GRAVEL	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.4	7		5-7	slightly moist	18in/24in	Light Brown M SAND with some Rock	no odor no staining
6		19						
7		45						
8	0.8	26	GFSB21-7-9	7-9	slightly moist	1in/24in	Light Brown M and C SAND with some Rock	no odor no staining
9		38						
10		81						
11		100/3in						
12		48		9-11		0in/24in	no recovery Boulder	
13		47						
14		100/0in						
15								
16	0.3	6		15-17	moist	10in/24in	Light Brown C SAND with trace Gravel	no odor no staining
17		5						
18		12						
19		12						
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-21		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/27/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.5	16		20-22	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining
21		11						
22		10						
23		10						
24								
25	0.2	6		25-27	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining
26		9						
27		12						
28		14						
29								
30	0.2	5	GFSB21-	30-32	moist	18in/24in	Light Brown C SAND with trace Gravel	no odor no staining
31		8	30-32					
32		7	MS &					
33		14	MSD					
34								
35	0.2	7	GFSB21-	35-37	slightly moist	18in/24in	Light Brown C SAND with trace Gravel	no odor no staining
36		9	35-37					
37		10	& DUP		saturated			
38		11					Groundwater interface encountered at 36 ft bgs.	
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-21	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/27/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								
42								
43								
44								
45								
46							End of boring at 45 ft bgs	Samples GFSB23-25-27 and GFSB23-35-37 submitted for analysis on 3/27/07
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR							Boring No.: MW-GF-22		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440		
Project #: 45813							Sheet 1 of 3				
Site Location: Morris Park							Date: 3/26/2007				
Drilling Co: Jersey Boring and Drilling, Inc							Location of boring (not to scale) Tracks by Dunton Tower				
Method: Hollow Stem Auger (HSA)											
Personnel: Jessica Ferngren											
Total Depth: 45ft Depth to Water: 36ft											
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks			
1							BLUESTONE Dark Brown silty SAND	Hand Cleared to 5 ft bgs			
2											
3											
4											
5	0.2	2		5-7	slightly moist	8in/24in	Dark Brown to Black F to C SAND with some Gravel	no odor no staining			
6		3									
7		2									
8	0.4	3	GFSB22-7-9	7-9	slightly moist	6in/24in	Dark Brown to Black F to C SAND with some Gravel	no odor no staining			
9		2									
10	0.1	4		9-11	slightly moist	6in/24in	Dark Brown to Black F to C SAND with some Gravel and trace Wood	no odor no staining			
11		6									
12		34					Rock at bottom of spoon				
13											
14											
15	0.3	34		15-17		6in/24in	Yellowish Brown F and M SAND with little Gravel	no odor no staining			
16		31									
17		26									
18		13									
19											
20											

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-22		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/26/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	0.2	15 16		20-22	slightly moist	12in/24in	Yellowish Brown F SAND with trace Gravel	no odor no staining
22		15 15						
23								
24								
25	0.1	8 9		25-27	slightly moist	12in/24in	Yellowish Brown F SAND with trace Gravel	no odor no staining
26		13 13						
27								
28								
30	0.0	13 15		30-32	slightly moist	12in/24in	Yellowish Brown F SAND with trace Gravel	no odor no staining
31		15 17						
32								
33								
35	0.0	8 10	GFSB22-35-37	35-37	slightly moist	12in/24in	Yellowish Brown F SAND with trace Gravel	no odor no staining
36		10 14			saturated			
37								
38								
39							Groundwater interface encountered at 36 ft bgs.	
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-22	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/26/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								
42								
43								
44								
45								
46							End of boring at 45 ft bgs	Samples GFSB22-7-9 and GFSB22-35-37 submitted for analysis on 3/27/07
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-23	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Morris Park	Date: 3/23/2007	
Drilling Co: Jersey Boring and Drilling, Inc	Location of boring (not to scale) Tracks by Dunton Tower	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: 48ft Depth to Water: 37ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							GRAVEL	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.0	2		5-7	dry	12in/24in	Black ASPHALT	no odor no staining
6		2						
7	0.0	3		7-9	dry	5in/24in	Black ASPHALT	no odor no staining
8		2						
9	0.0	4		9-11	slightly moist	18in/24in	Black ASPHALT with trace of Rock and Wood	no odor no staining
10		2						
11		5						
12		5						
13								
14								
15	0.0	41		15-17	slightly moist	18in/24in	Brownish Orange C SAND with little Gravel	no odor no staining
16		32						
17		60						
18		29						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-23		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/23/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.1	12		20-22	slightly moist	5in/24in	Brownish Orange M SAND with trace Gravel	no odor no staining
21		15						
22		26						
23		41						
24								
25	0.1	8	GFSB23-25-27	25-27	wet	12in/24in	Brownish Orange M SAND with trace Gravel	no odor no staining
26		15						
27		10						
28		2						
29								
30	0.0	14		30-32	slightly moist	12in/24in	Brownish Orange M SAND with trace Gravel	no odor no staining
31		17						
32		14						
33		14						
34								
35	0.0	10	GFSB23-35-37	35-37	slightly moist	18in/24in	Brownish Orange M SAND with trace Gravel	no odor no staining
36		14						
37		8						
38		7						
39							Groundwater interface encountered at 37 ft bgs.	
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-23	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/23/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								Samples GFSB23-25-27 and GFSB23-35-37 submitted for analysis on 3/27/07
42								
43								
44								
45								
46								
47								
48							End of boring at 48 ft bgs	
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-24	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Morris Park	Date: 3/22/2007	
Drilling Co: Jersey Boring and Drilling, Inc	Location of boring (not to scale) Tracks by Dunton Tower	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: 48ft Depth to Water: 37ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							GRAVEL	Hand Cleared to 5 ft bgs
2							very soft	
3								
4							8in ASPHALT 6in Yellowish Brown M SAND and CLAY	no odor no staining
5	0.1	5		5-7	slightly moist	14in/24in		
6		6					ASPHALT and Yellowish Brown F and M SAND and CLAY	no odor no staining
7		4						
8	0.0	2		7-9	slightly moist	10in/24in	ASPHALT and Yellowish Brown F and M SAND and CLAY	no odor no staining
9		2						
10	0.0	6		9-11	slightly moist	14in/24in	ASPHALT and Yellowish Brown F and M SAND and CLAY	no odor no staining
11		5						
12		4					Yellowish Brown C SAND with some Gravel	no odor no staining
13		3						
14							GFSB24-15-17	
15	0.1	30		15-17	slightly moist	20in/24in		
16		25						
17		33						
18		51						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-24		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/22/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	0.1	100/3in		20-22	slightly moist	3in/24in	Yellowish Brown M SAND Rock at bottom of spoon	no odor no staining
22								
23								
24							trouble drilling at 20-23ft	
25	0.0	18		25-27	slightly moist	12in/24in	Yellowish Brown C SAND with some Gravel	no odor no staining
26		23						
27		56						
28		46						
29								
30	0.0	14		30-32	slightly moist	18in/24in	Light Brown M and C SAND with trace Gravel	no odor no staining
31		21	GFSB24-30-32					
32		33						
33		73						
34							Cobbles	
35	0.0	11		35-37	saturated	12in/24in	Yellowish Brown C SAND with trace Gravel	no odor no staining
36		21						
37		28						
38		34					Groundwater interface encountered at 37 ft bgs.	Samples GFSB24-15-17 and GFSB24-30-32 submitted for analysis on 3/23/07
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-24	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/22/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								Samples GFSB24-15-17 and GFSB24-30-32 submitted for analysis on 3/23/07
42								
43								
44								
45								
46								
47								
48							End of boring at 48 ft bgs	
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-25	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Morris Park	Date: 3/5/2007	
Drilling Co: Aquifer Drilling and Testing, Inc.	Location of boring (not to scale) 126th st. and Atlantic Ave. Offsite, in front of Auto store	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: 45ft Depth to Water: 35ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.0	10	GFSB25-5-7	5-7	slightly moist	12in/24in	Light Brown M SAND and CLAY with trace Gravel	no odor no staining
6		12						
7		11						
8	0.0	5		7-9	slightly moist	6in/24in	Light Brown M SAND and CLAY with trace Gravel	no odor no staining
9		12						
10	0.0	8						
11		6						
12		3		9-11	slightly moist	3in/24in	Light Brown M SAND and CLAY with trace Gravel	no odor no staining
13		4						
14		2						
15		3						
16								
17								
18								
19								
20								
							Very rocky at ~ 12ft	
15	0.0	14		15-17	slightly moist	2in/24in	Brown M SAND and CLAY	no odor no staining
16		18						
17		22						
18		10						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-25		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/5/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	11		20-22	slightly moist	2in/24in	Brown M SAND and CLAY	no odor no staining
21		12						
22		14						
23		23						
24								
25	0.0	9		25-27	slightly moist	18in/24in	Brown M SAND and CLAY	no odor no staining
26		8						
27		10						
28		14						
29								
30	0.0	8	GFSB25-30-32	30-32	slightly moist	15in/24in	Light Brown M SAND	no odor no staining
31		7						
32		15						
33		12						
34								
35	0.0	2		35-37	saturated	18in/24in	Light Brown M SAND Groundwater interface encountered at 35 ft bgs.	
36		3						
37		2						
38		4						
39								
40								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-25	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/5/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41								
42								
43								
44								
45								
46							End of boring at 45 ft bgs	Samples GFSB25-5-7 and GFSB25-30-32 submitted for analysis on 3/9/07
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-26	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 1 of 3	
Site Location: Morris Park	Date: 3/20/2007	
Drilling Co: Jersey Boring and Drilling, Inc	Location of boring (not to scale) Morris Park near building in parking lot	
Method: Hollow Stem Auger (HSA)		
Personnel: Kimberly Simone		
Total Depth: 48ft Depth to Water: 38ft		

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
1							CEMENT	Hand Cleared to 5 ft bgs
2								
3								
4								
5	0.0	21		5-7	slightly moist	10in/24in	Light Brown M to C SAND with trace Gravel	no odor no staining
6		12						
7		18						
8	0.0	38		7-9	slightly moist	10in/24in	Light Brown M and C SAND with some Cobble	no odor no staining
9		21						
10	0.0	43	GFSB26-9-11	9-11	slightly moist	12in/24in	Light Brown C SAND with trace Rock	no odor no staining
11		41						
12		58						
13		41						
14		53						
15	0.0	10		15-17	slightly moist	3in/24in	Light Brown M SAND	no odor no staining
16		13						
17		15						
18		15						
19								
20								

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-26		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/20/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
20	0.0	9		20-22	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining
21		14						
22		12						
23		18						
24								
25	0.0	6		25-27	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining
26		11						
27		9						
28		7						
29								
30	0.0	7		30-32	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining
31		8						
32		8						
33		9						
34								
35	0.0	9	GFSB26-	35-37	moist	18in/24in	Light Brown C SAND with trace Gravel	no odor no staining
36		9	35-37					
37		13						
38		14						
39							Groundwater interface encountered at 38 ft bgs.	
40								
		5						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-26	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/20/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.0	8		40-42	saturated	20in/24in	Light Brown M SAND	no odor no staining
42		11 14						
43							End of boring at 48 ft bgs	Samples GFSB26-9-11 and GFSB26-35-37 submitted for analysis on 3/27/07
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

SOIL BORING LOG

Client: LIRR							Boring No.: MW-GF-27	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813							Sheet 1 of 3		
Site Location: Morris Park							Date: 3/21/2007		
Drilling Co: Jersey Boring and Drilling, Inc							Location of boring (not to scale) Morris Park near building in parking lot		
Method: Hollow Stem Auger (HSA)									
Personnel: Kimberly Simone									
Total Depth: 48ft Depth to Water: 40ft									
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks	
1							CEMENT	Hand Cleared to 5 ft bgs	
2									
3									
4									
5	0.0	13		5-7	slightly moist	12in/24in	Light Brown C SAND with trace Gravel	no odor no staining	
6		14							
7		23							
8	0.0	19	GFSB27-7-9	7-9	slightly moist	18in/24in	Light Brown C SAND with trace Gravel with some Cobble	no odor no staining	
9		16							
10	0.0	100/3		9-11	slightly moist	5in/24in	Light Brown C SAND with trace Gravel with some Cobble	no odor no staining	
11		43							
12									
13									
14									
15	0.0	9		15-17	slightly moist	12in/24in	Light Brown C SAND with trace Gravel with some Cobble	no odor no staining	
16		12							
17		9							
18		8							
19									
20									

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR					Boring No.: MW-GF-27		Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440	
Project #: 45813					Sheet 2 of 3			
Site Location: Morris Park					Date: 3/21/2007			
depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
21	0.0	4 7 10 5		20-22	slightly moist	18in/24in	Light Brown M to C SAND with trace Gravel	no odor no staining
22								
23								
24								
25	0.0	10 7 11 12		25-27	slightly moist	10in/24in	Light Brown M to C SAND with trace Gravel	no odor no staining
26								
27								
28								
29								
30	0.0	11 14 12 12		30-32	slightly moist	24in/24in	Light Brown M to C SAND with trace Gravel	no odor no staining
31								
32								
33								
34								
35	0.0	6 10 11 14	GFSB27-35-37	35-37	slightly moist	20in/24in	Light Brown M to C SAND with trace Gravel	no odor no staining
36								
37								
38								
39								
40		5						

TRACE = 1 - 10%

LITTLE = 11 - 20 %

SOME = 21 - 35%

AND = 36 - 50%

SOIL BORING LOG

Client: LIRR	Boring No.: MW-GF-27	Gannett Fleming, Inc. 480 Forest Avenue Locust Valley, NY 11560 (516) 671-8440
Project #: 45813	Sheet 3 of 3	
Site Location: Morris Park	Date: 3/21/2007	

depth (feet)	PID (ppm)	Blow Counts	Sample ID	Depth (From-To)	Moisture Content	Recovery	Soil Classification	Remarks
41	0.0	7		40-42	saturated	15in/24in	Light Brown C SAND Groundwater interface encountered at 40 ft bgs.	no odor no staining
42		8						
43							End of boring at 48 ft bgs	Samples GFSB27-7-9 and GFSB27-35-37 submitted for analysis on 3/27/07
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

TRACE = 1 - 10% LITTLE = 11 - 20 % SOME = 21 - 35% AND = 36 - 50%

APPENDIX B

Well Construction Logs

MONITORING WELL CONSTRUCTION INFORMATION

 JOB No. : 45813 CLIENT : LIRR

 LOCATION : Richmond Hill Yard, Jamaica NY

 DATE : 2/12/07 WELL No.: MW-GF-06

 HYDROGEOLOGIST : Kimberly Simone & Brian Dortch

 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

 1). SCREEN TYPE : PVC

 SLOTTED LENGTH : 20 ft

 SLOT SIZE : 10 slot

 2). SOLID PIPE TYPE : PVC piping

 SOLID PIPE LENGTH : 40 ft

 PIPE & SCREEN DIA. : 2 in

 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

 5). TYPE OF BACKFILL: Bentonite

 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

 7). PROTECTIVE CASING: YES NO

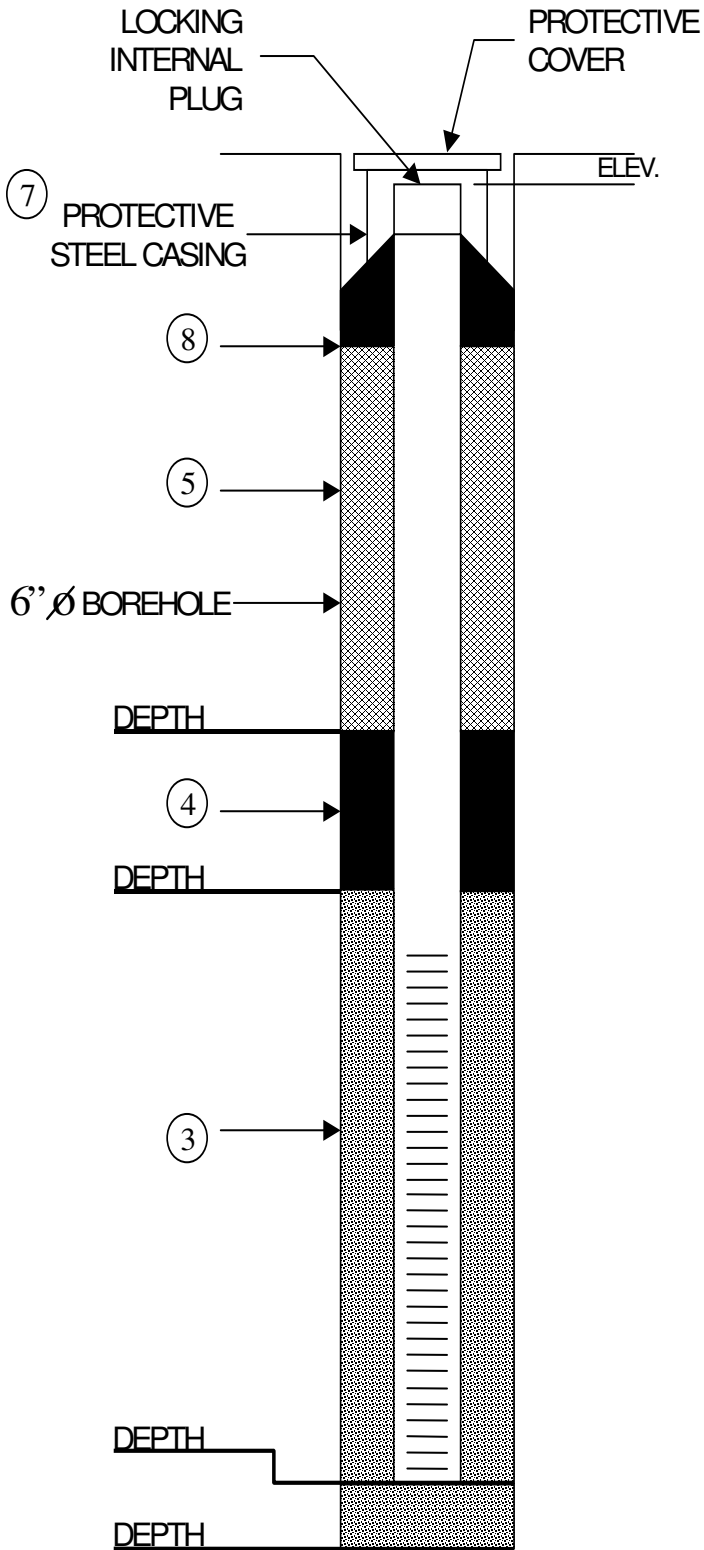
 LOCKING CAP: YES NO

 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):

N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY
 DATE : 2/13/07 WELL No.: MW-GF-07

HYDROGEOLOGIST : Kimberly Simone & Brian Dortch
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 40 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

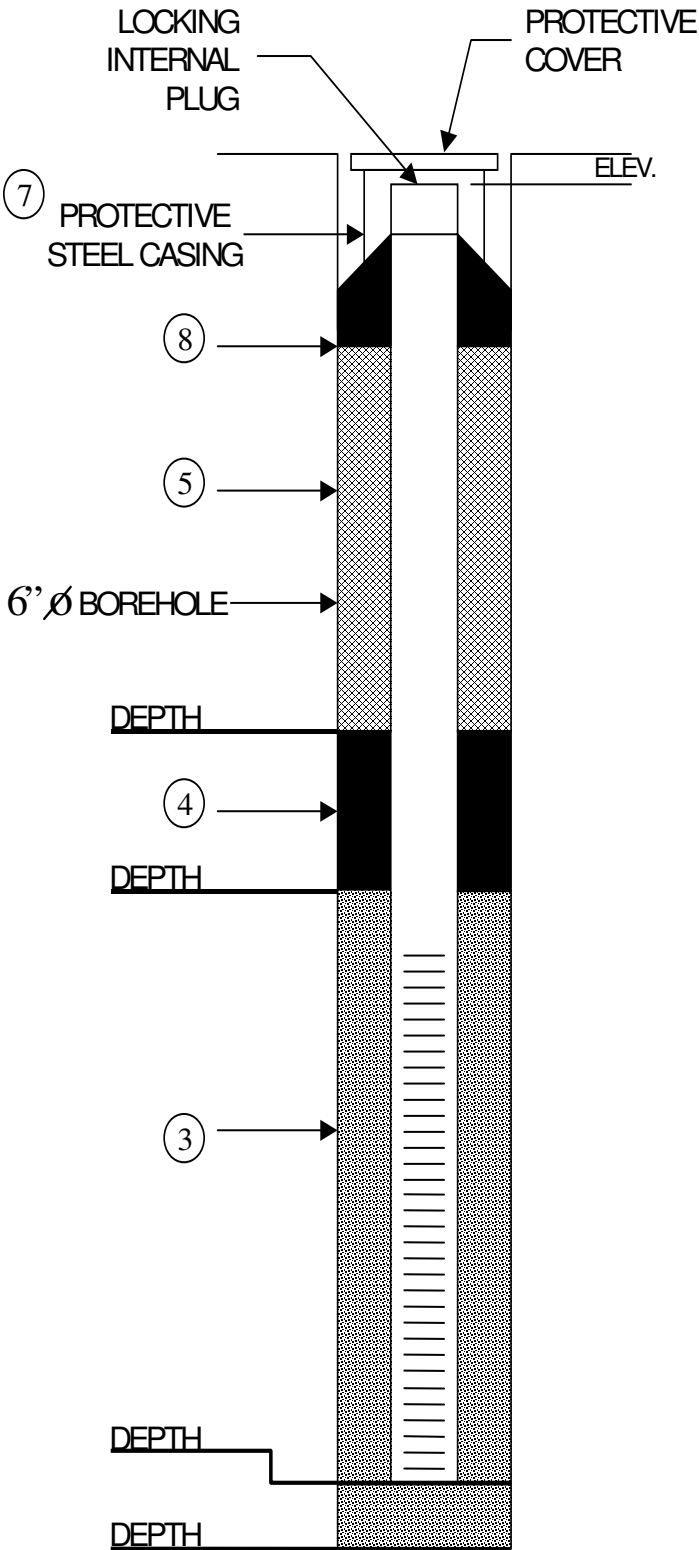
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

 JOB No. : 45813 CLIENT : LIRR

 LOCATION : Richmond Hill Yard Jamaica, NY

 DATE : 2/14/07 WELL No.: MW-GF-09

 HYDROGEOLOGIST : Kimberly Simone & Brian Dortch

 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

 1). SCREEN TYPE : PVC piping

 SLOTTED LENGTH : 20 ft

 SLOT SIZE : 10 slot

 2). SOLID PIPE TYPE : PVC piping

 SOLID PIPE LENGTH : 35 ft

 PIPE & SCREEN DIA. : 2 in

 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

 5). TYPE OF BACKFILL: Bentonite

 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

 7). PROTECTIVE CASING: YES NO

 LOCKING CAP: YES NO

 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

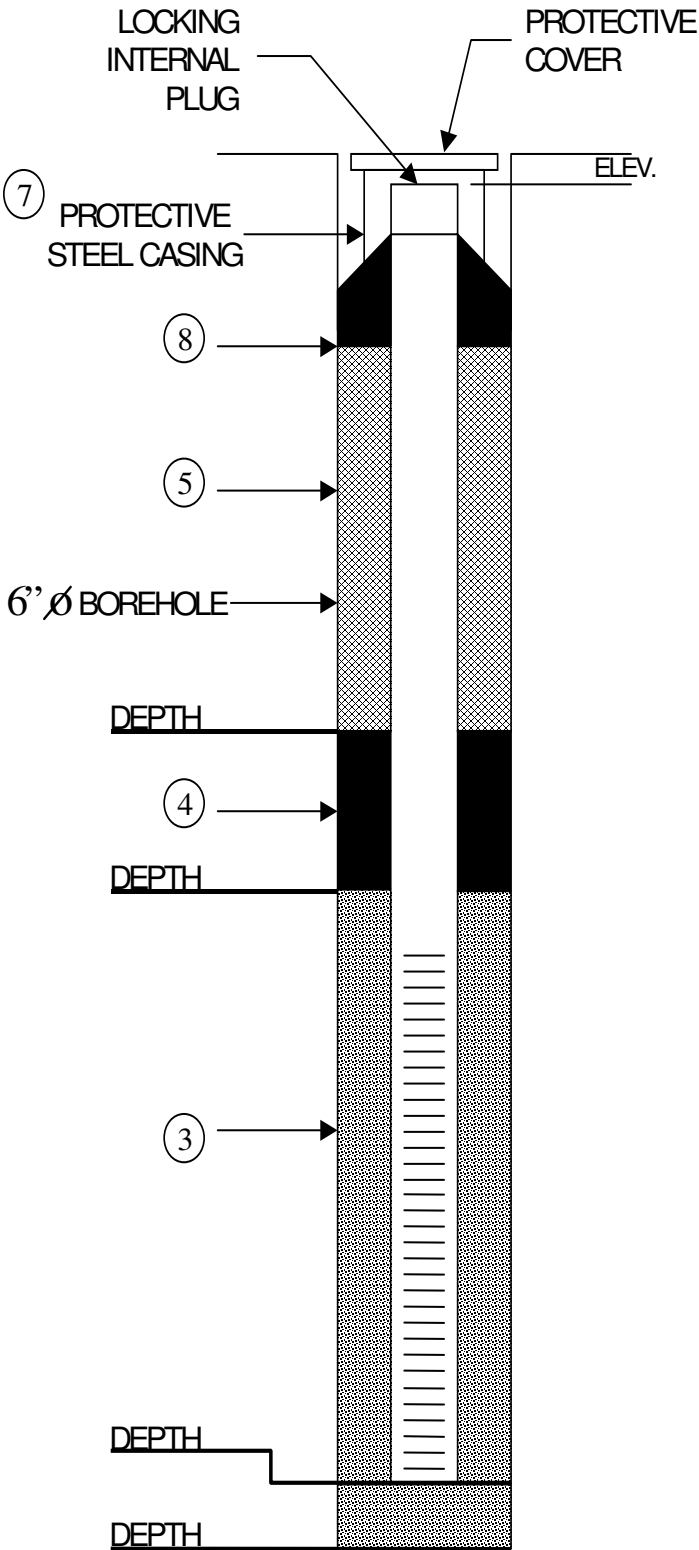
10). ADDITIVES USED (IF ANY):

N/A

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY
 DATE : 2/15/07 WELL No.: MW-GF-08

HYDROGEOLOGIST : Kimberly Simone & Jessica Ferngren
 DRILLING CONTRACTOR : Aquifer Testing & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 40 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

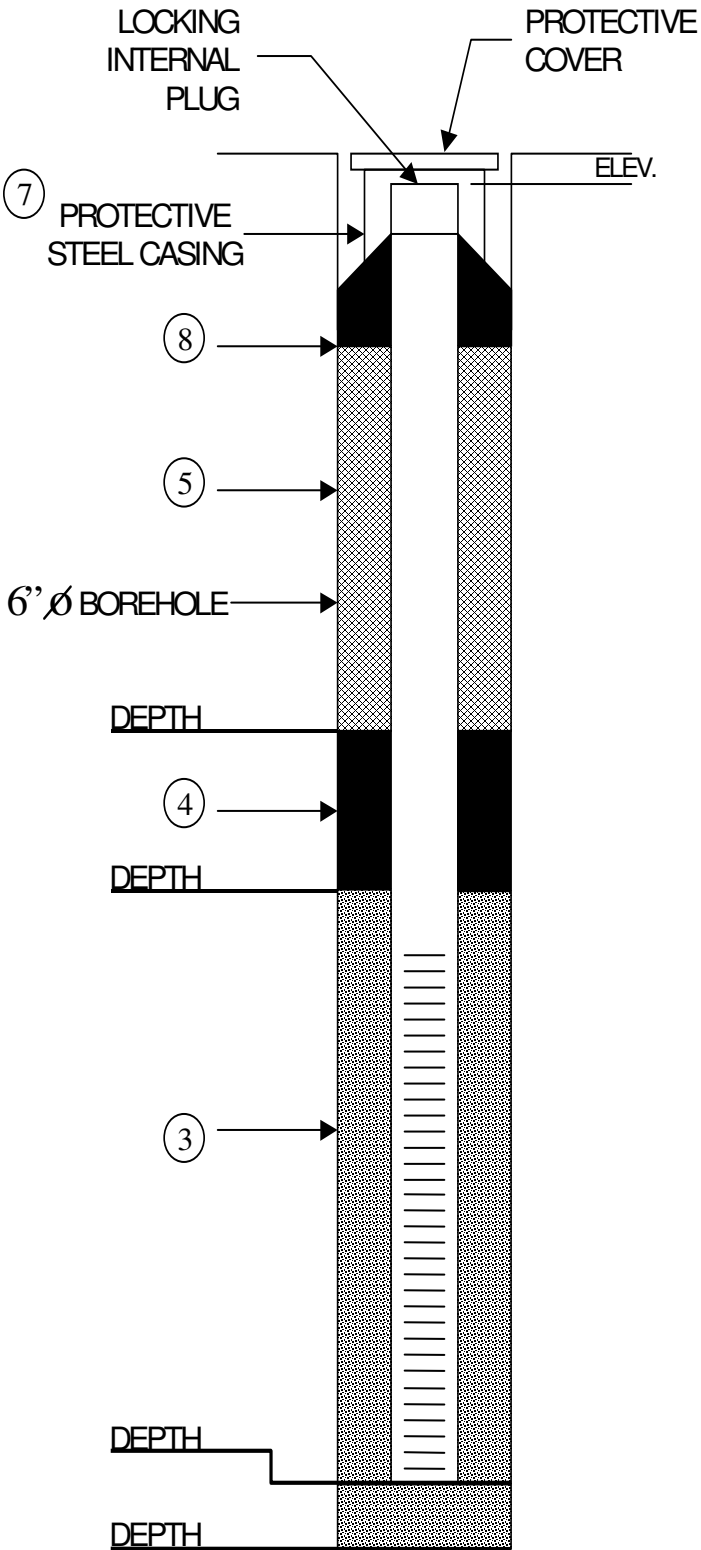
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

 JOB No. : 45813 CLIENT : LIRR

 LOCATION : Richmond Hill Yard, Jamaica NY

 DATE : 2/19/07 WELL No.: MW-GF-12

 HYDROGEOLOGIST : Jessica Ferngren

 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

 1). SCREEN TYPE : PVC

 SLOTTED LENGTH : 20 ft

 SLOT SIZE : 10 slot

 2). SOLID PIPE TYPE : PVC piping

 SOLID PIPE LENGTH : 40 ft

 PIPE & SCREEN DIA. : 2 in

 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

 5). TYPE OF BACKFILL: Bentonite

 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

 7). PROTECTIVE CASING: YES NO

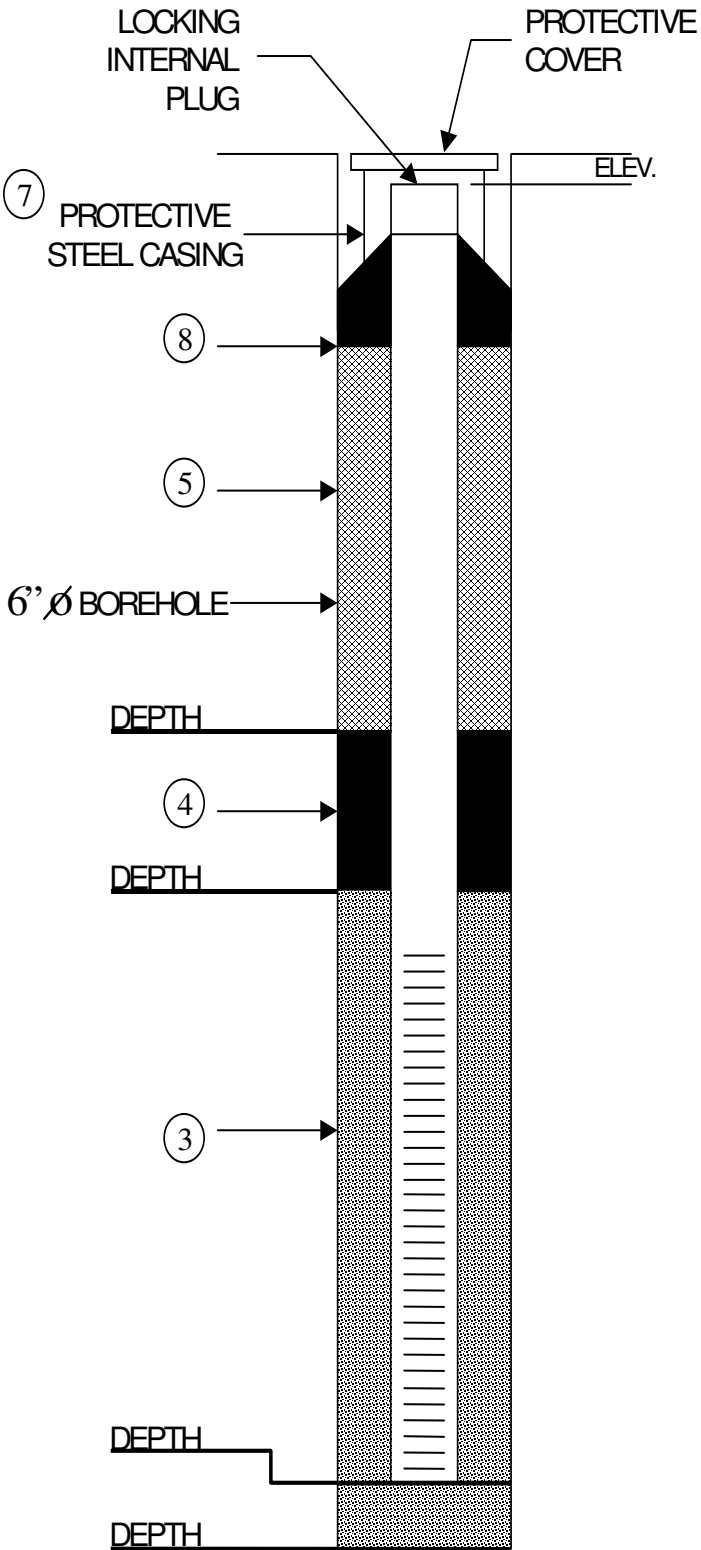
 LOCKING CAP: YES NO

 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):

N/A

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY

DATE : 2/20/07 WELL No.: MW-GF-13
 HYDROGEOLOGIST : Jessica Ferngren
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 35 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

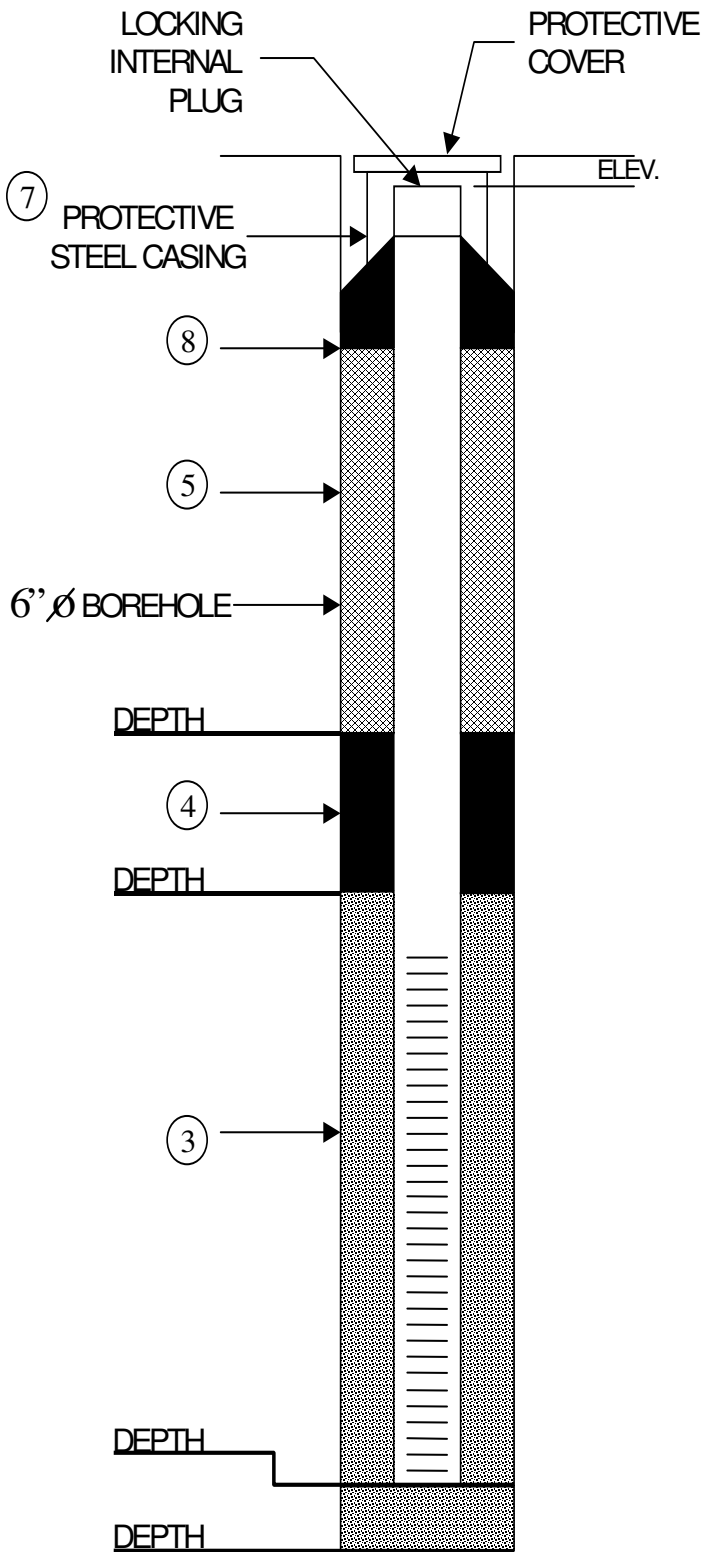
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY
 DATE : 2/28/07 WELL No.: MW-GF-5

HYDROGEOLOGIST : Jessica Ferngren & Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 35 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

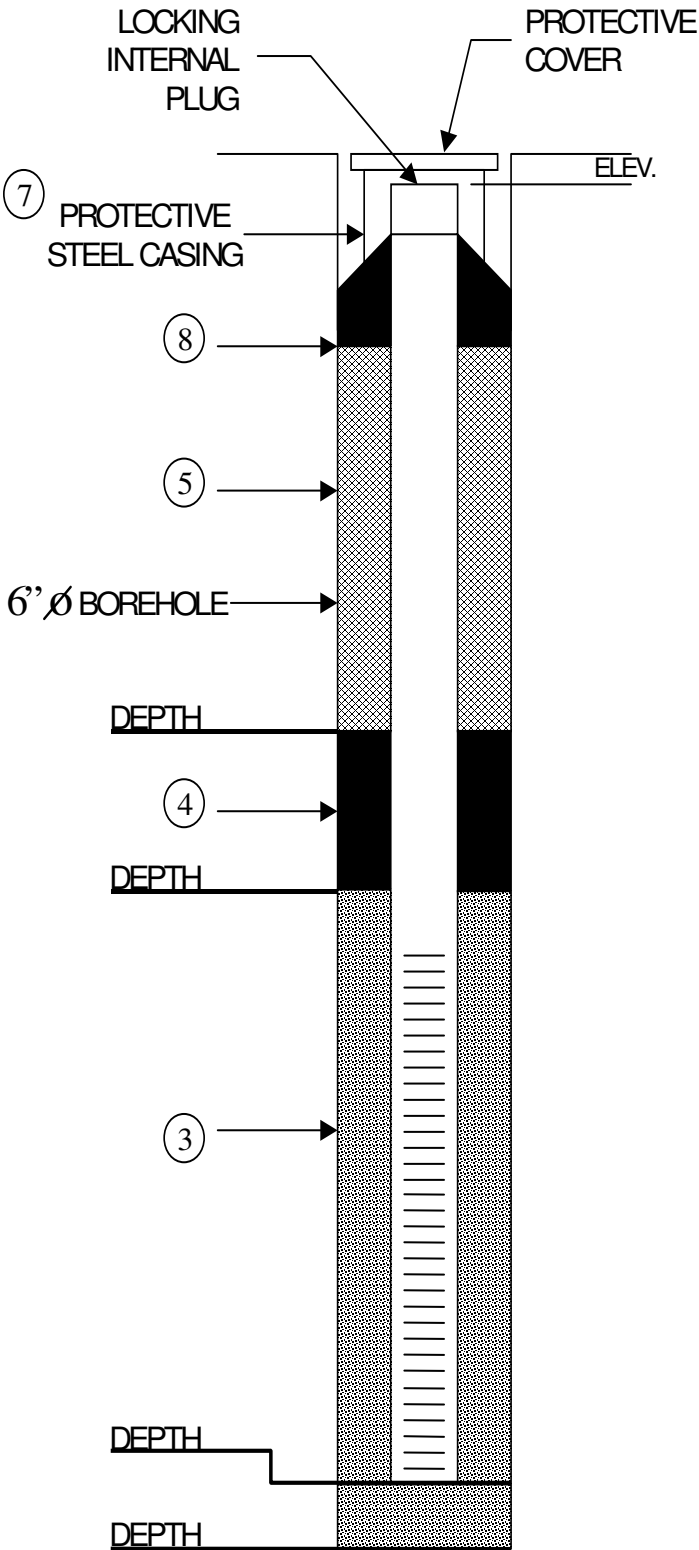
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY
 DATE : 3/2/07 WELL No.: MW-GF-15

HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Testing & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

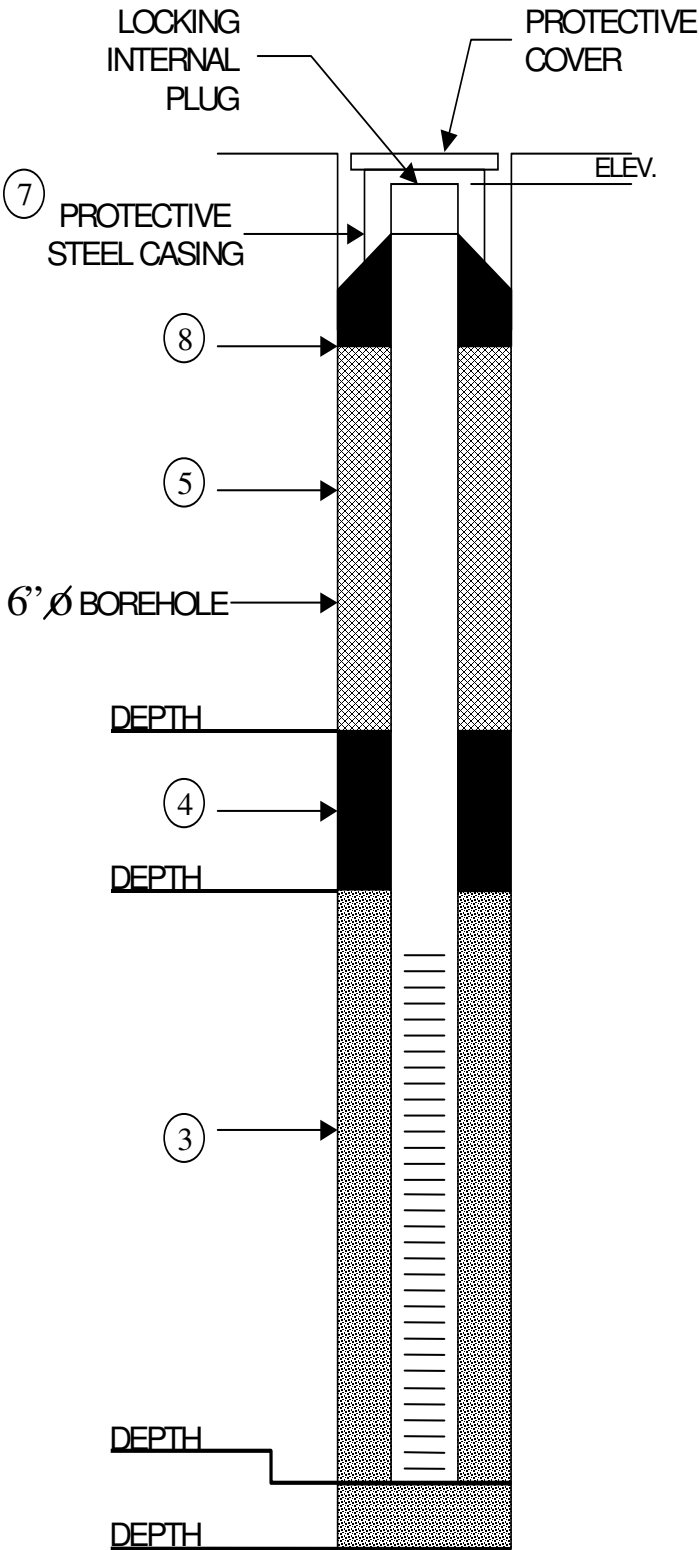
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR

LOCATION : Richmond Hill Yard, Jamaica NY

DATE : 3/2/07 WELL No.: MW-GF-16

HYDROGEOLOGIST : Kimberly Simone

DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 20 ft

SLOT SIZE : 10 slot

2). SOLID PIPE TYPE : PVC piping

SOLID PIPE LENGTH : 25 ft

PIPE & SCREEN DIA. : 2 in

JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

5). TYPE OF BACKFILL: Bentonite

HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

7). PROTECTIVE CASING: YES NO

LOCKING CAP: YES NO

8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

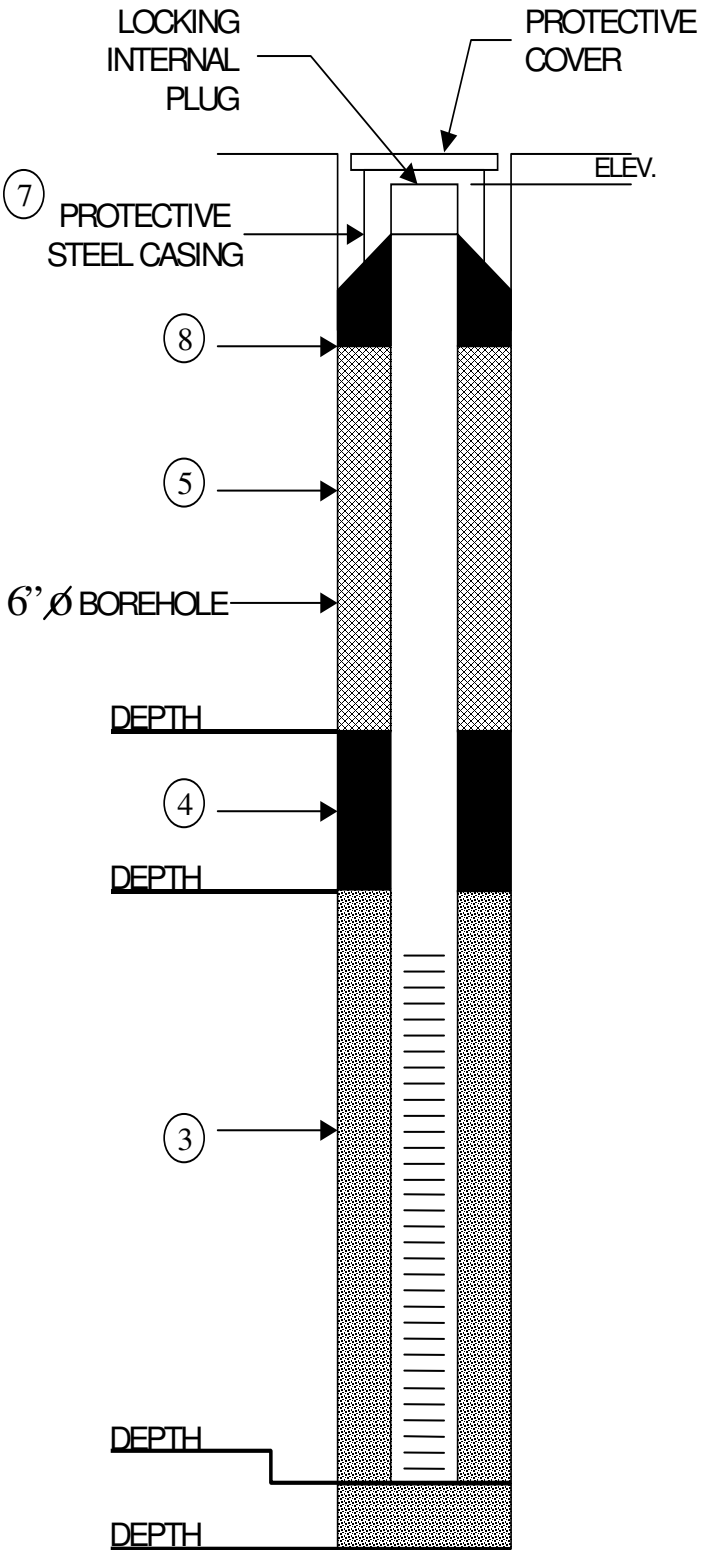
10). ADDITIVES USED (IF ANY):

N/A

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL



MONITORING WELL CONSTRUCTION INFORMATION

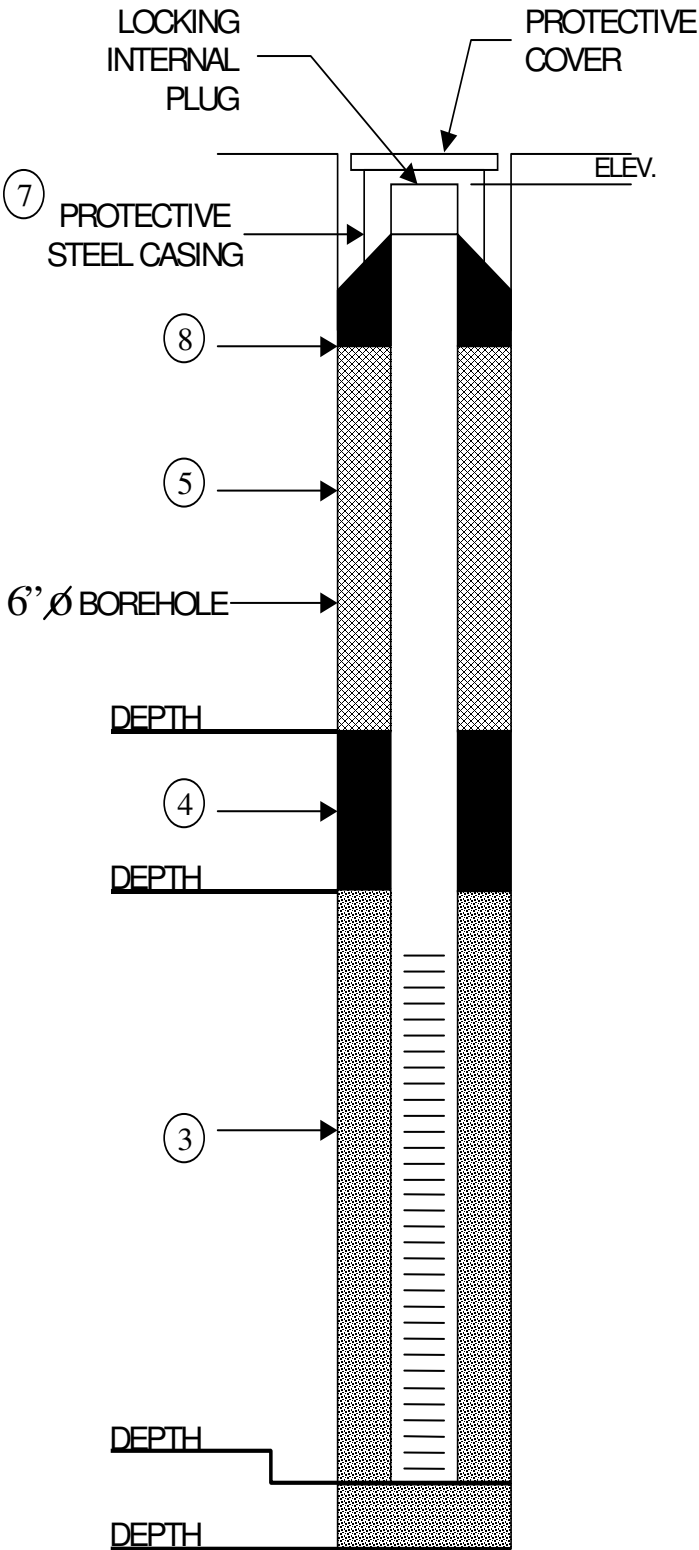
JOB No. : 45813 CLIENT : LIRR

LOCATION : Richmond Hill Yard Jamaica, NY

DATE : 3/5/07 WELL No.: MW-GF-17

HYDROGEOLOGIST : Kimberly Simone

DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.



- 1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
- 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED ✓

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING:	YES	✓	NO	
LOCKING CAP:	YES	✓	NO	
8). CONCRETE SEAL:	YES	✓	NO	

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A

WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica, NY

DATE : 3/5/07 WELL No.: MW-GF-25
 HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

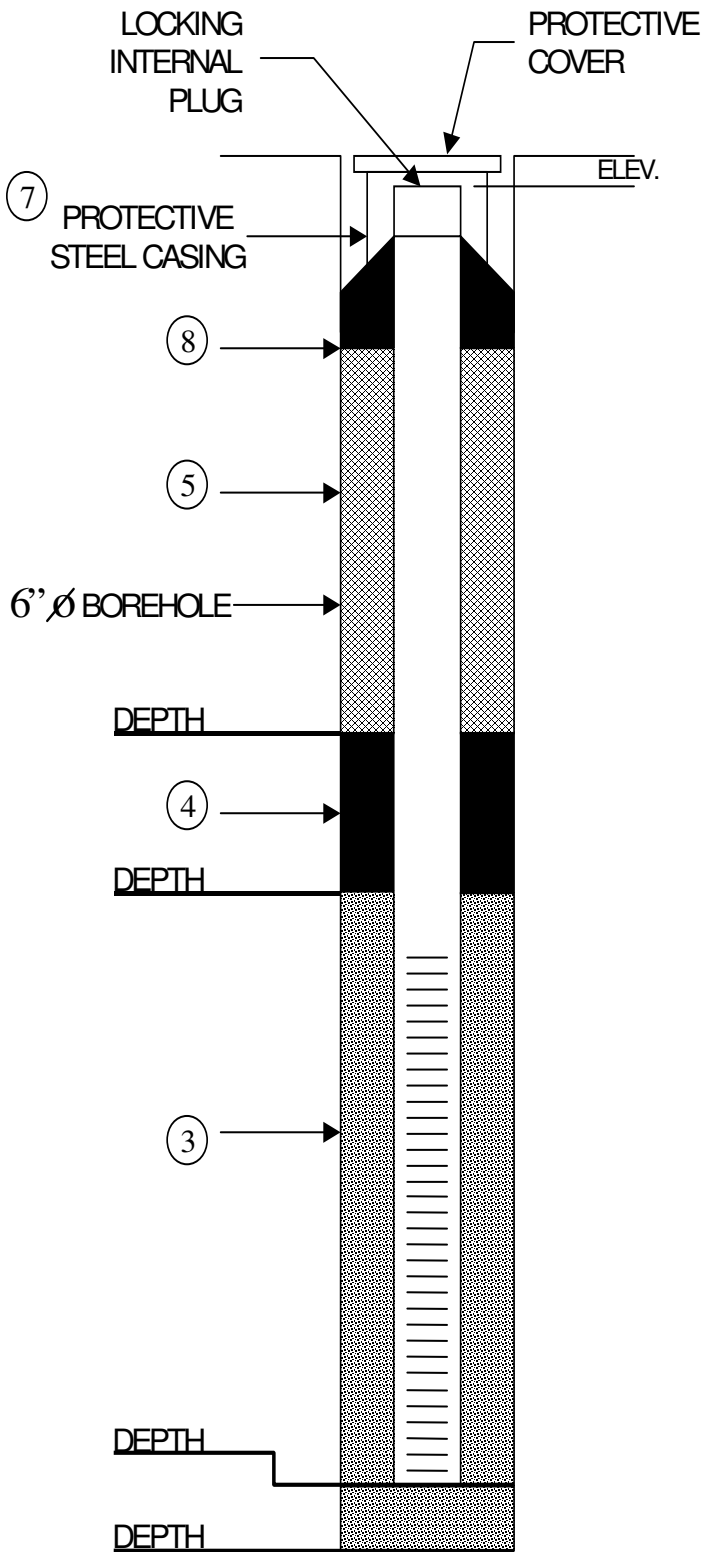
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY
 DATE : 3/13/07 WELL No.: MW-GF-18

HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Testing & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 40 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

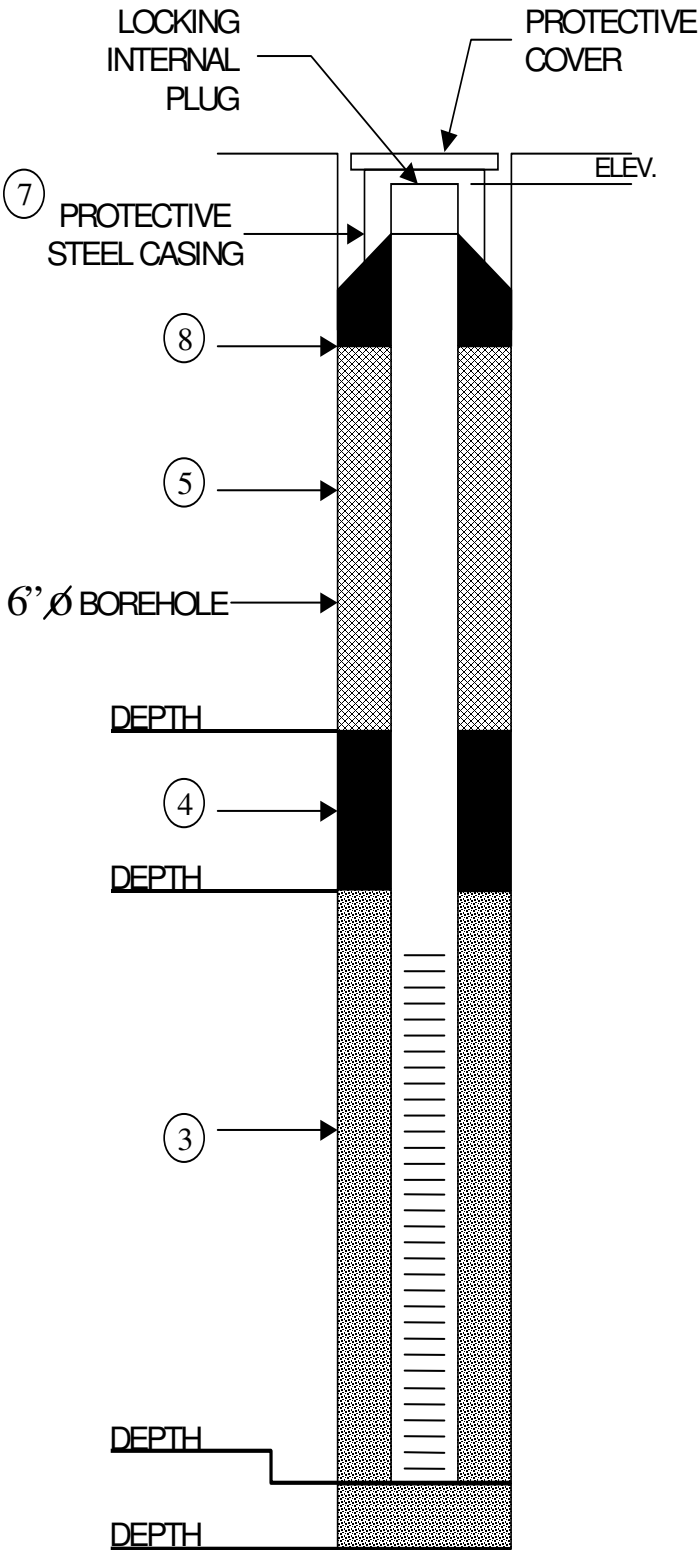
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard, Jamaica NY

DATE : 3/12/07 WELL No.: MW-GF-04
 HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 37 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

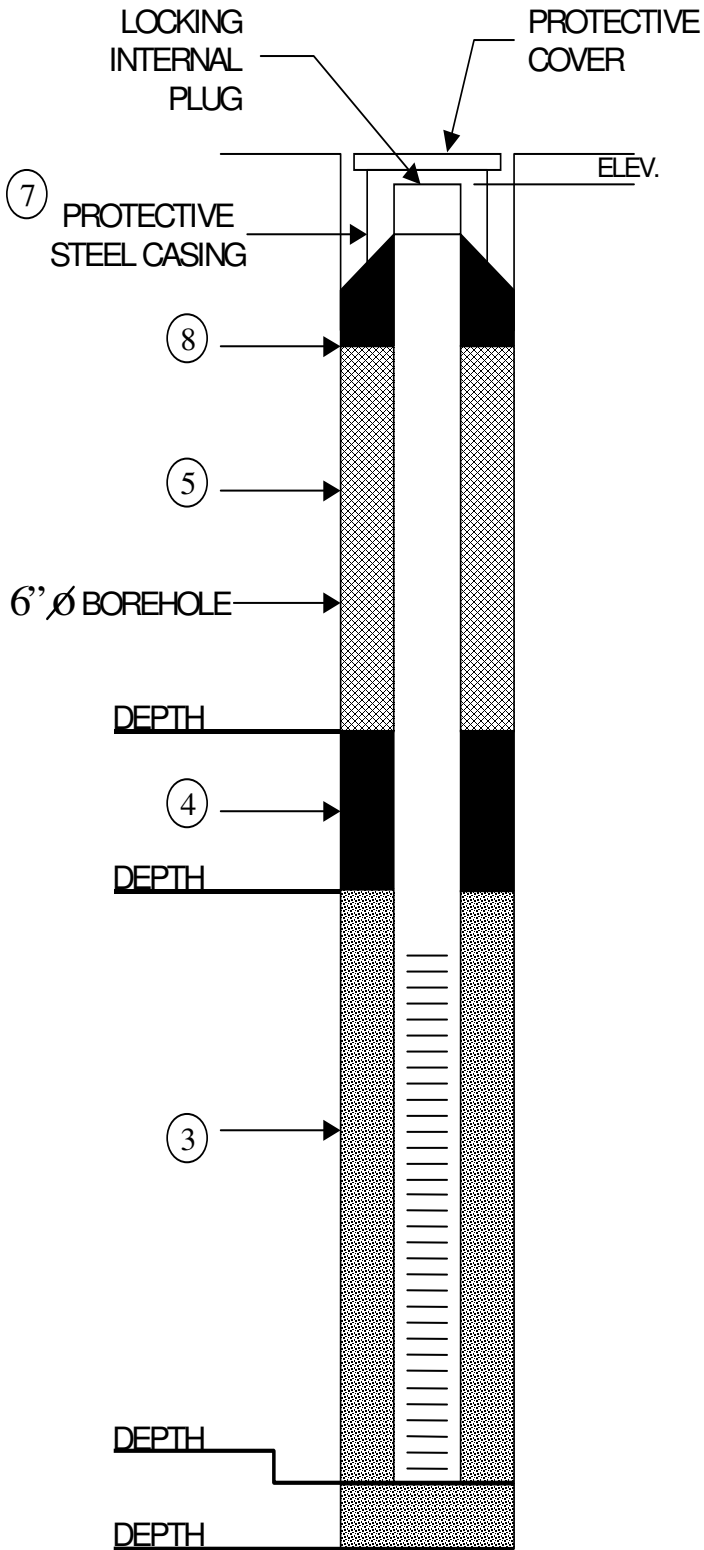
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Richmond Hill Yard Jamaica, NY

DATE : 3/14/07 WELL No.: MW-GF-02
 HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

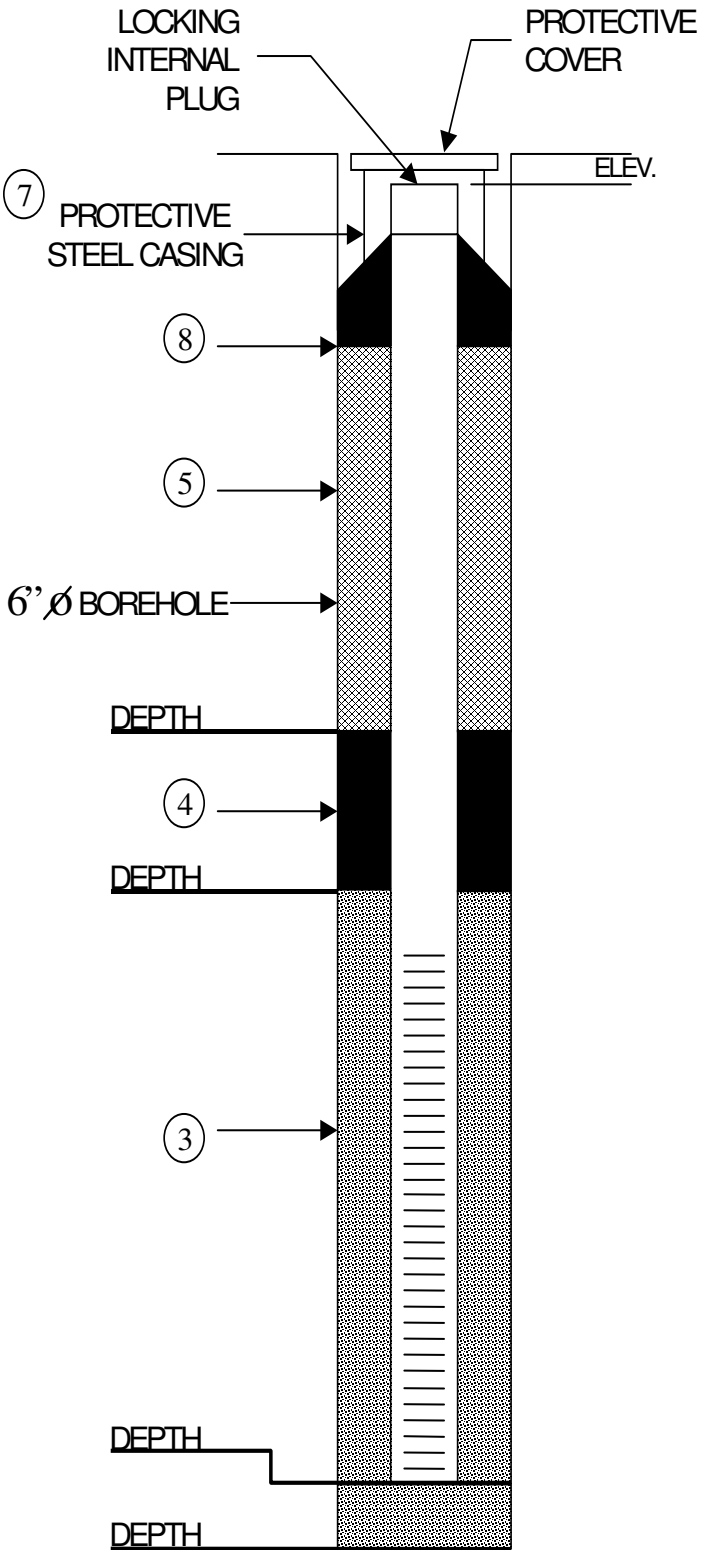
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park Jamaica, NY
 DATE : 3/19/07 WELL No.: MW-GF-20

HYDROGEOLOGIST : Kimberly Simone & Jessica Ferngren
 DRILLING CONTRACTOR : Jersey Boring and Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 23 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

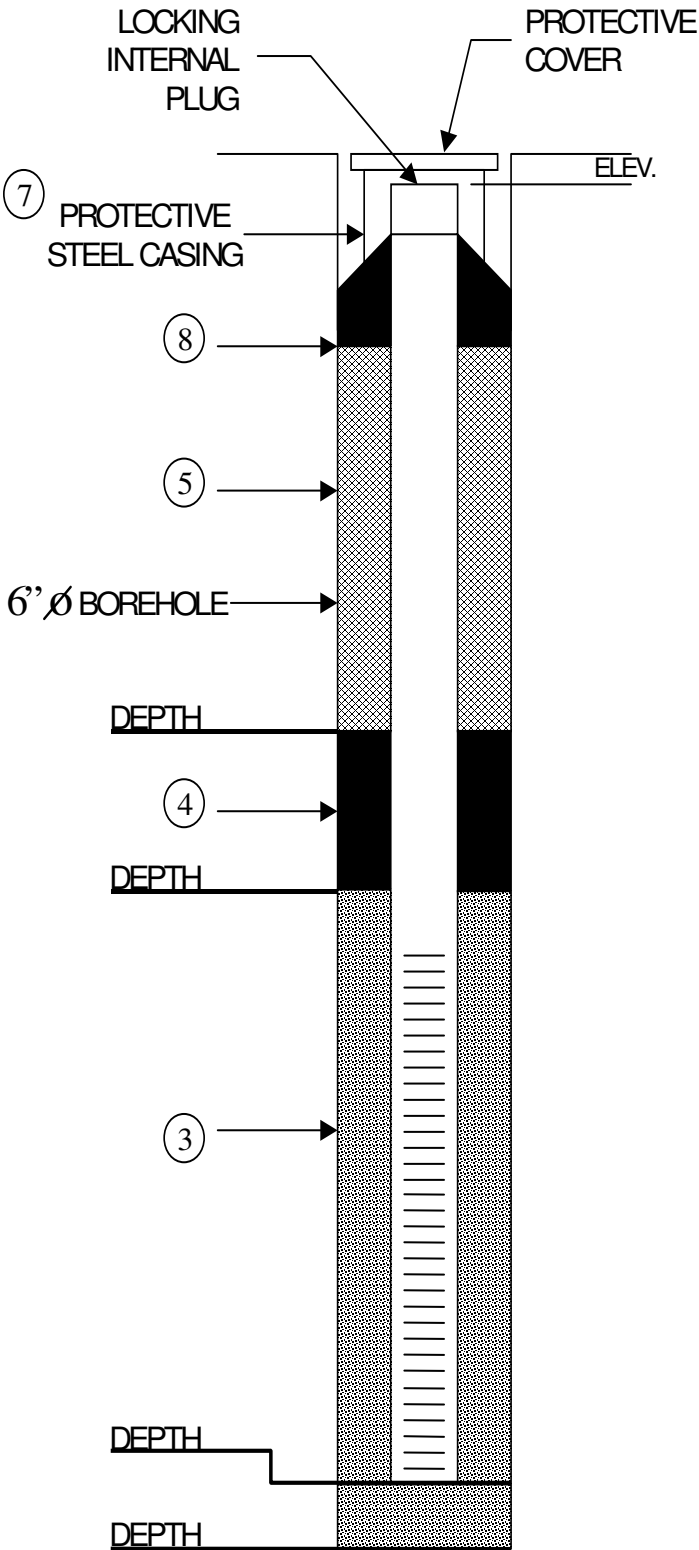
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park Jamaica, NY
 DATE : 3/26/07 WELL No.: MW-GF-22

HYDROGEOLOGIST : Jessica Ferngren
 DRILLING CONTRACTOR : Jersey Boring & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

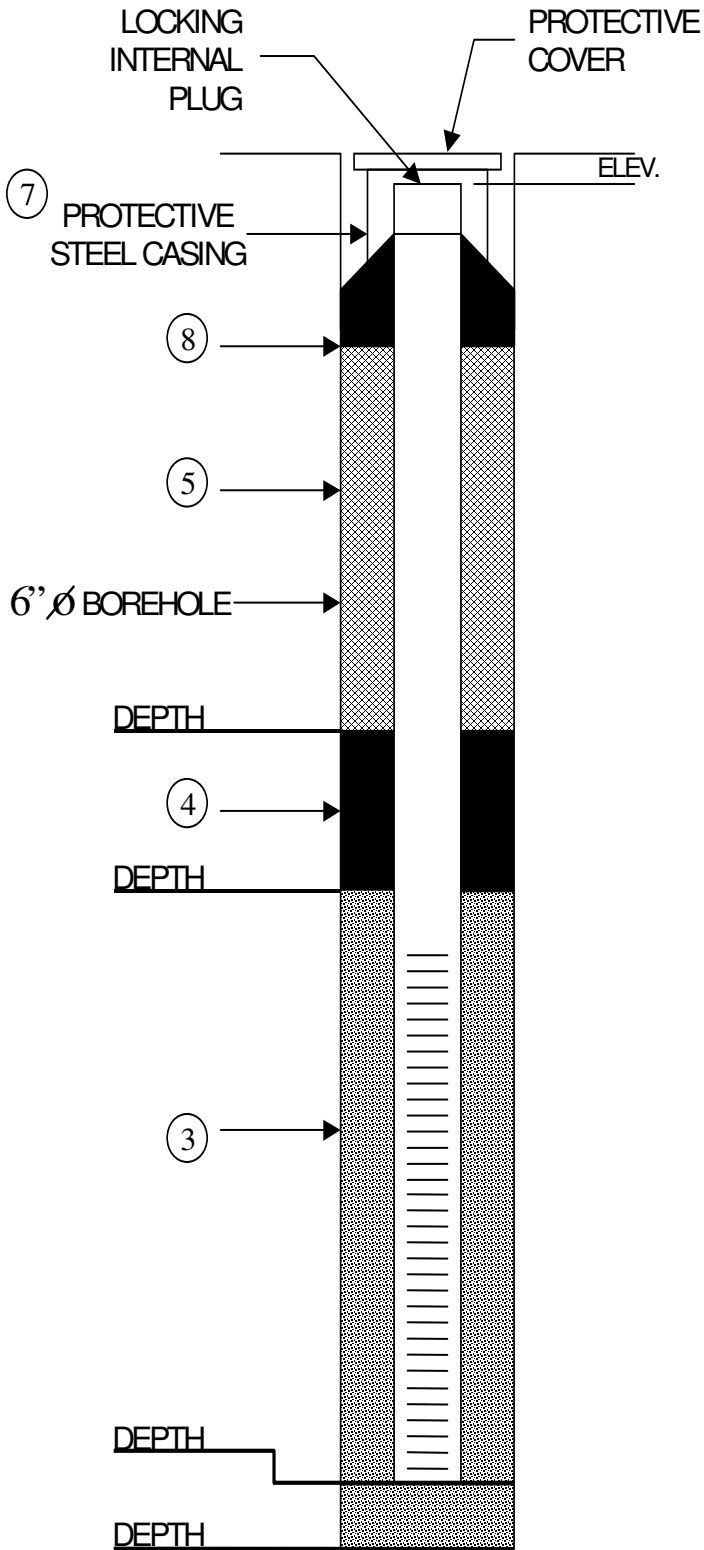
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica NY

DATE : 3/23/07 WELL No.: MW-GF-23

HYDROGEOLOGIST : Kimberly Simone

DRILLING CONTRACTOR : Jersey Boring & Drilling Inc.

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 20 ft

SLOT SIZE : 10 slot

2). SOLID PIPE TYPE : PVC piping

SOLID PIPE LENGTH : 25 ft

PIPE & SCREEN DIA. : 2 in

JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

5). TYPE OF BACKFILL: Bentonite

HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

7). PROTECTIVE CASING: YES NO

LOCKING CAP: YES NO

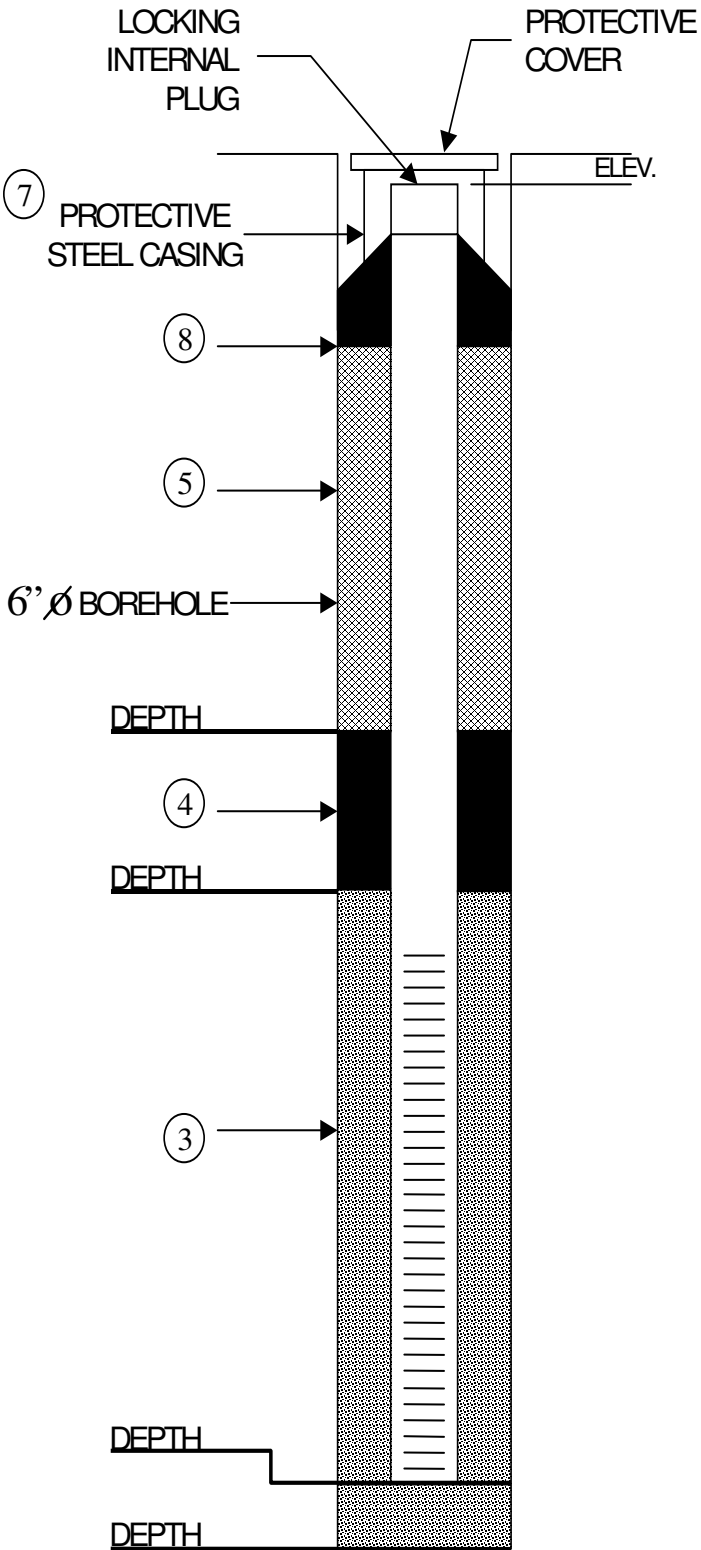
8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):

N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica, NY

DATE : 3/23/07 WELL No.: MW-GF-24

HYDROGEOLOGIST : Kimberly Simone

DRILLING CONTRACTOR : Jersey Boring & Drilling, Inc.

1). SCREEN TYPE : PVC piping

SLOTTED LENGTH : 20 ft

SLOT SIZE : 10 slot

2). SOLID PIPE TYPE : PVC piping

SOLID PIPE LENGTH : 28 ft

PIPE & SCREEN DIA. : 2 in

JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :

2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :

Bentonite

5). TYPE OF BACKFILL: Bentonite

HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):

Flush Mount Box

7). PROTECTIVE CASING: YES NO

LOCKING CAP: YES NO

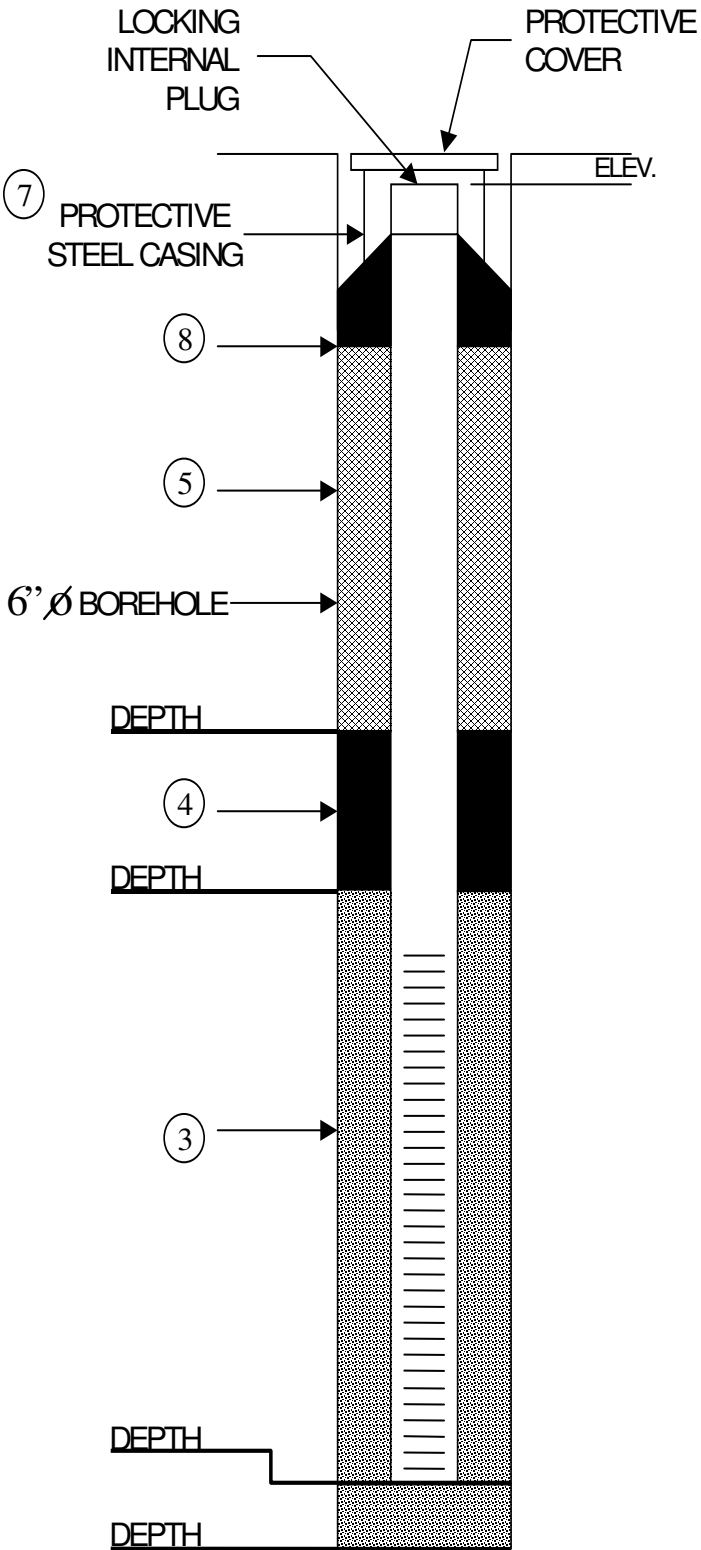
8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:

Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):

N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica, NY
 DATE : 3/20/07 WELL No.: MW-GF-26

HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Jersey Boring & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 30 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

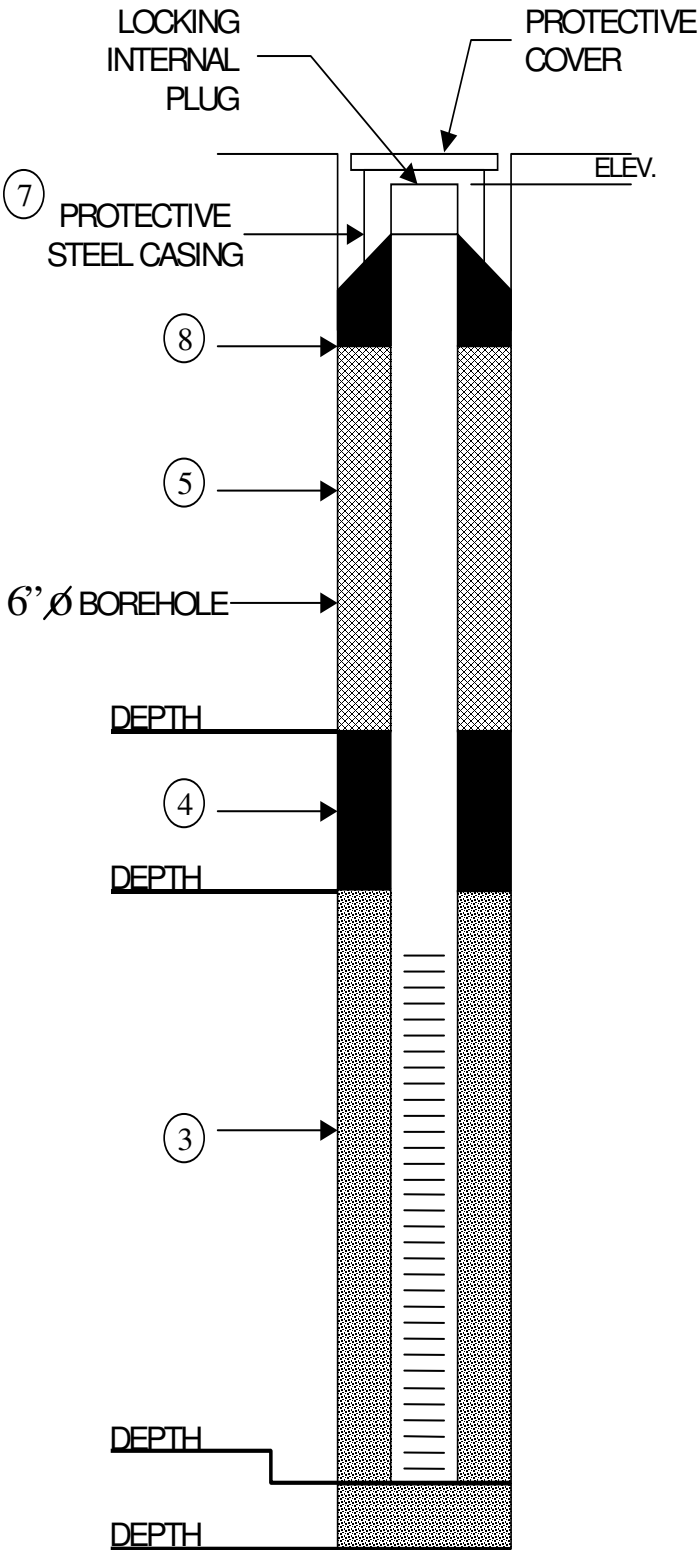
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica, NY
 DATE : 3/21/07 WELL No.: MW-GF-27

HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Jersey Boring & Drilling, Inc.

1). SCREEN TYPE : PVC piping
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 30 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

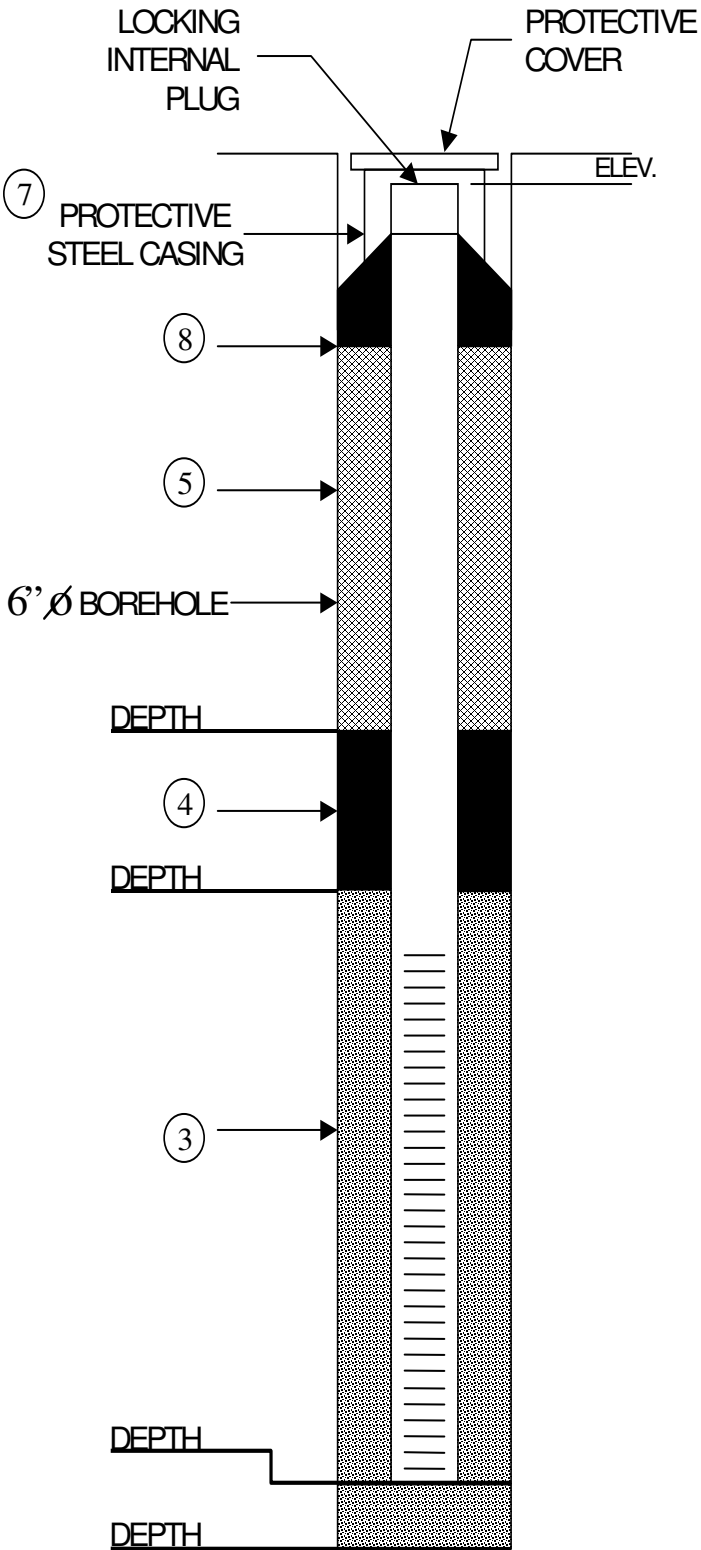
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR
 LOCATION : Morris Park, Jamaica NY

DATE : 3/27/07 WELL No.: MW-GF-21
 HYDROGEOLOGIST : Kimberly Simone
 DRILLING CONTRACTOR : Jersey Boring & Drilling, Inc.

1). SCREEN TYPE : PVC
 SLOTTED LENGTH : 20 ft
 SLOT SIZE : 10 slot
 2). SOLID PIPE TYPE : PVC piping
 SOLID PIPE LENGTH : 25 ft
 PIPE & SCREEN DIA. : 2 in
 JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN :
#2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) :
Bentonite

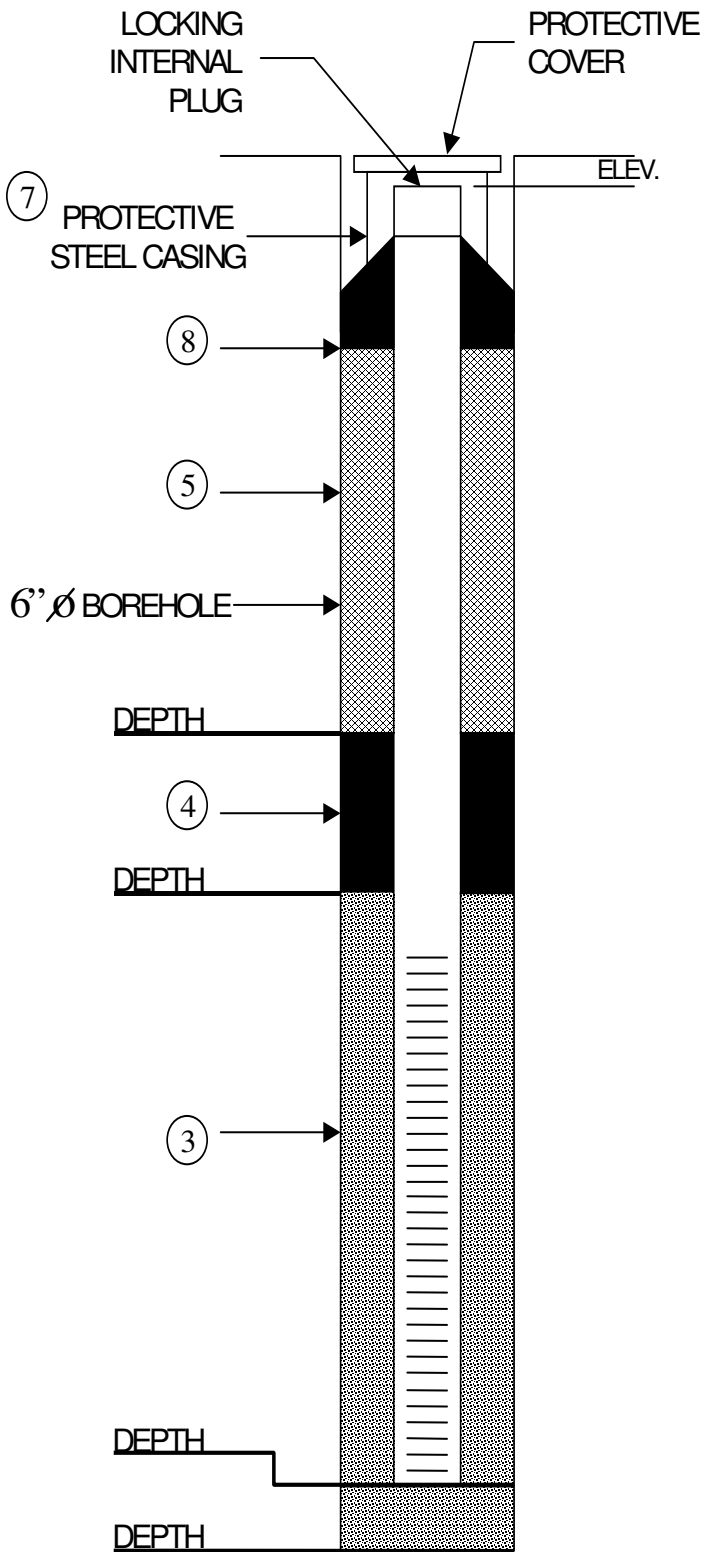
5). TYPE OF BACKFILL: Bentonite
 HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED):
Flush Mount Box

7). PROTECTIVE CASING: YES NO
 LOCKING CAP: YES NO
 8). CONCRETE SEAL: YES NO

9). DRILLING METHOD:
Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY):
N/A


WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. : 45813 CLIENT : LIRR

LOCATION : Richmond Hill Yard, Jamaica NY

DATE : 2/20/07 WELL No.: MW-GF-14

HYDROGEOLOGIST : Jessica Ferngren

DRILLING CONTRACTOR : Aquifer Drilling & Testing, Inc.

1). SCREEN TYPE : PVC

SLOTTED LENGTH : 20 ft

SLOT SIZE : 10 slot

2). SOLID PIPE TYPE : PVC piping

SOLID PIPE LENGTH : 35 ft

PIPE & SCREEN DIA. : 2 in

JOINT TYPE-SLIP / GLUED : THREADED

3). TYPE OF BACKFILL AROUND SCREEN : #2 Morie Sand

4). TYPE OF SEAL (IF INSTALLED) : Bentonite

5). TYPE OF BACKFILL: Bentonite

HOW INSTALLED: N/A

6). TYPE OF SURFACE SEAL (IF INSTALLED): Flush Mount Box

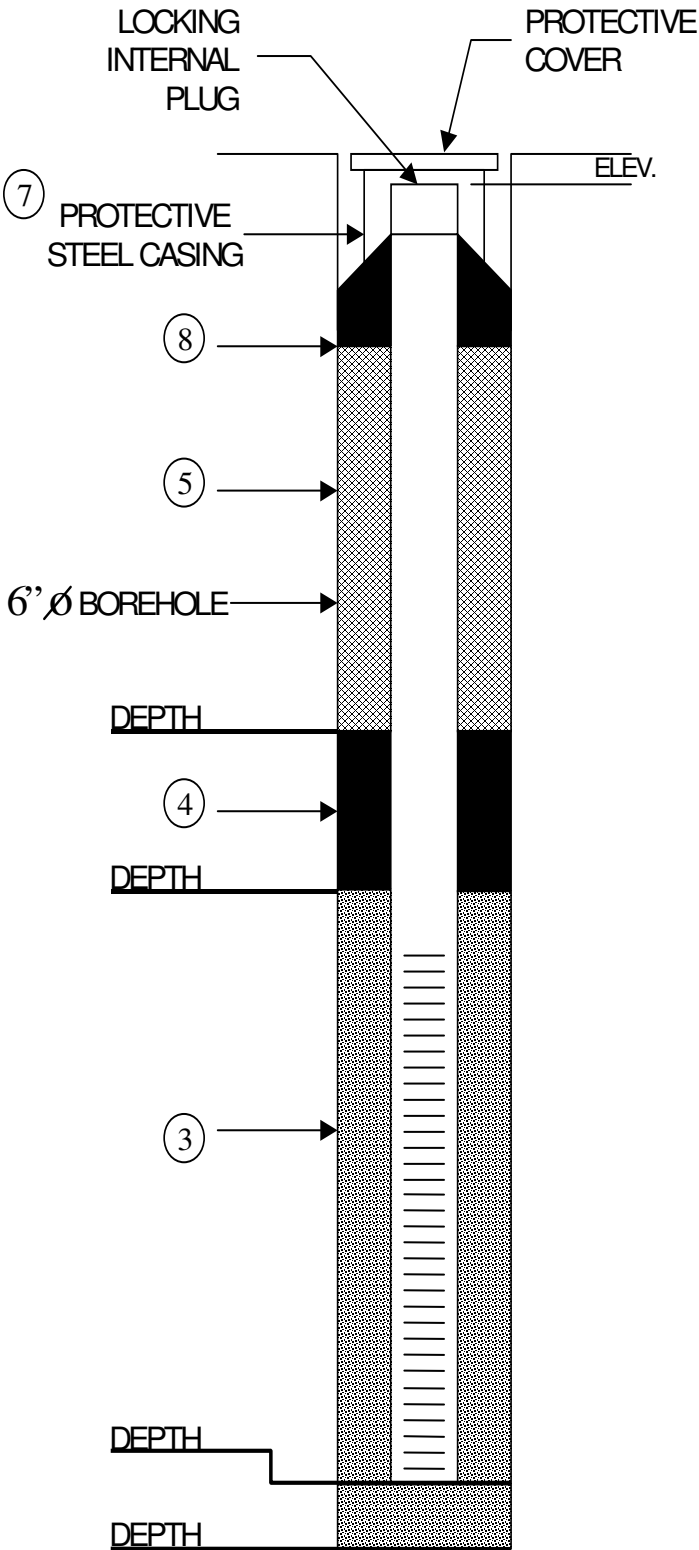
7). PROTECTIVE CASING: YES NO

LOCKING CAP: YES NO

8). CONCRETE SEAL: YES NO

9). DRILLING METHOD: Hollow Stem Auger (HSA)

10). ADDITIVES USED (IF ANY): N/A



WATER LEVELCHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL

APPENDIX C

Well Development Logs

Well Development Log
Newly Installed Monitoring Wells-February and March 2007
Long Island Railroad
Richmond Hill and Morris Park Yards
Jamaica, New York

Well ID	Date	Depth to Product (feet)	Depth to Water (feet)	Depth to Bottom (feet)	Screened Interval (feet)	One Well Volume (gallons)	Ten Well Volumes (gallons)	Amount Purged (gallons)	Turbidity at End of purge (ntu)	Comments
MW-GF-6	3/5/2007	NA	48.31	58.29	40-60	1.60	15.97	15	4.7	No Odor/No Sheen
MW-GF-7	3/5/2007	NA	47.77	58.30	40-60	1.68	16.85	25	34.0	Slight petroleum odor/Sand removed from well- well checked two weeks later-DTB=59.34
MW-GF-8	3/5/2007	NA	47.67	57.30	40-60	1.54	15.41	35	42.0	Strong petroleum odor
MW-GF-9	3/5/2007	NA	36.80	48.30	35-55	1.84	18.40	25	10.3	No Odor/No Sheen
MW-GF-5	3/5/2007	NA	49.37	55.49	35-55	0.98	9.79	25	3.1	No Odor/No Sheen
MW-GF-15	3/6/2007	NA	31.80	42.10	25-45	1.65	16.48	25	21.4	Strong petroleum odor
MW-GF-16	3/6/2007	NA	29.85	41.32	25-45	1.84	18.35	20	17.4	No Odor/No Sheen
MW-GF-17	3/6/2007	NA	28.30	42.30	25-45	2.24	22.40	20	7.6	Strong petroleum odor
MW-GF-18	3/21/2007	48.55	48.65	58.75	40-60	1.62	NA	0	NA	Free Product Present-Well was not developed
MW-GF-12	3/21/2007	NA	44.12	55.16	40-60	1.77	17.66	15	3.6	No Odor/No Sheen
MW-GF-13	3/21/2007	NA	43.65	54.32	35-55	1.71	17.07	15	6.4	No Odor/No Sheen
MW-GF-20	3/21/2007	NA	39.96	42.55	43-43	0.41	4.14	10	2.2	No Odor/No Sheen
MW-GF-4	3/21/2007	NA	46.85	58.36	37-57	1.84	18.42	20	11.3	No Odor/No Sheen
MW-GF-25	3/24/2007	NA	32.60	43.58	25-45	1.76	17.57	15	3.2	No Odor/No Sheen
MW-GF-26	3/24/2007	NA	39.26	47.65	30-50	1.34	13.42	10	30.3	No Odor/No Sheen
MW-GF-27	3/24/2007	NA	40.73	48.00	30-50	1.16	11.63	10	5.6	No Odor/No Sheen
MW-GF-14	3/27/2007	NA	45.10	53.60	35-55	1.36	13.60	10	8.9	No Odor/No Sheen
MW-GF-2	3/27/2007	NA	32.96	44.65	25-45	1.87	18.70	15	16.4	No Odor/No Sheen
MW-GF-24	3/27/2007	NA	36.83	46.30	28-48	1.52	15.15	15	23.2	No Odor/No Sheen
MW-GF-23	3/27/2007	NA	27.93	44.21	25-45	2.60	26.05	4	NA	Initial water level reading elevated due to water added to boring during the well installation due to heaving sands. Well went dry after 4 gallons removed. The well recharged after approximately 3 hours DTW=37.32
MW-GF-22	3/27/2007	NA	36.66	44.55	25-45	1.26	12.62	10	19.1	No Odor/No Sheen
MW-GF-21	3/27/2007	NA	36.12	44.09	25-45	1.28	12.75	10	15.2	No Odor/No Sheen

APPENDIX D

Groundwater Sampling Logs-April Groundwater Sampling Event

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-08

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1425

WELL USE _____

STATIC WATER ELEV. 47.77 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 57.15 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 4.5

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty with a sheen layer

ODORS OBSERVED Petroleum Odor

CONDUCTIVITY (μ S) 0.11 pH 6.87 ORP (mV) -136

TEMPERATURE ($^{\circ}$ C) 14.45 TURBIDITY (NTU) 357 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.96	6.89	6.87
CONDUCTIVITY (μ S)	0.11	0.11	0.11
TEMPERATURE ($^{\circ}$ C)	14.47	14.46	14.45
ORP	-132	-136	-136
TURBIDITY (NTU)	999	999	357
DO (mg/l)	0.00	0.00	0.00

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-27

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1240

WELL USE _____

STATIC WATER ELEV. 39.70 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 49.10 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 4.5

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty fist 2-3 gallons, clear water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.11 pH 7.26 ORP (mV) 119

TEMPERATURE ($^{\circ}$ C) 12.09 TURBIDITY (NTU) 40.6 DO (mg/l) 11.01

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.13	7.22	7.26
CONDUCTIVITY (μ S)	0.12	0.11	0.11
TEMPERATURE ($^{\circ}$ C)	10.91	11.82	12.09
ORP	130	124	119
TURBIDITY (NTU)	336	55.8	40.6
DO (mg/l)	11.54	11.27	11.01

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-17

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1210

WELL USE _____

STATIC WATER ELEV. 28.83 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 41.95 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 6.27

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty Water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 61 pH 6.52 ORP (mV) 142

TEMPERATURE ($^{\circ}$ C) 11.95 TURBIDITY (NTU) 609 DO (mg/l) 9.02

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.73	6.60	6.52
CONDUCTIVITY (μ S)	61	61	61
TEMPERATURE ($^{\circ}$ C)	10.75	11.46	11.95
ORP	118	126	142
TURBIDITY (NTU)	999	999	609
DO (mg/l)	9.75	9.21	9.02

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-02

SAMPLING POINT 89th Ave. -Block End

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1100

WELL USE _____

STATIC WATER ELEV. 32.94 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.51 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.07

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water with a sheen layer

ODORS OBSERVED No

CONDUCTIVITY (μ S) 94 pH 6.28 ORP (mV) 188

TEMPERATURE ($^{\circ}$ C) 12.48 TURBIDITY (NTU) 55.2 DO (mg/l) 2.72

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.59	6.40	6.28
CONDUCTIVITY (μ S)	93	95	94
TEMPERATURE ($^{\circ}$ C)	11.46	12.08	12.48
ORP	176	180	188
TURBIDITY (NTU)	999	234	55.2
DO (mg/l)	3.30	2.85	2.72

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-25

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 0904

WELL USE _____

STATIC WATER ELEV. 32.60 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.39 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.2

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.19 pH 6.39 ORP (mV) 218

TEMPERATURE ($^{\circ}$ C) 7.27 TURBIDITY (NTU) 226 DO (mg/l) 8.84

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	5.69	6.22	6.39
CONDUCTIVITY (μ S)	0.24	0.21	0.19
TEMPERATURE ($^{\circ}$ C)	1.59	3.15	7.27
ORP	241	22.6	218
TURBIDITY (NTU)	999	233	226
DO (mg/l)	11.60	9.58	8.84

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-10-60

SAMPLING POINT Atlantic Ave at 121st St.

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1000

WELL USE _____

STATIC WATER ELEV. 39.94 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.08 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 37.32

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear Water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 84 pH 6.80 ORP (mV) 157

TEMPERATURE ($^{\circ}$ C) 13.65 TURBIDITY (NTU) 146 DO (mg/l) 10.43

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.84	6.82	6.80
CONDUCTIVITY (μ S)	0.11	0.09	84
TEMPERATURE ($^{\circ}$ C)	12.85	13.54	13.65
ORP	155	157	157
TURBIDITY (NTU)	934	95.1	146
DO (mg/l)	10.59	10.42	10.43

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-16

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1155

WELL USE _____

STATIC WATER ELEV. 29.86 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 42.3 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.97

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 70 pH 6.40 ORP (mV) 104

TEMPERATURE ($^{\circ}$ C) 10.11 TURBIDITY (NTU) 792 DO (mg/l) 1.68

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.65	6.47	6.40
CONDUCTIVITY (μ S)	70	71	70
TEMPERATURE ($^{\circ}$ C)	9.02	9.73	10.11
ORP	69	78	104
TURBIDITY (NTU)	999	999	792
DO (mg/l)	4.10	2.00	1.68

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-15

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1130

WELL USE _____

STATIC WATER ELEV. 31.89 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.50 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.55

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Sheen layer

ODORS OBSERVED Petroleum Odor

CONDUCTIVITY (μ S) 0.12 pH 7.02 ORP (mV) -181

TEMPERATURE ($^{\circ}$ C) 13.54 TURBIDITY (NTU) 142 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.68	6.98	7.02
CONDUCTIVITY (μ S)	0.10	0.12	0.12
TEMPERATURE ($^{\circ}$ C)	14.0	13.57	13.54
ORP	-153	-169	-181
TURBIDITY (NTU)	999	243	142
DO (mg/l)	0.91	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-20

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 39.88 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.82 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 1.89

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.13 pH 7.35 ORP (mV) 121

TEMPERATURE ($^{\circ}$ C) 11.69 TURBIDITY (NTU) 999 DO (mg/l) 8.65

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.33	7.36	7.35
CONDUCTIVITY (μ S)	0.13	0.13	0.13
TEMPERATURE ($^{\circ}$ C)	11.67	11.67	11.69
ORP	123	123	121
TURBIDITY (NTU)	999	999	999
DO (mg/l)	10.35	8.86	8.65

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-06

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1340

WELL USE _____

STATIC WATER ELEV. 48.47 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 58.40 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 4.8

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty then clear water after 4 gallons

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.16 pH 6.79 ORP (mV) -90

TEMPERATURE ($^{\circ}$ C) 13.73 TURBIDITY (NTU) 99.9 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.80	6.79	6.79
CONDUCTIVITY (μ S)	0.16	0.16	0.16
TEMPERATURE ($^{\circ}$ C)	13.5	13.65	13.73
ORP	-88	-89	-90
TURBIDITY (NTU)	121	104	99.9
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-07

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1400

WELL USE _____

STATIC WATER ELEV. 47.89 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 60.30 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.94

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water then clear last gallon

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.12 pH 7.14 ORP (mV) -151

TEMPERATURE ($^{\circ}$ C) 14.19 TURBIDITY (NTU) 155 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.24	7.17	7.14
CONDUCTIVITY (μ S)	0.13	0.12	0.12
TEMPERATURE ($^{\circ}$ C)	13.98	14.08	14.19
ORP	-153	-152	-151
TURBIDITY (NTU)	726	327	155
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-09

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/9/07 TIME 1455

WELL USE _____

STATIC WATER ELEV. 36.88 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 50.01 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 6.3

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Very sandy water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.08 pH 6.13 ORP (mV) 144

TEMPERATURE ($^{\circ}$ C) 13.76 TURBIDITY (NTU) 999 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.33	6.18	6.13
CONDUCTIVITY (μ S)	0.09	83	0.08
TEMPERATURE ($^{\circ}$ C)	13.20	13.51	13.76
ORP	109	138	144
TURBIDITY (NTU)	999	999	999
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-12

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 0830

WELL USE _____

STATIC WATER ELEV. 45.73 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 56.73 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.28

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 42 pH 6.35 ORP (mV) 196

TEMPERATURE ($^{\circ}$ C) 9.85 TURBIDITY (NTU) 719 DO (mg/l) 10.30

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.71	6.41	6.35
CONDUCTIVITY (μ S)	39	42	42
TEMPERATURE ($^{\circ}$ C)	7.18	8.93	9.85
ORP	181	190	196
TURBIDITY (NTU)	999	999	719
DO (mg/l)	11.74	10.82	10.30

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-13

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 0845

WELL USE _____

STATIC WATER ELEV. 45.41 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 53.80 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 4.03

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED Clear

CONDUCTIVITY (μ S) 24 pH 5.56 ORP (mV) 270

TEMPERATURE ($^{\circ}$ C) 11.21 TURBIDITY (NTU) 627 DO (mg/l) 8.61

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	5.84	5.61	5.56
CONDUCTIVITY (μ S)	25	24	24
TEMPERATURE ($^{\circ}$ C)	9.62	10.78	11.21
ORP	236	258	270
TURBIDITY (NTU)	999	999	627
DO (mg/l)	9.16	8.70	8.61

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-14

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 0900

WELL USE _____

STATIC WATER ELEV. 45.16 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 54.41 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 4.44

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 21 pH 5.62 ORP (mV) 282

TEMPERATURE ($^{\circ}$ C) 11.06 TURBIDITY (NTU) 999 DO (mg/l) 8.78

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	5.84	5.65	5.62
CONDUCTIVITY (μ S)	21	21	21
TEMPERATURE ($^{\circ}$ C)	10.58	10.84	11.06
ORP	268	276	282
TURBIDITY (NTU)	999	999	999
DO (mg/l)	9.53	8.84	8.78

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-18

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME _____

WELL USE This well contains product and will not be sampled.

STATIC WATER ELEV. 48.55 product
48.60 water FT. BELOW MEASURING POINT TOC

WELL DIAMETER _____ INCHES

TOTAL WELL DEPTH _____ FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD _____

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS _____

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE _____

ODORS OBSERVED _____

CONDUCTIVITY (μ S) _____ pH _____ ORP (mV) _____

TEMPERATURE ($^{\circ}$ C) _____ TURBIDITY (NTU) _____ DO (mg/l) _____

SAMPLES ANALYZED FOR _____

LABORATORY/ DATE SHIPPED _____

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH			
CONDUCTIVITY (μ S)			
TEMPERATURE ($^{\circ}$ C)			
ORP			
TURBIDITY (NTU)			
DO (mg/l)			

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-24

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 1010

WELL USE _____

STATIC WATER ELEV. 37.15 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 48.15 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.28

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy light brown water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 33 pH 6.20 ORP (mV) 12

TEMPERATURE ($^{\circ}$ C) 11.56 TURBIDITY (NTU) 999 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.02	6.28	6.20
CONDUCTIVITY (μ S)	42	36	33
TEMPERATURE ($^{\circ}$ C)	9.47	11.06	11.56
ORP	2	9	12
TURBIDITY (NTU)	999	375	999
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-23

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 36.76 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 47.33 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 5.02

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy/Silty water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 0.19 pH 5.81 ORP (mV) -80

TEMPERATURE ($^{\circ}$ C) 12.9 TURBIDITY (NTU) 999 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	5.61	5.73	5.81
CONDUCTIVITY (μ S)	0.17	.20	0.19
TEMPERATURE ($^{\circ}$ C)	12.91	12.9	12.9
ORP	-5.3	-6.7	-80
TURBIDITY (NTU)	999	999	999
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-22

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 1055

WELL USE _____

STATIC WATER ELEV. 36.80 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 45.12 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 3.99

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Sandy water and then clear last gallon

ODORS OBSERVED Slight septic odor with a sheen layer

CONDUCTIVITY (μ S) 22 pH 6.15 ORP (mV) 64

TEMPERATURE ($^{\circ}$ C) 12.68 TURBIDITY (NTU) 266 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.45	6.19	6.15
CONDUCTIVITY (μ S)	22	21	22
TEMPERATURE ($^{\circ}$ C)	12.59	12.65	12.68
ORP	38	58	64
TURBIDITY (NTU)	917	585	266
DO (mg/l)	0.00	0.00	0.00

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-26

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 39.15 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 47.30 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 3.90

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 61 pH 7.22 ORP (mV) 143

TEMPERATURE ($^{\circ}$ C) 3.99 TURBIDITY (NTU) 999 DO (mg/l) 15.57

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.39	7.23	7.22
CONDUCTIVITY (μ S)	68	65	61
TEMPERATURE ($^{\circ}$ C)	.52	2.52	3.99
ORP	145	144	143
TURBIDITY (NTU)	999	999	999
DO (mg/l)	19.61	16.44	15.57

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-21

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME _____

WELL USE Can not get pump or bailer down to sample. Something is stuck in the well.

STATIC WATER ELEV. 37.66 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 45.12 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS _____

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED No

CONDUCTIVITY (μ S) _____ pH _____ ORP (mV) _____

TEMPERATURE ($^{\circ}$ C) _____ TURBIDITY (NTU) _____ DO (mg/l) _____

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED _____

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH			
CONDUCTIVITY (μ S)			
TEMPERATURE ($^{\circ}$ C)			
ORP			
TURBIDITY (NTU)			
DO (mg/l)			

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-16-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME 1210

WELL USE _____

STATIC WATER ELEV. 37.62 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.05 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 40.7

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 0.12 pH 6.47 ORP (mV) -49

TEMPERATURE ($^{\circ}$ C) 13.69 TURBIDITY (NTU) 38.2 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.53	6.46	6.47
CONDUCTIVITY (μ S)	0.12	0.12	0.12
TEMPERATURE ($^{\circ}$ C)	13.31	13.63	13.69
ORP	-48	-46	-49
TURBIDITY (NTU)	72.4	68.5	38.2
DO (mg/l)	0.00	0.00	0.00

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480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-15-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/10/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 39.45 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.30 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 38.7

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 0.10 pH 6.33 ORP (mV) -36

TEMPERATURE ($^{\circ}$ C) 14.36 TURBIDITY (NTU) 22 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.16	6.33	6.33
CONDUCTIVITY (μ S)	89	0.10	0.10
TEMPERATURE ($^{\circ}$ C)	14.15	14.37	14.36
ORP	48	-23	-36
TURBIDITY (NTU)	40	22.4	22.0
DO (mg/l)	0.00	0.00	0.00

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-05

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME 1040

WELL USE _____

STATIC WATER ELEV. 49.60 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 57.05 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 3.57

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty/Sandy water- Clear at last gallon

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.12 pH 6.37 ORP (mV) 140

TEMPERATURE ($^{\circ}$ C) 11.71 TURBIDITY (NTU) 186 DO (mg/l) 2.68

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.61	6.41	6.37
CONDUCTIVITY (μ S)	0.13	0.12	0.12
TEMPERATURE ($^{\circ}$ C)	9.51	11.06	11.71
ORP	128	140	140
TURBIDITY (NTU)	259	108	186
DO (mg/l)	3.43	3.09	2.68

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480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-04

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 45.51 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 58.17 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 6.06

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy light brown water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 0.14 pH 6.17 ORP (mV) 178

TEMPERATURE ($^{\circ}$ C) 14.28 TURBIDITY (NTU) 125 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.27	6.20	6.17
CONDUCTIVITY (μ S)	0.14	0.13	0.14
TEMPERATURE ($^{\circ}$ C)	14.10	14.21	14.28
ORP	168	172	178
TURBIDITY (NTU)	605	386	125
DO (mg/l)	0.00	0.00	0.00

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-01

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME _____

WELL USE _____

STATIC WATER ELEV. 52.20 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 75.20 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 44.85

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Slightly cloudy water- clear last 30 gallons

ODORS OBSERVED No

CONDUCTIVITY (μ S) 0.10 pH 6.20 ORP (mV) 202

TEMPERATURE ($^{\circ}$ C) 14.08 TURBIDITY (NTU) 15.6 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.24	6.21	6.20
CONDUCTIVITY (μ S)	0.11	0.10	0.10
TEMPERATURE ($^{\circ}$ C)	13.47	14.0	14.08
ORP	191	197	202
TURBIDITY (NTU)	95.5	25.7	15.6
DO (mg/l)	0.00	0.00	0.00

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-11-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME 1315

WELL USE _____

STATIC WATER ELEV. 39.80 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.10 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 37.62

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Slightly silty- clear last 30 gallons

ODORS OBSERVED No

CONDUCTIVITY (μ S) 67 pH 7.39 ORP (mV) 130

TEMPERATURE ($^{\circ}$ C) 14.32 TURBIDITY (NTU) 16.1 DO (mg/l) 7.73

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.33	7.36	7.39
CONDUCTIVITY (μ S)	68	67	67
TEMPERATURE ($^{\circ}$ C)	14.10	14.22	14.32
ORP	149	142	130
TURBIDITY (NTU)	26.4	27.8	16.1
DO (mg/l)	7.71	7.63	7.73

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480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-2D-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME 1400

WELL USE _____

STATIC WATER ELEV. 37.94 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 60.15 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 43.29

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 77 pH 6.45 ORP (mV) 115

TEMPERATURE ($^{\circ}$ C) 14.76 TURBIDITY (NTU) 38.4 DO (mg/l) 1.79

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.49	6.44	6.45
CONDUCTIVITY (μ S)	75	77	77
TEMPERATURE ($^{\circ}$ C)	14.23	14.63	14.76
ORP	164	109	115
TURBIDITY (NTU)	80	16.5	38.4
DO (mg/l)	2.17	1.72	1.79

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-3D-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME 1445

WELL USE _____

STATIC WATER ELEV. 34.40 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.01 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 47.97

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 0.14 pH 6.27 ORP (mV) 27

TEMPERATURE ($^{\circ}$ C) 14.49 TURBIDITY (NTU) 11.3 DO (mg/l) 0.00

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.26	6.26	6.27
CONDUCTIVITY (μ S)	0.15	0.14	0.14
TEMPERATURE ($^{\circ}$ C)	14.47	14.49	14.49
ORP	39	32	27
TURBIDITY (NTU)	20.5	12.9	11.3
DO (mg/l)	0.00	0.00	0.00

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-9-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY JF/KS

DATE SAMPLED 4/11/07 TIME 1540

WELL USE _____

STATIC WATER ELEV. 40.45 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.75 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS 37.62

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED No

CONDUCTIVITY (μ S) 84 pH 7.45 ORP (mV) 67

TEMPERATURE ($^{\circ}$ C) 13.96 TURBIDITY (NTU) 3.2 DO (mg/l) 3.51

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 4/12/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.47	7.46	7.45
CONDUCTIVITY (μ S)	80	83	84
TEMPERATURE ($^{\circ}$ C)	13.89	13.94	13.96
ORP	39	58	67
TURBIDITY (NTU)	10.5	1.6	3.2
DO (mg/l)	5.32	5.45	3.51

APPENDIX E

Groundwater Sampling Logs-July Groundwater Sampling Event

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-08

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1635

WELL USE _____

STATIC WATER ELEV. 46.80 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 57.15 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 4.5

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty with a sheen layer

ODORS OBSERVED Petroleum Odor

CONDUCTIVITY (μ S) 984 pH 7.63 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.5 TURBIDITY (NTU) 550 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.76	7.65	7.63
CONDUCTIVITY (μ S)	926	985	984
TEMPERATURE ($^{\circ}$ C)	22.2	20.5	19.5
ORP	NA	NA	NA
TURBIDITY (NTU)	999	900	550
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-27

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1055

WELL USE _____

STATIC WATER ELEV. 39.99 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 49.41 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 5

WELL DRAWDOWN/ RECOVERY Good

SAMPLE APPEARANCE Silty fist 2-3 gallons, clear water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1208 pH 8.05 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.7 TURBIDITY (NTU) 65 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.05	8.03	8.05
CONDUCTIVITY (μ S)	1278	1262	1208
TEMPERATURE ($^{\circ}$ C)	20.2	19.9	18.7
ORP	NA	NA	NA
TURBIDITY (NTU)	500	450	65
DO (mg/l)	NA	NA	NA

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480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-17

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1240

WELL USE _____

STATIC WATER ELEV. 28.03 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 42.53 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 7.50

WELL DRAWDOWN/ RECOVERY Good

SAMPLE APPEARANCE Silty Water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1008 pH 7.36 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 16.6 TURBIDITY (NTU) 33 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.61	7.54	7.36
CONDUCTIVITY (μ S)	938	992	1008
TEMPERATURE ($^{\circ}$ C)	20.0	17.6	16.6
ORP	NA	NA	NA
TURBIDITY (NTU)	999	350	33
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-02

SAMPLING POINT 89th Ave. -Block End

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1745

WELL USE _____

STATIC WATER ELEV. 32.02 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.50 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 5.51

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 849 pH 7.63 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.3 TURBIDITY (NTU) 90 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/2007

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.59	7.77	7.63
CONDUCTIVITY (μ S)	843	872	849
TEMPERATURE ($^{\circ}$ C)	20.4	18.3	18.3
ORP	NA	NA	NA`
TURBIDITY (NTU)	999	290	90
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-25

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1820

WELL USE _____

STATIC WATER ELEV. 31.35 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.27 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 5.2

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1405 pH 7.76 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 17.2 TURBIDITY (NTU) 340 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.97	7.86	7.76
CONDUCTIVITY (μ S)	1358	1368	1405
TEMPERATURE ($^{\circ}$ C)	19.6	17.5	17.2
ORP	NA	NA	NA
TURBIDITY (NTU)	999	900	340
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-10-60

SAMPLING POINT Atlantic Ave at 121st St.

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1115

WELL USE _____

STATIC WATER ELEV. 39.13 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.83 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 38.41

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear Water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 829 pH 7.85 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.7 TURBIDITY (NTU) 15 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.04	7.88	7.85
CONDUCTIVITY (μ S)	794	827	829
TEMPERATURE ($^{\circ}$ C)	22.7	20.2	19.7
ORP	NA	NA	NA
TURBIDITY (NTU)	20	17	15
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-16

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1310

WELL USE _____

STATIC WATER ELEV. 29.14 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 41.72 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.03

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 883 pH 7.41 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 16.9 TURBIDITY (NTU) 160 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.58	7.48	7.41
CONDUCTIVITY (μ S)	796	852	883
TEMPERATURE ($^{\circ}$ C)	19.2	17.4	16.9
ORP	NA	NA	NA
TURBIDITY (NTU)	999	400	160
DO (mg/l)	NA	NA	NA

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Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-15

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1430

WELL USE _____

STATIC WATER ELEV. 31.04 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.31 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 5.88

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Sheen layer

ODORS OBSERVED Petroleum Odor

CONDUCTIVITY (μ S) 560 pH 7.8 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 17.0 TURBIDITY (NTU) 120 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.86	7.80	7.80
CONDUCTIVITY (μ S)	536	583	560
TEMPERATURE ($^{\circ}$ C)	18.4	17.1	17.0
ORP	NA	NA	NA
TURBIDITY (NTU)	600	310	120
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-20

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1025

WELL USE _____

STATIC WATER ELEV. 39.06 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 43.51 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 2.50

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 790 pH 8.02 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.7 TURBIDITY (NTU) 450 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.18	8.09	8.02
CONDUCTIVITY (μ S)	669	749	790
TEMPERATURE ($^{\circ}$ C)	23.1	21.7	18.7
ORP	NA	NA	NA
TURBIDITY (NTU)	999	999	450
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-06

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1520

WELL USE _____

STATIC WATER ELEV. 47.68 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 58.62 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 5.25

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty then clear water after 4 gallons

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1209 pH 7.72 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.8 TURBIDITY (NTU) 100 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.60	7.59	7.72
CONDUCTIVITY (μ S)	1200	1229	1209
TEMPERATURE ($^{\circ}$ C)	20.3	19.8	19.8
ORP	NA	NA	NA
TURBIDITY (NTU)	330	220	100
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-07

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1550

WELL USE _____

STATIC WATER ELEV. 47.10 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 60.02 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.20

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1030 pH 18.4 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.4 TURBIDITY (NTU) 50 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.77	7.81	7.83
CONDUCTIVITY (μ S)	1067	1051	1030
TEMPERATURE ($^{\circ}$ C)	19.4	18.5	18.4
ORP	NA	NA	NA
TURBIDITY (NTU)	380	130	50
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-09

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1710

WELL USE _____

STATIC WATER ELEV. 36.11 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 50.20 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.76

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Very sandy water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 891 pH 7.29 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 17.4 TURBIDITY (NTU) 190 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.62	7.40	7.29
CONDUCTIVITY (μ S)	936	906	891
TEMPERATURE ($^{\circ}$ C)	19.7	18.0	17.4
ORP	NA	NA	NA
TURBIDITY (NTU)	320	230	190
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-12

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1017

WELL USE _____

STATIC WATER ELEV. 44.90 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 56.40 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.00

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Slightly Silty

ODORS OBSERVED None

CONDUCTIVITY (μ S) 337 pH 7.23 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.8 TURBIDITY (NTU) 50 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.08	7.28	7.23
CONDUCTIVITY (μ S)	314	308	337
TEMPERATURE ($^{\circ}$ C)	21.4	20.5	18.8
ORP	NA	NA	NA
TURBIDITY (NTU)	999	120	50
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-13

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 0957

WELL USE _____

STATIC WATER ELEV. 44.64 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 52.82 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 4.00

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 213 pH 6.53 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.2 TURBIDITY (NTU) 180 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	6.44	6.62	6.53
CONDUCTIVITY (μ S)	214	210	213
TEMPERATURE ($^{\circ}$ C)	21.8	19.2	19.2
ORP	NA	NA	NA
TURBIDITY (NTU)	999	220	180
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-14

SAMPLING POINT Receiving Tracks

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 0926

WELL USE _____

STATIC WATER ELEV. 44.46 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 53.61 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 4.50

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 204 pH 7.16 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.3 TURBIDITY (NTU) 100 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.19	7.36	7.16
CONDUCTIVITY (μ S)	111	194	204
TEMPERATURE ($^{\circ}$ C)	24.1	20.8	19.3
ORP	NA	NA	NA
TURBIDITY (NTU)	999	220	100
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-18

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 1615

WELL USE This well was not sampled as per Maria Hall.

STATIC WATER ELEV. 47.69 FT. BELOW MEASURING POINT TOC

WELL DIAMETER _____ INCHES

TOTAL WELL DEPTH _____ FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD _____

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS _____

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE _____

ODORS OBSERVED _____

CONDUCTIVITY (μ S) _____ pH _____ ORP (mV) _____

TEMPERATURE ($^{\circ}$ C) _____ TURBIDITY (NTU) _____ DO (mg/l) _____

SAMPLES ANALYZED FOR _____

LABORATORY/ DATE SHIPPED _____

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH			
CONDUCTIVITY (μ S)			
TEMPERATURE ($^{\circ}$ C)			
ORP			
TURBIDITY (NTU)			
DO (mg/l)			

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-24

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1135

WELL USE _____

STATIC WATER ELEV. 36.03 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 47.28 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME 10 MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.00

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy light brown water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 300 pH 7.43 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 20.4 TURBIDITY (NTU) 130 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.45	7.45	7.43
CONDUCTIVITY (μ S)	351	311	300
TEMPERATURE ($^{\circ}$ C)	21.9	20.8	20.4
ORP	NA	NA	NA
TURBIDITY (NTU)	999	230	130
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-23

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1204

WELL USE _____

STATIC WATER ELEV. 35.95 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 47.55 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME 10 MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.00

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy/Silty water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 522 pH 7.56 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.9 TURBIDITY (NTU) 900 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.63	7.52	7.56
CONDUCTIVITY (μ S)	495	530	522
TEMPERATURE ($^{\circ}$ C)	26.5	20.4	19.9
ORP	NA	NA	NA
TURBIDITY (NTU)	400	999	900
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-22

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1340

WELL USE _____

STATIC WATER ELEV. 37398 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 44.92 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 13.50

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Sandy water and then clear last gallon

ODORS OBSERVED Slight septic odor with a sheen layer

CONDUCTIVITY (μ S) 226 pH 7.47 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 1938 TURBIDITY (NTU) 55 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.26	7.35	7.47
CONDUCTIVITY (μ S)	192	195	226
TEMPERATURE ($^{\circ}$ C)	20.3	20.1	19.8
ORP	NA	NA	NA
TURBIDITY (NTU)	400	130	55
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-26

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/10/07 TIME 0950

WELL USE _____

STATIC WATER ELEV. 38.31 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 46.69 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 4.00

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 410 pH 8.20 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 20.1 TURBIDITY (NTU) 40 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.45	8.44	8.20
CONDUCTIVITY (μ S)	395	405	410
TEMPERATURE ($^{\circ}$ C)	24.5	21.2	20.1
ORP	NA	NA	NA
TURBIDITY (NTU)	600	100	40
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-21

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1340

WELL USE Can not get pump or bailer down to sample. Something is stuck in the well.

STATIC WATER ELEV. 37.66 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 45.12 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD 3 Volume

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED _____ GALLONS _____

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty water

ODORS OBSERVED None

CONDUCTIVITY (μ S) _____ pH _____ ORP (mV) _____

TEMPERATURE ($^{\circ}$ C) _____ TURBIDITY (NTU) _____ DO (mg/l) _____

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED _____

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH			
CONDUCTIVITY (μ S)			
TEMPERATURE ($^{\circ}$ C)			
ORP			
TURBIDITY (NTU)			
DO (mg/l)			

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-16-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1540

WELL USE _____

STATIC WATER ELEV. 37.11 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.14 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME 40 MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 42.0

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 1167 pH 7.42 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.3 TURBIDITY (NTU) 190 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.60	7.37	7.42
CONDUCTIVITY (μ S)	1114	1073	1167
TEMPERATURE ($^{\circ}$ C)	20.7	22.8	19.3
ORP	NA	NA	NA
TURBIDITY (NTU)	999	120	190
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-15-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/9/07 TIME 1500

WELL USE _____

STATIC WATER ELEV. 38.69 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.60 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 42.0

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 777 pH 7.66 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 25.4 TURBIDITY (NTU) 9.4 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.69	7.50	7.66
CONDUCTIVITY (μ S)	759	777	777
TEMPERATURE ($^{\circ}$ C)	24.7	23.7	25.4
ORP	NA	NA	NA
TURBIDITY (NTU)	55	24	9.4
DO (mg/l)	NA	NA	NA

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CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-05

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 0900

WELL USE _____

STATIC WATER ELEV. 48.73 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 56.89 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 3.91

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Silty/Sandy water- Clear at last gallon

ODORS OBSERVED None

CONDUCTIVITY (μ S) 1241 pH 7.36 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.1 TURBIDITY (NTU) 80 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.43	7.37	7.36
CONDUCTIVITY (μ S)	1164	1277	1241
TEMPERATURE ($^{\circ}$ C)	20.8	18.6	18.1
ORP	NA	NA	NA
TURBIDITY (NTU)	650	220	80
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-GF-04

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 0950

WELL USE _____

STATIC WATER ELEV. 44.65 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 2 INCHES

TOTAL WELL DEPTH 57.95 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 6.38

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Cloudy light brown water

ODORS OBSERVED Septic odor

CONDUCTIVITY (μ S) 1216 pH 7.30 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.3 TURBIDITY (NTU) 36 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.65	7.53	7.30
CONDUCTIVITY (μ S)	1279	1234	1216
TEMPERATURE ($^{\circ}$ C)	19.6	19.2	18.3
ORP	NA	NA	NA
TURBIDITY (NTU)	1000	190	36
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-01

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1000

WELL USE _____

STATIC WATER ELEV. 50.35 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 74.05 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 46.21

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY (μ S) 867 pH 7.21 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.6 TURBIDITY (NTU) 6.8 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.92	7.54	7.21
CONDUCTIVITY (μ S)	820	873	867
TEMPERATURE ($^{\circ}$ C)	20.5	18.7	18.6
ORP	NA	NA	NA
TURBIDITY (NTU)	21	11	6.8
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-11-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1310

WELL USE _____

STATIC WATER ELEV. 39.12 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.58 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Whale Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 40.0

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Slightly silty- clear last 30 gallons

ODORS OBSERVED None

CONDUCTIVITY (μ S) 424 pH 8.29 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.8 TURBIDITY (NTU) 9.9 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.51	8.30	8.29
CONDUCTIVITY (μ S)	401	418	424
TEMPERATURE ($^{\circ}$ C)	21.5	20.4	19.8
ORP	NA	NA	NA
TURBIDITY (NTU)	13	13	9.9
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-2D-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1715

WELL USE _____

STATIC WATER ELEV. 37.07 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.23 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Grundfos Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 43.21

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 3.3 pH 7.86 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.3 TURBIDITY (NTU) 2.9 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.53	7.72	7.86
CONDUCTIVITY (μ S)	581	622	636
TEMPERATURE ($^{\circ}$ C)	21.1	19.6	19.3
ORP	NA	NA	NA
TURBIDITY (NTU)	5.9	4.6	2.9
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-3D-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1750

WELL USE _____

STATIC WATER ELEV. 33.51 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.09 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Grundfos Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 47.93

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED Petroleum odor

CONDUCTIVITY (μ S) 1098 pH 7.37 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.4 TURBIDITY (NTU) 4.8 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	7.56	7.46	7.37
CONDUCTIVITY (μ S)	1173	1130	1098
TEMPERATURE ($^{\circ}$ C)	19.2	18.7	18.4
ORP	NA	NA	NA
TURBIDITY (NTU)	9.8	6.4	4.8
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-9-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1220

WELL USE _____

STATIC WATER ELEV. 39.62 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.26 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Grundfos Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 38.29

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 756 pH 8.32 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 19.6 TURBIDITY (NTU) 4.4 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.15	8.21	8.32
CONDUCTIVITY (μ S)	693	761	756
TEMPERATURE ($^{\circ}$ C)	20.6	20.2	19.6
ORP	NA	NA	NA
TURBIDITY (NTU)	6.2	6.2	4.4
DO (mg/l)	NA	NA	NA

GANNETT FLEMING ENGINEERS AND ARCHITECTS, P.C.

480 Forest Avenue
Locust Valley, New York 11560

CLIENT/ PROJECT NO. LIRR-Richmond Hill/Morris Park

WELL NO./ OWNER MW-1-60

SAMPLING POINT _____

SAMPLE I.D. NO. _____ SAMPLED BY AV/KS

DATE SAMPLED 7/11/07 TIME 1625

WELL USE _____

STATIC WATER ELEV. 38.99 FT. BELOW MEASURING POINT TOC

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 58.28 FT. BELOW MEASURING POINT TOC

SAMPLING INFORMATION

PURGING METHOD Grundfos Pump

PURGING RATE _____ GAL/ MIN PURGING TIME _____ MIN

NO. CASING VOLUMES REMOVED 3 Volume GALLONS 37.61

WELL DRAWDOWN/ RECOVERY _____

SAMPLE APPEARANCE Clear water

ODORS OBSERVED None

CONDUCTIVITY (μ S) 629 pH 8.04 ORP (mV) NA

TEMPERATURE ($^{\circ}$ C) 18.9 TURBIDITY (NTU) 3.5 DO (mg/l) NA

SAMPLES ANALYZED FOR 8260 STARS & 8270 STARS

LABORATORY/ DATE SHIPPED Shipped 7/13/07

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	<u>1st VOLUME</u>	<u>2nd VOLUME</u>	<u>3rd VOLUME</u>
pH	8.01	8.06	8.04
CONDUCTIVITY (μ S)	612	611	629
TEMPERATURE ($^{\circ}$ C)	20.2	19.0	18.9
ORP	NA	NA	NA
TURBIDITY (NTU)	5.8	3.5	3.5
DO (mg/l)	NA	NA	NA

APPENDIX F
Laboratory Results



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1586
Vincent Frisina**

**Summary Sheet
SW-846**

SDG No.: Y1586

Order ID: Y1586

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB06-40-42							
Y1586-01	GFSB06-40-42	SOIL	Naphthalene	5.7	J	26	3.0	ug/Kg
			Total VOC's:	5.70				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	5.70				
Client ID:	GFSB07-35-37							
Y1586-03	GFSB07-35-37	SOIL	N-propylbenzene	18	J	26	2.8	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	tert-Butylbenzene	24	J	26	3.7	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	1,2,4-Trimethylbenzene	140		26	2.0	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Sec-butylbenzene	270		26	2.2	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	p-Isopropyltoluene	160		26	2.2	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	n-Butylbenzene	280		26	1.8	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Naphthalene	3500	E	26	3.1	ug/Kg
			Total VOC's:	4392.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	4392.00				
Client ID:	GFSB07-50-52							
Y1586-04	GFSB07-50-52	SOIL	n-Butylbenzene	6.0	J	29	2.0	ug/Kg
Y1586-04	GFSB07-50-52	SOIL	Naphthalene	150		29	3.4	ug/Kg
			Total VOC's:	156.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	156.00				
Client ID:	GFSB08-40-42							
Y1586-07	GFSB08-40-42	SOIL	m/p-Xylenes	6.1	J	26	4.6	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	Isopropylbenzene	22	J	26	2.2	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	N-propylbenzene	29		26	2.8	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	tert-Butylbenzene	35		26	3.8	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	Sec-butylbenzene	370		26	2.2	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	n-Butylbenzene	490		26	1.8	ug/Kg
			Total VOC's:	952.10				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	952.10				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Summary Sheet
SW-846

SDG No.: Y1586

Order ID: Y1586

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB08-40-42RE								
Y1586-07RE	GFSB08-40-42RE	SOIL	m/p-Xylenes	9.2	J	27	4.6	ug/Kg
Y1586-07RE	GFSB08-40-42RE	SOIL	Isopropylbenzene	25	J	27	2.2	ug/Kg
Y1586-07RE	GFSB08-40-42RE	SOIL	N-propylbenzene	34		27	2.9	ug/Kg
Y1586-07RE	GFSB08-40-42RE	SOIL	tert-Butylbenzene	40		27	3.8	ug/Kg
Y1586-07RE	GFSB08-40-42RE	SOIL	Sec-butylbenzene	420		27	2.2	ug/Kg
Y1586-07RE	GFSB08-40-42RE	SOIL	n-Butylbenzene	560		27	1.8	ug/Kg
			Total VOC's:	1088.20				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	1088.20				
Client ID: GFSB08-45-47								
Y1586-08	GFSB08-45-47	SOIL	Isopropylbenzene	8.2	J	27	2.3	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	N-propylbenzene	12	J	27	2.9	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	tert-Butylbenzene	12	J	27	3.9	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	Sec-butylbenzene	130		27	2.3	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	n-Butylbenzene	170		27	1.8	ug/Kg
			Total VOC's:	332.20				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	332.20				
Client ID: GFSB09-25-27								
Y1586-05	GFSB09-25-27	SOIL	p-Isopropyltoluene	6.5	J	26	2.2	ug/Kg
			Total VOC's:	6.50				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	6.50				

Summary Sheet
SW-846

SDG No.: Y1586

Order ID: Y1586

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB07-35-37DL							
Y1586-03DL	GFSB07-35-37DL	SOIL	1,2,4-Trimethylbenzene	180	JD	670	50	ug/Kg
Y1586-03DL	GFSB07-35-37DL	SOIL	Sec-butylbenzene	440	JD	670	57	ug/Kg
Y1586-03DL	GFSB07-35-37DL	SOIL	p-Isopropyltoluene	260	JD	670	49	ug/Kg
Y1586-03DL	GFSB07-35-37DL	SOIL	n-Butylbenzene	140	JD	670	63	ug/Kg
Y1586-03DL	GFSB07-35-37DL	SOIL	Naphthalene	5000	D	670	63	ug/Kg
			Total VOC's:	6020.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	6020.00				

Hit Summary Report

SDG No.: Y1586

Order ID: Y1586

Client: Gannett Fleming Engineers, LLC

Project ID: LIRR Richmond Hill, Morris Park G

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB06-40-42								
Y1586-01	GFSB06-40-42	SOIL	Acenaphthene	82	J	350	62	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Fluorene	83	J	350	59	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Phenanthrene	1000		350	56	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Anthracene	160	J	350	53	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Fluoranthene	870		350	52	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Pyrene	880		350	62	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Benzo(a)anthracene	340	J	350	49	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Chrysene	380		350	63	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Benzo(b)fluoranthene	430		350	39	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Benzo(k)fluoranthene	170	J	350	77	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Benzo(a)pyrene	350		350	56	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Indeno(1,2,3-cd)pyrene	120	J	350	44	ug/Kg
Y1586-01	GFSB06-40-42	SOIL	Benzo(g,h,i)perylene	200	J	350	58	ug/Kg
Total SVOC's:				5065.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				5065.00				
Client ID: GFSB06-50-52								
Y1586-02	GFSB06-50-52	SOIL	Phenanthrene	130	J	390	63	ug/Kg
Y1586-02	GFSB06-50-52	SOIL	Fluoranthene	110	J	390	58	ug/Kg
Y1586-02	GFSB06-50-52	SOIL	Pyrene	100	J	390	69	ug/Kg
Y1586-02	GFSB06-50-52	SOIL	Benzo(b)fluoranthene	50	J	390	43	ug/Kg
Total SVOC's:				390.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				390.00				
Client ID: GFSB07-35-37								
Y1586-03	GFSB07-35-37	SOIL	Naphthalene	2500		710	120	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Fluorene	1400		710	120	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Phenanthrene	2700		710	110	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Anthracene	360	J	710	110	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Fluoranthene	120	J	710	110	ug/Kg
Y1586-03	GFSB07-35-37	SOIL	Pyrene	330	J	710	130	ug/Kg
Total SVOC's:				7410.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				7410.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Hit Summary Report

SDG No.:	Y1586	Order ID:	Y1586
Client:	Gannett Fleming Engineers, LLC	Project ID:	LIRR Richmond Hill, Morris Park G
Test:	SVOC-STARS		

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB07-50-52								
Y1586-04	GFSB07-50-52	SOIL	Naphthalene	120	J	400	68	ug/Kg
Y1586-04	GFSB07-50-52	SOIL	Fluorene	94	J	400	67	ug/Kg
Y1586-04	GFSB07-50-52	SOIL	Phenanthrene	210	J	400	63	ug/Kg
				Total SVOC's:	424.00			
				Total TIC's:	0.00			
				Total SVOC's and TIC's:	424.00			
Client ID: GFSB08-40-42								
Y1586-07	GFSB08-40-42	SOIL	Anthracene	880		360	54	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	Fluoranthene	360		360	53	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	Pyrene	360		360	63	ug/Kg
Y1586-07	GFSB08-40-42	SOIL	Benzo(b)fluoranthene	44	J	360	39	ug/Kg
				Total SVOC's:	1644.00			
				Total TIC's:	0.00			
				Total SVOC's and TIC's:	1644.00			
Client ID: GFSB08-40-42DL								
Y1586-07DL	GFSB08-40-42DL	SOIL	Fluorene	3300	D	1800	300	ug/Kg
Y1586-07DL	GFSB08-40-42DL	SOIL	Phenanthrene	6700	D	1800	280	ug/Kg
Y1586-07DL	GFSB08-40-42DL	SOIL	Anthracene	780	JD	1800	270	ug/Kg
Y1586-07DL	GFSB08-40-42DL	SOIL	Pyrene	390	JD	1800	320	ug/Kg
				Total SVOC's:	11170.00			
				Total TIC's:	0.00			
				Total SVOC's and TIC's:	11170.00			
Client ID: GFSB08-45-47								
Y1586-08	GFSB08-45-47	SOIL	Fluorene	1000		720	120	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	Phenanthrene	2000		720	110	ug/Kg
Y1586-08	GFSB08-45-47	SOIL	Anthracene	230	J	720	110	ug/Kg
				Total SVOC's:	3230.00			
				Total TIC's:	0.00			
				Total SVOC's and TIC's:	3230.00			

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Hit Summary Report

SDG No.: Y1586

Order ID: Y1586

Client: Gannett Fleming Engineers, LLC

Project ID: LIRR Richmond Hill, Morris Park G

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB09-25-27							
Y1586-05	GFSB09-25-27	SOIL	Phenanthrene	260	J	350	56	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Anthracene	58	J	350	53	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Fluoranthene	220	J	350	52	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Pyrene	200	J	350	62	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Benzo(a)anthracene	91	J	350	49	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Chrysene	91	J	350	63	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Benzo(b)fluoranthene	100	J	350	39	ug/Kg
Y1586-05	GFSB09-25-27	SOIL	Benzo(a)pyrene	89	J	350	56	ug/Kg
			Total SVOC's:	1109.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	1109.00				

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1586
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

ProjectID: LIRR Richmond Hill, Morris
OrderID: Y1586
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y1586-01	GFSB06-40-42
Y1586-02	GFSB06-50-52
Y1586-03	GFSB07-35-37
Y1586-04	GFSB07-50-52
Y1586-05	GFSB09-25-27
Y1586-06	GFSB09-45-47
Y1586-07	GFSB08-40-42
Y1586-08	GFSB08-45-47

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V Reyes Name: Mildred V Reyes
Date: 3/7/07 Title: QA/QC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: 11586

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIII. Subcontract Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Mildred Vlcek
QA/QC Data Reviewer

3/7/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

TABLE OF CONTENTS
PROJECT NUMBER Y1586RQ

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	13
CONFORMANCE / NON-COFORMANCE SUMMARY	16
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	21
QUALITY CONTROL SUMMARY REPORTS	32
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	53
QUALITY CONTROL SUMMARY REPORTS	63
TOTAL NUMBER OF PAGES	72

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: GANNETT FLEMING
 ADDRESS: 480 FOREST AVE
 CITY: LOCUST VALLEY STATE: NY ZIP: 11560
 ATTENTION: VINCENT FRISINA
 PHONE: 516/671-8440 FAX: 516/671-3349

CLIENT PROJECT INFORMATION

PROJECT NAME: LIRR - RICHMOND HILL
 PROJECT NO.: 45813 LOCATION: JANAIKA, NY
 PROJECT MANAGER: VINCENT FRISINA
 e-mail: vfrisina@gfnet.com
 PHONE: 516/671-8440 FAX: 516/671-3349

CLIENT BILLING INFORMATION

BILL TO: GANNETT FLEMING PO#:
 ADDRESS: 480 FOREST AVE
 CITY: LOCUST VALLEY STATE: NY ZIP: 11560
 ATTENTION: V. FRISINA PHONE: 516/671-8440

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
 HARD COPY: STANDARD _____ DAYS *
 EDD: _____ DAYS *
 * TO BE APPROVED BY CHEMTECH
 STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

RESULTS ONLY USEPA CLP
 RESULTS + QC New York State ASP "B"
 New Jersey REDUCED New York State ASP "A"
 New Jersey CLP Other _____
 EDD FORMAT _____

3270 STARS

	1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION
1	GFSB 06-40-42
2	GFSB 06-50-58
3	GFSB 07-35-37
4	GFSB 07-50-52
5	GFSB 09-25-27
6	GFSB 09-45-47
7	GFSB 06-40-42
8	GFSB 06-45-47
9.	
10.	

SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES
	GL	OS	DATE	TIME	
Soil	X		2/26/07	1511	2
Soil	X		2/26/07	1511	2
Soil	X		2/13/07	1255	2
Soil	X		2/13/07	1255	2
Soil	X		2/14/07	1310	2
Soil	X		2/14/07	1310	2
Soil	X		2/15/07	1050	2
Soil	X		2/15/07	1050	2

PRESERVATIVES	COMMENTS								
	1	2	3	4	5	6	7	8	9
E	E								
X	X								
X	X								
X	X								
X	X								
X	X								
X	X								

← Specify Preservatives
 A-HCl B-HNO₃
 C-H₂SO₄ D-NaOH
 E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
<u>[Signature]</u>	<u>2/16/07</u>	1. _____
<u>[Signature]</u>	<u>2/16/07</u>	2. _____
<u>[Signature]</u>	<u>2/16/07</u>	3. <u>Ty Dunar</u>

Conditions of bottles or coolers at receipt: Compliant Non Compliant
 MeOH extraction requires an additional 4 oz jar for percent solid.
 Comments:

Cooler Temp. 4°C
 Ice in Cooler?: yo

SHIPPED VIA: CLIENT: HAND DELIVERED OVERNIGHT
 CHEMTECH: PICKED UP OVERNIGHT
 Shipment Complete: YES NO



284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

CHEMTECH PROJECT NO. Y1586
 COC Number 063409

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION		
COMPANY: <u>GANNETT FLEMING</u>	PROJECT NAME: <u>LIRR-REARLAND HILL</u>	BILL TO: <u>GANNETT FLEMING</u>	PO#			
ADDRESS: <u>480 FOREST AVE</u>	PROJECT NO.: <u>45813</u>	ADDRESS: <u>480 FOREST AVE</u>				
CITY: <u>LOCUST VALLEY</u>	LOCATION: <u>JAMAICA, NY</u>	CITY: <u>LOCUST VALLEY</u>	STATE: <u>NY</u>	ZIP: <u>11540</u>		
ATTENTION: <u>VINCENT FRISINA</u>	PROJECT MANAGER: <u>VINCENT FRISINA</u>	ATTENTION: <u>V. FRISINA</u>	PHONE: <u>516/671-8240</u>	PHONE: <u>516/671-8240</u>		
	e-mail: <u>vfrisina@gfnet.com</u>			ANALYSIS		
PHONE: <u>516/671-8240</u>	PHONE: <u>516/671-8240</u>	PHONE: <u>516/671-3349</u>	FAX: <u>516/671-3349</u>			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES		
FAX: _____	DAYS * _____	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> USERA CLP	1	2	
HARD COPY: <u>STANDARD</u>	DAYS * _____	<input type="checkbox"/> RESULTS + OG	<input type="checkbox"/> New York State ASP "B"	3	4	
EDD: _____	DAYS * _____	<input type="checkbox"/> New Jersey REDUCED	<input type="checkbox"/> New York State ASP "K"	5	6	
* TO BE APPROVED BY CHEMTECH		<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other: _____	7	8	
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> EDD FORMAT		9	0	
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	COMMENTS
1	GF SB 06-40-42	Soil	X	2/24/07	1511	E
2	GF SB 06-50-52	Soil	X	2/26/07	1511	E
3	GF SB 07-35-37	Soil	X	2/13/07	1255	X
4	GF SB 07-50-52	Soil	X	2/13/07	1255	X
5	GF SB 09-25-27	Soil	X	2/14/07	1310	X
6	GF SB 09-45-47	Soil	X	2/14/07	1310	X
7	GF SB 09-40-42	Soil	X	2/15/07	1050	X
8	GF SB 09-45-47	Soil	X	2/15/07	1050	X
9	<u>X-2006</u>					
10						
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY						
RELINQUISHED BY SAMPLER	DATE/TIME:	RECEIVED BY:	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:			
1 <u>A. ...</u>	<u>2/21/07</u>	1	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Non Compliant	Cooler Temp. <u>4°C</u>	Ice in Cooler? <u>ya</u>
RELINQUISHED BY	DATE/TIME:	RECEIVED BY:	MeOH extraction requires an additional 4 oz jar for percent solid			
2		2	Comments:			
RELINQUISHED BY	DATE/TIME:	RECEIVED FOR LAB BY:	SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> OVERNIGHT			
3 <u>fedex</u>	<u>2/16/07</u>	<u>JTU Munoz</u>	CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT	Shipment Complete: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

FedEx Express *US Airbill*

851971834022

0200

Form ID No.

FedEx Retrieval Copy

From
 Date: 11/17
 Sender's FedEx Account Number: 0115-0445-0
 Sender's Name: JESSICA FERRELL
 Phone: 561-71-2440
 Company: GARLETT FLETCHER
 Address: 470 FOREST AVE
 City: COURT VALEY State: NY ZIP: 11560
 Your Internal Billing Reference: 045213.002

To
 Recipient's Name: CHENITECH
 Phone: 908 709-8902
 Company: CHENITECH
 Recipient's Address: 1025
 2116107
 2118
 Address: 14 SHERRILL STREET
 City: SHERRILL State: NJ ZIP: 07112

4a Express Package Service Packages up to 150 lbs. (To select in air)

1 FedEx Priority Overnight (Next business morning) 5 FedEx Standard Overnight (Next business afternoon) 6 FedEx First Overnight (Earliest next business morning delivery to select locations)*

3 FedEx 2Day (Second business day) 29 FedEx Express Saver (Third business day)
 *FedEx envelope rate not available. Minimum charge: One pound plus.

4b Express Freight Service Packages over 150 lbs. (To select in air)

7 FedEx 1Day Freight* (Next business day)** 8 FedEx 2Day Freight (Second business day)** 83 FedEx 3Day Freight (Third business day)**

* Call for restrictions. **Declared value over \$500.

5 Packaging

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6 Special Handling (Include FedEx address in Section 3)

3 SATURDAY Delivery (Available ONLY for FedEx Priority Overnight, FedEx 2Day, FedEx 1Day Freight, and FedEx 2Day Freight in select ZIP codes) 1 HOLD Weekday at FedEx Location (Not available for FedEx First Overnight) 31 HOLD Saturday at FedEx Location (Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations)

Does this shipment contain dangerous goods? One box must be checked.
 No 4 Yes (As per attached Shipper's Declaration) Yes (Shipper's Declaration not required) 6 Dry Ice (Dry Ice 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below. (Drawn Remo. Acct. No.)

1 Sender (Fed. No. in Section 1 will be billed) 2 Recipient 3 Third Party 4 Credit Card 5 Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages Total Weight Total Charges

*The liability is limited to \$100 unless you declare a higher value. See the FedEx Service Guide for details.

8 Sign to Authorize Delivery Without a Signature

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Exp. Date: 467

Rev. Date 11/03 Part #156280 ©1994-2003 FedEx PRINTED IN U.S.A. MWVA 05





284 Sheffield Street Mountainside NJ 07092 Tel. 908-789-8900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

- J** If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U** If the analyte was analyzed for, but not detected.
- E** The reported value is estimated because of the presence of interference
- M** Duplicate injection precision not met.
- N** Spiked sample recovery not within control limits.
- S** The reported value was determined by the Method of Standard Addition (MSA).
- W** Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less than 50% of spike absorbance.
- *** Duplicate analysis not within control limits.
- +** Correlation coefficient for the MSA is less than 0.995.
- ***** Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
- D** The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M** Method qualifiers
"P" for ICP instrument
"A" for Flame AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for MIDI-Distillation Spectrophotometric
"AS" for Semi -Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" for analyte not required to be analyzed
- OR** Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: 41586

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	/
Check chain-of-custody for proper relinquish/return of samples	/
Is the chain of custody signed and complete	/
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	/
Collect information for each project id from server. Were all requirements followed	/

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page	/
Do lab numbers and client Ids on cover page agree with the Chain of Custody	/

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results	/
Do requested analyses on Chain of Custody agree with the log-in page	/
Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody	/
Were the samples received within hold time	/
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	/

ANALYTICAL:

Was method requirement followed?	/
Was client requirement followed?	/
Does the case narrative summarize all QC failure?	/
All runlogs reviewed for manual integration requirements	/

1st Level QA Review Signature: Mildred Uveys Date: 3/7/07

2nd Level QA Review Signature: _____ Date: _____

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**



Lab Chronicle

Order ID: Y1586 Order Date: 2/16/2007 12:36:28 PM
Client: Gannett Fleming Engineers, LLC Project: LIRR Richmond Hill, Morris Park GF 045813.005
Contact: Vincent Frisina Location: VOA Lab

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y1586-01	GFSB06-40-42	SOIL	<u>VOC-STARS</u>	8260	02/12/07		02/21/07	02/16/07
Y1586-02	GFSB06-50-52	SOIL	<u>VOC-STARS</u>	8260	02/12/07		02/21/07	02/16/07
Y1586-03	GFSB07-35-37	SOIL	<u>VOC-STARS</u>	8260	02/13/07		02/21/07	02/16/07
Y1586-03DL	GFSB07-35-37DL	SOIL	<u>VOC-STARS</u>	8260	02/13/07		02/21/07	02/16/07
Y1586-04	GFSB07-50-52	SOIL	<u>VOC-STARS</u>	8260	02/13/07		02/22/07	02/16/07
Y1586-05	GFSB09-25-27	SOIL	<u>VOC-STARS</u>	8260	02/14/07		02/21/07	02/16/07
Y1586-06	GFSB09-45-47	SOIL	<u>VOC-STARS</u>	8260	02/14/07		02/21/07	02/16/07
Y1586-07	GFSB08-40-42	SOIL	<u>VOC-STARS</u>	8260	02/15/07		02/21/07	02/16/07
Y1586-07RE	GFSB08-40-42RE	SOIL	<u>VOC-STARS</u>	8260	02/15/07		02/21/07	02/16/07
Y1586-08	GFSB08-45-47	SOIL	<u>VOC-STARS</u>	8260	02/15/07		02/22/07	02/16/07
			<u>VOC-STARS</u>	8260			02/21/07	

CHEMTECH

Lab Chronicle

Order ID: Y1586 Order Date: 2/16/2007 12:36:28 PM
Client: Gannett Fleming Engineers, LLC Project: LIRR Richmond Hill, Morris Park GF 045813.005
Contact: Vincent Frisina Location: VOA Lab

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y1586-01	GFSB06-40-42	SOIL	<u>SVOC-STARS</u>	8270	02/12/07	02/20/07	02/21/07	02/16/07
Y1586-02	GFSB06-50-52	SOIL	<u>SVOC-STARS</u>	8270	02/12/07	02/20/07	02/21/07	02/16/07
Y1586-03	GFSB07-35-37	SOIL	<u>SVOC-STARS</u>	8270	02/13/07	02/20/07	02/21/07	02/16/07
Y1586-04	GFSB07-50-52	SOIL	<u>SVOC-STARS</u>	8270	02/13/07	02/20/07	02/20/07	02/16/07
Y1586-05	GFSB09-25-27	SOIL	<u>SVOC-STARS</u>	8270	02/14/07	02/20/07	02/21/07	02/16/07
Y1586-06	GFSB09-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/14/07	02/20/07	02/20/07	02/16/07
Y1586-07	GFSB08-40-42	SOIL	<u>SVOC-STARS</u>	8270	02/15/07	02/20/07	02/21/07	02/16/07
Y1586-07DL	GFSB08-40-42DL	SOIL	<u>SVOC-STARS</u>	8270	02/15/07	02/20/07	02/21/07	02/16/07
Y1586-08	GFSB08-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/15/07	02/20/07	02/21/07	02/16/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1586

MATRIX: Solid

METHOD: 8260

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8260 and CLP.			
b. System Performance Check Compounds for 8260 and CLP			

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
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CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The Initial Calibration met the requirements except for Naphthalene. The Continuing Calibration met the requirements except for Naphthalene. The Blank Spike met requirements for all samples except for Methyl tert-butyl Ether.

Mildred Reyes
QA REVIEW

3/7/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1586

MATRIX: Solid

METHOD: 8270

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,
CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for
8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample
analysis and continuing calibration performed within 24 hours of sample analysis for 600
series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | |
| b. System Performance Check Compounds for 8270 and CLP | | | |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | | | |
|---|--|--|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
|---|--|--|---|

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for GFSB08-40-42 and GFSB08-40-42DL.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for Benzo(a)pyrene. The MSD recoveries met the acceptable requirements.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments: The Internal Standards Areas met the acceptable requirements except for GFSB06-40-42 and GFSB08-40-42.			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

Mildred V. Neys
QA REVIEW

3/7/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB06-40-42	SDG No.:	Y1586
Lab Sample ID:	Y1586-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014743.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	5.7	J	26	3.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7	93 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.76	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.04	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.54	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	360600	3.44			
540-36-3	1,4-Difluorobenzene	583606	3.84			
3114-55-4	Chlorobenzene-d5	598061	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	320655	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB06-50-52	SDG No.:	Y1586
Lab Sample ID:	Y1586-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	16
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014744.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.1	U	29	2.1	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.3	U	29	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	29	2.0	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.9	U	29	2.9	ug/Kg
98-06-6	tert-Butylbenzene	4.1	U	29	4.1	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	29	2.5	ug/Kg
104-51-8	n-Butylbenzene	2.0	U	29	2.0	ug/Kg
91-20-3	Naphthalene	3.4	U	29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	37.8	76 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	47.42	95 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.03	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	40.8	82 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	403674	3.43			
540-36-3	1,4-Difluorobenzene	639363	3.84			
3114-55-4	Chlorobenzene-d5	608587	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	305537	8.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB07-35-37	SDG No.:	Y1586
Lab Sample ID:	Y1586-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	7
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014751.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	18	J	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	24	J	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	140		26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	270		26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	160		26	2.2	ug/Kg
104-51-8	n-Butylbenzene	280		26	1.8	ug/Kg
91-20-3	Naphthalene	3500	E	26	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.43	91 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.85	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.28	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	60.36	121 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	390160	3.43			
540-36-3	1,4-Difluorobenzene	639088	3.84			
3114-55-4	Chlorobenzene-d5	634867	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	395640	8.91			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB07-35-37DL	SDG No.:	Y1586
Lab Sample ID:	Y1586-03DL	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	7
Sample Wt/Wol:	4.0 Units: g	Soil Extract Vol:	10000 uL
Soil Aliquot Vol:	100 uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VI011424.D	1	2/22/2007	VI020707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	48	U	670	48	ug/Kg
71-43-2	Benzene	32	U	670	32	ug/Kg
108-88-3	Toluene	52	U	670	52	ug/Kg
100-41-4	Ethyl Benzene	55	U	670	55	ug/Kg
126777-61-2	m&p-Xylenes	130	U	1300	130	ug/Kg
95-47-6	o-Xylene	49	U	670	49	ug/Kg
98-82-8	Isopropylbenzene	45	U	670	45	ug/Kg
103-65-1	n-propylbenzene	51	U	670	51	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	49	U	670	49	ug/Kg
98-06-6	tert-Butylbenzene	49	U	670	49	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	180	JD	670	50	ug/Kg
135-98-8	Sec-butylbenzene	440	JD	670	57	ug/Kg
99-87-6	p-Isopropyltoluene	260	JD	670	49	ug/Kg
104-51-8	n-Butylbenzene	140	JD	670	63	ug/Kg
91-20-3	Naphthalene	5000	D	670	63	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.78	104 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.48	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.38	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.77	98 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1148593	3.70			
540-36-3	1,4-Difluorobenzene	1871291	4.14			
3114-55-4	Chlorobenzene-d5	1564206	7.19			
3855-82-1	1,4-Dichlorobenzene-d4	830077	9.52			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB07-50-52	SDG No.:	Y1586
Lab Sample ID:	Y1586-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	17
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014745.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.2	U	29	2.2	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.4	U	29	2.4	ug/Kg
100-41-4	Ethyl Benzene	2.1	U	29	2.1	ug/Kg
126777-61-2	m/p-Xylenes	5.1	U	29	5.1	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.9	U	29	2.9	ug/Kg
98-06-6	tert-Butylbenzene	4.2	U	29	4.2	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	29	2.5	ug/Kg
104-51-8	n-Butylbenzene	6.0	J	29	2.0	ug/Kg
91-20-3	Naphthalene	150		29	3.4	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	43.81	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	47.02	94 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	46.65	93 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.96	90 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	379875	3.44			
540-36-3	1,4-Difluorobenzene	614743	3.84			
3114-55-4	Chlorobenzene-d5	608859	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	350142	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB09-25-27	SDG No.:	Y1586
Lab Sample ID:	Y1586-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014746.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	6.5	J	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	42.95	86 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	47.87	96 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	47.98	96 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	41.89	84 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	412989	3.44
540-36-3	1,4-Difluorobenzene	659310	3.84
3114-55-4	Chlorobenzene-d5	636161	6.61
3855-82-1	1,4-Dichlorobenzene-d4	312308	8.90

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB09-45-47	SDG No.:	Y1586
Lab Sample ID:	Y1586-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	20
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014747.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.3	U	31	2.3	ug/Kg
71-43-2	Benzene	2.5	U	31	2.5	ug/Kg
108-88-3	Toluene	2.5	U	31	2.5	ug/Kg
100-41-4	Ethyl Benzene	2.2	U	31	2.2	ug/Kg
126777-61-2	m/p-Xylenes	5.4	U	31	5.4	ug/Kg
95-47-6	o-Xylene	2.4	U	31	2.4	ug/Kg
98-82-8	Isopropylbenzene	2.6	U	31	2.6	ug/Kg
103-65-1	N-propylbenzene	3.4	U	31	3.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	3.1	U	31	3.1	ug/Kg
98-06-6	tert-Butylbenzene	4.5	U	31	4.5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.4	U	31	2.4	ug/Kg
135-98-8	Sec-butylbenzene	2.6	U	31	2.6	ug/Kg
99-87-6	p-Isopropyltoluene	2.7	U	31	2.7	ug/Kg
104-51-8	n-Butylbenzene	2.1	U	31	2.1	ug/Kg
91-20-3	Naphthalene	3.7	U	31	3.7	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.31	91 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.74	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.83	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.96	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	403935	3.43			
540-36-3	1,4-Difluorobenzene	646425	3.84			
3114-55-4	Chlorobenzene-d5	636549	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	352331	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-40-42	SDG No.:	Y1586
Lab Sample ID:	Y1586-07	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014749.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	6.1	J	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	22	J	26	2.2	ug/Kg
103-65-1	N-propylbenzene	29		26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	35		26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	370		26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	490		26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	44	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.72	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.98	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	68.7	137 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	392143	3.42			
540-36-3	1,4-Difluorobenzene	627550	3.83			
3114-55-4	Chlorobenzene-d5	599693	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	401621	8.91			

U = Not Detected

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-40-42RE	SDG No.:	Y1586
Lab Sample ID:	Y1586-07RE	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014782.D	1	2/22/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	9.2	J	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg
98-82-8	Isopropylbenzene	25	J	27	2.2	ug/Kg
103-65-1	N-propylbenzene	34		27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	27	2.6	ug/Kg
98-06-6	tert-Butylbenzene	40		27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	420		27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	560		27	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	27	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.47	105 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.92	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.21	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	78.01	156 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	347123	3.45			
540-36-3	1,4-Difluorobenzene	591383	3.85			
3114-55-4	Chlorobenzene-d5	591955	6.62			
3855-82-1	1,4-Dichlorobenzene-d4	426258	8.92			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-45-47	SDG No.:	Y1586
Lab Sample ID:	Y1586-08	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	9
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014748.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.2	U	27	2.2	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	8.2	J	27	2.3	ug/Kg
103-65-1	N-propylbenzene	12	J	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	12	J	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	27	2.1	ug/Kg
135-98-8	Sec-butylbenzene	130		27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	170		27	1.8	ug/Kg
91-20-3	Naphthalene	3.2	U	27	3.2	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	45.23	90 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.81	100 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.9	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	55.71	111 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	373534	3.43			
540-36-3	1,4-Difluorobenzene	605670	3.84			
3114-55-4	Chlorobenzene-d5	598054	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	358133	8.91			

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSK0221S1	VLCS01	1,2-Dichloroethane-d4	50	58.98	118		75.00	125.00
		Dibromofluoromethane	50	53.18	106		75.00	125.00
		Toluene-d8	50	50.53	101		75.00	125.00
		4-Bromofluorobenzene	50	52.52	105		75.00	125.00
BSK0222S1	VLCS02	1,2-Dichloroethane-d4	50	44.14	88		75.00	125.00
		Dibromofluoromethane	50	47.43	95		75.00	125.00
		Toluene-d8	50	48.49	97		75.00	125.00
		4-Bromofluorobenzene	50	47.15	94		75.00	125.00
VBK0221S1	VBLK01	1,2-Dichloroethane-d4	50	49.81	100		75.00	125.00
		Dibromofluoromethane	50	47.72	95		75.00	125.00
		Toluene-d8	50	45.86	92		75.00	125.00
		4-Bromofluorobenzene	50	45.28	91		75.00	125.00
VBK0222S1	VBLK02	1,2-Dichloroethane-d4	50	43.3	87		75.00	125.00
		Dibromofluoromethane	50	48.51	97		75.00	125.00
		Toluene-d8	50	49.07	98		75.00	125.00
		4-Bromofluorobenzene	50	47.49	95		75.00	125.00
Y1586-01	GFSB06-40-42	1,2-Dichloroethane-d4	50	46.7	93		75.00	125.00
		Dibromofluoromethane	50	48.76	98		75.00	125.00
		Toluene-d8	50	49.04	98		75.00	125.00
		4-Bromofluorobenzene	50	45.54	91		75.00	125.00
Y1586-02	GFSB06-50-52	1,2-Dichloroethane-d4	50	37.8	76		75.00	125.00
		Dibromofluoromethane	50	47.42	95		75.00	125.00
		Toluene-d8	50	49.03	98		75.00	125.00
		4-Bromofluorobenzene	50	40.8	82		75.00	125.00
Y1586-03	GFSB07-35-37	1,2-Dichloroethane-d4	50	45.43	91		75.00	125.00
		Dibromofluoromethane	50	48.85	98		75.00	125.00
		Toluene-d8	50	49.28	99		75.00	125.00
		4-Bromofluorobenzene	50	60.36	121		75.00	125.00
Y1586-04	GFSB07-50-52	1,2-Dichloroethane-d4	50	43.81	88		75.00	125.00
		Dibromofluoromethane	50	47.02	94		75.00	125.00
		Toluene-d8	50	46.65	93		75.00	125.00
		4-Bromofluorobenzene	50	44.96	90		75.00	125.00
Y1586-05	GFSB09-25-27	1,2-Dichloroethane-d4	50	42.95	86		75.00	125.00
		Dibromofluoromethane	50	47.87	96		75.00	125.00
		Toluene-d8	50	47.98	96		75.00	125.00
		4-Bromofluorobenzene	50	41.89	84		75.00	125.00
Y1586-06	GFSB09-45-47	1,2-Dichloroethane-d4	50	45.31	91		75.00	125.00
		Dibromofluoromethane	50	48.74	97		75.00	125.00
		Toluene-d8	50	49.83	100		75.00	125.00
		4-Bromofluorobenzene	50	45.96	92		75.00	125.00
Y1586-07	GFSB08-40-42	1,2-Dichloroethane-d4	50	44	88		75.00	125.00

Surrogate Summary
SW-846

SDG No.: Y1586
 Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y1586-07	GFSB08-40-42	Dibromofluoromethane	50	48.72	97		75.00	125.00
		Toluene-d8	50	48.98	98		75.00	125.00
		4-Bromofluorobenzene	50	68.7	137	*	75.00	125.00
Y1586-07RE	GFSB08-40-42RE	1,2-Dichloroethane-d4	50	52.47	105		75.00	125.00
		Dibromofluoromethane	50	50.92	102		75.00	125.00
		Toluene-d8	50	50.21	100		75.00	125.00
Y1586-08	GFSB08-45-47	4-Bromofluorobenzene	50	78.01	156	*	75.00	125.00
		1,2-Dichloroethane-d4	50	45.23	90		75.00	125.00
		Dibromofluoromethane	50	49.81	100		75.00	125.00
Y1604-01MS	Y1604-01MS	Toluene-d8	50	49.9	100		75.00	125.00
		4-Bromofluorobenzene	50	55.71	111		75.00	125.00
		1,2-Dichloroethane-d4	50	59.67	119		75.00	125.00
Y1604-01MSD	Y1604-01MSD	Dibromofluoromethane	50	54.9	110		75.00	125.00
		Toluene-d8	50	51.76	104		75.00	125.00
		4-Bromofluorobenzene	50	52.73	105		75.00	125.00
Y1604-01MSD	Y1604-01MSD	1,2-Dichloroethane-d4	50	61.73	123		75.00	125.00
		Dibromofluoromethane	50	53.72	107		75.00	125.00
		Toluene-d8	50	50.66	101		75.00	125.00
		4-Bromofluorobenzene	50	51.75	104		75.00	125.00

Surrogate Summary
SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260 - MED

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSI0222-02	VLCS01	1,2-Dichloroethane-d4	50	52.55	105		75.00	125.00
		Dibromofluoromethane	50	48.39	97		75.00	125.00
		Toluene-d8	50	49.88	100		75.00	125.00
		4-Bromofluorobenzene	50	47.88	96		75.00	125.00
VBI0222-02	VBLK01	1,2-Dichloroethane-d4	50	52.66	105		75.00	125.00
		Dibromofluoromethane	50	50.23	100		75.00	125.00
		Toluene-d8	50	49.88	100		75.00	125.00
		4-Bromofluorobenzene	50	47.9	96		75.00	125.00
Y1586-03DL	GFSB07-35-37DL	1,2-Dichloroethane-d4	50	51.78	104		75.00	125.00
		Dibromofluoromethane	50	48.48	97		75.00	125.00
		Toluene-d8	50	49.38	99		75.00	125.00
		4-Bromofluorobenzene	50	48.77	98		75.00	125.00
Y1604-04MS	Y1604-04MS	1,2-Dichloroethane-d4	50	58.19	116		75.00	125.00
		Dibromofluoromethane	50	47.96	96		75.00	125.00
		Toluene-d8	50	50.01	100		75.00	125.00
		4-Bromofluorobenzene	50	50.87	102		75.00	125.00
Y1604-04MSD	Y1604-04MSD	1,2-Dichloroethane-d4	50	50.36	101		75.00	125.00
		Dibromofluoromethane	50	46.5	93		75.00	125.00
		Toluene-d8	50	49.62	99		75.00	125.00
		4-Bromofluorobenzene	50	46.88	94		75.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: Y1604-01MS										
Y1604-01MS	Methyl tert-butyl Ether	250	0.0	300	120			74	149	
	Benzene	250	0.0	250	100			83	135	
	Toluene	250	0.0	260	104			79	140	
	Ethyl Benzene	250	0.0	240	96			82	139	
	m/p-Xylenes	500	0.0	490	98			81	143	
	o-Xylene	250	0.0	250	100			79	144	
	Isopropylbenzene	250	0.0	240	96			80	145	
	N-propylbenzene	250	0.0	240	96			74	160	
	1,3,5-Trimethylbenzene	250	0.0	240	96			78	151	
	tert-Butylbenzene	250	0.0	250	100			75	148	
	1,2,4-Trimethylbenzene	250	0.0	250	100			78	148	
	Sec-butylbenzene	250	0.0	240	96			81	147	
	p-Isopropyltoluene	250	0.0	240	96			75	151	
	n-Butylbenzene	250	0.0	240	96			81	154	
	Naphthalene	250	0.0	320	128			64	161	
Client Sample ID: Y1604-01MSD										
Y1604-01MSD	Methyl tert-butyl Ether	250	0.0	320	128	6		74	149	20
	Benzene	250	0.0	250	100	0		83	135	21
	Toluene	250	0.0	260	104	0		79	140	21
	Ethyl Benzene	250	0.0	230	92	4		82	139	20
	m/p-Xylenes	500	0.0	470	94	4		81	143	20
	o-Xylene	250	0.0	250	100	0		79	144	20
	Isopropylbenzene	250	0.0	230	92	4		80	145	20
	N-propylbenzene	250	0.0	230	92	4		74	160	20
	1,3,5-Trimethylbenzene	250	0.0	240	96	0		78	151	20
	tert-Butylbenzene	250	0.0	250	100	0		75	148	20
	1,2,4-Trimethylbenzene	250	0.0	250	100	0		78	148	20
	Sec-butylbenzene	250	0.0	230	92	4		81	147	20
	p-Isopropyltoluene	250	0.0	240	96	0		75	151	20
	n-Butylbenzene	250	0.0	240	96	0		81	154	20
	Naphthalene	250	0.0	330	132	3		64	161	20

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1604-01MS	SDG No.:	Y1586
Lab Sample ID:	Y1604-01MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014741.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	300		25	1.8	ug/Kg
71-43-2	Benzene	250		25	2.0	ug/Kg
108-88-3	Toluene	260		25	2.0	ug/Kg
100-41-4	Ethyl Benzene	240		25	1.8	ug/Kg
126777-61-2	m/p-Xylenes	490		25	4.3	ug/Kg
95-47-6	o-Xylene	250		25	1.9	ug/Kg
98-82-8	Isopropylbenzene	240		25	2.1	ug/Kg
103-65-1	N-propylbenzene	240		25	2.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	240		25	2.4	ug/Kg
98-06-6	tert-Butylbenzene	250		25	3.5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	250		25	1.9	ug/Kg
135-98-8	Sec-butylbenzene	240		25	2.1	ug/Kg
99-87-6	p-Isopropyltoluene	240		25	2.1	ug/Kg
104-51-8	n-Butylbenzene	240		25	1.7	ug/Kg
91-20-3	Naphthalene	320		25	2.9	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.67	119 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	54.9	110 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.76	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	52.73	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	290163	3.44			
540-36-3	1,4-Difluorobenzene	489336	3.84			
3114-55-4	Chlorobenzene-d5	528916	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	311307	8.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1604-01MSD	SDG No.:	Y1586
Lab Sample ID:	Y1604-01MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014742.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	320		25	1.8	ug/Kg
71-43-2	Benzene	250		25	2.0	ug/Kg
108-88-3	Toluene	260		25	2.0	ug/Kg
100-41-4	Ethyl Benzene	230		25	1.8	ug/Kg
126777-61-2	m/p-Xylenes	470		25	4.3	ug/Kg
95-47-6	o-Xylene	250		25	1.9	ug/Kg
98-82-8	Isopropylbenzene	230		25	2.1	ug/Kg
103-65-1	N-propylbenzene	230		25	2.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	240		25	2.5	ug/Kg
98-06-6	tert-Butylbenzene	250		25	3.6	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	250		25	1.9	ug/Kg
135-98-8	Sec-butylbenzene	230		25	2.1	ug/Kg
99-87-6	p-Isopropyltoluene	240		25	2.1	ug/Kg
104-51-8	n-Butylbenzene	240		25	1.7	ug/Kg
91-20-3	Naphthalene	330		25	2.9	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	61.73	123 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	53.72	107 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	50.66	101 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	51.75	104 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	296440	3.43		
540-36-3	1,4-Difluorobenzene	512769	3.84		
3114-55-4	Chlorobenzene-d5	569934	6.61		
3855-82-1	1,4-Dichlorobenzene-d4	327617	8.91		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260 - MED

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	High	RPD
Client Sample ID: Y1604-04MS										
Y1604-04MS	Methyl tert-butyl Ether	5000	0.0	6300	126			74	149	
	Benzene	5000	0.0	5700	114			83	135	
	Toluene	5000	0.0	5400	108			79	140	
	Ethyl Benzene	5000	0.0	5300	106			82	139	
	m&p-Xylenes	10000	0.0	11000	110			81	143	
	o-Xylene	5000	0.0	5200	104			79	144	
	Isopropylbenzene	5000	0.0	5300	106			80	145	
	n-propylbenzene	5000	0.0	5300	106			74	160	
	1,3,5-Trimethylbenzene	5000	0.0	5300	106			78	151	
	tert-Butylbenzene	5000	0.0	5300	106			75	148	
	1,2,4-Trimethylbenzene	5000	0.0	5200	104			78	148	
	Sec-butylbenzene	5000	0.0	5500	110			81	147	
	p-Isopropyltoluene	5000	0.0	5500	110			75	151	
	n-Butylbenzene	5000	0.0	5500	110			81	154	
	Naphthalene	5000	0.0	5400	108			64	161	
Client Sample ID: Y1604-04MSD										
Y1604-04MSD	Methyl tert-butyl Ether	5000	0.0	5700	114	10		74	149	20
	Benzene	5000	0.0	5400	108	5		83	135	21
	Toluene	5000	0.0	5100	102	6		79	140	21
	Ethyl Benzene	5000	0.0	5000	100	6		82	139	20
	m&p-Xylenes	10000	0.0	10000	100	10		81	143	21
	o-Xylene	5000	0.0	5000	100	4		79	144	21
	Isopropylbenzene	5000	0.0	5300	106	0		80	145	20
	n-propylbenzene	5000	0.0	5200	104	2		74	160	20
	1,3,5-Trimethylbenzene	5000	0.0	5200	104	2		78	151	20
	tert-Butylbenzene	5000	0.0	4900	98	8		75	148	20
	1,2,4-Trimethylbenzene	5000	0.0	5100	102	2		78	148	20
	Sec-butylbenzene	5000	0.0	5200	104	6		81	147	20
	p-Isopropyltoluene	5000	0.0	5200	104	6		75	151	20
	n-Butylbenzene	5000	0.0	5200	104	6		81	154	20
	Naphthalene	5000	0.0	5000	100	8		64	161	20

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1604-04MS	SDG No.:	Y1586
Lab Sample ID:	Y1604-04MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	10000 uL
Soil Aliquot Vol:	100 uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VI011418.D	1	2/22/2007	VI020707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	6300		500	36	ug/Kg
71-43-2	Benzene	5700		500	24	ug/Kg
108-88-3	Toluene	5400		500	39	ug/Kg
100-41-4	Ethyl Benzene	5300		500	41	ug/Kg
126777-61-2	m&p-Xylenes	11000		1000	96	ug/Kg
95-47-6	o-Xylene	5200		500	37	ug/Kg
98-82-8	Isopropylbenzene	5300		500	33	ug/Kg
103-65-1	n-propylbenzene	5300		500	38	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5300		500	37	ug/Kg
98-06-6	tert-Butylbenzene	5300		500	36	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5200		500	37	ug/Kg
135-98-8	Sec-butylbenzene	5500		500	43	ug/Kg
99-87-6	p-Isopropyltoluene	5500		500	36	ug/Kg
104-51-8	n-Butylbenzene	5500		500	47	ug/Kg
91-20-3	Naphthalene	5400		500	47	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.19	116 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	47.96	96 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.01	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	50.87	102 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1062854	3.70			
540-36-3	1,4-Difluorobenzene	1813850	4.15			
3114-55-4	Chlorobenzene-d5	1550095	7.19			
3855-82-1	1,4-Dichlorobenzene-d4	872078	9.52			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1604-04MSD	SDG No.:	Y1586
Lab Sample ID:	Y1604-04MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	10000 uL
Soil Aliquot Vol:	100 uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VI011419.D	1	2/22/2007	VI020707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	5700		500	36	ug/Kg
71-43-2	Benzene	5400		500	24	ug/Kg
108-88-3	Toluene	5100		500	39	ug/Kg
100-41-4	Ethyl Benzene	5000		500	41	ug/Kg
126777-61-2	m&p-Xylenes	10000		1000	96	ug/Kg
95-47-6	o-Xylene	5000		500	37	ug/Kg
98-82-8	Isopropylbenzene	5300		500	33	ug/Kg
103-65-1	n-propylbenzene	5200		500	38	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	5200		500	37	ug/Kg
98-06-6	tert-Butylbenzene	4900		500	36	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	5100		500	37	ug/Kg
135-98-8	Sec-butylbenzene	5200		500	43	ug/Kg
99-87-6	p-Isopropyltoluene	5200		500	36	ug/Kg
104-51-8	n-Butylbenzene	5200		500	47	ug/Kg
91-20-3	Naphthalene	5000		500	47	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.36	101 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	46.5	93 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.62	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.88	94 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1175858	3.69			
540-36-3	1,4-Difluorobenzene	1876650	4.14			
3114-55-4	Chlorobenzene-d5	1526897	7.19			
3855-82-1	1,4-Dichlorobenzene-d4	822403	9.52			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0221S1	Methyl tert-butyl Ether	20	26	130			70	130	
	Benzene	20	21	105			70	130	
	Toluene	20	21	105			70	130	
	Ethyl Benzene	20	20	100			70	130	
	m/p-Xylenes	40	39	98			70	130	
	o-Xylene	20	20	100			70	130	
	Isopropylbenzene	20	19	95			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	20	100			70	130	
	tert-Butylbenzene	20	18	90			70	130	
	1,2,4-Trimethylbenzene	20	20	100			70	130	
	Sec-butylbenzene	20	19	95			70	130	
	p-Isopropyltoluene	20	19	95			70	130	
	n-Butylbenzene	20	19	95			70	130	
	Naphthalene	20	26	130			70	130	
	BSK0222S1	Methyl tert-butyl Ether	20	20	100			70	130
Benzene		20	21	105			70	130	
Toluene		20	20	100			70	130	
Ethyl Benzene		20	20	100			70	130	
m/p-Xylenes		40	40	100			70	130	
o-Xylene		20	20	100			70	130	
Isopropylbenzene		20	20	100			70	130	
N-propylbenzene		20	20	100			70	130	
1,3,5-Trimethylbenzene		20	20	100			70	130	
tert-Butylbenzene		20	19	95			70	130	
1,2,4-Trimethylbenzene		20	19	95			70	130	
Sec-butylbenzene		20	20	100			70	130	
p-Isopropyltoluene		20	20	100			70	130	
n-Butylbenzene		20	20	100			70	130	
Naphthalene		20	23	115			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1586
Lab Sample ID:	BSK0221S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014729.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	26		5.0	0.37	ug/Kg
71-43-2	Benzene	21		5.0	0.40	ug/Kg
108-88-3	Toluene	21		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	20		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	39		5.0	0.86	ug/Kg
95-47-6	o-Xylene	20		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	19		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	19		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	18		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	19		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	19		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	19		5.0	0.34	ug/Kg
91-20-3	Naphthalene	26		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.98	118 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.18	106 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.53	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	52.52	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312023	3.44			
540-36-3	1,4-Difluorobenzene	529630	3.84			
3114-55-4	Chlorobenzene-d5	572693	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	337866	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y1586
Lab Sample ID:	BSK0222S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014759.D	1	2/22/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	20		5.0	0.37	ug/Kg
71-43-2	Benzene	21		5.0	0.40	ug/Kg
108-88-3	Toluene	20		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	20		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	40		5.0	0.86	ug/Kg
95-47-6	o-Xylene	20		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	20		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	20		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	19		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	20		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	20		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	20		5.0	0.34	ug/Kg
91-20-3	Naphthalene	23		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.14	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	47.43	95 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.49	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.15	94 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	411027	3.45			
540-36-3	1,4-Difluorobenzene	640094	3.85			
3114-55-4	Chlorobenzene-d5	657204	6.62			
3855-82-1	1,4-Dichlorobenzene-d4	391972	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1586Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260 - MED

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSI0222-02	Methyl tert-butyl Ether	2000	2700	135		*	70	130	
	Benzene	2000	2400	120			70	130	
	Toluene	2000	2200	110			70	130	
	Ethyl Benzene	2000	2100	105			70	130	
	m&p-Xylenes	4000	4200	105			70	130	
	o-Xylene	2000	2100	105			70	130	
	Isopropylbenzene	2000	2300	115			70	130	
	n-propylbenzene	2000	2300	115			70	130	
	1,3,5-Trimethylbenzene	2000	2300	115			70	130	
	tert-Butylbenzene	2000	2000	100			70	130	
	1,2,4-Trimethylbenzene	2000	2200	110			70	130	
	Sec-butylbenzene	2000	2200	110			70	130	
	p-Isopropyltoluene	2000	2300	115			70	130	
	n-Butylbenzene	2000	2200	110			70	130	
	Naphthalene	2000	2200	110			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1586
Lab Sample ID:	BSI0222-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	10000 uL
Soil Aliquot Vol:	100 uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VI011416.D	1	2/22/2007	VI020707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2700		500	36	ug/Kg
71-43-2	Benzene	2400		500	24	ug/Kg
108-88-3	Toluene	2200		500	39	ug/Kg
100-41-4	Ethyl Benzene	2100		500	41	ug/Kg
126777-61-2	m&p-Xylenes	4200		1000	96	ug/Kg
95-47-6	o-Xylene	2100		500	37	ug/Kg
98-82-8	Isopropylbenzene	2300		500	33	ug/Kg
103-65-1	n-propylbenzene	2300		500	38	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2300		500	37	ug/Kg
98-06-6	tert-Butylbenzene	2000		500	36	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2200		500	37	ug/Kg
135-98-8	Sec-butylbenzene	2200		500	43	ug/Kg
99-87-6	p-Isopropyltoluene	2300		500	36	ug/Kg
104-51-8	n-Butylbenzene	2200		500	47	ug/Kg
91-20-3	Naphthalene	2200		500	47	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.55	105 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.39	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.88	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.88	96 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	1146136	3.70			
540-36-3	1,4-Difluorobenzene	1907291	4.14			
3114-55-4	Chlorobenzene-d5	1600149	7.18			
3855-82-1	1,4-Dichlorobenzene-d4	839610	9.52			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CTECH Case No.: Y1586 SAS No.: Y1586 SDG NO.: Y1586
 Lab File ID: VK014728.D Lab Sample ID: VBK0221S1
 Date Analyzed: 2/21/2007 Time Analyzed: 11:47
 GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK0221S1	VK014729.D	12:19
Y1604-01MS	Y1604-01MS	VK014741.D	17:33
Y1604-01MSD	Y1604-01MSD	VK014742.D	17:59
GFSB06-40-42	Y1586-01	VK014743.D	18:25
GFSB06-50-52	Y1586-02	VK014744.D	18:51
GFSB07-50-52	Y1586-04	VK014745.D	19:17
GFSB09-25-27	Y1586-05	VK014746.D	19:44
GFSB09-45-47	Y1586-06	VK014747.D	20:10
GFSB08-45-47	Y1586-08	VK014748.D	20:36
GFSB08-40-42	Y1586-07	VK014749.D	21:02
GFSB07-35-37	Y1586-03	VK014751.D	21:55

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: GANN01
Lab Code: CTECH Case No.: Y1586 SAS No.: Y1586 SDG NO.: Y1586
Lab File ID: VK014758.D Lab Sample ID: VBK0222S1
Date Analyzed: 2/22/2007 Time Analyzed: 10:30
GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y
Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSK0222S1	VK014759.D	11:02
GFSB08-40-42RE	Y1586-07RE	VK014782.D	21:05

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1586
Lab Sample ID:	VBK0221S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014728.D	1	2/21/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.81	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	47.72	95 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	45.86	92 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.28	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	326068	3.44			
540-36-3	1,4-Difluorobenzene	546914	3.84			
3114-55-4	Chlorobenzene-d5	575547	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	312381	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y1586
Lab Sample ID:	VBK0222S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014758.D	1	2/22/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.3	87 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.51	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.07	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.49	95 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	437060	3.44			
540-36-3	1,4-Difluorobenzene	679576	3.85			
3114-55-4	Chlorobenzene-d5	684525	6.62			
3855-82-1	1,4-Dichlorobenzene-d4	390568	8.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CTECH Case No.: Y1586 SAS No.: Y1586 SDG NO.: Y1586
 Lab File ID: VI011414.D Lab Sample ID: VBI0222-02
 Date Analyzed: 2/22/2007 Time Analyzed: 11:31
 GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAI

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSI0222-02	VI011416.D	12:32
Y1604-04MS	Y1604-04MS	VI011418.D	13:33
Y1604-04MSD	Y1604-04MSD	VI011419.D	14:03
GFSB07-35-37DL	Y1586-03DL	VI011424.D	17:20

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1586
Lab Sample ID:	VBI0222-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	10000 uL
Soil Aliquot Vol:	100 uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VI011414.D	1	2/22/2007	VI020707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	36	U	500	36	ug/Kg
71-43-2	Benzene	24	U	500	24	ug/Kg
108-88-3	Toluene	39	U	500	39	ug/Kg
100-41-4	Ethyl Benzene	41	U	500	41	ug/Kg
126777-61-2	m&p-Xylenes	96	U	1000	96	ug/Kg
95-47-6	o-Xylene	37	U	500	37	ug/Kg
98-82-8	Isopropylbenzene	33	U	500	33	ug/Kg
103-65-1	n-propylbenzene	38	U	500	38	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	37	U	500	37	ug/Kg
98-06-6	tert-Butylbenzene	36	U	500	36	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	37	U	500	37	ug/Kg
135-98-8	Sec-butylbenzene	43	U	500	43	ug/Kg
99-87-6	p-Isopropyltoluene	36	U	500	36	ug/Kg
104-51-8	n-Butylbenzene	47	U	500	47	ug/Kg
91-20-3	Naphthalene	47	U	500	47	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.66	105 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.23	100 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.88	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.9	96 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1202873	3.70			
540-36-3	1,4-Difluorobenzene	1969155	4.14			
3114-55-4	Chlorobenzene-d5	1656693	7.18			
3855-82-1	1,4-Dichlorobenzene-d4	863697	9.52			

U = Not Detected

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E = Value Exceeds Calibration Range

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N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB06-40-42	SDG No.:	Y1586
Lab Sample ID:	Y1586-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036347.D	1	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	82	J	350	62	ug/Kg
86-73-7	Fluorene	83	J	350	59	ug/Kg
85-01-8	Phenanthrene	1000		350	56	ug/Kg
120-12-7	Anthracene	160	J	350	53	ug/Kg
206-44-0	Fluoranthene	870		350	52	ug/Kg
129-00-0	Pyrene	880		350	62	ug/Kg
56-55-3	Benzo(a)anthracene	340	J	350	49	ug/Kg
218-01-9	Chrysene	380		350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	430		350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	J	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	350		350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	J	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	200	J	350	58	ug/Kg

SURROGATES

4165-60-0	Nitrobenzene-d5	71.39	71 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.5	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	78.97	79 %	18 - 137		SPK: 10

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	127294	6.36			
1146-65-2	Naphthalene-d8	534671	8.66			
15067-26-2	Acenaphthene-d10	279755	12.11			
1517-22-2	Phenanthrene-d10	402237	15.09			
1719-03-5	Chrysene-d12	367137	20.42			
1520-96-3	Perylene-d12	258940	23.59			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB06-50-52	SDG No.:	Y1586
Lab Sample ID:	Y1586-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	16
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036345.D	1	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	67	U	390	67	ug/Kg
83-32-9	Acenaphthene	70	U	390	70	ug/Kg
86-73-7	Fluorene	66	U	390	66	ug/Kg
85-01-8	Phenanthrene	130	J	390	63	ug/Kg
120-12-7	Anthracene	59	U	390	59	ug/Kg
206-44-0	Fluoranthene	110	J	390	58	ug/Kg
129-00-0	Pyrene	100	J	390	69	ug/Kg
56-55-3	Benzo(a)anthracene	55	U	390	55	ug/Kg
218-01-9	Chrysene	70	U	390	70	ug/Kg
205-99-2	Benzo(b)fluoranthene	50	J	390	43	ug/Kg
207-08-9	Benzo(k)fluoranthene	86	U	390	86	ug/Kg
50-32-8	Benzo(a)pyrene	63	U	390	63	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	50	U	390	50	ug/Kg
53-70-3	Dibenz(a,h)anthracene	49	U	390	49	ug/Kg
191-24-2	Benzo(g,h,i)perylene	65	U	390	65	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.43	71 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	70.48	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.52	76 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	136243	6.35			
1146-65-2	Naphthalene-d8	560755	8.67			
15067-26-2	Acenaphthene-d10	289754	12.11			
1517-22-2	Phenanthrene-d10	428386	15.10			
1719-03-5	Chrysene-d12	403867	20.43			
1520-96-3	Perylene-d12	284768	23.60			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB07-35-37	SDG No.:	Y1586
Lab Sample ID:	Y1586-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	7
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036369.D	2	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	2500		710	120	ug/Kg
83-32-9	Acenaphthene	130	U	710	130	ug/Kg
86-73-7	Fluorene	1400		710	120	ug/Kg
85-01-8	Phenanthrene	2700		710	110	ug/Kg
120-12-7	Anthracene	360	J	710	110	ug/Kg
206-44-0	Fluoranthene	120	J	710	110	ug/Kg
129-00-0	Pyrene	330	J	710	130	ug/Kg
56-55-3	Benzo(a)anthracene	99	U	710	99	ug/Kg
218-01-9	Chrysene	130	U	710	130	ug/Kg
205-99-2	Benzo(b)fluoranthene	78	U	710	78	ug/Kg
207-08-9	Benzo(k)fluoranthene	160	U	710	160	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	710	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90	U	710	90	ug/Kg
53-70-3	Dibenz(a,h)anthracene	89	U	710	89	ug/Kg
191-24-2	Benzo(g,h,i)perylene	120	U	710	120	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.32	86 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	59.6	60 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.64	66 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	133522	6.27			
1146-65-2	Naphthalene-d8	431360	8.58			
15067-26-2	Acenaphthene-d10	193852	12.03			
1517-22-2	Phenanthrene-d10	260958	15.00			
1719-03-5	Chrysene-d12	299398	20.30			
1520-96-3	Perylene-d12	230674	23.41			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB07-50-52	SDG No.:	Y1586
Lab Sample ID:	Y1586-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	17
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036340.D	1	2/20/2007	2/20/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	120	J	400	68	ug/Kg
83-32-9	Acenaphthene	71	U	400	71	ug/Kg
86-73-7	Fluorene	94	J	400	67	ug/Kg
85-01-8	Phenanthrene	210	J	400	63	ug/Kg
120-12-7	Anthracene	60	U	400	60	ug/Kg
206-44-0	Fluoranthene	59	U	400	59	ug/Kg
129-00-0	Pyrene	70	U	400	70	ug/Kg
56-55-3	Benzo(a)anthracene	56	U	400	56	ug/Kg
218-01-9	Chrysene	71	U	400	71	ug/Kg
205-99-2	Benzo(b)fluoranthene	44	U	400	44	ug/Kg
207-08-9	Benzo(k)fluoranthene	87	U	400	87	ug/Kg
50-32-8	Benzo(a)pyrene	64	U	400	64	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	50	U	400	50	ug/Kg
53-70-3	Dibenz(a,h)anthracene	50	U	400	50	ug/Kg
191-24-2	Benzo(g,h,i)perylene	66	U	400	66	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.35	74 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	73.49	73 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.87	76 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137500	6.36			
1146-65-2	Naphthalene-d8	545505	8.66			
15067-26-2	Acenaphthene-d10	254671	12.12			
1517-22-2	Phenanthrene-d10	353884	15.09			
1719-03-5	Chrysene-d12	354946	20.42			
1520-96-3	Perylene-d12	257694	23.59			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB09-25-27	SDG No.:	Y1586
Lab Sample ID:	Y1586-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036348.D	1	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	260	J	350	56	ug/Kg
120-12-7	Anthracene	58	J	350	53	ug/Kg
206-44-0	Fluoranthene	220	J	350	52	ug/Kg
129-00-0	Pyrene	200	J	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	91	J	350	49	ug/Kg
218-01-9	Chrysene	91	J	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	J	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	89	J	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.6	71 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.8	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	77.72	78 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	153860	6.36			
1146-65-2	Naphthalene-d8	630908	8.66			
15067-26-2	Acenaphthene-d10	329032	12.11			
1517-22-2	Phenanthrene-d10	469486	15.09			
1719-03-5	Chrysene-d12	426607	20.43			
1520-96-3	Perylene-d12	293681	23.60			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB09-45-47	SDG No.:	Y1586
Lab Sample ID:	Y1586-06	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	20
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036339.D	1	2/20/2007	2/20/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	70	U	410	70	ug/Kg
83-32-9	Acenaphthene	73	U	410	73	ug/Kg
86-73-7	Fluorene	69	U	410	69	ug/Kg
85-01-8	Phenanthrene	66	U	410	66	ug/Kg
120-12-7	Anthracene	62	U	410	62	ug/Kg
206-44-0	Fluoranthene	61	U	410	61	ug/Kg
129-00-0	Pyrene	73	U	410	73	ug/Kg
56-55-3	Benzo(a)anthracene	58	U	410	58	ug/Kg
218-01-9	Chrysene	74	U	410	74	ug/Kg
205-99-2	Benzo(b)fluoranthene	45	U	410	45	ug/Kg
207-08-9	Benzo(k)fluoranthene	91	U	410	91	ug/Kg
50-32-8	Benzo(a)pyrene	66	U	410	66	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	52	U	410	52	ug/Kg
53-70-3	Dibenz(a,h)anthracene	52	U	410	52	ug/Kg
191-24-2	Benzo(g,h,i)perylene	68	U	410	68	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.95	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.48	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	73.44	73 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	154964	6.36			
1146-65-2	Naphthalene-d8	620826	8.66			
15067-26-2	Acenaphthene-d10	315613	12.11			
1517-22-2	Phenanthrene-d10	457041	15.09			
1719-03-5	Chrysene-d12	428489	20.41			
1520-96-3	Perylene-d12	300253	23.58			

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-40-42	SDG No.:	Y1586
Lab Sample ID:	Y1586-07	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036346.D	1	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	61	U	360	61	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	60	U	360	60	ug/Kg
85-01-8	Phenanthrene	6500	E	360	57	ug/Kg
120-12-7	Anthracene	880		360	54	ug/Kg
206-44-0	Fluoranthene	360		360	53	ug/Kg
129-00-0	Pyrene	360		360	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	64	U	360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	44	J	360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	79	U	360	79	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	360	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	183.37	183 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	85.64	86 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	58.82	59 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	130912	6.37			
1146-65-2	Naphthalene-d8	214913	8.69			
15067-26-2	Acenaphthene-d10	64551	12.24			
1517-22-2	Phenanthrene-d10	104726	15.22			
1719-03-5	Chrysene-d12	217264	20.45			
1520-96-3	Perylene-d12	170439	23.61			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-40-42DL	SDG No.:	Y1586
Lab Sample ID:	Y1586-07DL	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036371.D	5	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	310	UD	1800	310	ug/Kg
83-32-9	Acenaphthene	320	UD	1800	320	ug/Kg
86-73-7	Fluorene	3300	D	1800	300	ug/Kg
85-01-8	Phenanthrene	6700	D	1800	280	ug/Kg
120-12-7	Anthracene	780	JD	1800	270	ug/Kg
206-44-0	Fluoranthene	270	UD	1800	270	ug/Kg
129-00-0	Pyrene	390	JD	1800	320	ug/Kg
56-55-3	Benzo(a)anthracene	250	UD	1800	250	ug/Kg
218-01-9	Chrysene	320	UD	1800	320	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	UD	1800	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	390	UD	1800	390	ug/Kg
50-32-8	Benzo(a)pyrene	290	UD	1800	290	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	230	UD	1800	230	ug/Kg
53-70-3	Dibenz(a,h)anthracene	220	UD	1800	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	300	UD	1800	300	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	142.15	142 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	61.05	61 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.9	66 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125046	6.27			
1146-65-2	Naphthalene-d8	420333	8.57			
15067-26-2	Acenaphthene-d10	183248	12.04			
1517-22-2	Phenanthrene-d10	247669	15.01			
1719-03-5	Chrysene-d12	308630	20.30			
1520-96-3	Perylene-d12	233666	23.40			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/15/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/16/2007
Client Sample ID:	GFSB08-45-47	SDG No.:	Y1586
Lab Sample ID:	Y1586-08	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036370.D	2	2/20/2007	2/21/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	120	U	720	120	ug/Kg
83-32-9	Acenaphthene	130	U	720	130	ug/Kg
86-73-7	Fluorene	1000		720	120	ug/Kg
85-01-8	Phenanthrene	2000		720	110	ug/Kg
120-12-7	Anthracene	230	J	720	110	ug/Kg
206-44-0	Fluoranthene	110	U	720	110	ug/Kg
129-00-0	Pyrene	130	U	720	130	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	720	100	ug/Kg
218-01-9	Chrysene	130	U	720	130	ug/Kg
205-99-2	Benzo(b)fluoranthene	79	U	720	79	ug/Kg
207-08-9	Benzo(k)fluoranthene	160	U	720	160	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	720	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	91	U	720	91	ug/Kg
53-70-3	Dibenz(a,h)anthracene	90	U	720	90	ug/Kg
191-24-2	Benzo(g,h,i)perylene	120	U	720	120	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	87.62	88 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	62.68	63 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	68.36	68 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	125248	6.27			
1146-65-2	Naphthalene-d8	422413	8.57			
15067-26-2	Acenaphthene-d10	184829	12.03			
1517-22-2	Phenanthrene-d10	256228	15.00			
1719-03-5	Chrysene-d12	293090	20.30			
1520-96-3	Perylene-d12	225057	23.40			

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CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Surrogate Summary
SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25127B	SBLK01	Nitrobenzene-d5	100	73.65	74		23.00	120.00
		2-Fluorobiphenyl	100	73.36	73		30.00	116.00
		Terphenyl-d14	100	75.43	75		18.00	137.00
PB25127BS	SLCS01	Nitrobenzene-d5	100	78.13	78		23.00	120.00
		2-Fluorobiphenyl	100	75.34	75		30.00	116.00
		Terphenyl-d14	100	78.93	79		18.00	137.00
Y1586-01	GFSB06-40-42	Nitrobenzene-d5	100	71.39	71		23.00	120.00
		2-Fluorobiphenyl	100	69.5	70		30.00	116.00
		Terphenyl-d14	100	78.97	79		18.00	137.00
Y1586-02	GFSB06-50-52	Nitrobenzene-d5	100	71.43	71		23.00	120.00
		2-Fluorobiphenyl	100	70.48	70		30.00	116.00
		Terphenyl-d14	100	75.52	76		18.00	137.00
Y1586-03	GFSB07-35-37	Nitrobenzene-d5	100	86.32	86		23.00	120.00
		2-Fluorobiphenyl	100	59.6	60		30.00	116.00
		Terphenyl-d14	100	65.64	66		18.00	137.00
Y1586-04	GFSB07-50-52	Nitrobenzene-d5	100	74.35	74		23.00	120.00
		2-Fluorobiphenyl	100	73.49	73		30.00	116.00
		Terphenyl-d14	100	75.87	76		18.00	137.00
Y1586-05	GFSB09-25-27	Nitrobenzene-d5	100	70.6	71		23.00	120.00
		2-Fluorobiphenyl	100	69.8	70		30.00	116.00
		Terphenyl-d14	100	77.72	78		18.00	137.00
Y1586-06	GFSB09-45-47	Nitrobenzene-d5	100	71.95	72		23.00	120.00
		2-Fluorobiphenyl	100	69.48	69		30.00	116.00
		Terphenyl-d14	100	73.44	73		18.00	137.00
Y1586-07	GFSB08-40-42	Nitrobenzene-d5	100	183.37	183	*	23.00	120.00
		2-Fluorobiphenyl	100	85.64	86		30.00	116.00
		Terphenyl-d14	100	58.82	59		18.00	137.00
Y1586-07DL	GFSB08-40-42DL	Nitrobenzene-d5	100	142.15	142	*	23.00	120.00
		2-Fluorobiphenyl	100	61.05	61		30.00	116.00
		Terphenyl-d14	100	65.9	66		18.00	137.00
Y1586-08	GFSB08-45-47	Nitrobenzene-d5	100	87.62	88		23.00	120.00
		2-Fluorobiphenyl	100	62.68	63		30.00	116.00
		Terphenyl-d14	100	68.36	68		18.00	137.00
Y1622-04MS	Y1622-04MS	Nitrobenzene-d5	100	79.2	79		23.00	120.00
		2-Fluorobiphenyl	100	76.13	76		30.00	116.00
		Terphenyl-d14	100	84.29	84		18.00	137.00
Y1622-05MSD	Y1622-05MSD	Nitrobenzene-d5	100	80.23	80		23.00	120.00
		2-Fluorobiphenyl	100	79.39	79		30.00	116.00
		Terphenyl-d14	100	85.26	85		18.00	137.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Y1622-04MS		Client Sample ID: Y1622-04MS								
Naphthalene	1700	0	1300	76				34	120	
Acenaphthene	1700	0	1300	76				65	100	
Fluorene	1700	0	1300	76				47	117	
Phenanthrene	1700	0	1300	76				20	150	
Anthracene	1700	0	1300	76				54	108	
Fluoranthene	1700	0	1300	76				55	105	
Pyrene	1700	0	1400	82				20	150	
Benzo(a)anthracene	1700	0	1300	76				60	100	
Chrysene	1700	0	1400	82				51	115	
Indeno(1,2,3-cd)pyrene	1700	0	1300	76				42	124	
Benzo(b)fluoranthene	1700	0	1700	100				42	126	
Benzo(k)fluoranthene	1700	0	1900	112				43	125	
Benzo(a)pyrene	1700	0	1800	106	*			58	102	
Dibenz(a,h)anthracene	1700	0	1700	100				41	130	
Benzo(g,h,i)perylene	1700	0	1700	100				39	130	
Lab Sample ID: Y1622-05MSD		Client Sample ID: Y1622-05MSD								
Naphthalene	1700	0	1300	76		0		34	120	50
Acenaphthene	1700	0	1300	76		0		65	100	50
Fluorene	1700	0	1300	76		0		47	117	50
Phenanthrene	1700	0	1300	76		0		20	150	50
Anthracene	1700	0	1300	76		0		54	108	50
Fluoranthene	1700	0	1300	76		0		55	105	50
Pyrene	1700	0	1400	82		0		20	150	50
Benzo(a)anthracene	1700	0	1300	76		0		60	100	50
Chrysene	1700	0	1300	76		8		51	115	50
Indeno(1,2,3-cd)pyrene	1700	0	1300	76		0		42	124	50
Benzo(b)fluoranthene	1700	0	1800	106		6		42	126	50
Benzo(k)fluoranthene	1700	0	1800	106		6		43	125	50
Benzo(a)pyrene	1700	0	1800	106		0		58	102	50
Dibenz(a,h)anthracene	1700	0	1700	100		0		41	130	50
Benzo(g,h,i)perylene	1700	0	1700	100		0		39	130	50

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1622-05MSD	SDG No.:	Y1586
Lab Sample ID:	Y1622-05MSD	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036342.D	1	2/20/2007	2/20/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300		330	56	ug/Kg
83-32-9	Acenaphthene	1300		330	59	ug/Kg
86-73-7	Fluorene	1300		330	56	ug/Kg
85-01-8	Phenanthrene	1300		330	52	ug/Kg
120-12-7	Anthracene	1300		330	50	ug/Kg
206-44-0	Fluoranthene	1300		330	49	ug/Kg
129-00-0	Pyrene	1400		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1300		330	46	ug/Kg
218-01-9	Chrysene	1300		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1800		330	72	ug/Kg
50-32-8	Benzo(a)pyrene	1800		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1700		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		330	54	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	80.23	80 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	79.39	79 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	85.26	85 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	141757		6.36		
1146-65-2	Naphthalene-d8	571785		8.66		
15067-26-2	Acenaphthene-d10	278714		12.12		
1517-22-2	Phenanthrene-d10	422458		15.09		
1719-03-5	Chrysene-d12	385272		20.44		
1520-96-3	Perylene-d12	271169		23.61		

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1586

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25127BS	Naphthalene	1700	1400	82			34	120	
	Acenaphthene	1700	1400	82			65	100	
	Fluorene	1700	1400	82			47	117	
	Phenanthrene	1700	1400	82			20	150	
	Anthracene	1700	1400	82			54	108	
	Fluoranthene	1700	1400	82			55	105	
	Pyrene	1700	1400	82			20	150	
	Benzo(a)anthracene	1700	1400	82			60	100	
	Chrysene	1700	1400	82			51	115	
	Indeno(1,2,3-cd)pyrene	1700	1300	76			42	124	
	Benzo(b)fluoranthene	1700	1800	106			42	126	
	Benzo(k)fluoranthene	1700	1900	112			43	125	
	Benzo(a)pyrene	1700	1900	112		*	58	102	
	Dibenz(a,h)anthracene	1700	1800	106			41	130	
	Benzo(g,h,i)perylene	1700	1800	106			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y1586
Lab Sample ID:	PB25127BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036334.D	1	2/20/2007	2/20/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1400		330	56	ug/Kg
83-32-9	Acenaphthene	1400		330	59	ug/Kg
86-73-7	Fluorene	1400		330	56	ug/Kg
85-01-8	Phenanthrene	1400		330	53	ug/Kg
120-12-7	Anthracene	1400		330	50	ug/Kg
206-44-0	Fluoranthene	1400		330	49	ug/Kg
129-00-0	Pyrene	1400		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1400		330	46	ug/Kg
218-01-9	Chrysene	1400		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1900		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1900		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1800		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	78.13	78 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	75.34	75 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	78.93	79 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	136824	6.36			
1146-65-2	Naphthalene-d8	533274	8.67			
15067-26-2	Acenaphthene-d10	273102	12.11			
1517-22-2	Phenanthrene-d10	389972	15.09			
1719-03-5	Chrysene-d12	365527	20.43			
1520-96-3	Perylene-d12	255930	23.58			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01
 Lab Code: CHEM Case No.: Y1586 SAS No.: Y1586 SDG NO.: Y1586
 Lab File ID: BB036333.D Lab Sample ID: PB25127B
 Instrument ID: BNAB Date Extracted: 2/20/2007
 Matrix: (soil/water) SOIL Date Analyzed: 2/20/2007
 Level: (low/med) LOW Time Analyzed: 16:53

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25127BS	BB036334.D	2/20/2007
02	GFSB09-45-47	Y1586-06	BB036339.D	2/20/2007
03	GFSB07-50-52	Y1586-04	BB036340.D	2/20/2007
04	Y1622-04MS	Y1622-04MS	BB036341.D	2/20/2007
05	Y1622-05MSD	Y1622-05MSD	BB036342.D	2/20/2007
06	GFSB06-50-52	Y1586-02	BB036345.D	2/21/2007
07	GFSB08-40-42	Y1586-07	BB036346.D	2/21/2007
08	GFSB06-40-42	Y1586-01	BB036347.D	2/21/2007
09	GFSB09-25-27	Y1586-05	BB036348.D	2/21/2007
10	GFSB07-35-37	Y1586-03	BB036369.D	2/21/2007
11	GFSB08-45-47	Y1586-08	BB036370.D	2/21/2007
12	GFSB08-40-42DL	Y1586-07DL	BB036371.D	2/21/2007

COMMENTS :

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y1586
Lab Sample ID:	PB25127B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036333.D	1	2/20/2007	2/20/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.65	74 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	73.36	73 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.43	75 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137343	6.36			
1146-65-2	Naphthalene-d8	574258	8.66			
15067-26-2	Acenaphthene-d10	285395	12.11			
1517-22-2	Phenanthrene-d10	415463	15.08			
1719-03-5	Chrysene-d12	391239	20.41			
1520-96-3	Perylene-d12	271341	23.57			

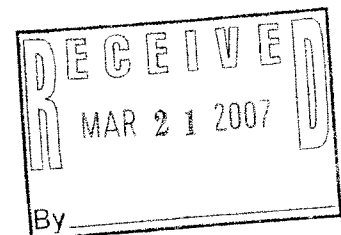
U = Not Detected
 RL = Reporting Limit
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y1781
Vincent Frisina**

**Summary Sheet
SW-846**

SDG No.: Y1781

Order ID: Y1781

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB15-15-17								
Y1781-03	GFSB15-15-17	SOIL	1,2,4-Trimethylbenzene	9.1	J	27	2.0	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Sec-butylbenzene	26	J	27	2.2	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	p-Isopropyltoluene	7.4	J	27	2.3	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	n-Butylbenzene	24	J	27	1.8	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Naphthalene	56		27	3.1	ug/Kg
			Total VOC's:	122.50				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	122.50				
Client ID: GFSB15-30-32								
Y1781-04	GFSB15-30-32	SOIL	Naphthalene	22	J	27	3.2	ug/Kg
			Total VOC's:	22.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	22.00				
Client ID: GFSB16-30-32								
Y1781-06	GFSB16-30-32	SOIL	Naphthalene	30		29	3.4	ug/Kg
			Total VOC's:	30.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	30.00				
Client ID: GFSB5-45-47								
Y1781-02	GFSB5-45-47	SOIL	Naphthalene	13	J	27	3.1	ug/Kg
			Total VOC's:	13.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	13.00				
Client ID: GFSB5-9-11								
Y1781-01	GFSB5-9-11	SOIL	1,3,5-Trimethylbenzene	9.4	J	26	2.6	ug/Kg
Y1781-01	GFSB5-9-11	SOIL	1,2,4-Trimethylbenzene	32		26	2.0	ug/Kg
Y1781-01	GFSB5-9-11	SOIL	p-Isopropyltoluene	7.5	J	26	2.2	ug/Kg
Y1781-01	GFSB5-9-11	SOIL	n-Butylbenzene	8.8	J	26	1.8	ug/Kg
Y1781-01	GFSB5-9-11	SOIL	Naphthalene	28		26	3.1	ug/Kg
			Total VOC's:	85.70				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	85.70				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Summary Sheet
SW-846

SDG No.: Y1781

Order ID: Y1781

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB5-9-11RE							
Y1781-01RE	GFSB5-9-11RE	SOIL	1,3,5-Trimethylbenzene	9.9	J	26	2.6	ug/Kg
Y1781-01RE	GFSB5-9-11RE	SOIL	1,2,4-Trimethylbenzene	33		26	2.0	ug/Kg
Y1781-01RE	GFSB5-9-11RE	SOIL	p-Isopropyltoluene	7.2	J	26	2.2	ug/Kg
Y1781-01RE	GFSB5-9-11RE	SOIL	n-Butylbenzene	9.1	J	26	1.8	ug/Kg
Y1781-01RE	GFSB5-9-11RE	SOIL	Naphthalene	25	J	26	3.1	ug/Kg
			Total VOC's:	84.20				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	84.20				

Hit Summary Report

SDG No.: Y1781

Order ID: Y1781

Client: Gannett Fleming Engineers, LLC

Project ID: LIRR Richmond Hill, Morris Park G

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB15-15-17							
Y1781-03	GFSB15-15-17	SOIL	Phenanthrene	350	J	350	56	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Anthracene	69	J	350	53	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Fluoranthene	69	J	350	52	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Pyrene	120	J	350	62	ug/Kg
Y1781-03	GFSB15-15-17	SOIL	Benzo(b)fluoranthene	45	J	350	39	ug/Kg
			Total SVOC's:	653.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	653.00				
Client ID:	GFSB15-15-17RE							
Y1781-03RE	GFSB15-15-17RE	SOIL	Acenaphthene	99	J	350	62	ug/Kg
Y1781-03RE	GFSB15-15-17RE	SOIL	Phenanthrene	350	J	350	56	ug/Kg
Y1781-03RE	GFSB15-15-17RE	SOIL	Anthracene	64	J	350	53	ug/Kg
Y1781-03RE	GFSB15-15-17RE	SOIL	Pyrene	200	J	350	62	ug/Kg
			Total SVOC's:	713.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	713.00				
Client ID:	GFSB5-9-11							
Y1781-01	GFSB5-9-11	SOIL	Phenanthrene	140	J	350	56	ug/Kg
Y1781-01	GFSB5-9-11	SOIL	Pyrene	63	J	350	63	ug/Kg
			Total SVOC's:	203.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	203.00				
Client ID:	GFSB5-9-11RE							
Y1781-01RE	GFSB5-9-11RE	SOIL	Phenanthrene	140	J	350	56	ug/Kg
Y1781-01RE	GFSB5-9-11RE	SOIL	Pyrene	94	J	350	63	ug/Kg
			Total SVOC's:	234.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	234.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.



284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1781
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

OrderID: Y1781 **ProjectID:** LIRR Richmond Hill, Morris
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y1781-01	GFSB5-9-11
Y1781-02	GFSB5-45-47
Y1781-03	GFSB15-15-17
Y1781-04	GFSB15-30-32
Y1781-05	GFSB16-9-11
Y1781-06	GFSB16-30-32
Y1781-07	EB-01
Y1781-08	TRIPBLANK
Y1781-09	GFSB16-9-11MS
Y1781-10	GFSB16-9-11MSD

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V Keys Name: Mildred V Keys
Date: 3/19/07 Title: QA/OC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: Y1781

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	
II. Table of Contents	<input checked="" type="checkbox"/>	
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	
IV. Methodology Summaries	<input checked="" type="checkbox"/>	
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Zh. Rohan
QA/QC Data Reviewer

03/16/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

TABLE OF CONTENTS
PROJECT NUMBER Y1781RQ

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	13
CONFORMANCE / NON-COFORMANCE SUMMARY	16
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	21
QUALITY CONTROL SUMMARY REPORTS	31
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	46
QUALITY CONTROL SUMMARY REPORTS	57
TOTAL NUMBER OF PAGES	70

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

CHAIN OF CUSTODY RECORD



CHALLENGE OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

Y1A81

COC Number 063403

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION																																							
REPORT TO BE SENT TO:		PROJECT NAME: L1RB		BILL TO: Gannett Fleming																																							
COM ANY: Gannett Fleming		PROJECT NO.: 45813		ADDRESS: 480 Forest Ave																																							
STATE: NY ZIP: 11S60		LOCATION: 92nd St.		CITY: Locust Valley																																							
STATE: NY ZIP: 11S60		PROJECT MANAGER: Vincent Frisinga		STATE: NY ZIP: 11S60																																							
ATTENTION: Vincent Frisinga		e-mail: Vfrisinga@gfnet.com		ATTENTION: V Frisinga																																							
PHONE: 516-671-8440		PHONE: 516-671-3349		PHONE: 516-671-8440																																							
FAX: 516-671-8440		FAX: 516-671-3349		FAX: 516-671-8440																																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																							
FAX: _____	RESULTS ONLY <input type="checkbox"/>	USEPA CLP <input type="checkbox"/>	<table border="1"> <tr><th colspan="2">PRESERVATIVES</th></tr> <tr><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th></tr> <tr><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> <tr><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr> </table>			PRESERVATIVES		1	2	3	4	5	6	7	8	9		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X
PRESERVATIVES																																											
1	2	3				4	5	6	7	8	9																																
	X	X				X	X	X	X	X	X																																
	X	X				X	X	X	X	X	X																																
	X	X	X	X	X	X	X	X																																			
HARD COPY: Standard	RESULTS + OC <input type="checkbox"/>	New York State ASP "B" <input type="checkbox"/>																																									
EDD: _____	New Jersey REDUCED <input type="checkbox"/>	New York State ASP "A" <input type="checkbox"/>																																									
* TO BE APPROVED BY CHEMTECH	New Jersey CLP <input type="checkbox"/>	Other _____ <input type="checkbox"/>																																									
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS	EDD FORMAT <input type="checkbox"/>																																										
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	# OF BOTTLES	COMMENTS																																				
1.	GFSB5-9-11	Soil	X	2-28-07	1040	2																																					
2.	GFSB5-45-47	Soil	X	2-28-07	1040	2																																					
3.	GFSB15-15-17	Soil	X	3-2-07	807	2																																					
4.	GFSB15-30-32	Soil	X	3-2-07	807	2																																					
5.	GFSB16-9-11	Soil	X	3-2-07	1045	2																																					
6.	GFSB16-30-32	Soil	X	3-2-07	1045	2																																					
7.	EB-01	Water	X	3-2-07	1103	3																																					
8.	Trip Blank	Water	X	3-2-07	1103	2																																					
9.	GFSB16-9-11MS	Soil	X	3-2-07	1045	2																																					
10.	GFSB16-9-11MSD	Soil	X	3-2-07	1045	2																																					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																																											
RECEIVED BY: [Signature]	DATE/TIME: 3-2-07 1500	RECEIVED BY: _____		DATE/TIME: _____		COOLER TEMP: 4°C																																					
RECEIVED BY: _____	DATE/TIME: _____	RECEIVED BY: _____		DATE/TIME: _____		ICE IN COOLER?: YES																																					
RECEIVED FOR LAB BY: F. J. D. - GA	DATE/TIME: 9:50 3/5/07	RECEIVED FOR LAB BY: [Signature]		DATE/TIME: _____		SHIPMENT COMPLETE: YES																																					

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

1 From Date 3/2/07 Sender's FedEx Account Number 011904450

Sender's Name Kimberly Simone Phone (516) 671-8440

Company Gannett Fleming

Address 480 Forest Ave. Dept./Floor/Suite/Room

City Locust Valley State NY ZIP 11560

2 Your Internal Billing Reference Information

3 To Recipient's Name Receiving Department Phone

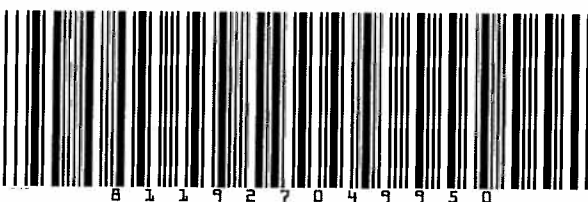
Company ChemTech

Address 284 Sheffield St. Mountainside Check here if residence (Extra charge applies for FedEx Express Service)

City Mountainside State NJ ZIP 07092

For HOLD at FedEx Location check here
1 Hold Weekday 31 Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight and FedEx 2Day only)

For WEEKEND Delivery check here (Extra charge for Saturday at all locations)
3 Saturday Delivery 33 NEW Sunday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only) (Priority Overnight only)



4 Express Package Service Packages under 150 lbs.
1 FedEx Priority Overnight (Next business morning)
5 X FedEx Standard Overnight (First business afternoon)
6 FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)
3 FedEx 2Day (Second business day)
20 FedEx Express Saver (Third business day)
FedEx Letter Rate not available. Minimum charge: One pound rate.

4B Express Freight Service Packages over 150 lbs.
7 FedEx Overnight Freight (Next business day)
8 FedEx 2Day Freight (Second business day)
9 FedEx Exp. (Third business day)
Call for delivery schedule. See back for detailed descriptions of freight.

5 Packaging
1 FedEx Letter
2 FedEx Pak
3 FedEx Box
4 FedEx Tube

6 Special Handling
Does this shipment contain dangerous goods? No Yes
Dry Ice (See back for details) CA Cargo

7 Payment
Bill to: 1 X Sender (Account No. or Reference No. will be billed)
2 Recipient
3 Third Party
4 Credit Card (Enter Postal Account No. or Credit Card No. on invoice)

FedEx Account No.
Credit Card No.
Total Packages 1 Total Weight

*When shipping a value higher than \$500 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

8 Release Signature

Your signature authorizes FedEx Express to deliver this shipment without obtaining a signature, and agrees to indemnify and hold FedEx Express harmless from any resulting claims.

3/5/07 9:50 SNEHAL 322

Joseph Carabillo

From: Ferngren, Jessica L. [jfern@GFNET.com]
Sent: Tuesday, March 06, 2007 2:08 PM
To: Joseph Carabillo
Subject: RE: Y1781-Gannett Fleming -LIRR Richmond Hill, Morris Park GF 045813.005

Hi Joseph,

As per our phone conversation, please make the following changes.

Client ID: GFSB16-9-11
 Qty. listed on COC = 2
 Qty. Lab received = 1 (One 4 Oz)

Client ID: GFSB16-30-32
 Qty. listed on COC = 1
 Qty. Lab received = 2 (One 8 Oz & One 4 Oz)

It is correct that GFSB16-9-11 was submitted with only one 4 oz jar and GFSB16-30-32 was submitted with 2 (One 8 Oz & One 4 Oz) jars. The chain of custody is incorrect. Additionally, as per our conversation, it was confirmed that both 8260 STARS and 8270 TARS can be run on GFSB-16-9-11.

As per our conversation, EB-01 can be analyzed for 8260 STARS and 8270 STARS even though one of the VOA vials was received broken. If an additional run for VOCs is required, please contact me so that we can collect another blank.

Thanks,
 Jessica Ferngren
 Gannett Fleming
 30 Forest Ave.
 Locust Valley, NY 11560
 Office: 516/671-8440
 Fax: 516/671-3349
 Mobile: 516/669-1504

From: Joseph Carabillo [mailto:JCarabillo@chemtech.net]
Sent: Tuesday, March 06, 2007 9:09 AM
To: Ferngren, Jessica L.
Subject: FW: Y1781-Gannett Fleming -LIRR Richmond Hill, Morris Park GF 045813.005

Jessica:

Good morning. The following issues have been noted with samples received 3/5/07 for this project. See below and attached. Kim Rasmussen had called but we did not get to speak yesterday. If possible, would you be able to clarify? If not, please provide me with the best # to reach Kim at. Thank you.

Joseph Carabillo
Project Manager

Direct Line: (908) 789-1545
Home: (908) 789 8900 x 109
Fax: (908) 789 8922
jcarabillo@chemtech.net

CHEMTECH

34 Sheffield Street
 Mountainside, NJ 07092
www.chemtech.net

From:
 Joseph
 Carabillo
Sent:
 Monday,
 March 05,
 2007
 12:12 PM
To:
 jvfrisina@
Subject:
 FW:

3/6/2007

Y1781-
Gannett
Fleming -
LIRR

Confidentially, Notice: The Information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

Richmond Hill, Morris Park GF 045813.005

Incident:

Please review the items below and confirm any changes or indicate otherwise. Please feel free to call me with any questions.

Subject: Y1781-Gannett Fleming -LIRR Richmond Hill, Morris Park GF 045813.005

Chain of Custody v/s Lab received

Client ID: GFSB16-9-11
Qty. listed on COC = 2
Qty. Lab received =1 (One 4 Oz)

Client ID: GFSB16-30-32
Qty. listed on COC = 1
Qty. Lab received =2(One 8 Oz & One 4 Oz)

Client ID: EB-01
Qty. listed on COC = 3
Qty. Lab received =3(1 voc vial received **broken**)

See attached Chain of Custody for reference.

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

- Value** If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J** Indicates an estimated value. This flag is used:
- (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
- B** Indicates the analyte was found in the blank as well as the sample report as "12 B".
- E** Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- D** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- P** This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
- N** This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y1781

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?
- All runlogs reviewed for manual integration requirements

1st Level QA Review Signature: Zh. Rohan Date: 03/16/07

2nd Level QA Review Signature: U. Idred V. Keys Date: 3/19/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**



Lab Chronicle

Order ID: Y1781
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 3/5/2007 11:19:04 AM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: I33

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y1781-01	GFSB5-9-11	SOIL	VOC-STARS	8260	02/28/07		03/05/07	03/05/07
Y1781-01RE	GFSB5-9-11RE	SOIL	VOC-STARS	8260	02/28/07		03/05/07	03/05/07
Y1781-02	GFSB5-45-47	SOIL	VOC-STARS	8260	02/28/07		03/05/07	03/05/07
Y1781-03	GFSB15-15-17	SOIL	VOC-STARS	8260	03/01/07		03/05/07	03/05/07
Y1781-04	GFSB15-30-32	SOIL	VOC-STARS	8260	03/01/07		03/05/07	03/05/07
Y1781-05	GFSB16-9-11	SOIL	VOC-STARS	8260	03/02/07		03/05/07	03/05/07
Y1781-06	GFSB16-30-32	SOIL	VOC-STARS	8260	03/02/07		03/05/07	03/05/07
Y1781-07	EB-01	WATER	VOC-STARS	8260	03/02/07		03/05/07	03/05/07
Y1781-08	TRIPBLANK	WATER	VOC-STARS	8260	03/02/07		03/08/07	03/05/07



Lab Chronicle

Order ID: Y1781
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina

Order Date: 3/5/2007 11:19:04 AM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: I33

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1781-01	GFSB5-9-11	SOIL	<u>SVOC-STARS</u>	8270	02/28/07	03/07/07	03/07/07	03/05/07
Y1781-01RE	GFSB5-9-11RE	SOIL	<u>SVOC-STARS</u>	8270	02/28/07	03/07/07	03/09/07	03/05/07
Y1781-02	GFSB5-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/28/07	03/07/07	03/07/07	03/05/07
Y1781-03	GFSB15-15-17	SOIL	<u>SVOC-STARS</u>	8270	03/01/07	03/07/07	03/07/07	03/05/07
Y1781-03RE	GFSB15-15-17RE	SOIL	<u>SVOC-STARS</u>	8270	03/01/07	03/07/07	03/09/07	03/05/07
Y1781-04	GFSB15-30-32	SOIL	<u>SVOC-STARS</u>	8270	03/01/07	03/07/07	03/07/07	03/05/07
Y1781-04RE	GFSB15-30-32RE	SOIL	<u>SVOC-STARS</u>	8270	03/01/07	03/07/07	03/09/07	03/05/07
Y1781-05	GFSB16-9-11	SOIL	<u>SVOC-STARS</u>	8270	03/02/07	03/07/07	03/07/07	03/05/07
Y1781-05RE	GFSB16-9-11RE	SOIL	<u>SVOC-STARS</u>	8270	03/02/07	03/07/07	03/09/07	03/05/07
Y1781-07	EB-01	WATER	<u>SVOC-STARS</u>	8270	03/02/07	03/06/07	03/07/07	03/05/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1781

MATRIX: WATER

METHOD: 8260

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8260 and CLP.			✓
b. System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:	✓
7. Surrogate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for GFSB5-9-11 and GFSB5-9-11RE.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohan
QA REVIEW

03/19/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1781

MATRIX: Water

METHOD: 8270

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8270 and CLP.			✓
b. System Performance Check Compounds for 8270 and CLP			✓

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:	✓
7. Surrogate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for GFSB5-9-11RE, GFSB15-15-17RE, GFSB15-30-32RE and GFSB16-9-11RE.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓	
Comments: The Internal Standards Areas met the acceptable requirements except for GFSB15-30-32, GFSB15-15-17, GFSB16-9-11, GFSB5-9-11, GFSB15-30-32RE, GFSB15-15-17RE, GFSB5-9-11RE and GFSB16-9-11RE.			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Sample # 05 was loaded dilution as first run due to bad matrix.

The Blank Spike met requirements for all samples except for Acenaphthene and Benzo(a)anthracene.

Eh. Rohani
QA REVIEW

03/19/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-9-11	SDG No.:	Y1781
Lab Sample ID:	Y1781-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	7
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014968.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	9.4	J	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	32		26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	7.5	J	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	8.8	J	26	1.8	ug/Kg
91-20-3	Naphthalene	28		26	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.03	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	26.21	52 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	45.65	91 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	43.23	86 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	392382	3.44			
540-36-3	1,4-Difluorobenzene	632087	3.85			
3114-55-4	Chlorobenzene-d5	620252	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	342007	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-9-11RE	SDG No.:	Y1781
Lab Sample ID:	Y1781-01RE	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	7
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014999.D	1	3/6/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	9.9	J	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	33		26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	7.2	J	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	9.1	J	26	1.8	ug/Kg
91-20-3	Naphthalene	25	J	26	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.44	97 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	27.86	56 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.42	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.85	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	414792	3.42			
540-36-3	1,4-Difluorobenzene	679423	3.83			
3114-55-4	Chlorobenzene-d5	668333	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	365489	8.90			

U = Not Detected
 RL = Reporting Limit
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-45-47	SDG No.:	Y1781
Lab Sample ID:	Y1781-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014969.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	27	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	13	J	27	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.83	94 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.84	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.6	95 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.41	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	381149	3.44			
540-36-3	1,4-Difluorobenzene	621965	3.85			
3114-55-4	Chlorobenzene-d5	610611	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	332266	8.90			

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 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-15-17	SDG No.:	Y1781
Lab Sample ID:	Y1781-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014970.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	27	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	9.1	J	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	26	J	27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	7.4	J	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	24	J	27	1.8	ug/Kg
91-20-3	Naphthalene	56		27	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.48	97 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.84	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.12	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	50.13	100 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	374051	3.45			
540-36-3	1,4-Difluorobenzene	615652	3.84			
3114-55-4	Chlorobenzene-d5	610209	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	344544	8.91			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-30-32	SDG No.:	Y1781
Lab Sample ID:	Y1781-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	9
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014971.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	22	J	27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.62	89 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.56	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.67	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.52	93 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	406056	3.44			
540-36-3	1,4-Difluorobenzene	648285	3.84			
3114-55-4	Chlorobenzene-d5	633806	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	363738	8.91			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB16-9-11	SDG No.:	Y1781
Lab Sample ID:	Y1781-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	11
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014965.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.1	U	28	2.1	ug/Kg
71-43-2	Benzene	2.2	U	28	2.2	ug/Kg
108-88-3	Toluene	2.3	U	28	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	28	2.0	ug/Kg
126777-61-2	m/p-Xylenes	4.9	U	28	4.9	ug/Kg
95-47-6	o-Xylene	2.2	U	28	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	28	2.3	ug/Kg
103-65-1	N-propylbenzene	3.0	U	28	3.0	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.8	U	28	2.8	ug/Kg
98-06-6	tert-Butylbenzene	4.0	U	28	4.0	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	28	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	28	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.4	U	28	2.4	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	28	1.9	ug/Kg
91-20-3	Naphthalene	3.3	U	28	3.3	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.55	97 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	49.81	100 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	48.51	97 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	45.23	90 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	359687	3.45
540-36-3	1,4-Difluorobenzene	588563	3.85
3114-55-4	Chlorobenzene-d5	580533	6.61
3855-82-1	1,4-Dichlorobenzene-d4	302393	8.91

U = Not Detected

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E = Value Exceeds Calibration Range

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB16-30-32	SDG No.:	Y1781
Lab Sample ID:	Y1781-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	15
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014972.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.1	U	29	2.1	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.3	U	29	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	29	2.0	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.8	U	29	2.8	ug/Kg
98-06-6	tert-Butylbenzene	4.1	U	29	4.1	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	29	2.5	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	29	1.9	ug/Kg
91-20-3	Naphthalene	30		29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.41	97 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.28	103 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.44	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	43.85	88 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	368633	3.44			
540-36-3	1,4-Difluorobenzene	607034	3.84			
3114-55-4	Chlorobenzene-d5	594205	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	277270	8.91			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	EB-01	SDG No.:	Y1781
Lab Sample ID:	Y1781-07	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009295.D	1	3/8/2007	VD030107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.17	86 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	49.26	99 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	54.39	109 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	50.41	101 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	663052	4.22			
540-36-3	1,4-Difluorobenzene	945346	4.90			
3114-55-4	Chlorobenzene-d5	1225698	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	782820	11.68			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	TRIPBLANK	SDG No.:	Y1781
Lab Sample ID:	Y1781-08	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009294.D	1	3/8/2007	VD030107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.29	85 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.9	98 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	54.05	108 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.28	103 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	685237	4.23			
540-36-3	1,4-Difluorobenzene	953393	4.91			
3114-55-4	Chlorobenzene-d5	1226414	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	790312	11.67			

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CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSD0308W1	VLCS01	1,2-Dichloroethane-d4	50	44.65	89		72.00	119.00
		Dibromofluoromethane	50	52.68	105		85.00	115.00
		Toluene-d8	50	51.15	102		81.00	120.00
		4-Bromofluorobenzene	50	53.78	108		76.00	119.00
BSD0308W2	VLCS02	1,2-Dichloroethane-d4	50	42.52	85		72.00	119.00
		Dibromofluoromethane	50	52.16	104		85.00	115.00
		Toluene-d8	50	54.6	109		81.00	120.00
		4-Bromofluorobenzene	50	53.04	106		76.00	119.00
BSK0305S1	VLCS03	1,2-Dichloroethane-d4	50	43.66	87		75.00	125.00
		Dibromofluoromethane	50	49.6	99		75.00	125.00
		Toluene-d8	50	49.17	98		75.00	125.00
		4-Bromofluorobenzene	50	47.34	95		75.00	125.00
BSK0306S1	VLCS04	1,2-Dichloroethane-d4	50	49.05	98		75.00	125.00
		Dibromofluoromethane	50	50.53	101		75.00	125.00
		Toluene-d8	50	49.39	99		75.00	125.00
		4-Bromofluorobenzene	50	48.9	98		75.00	125.00
VBD0308W1	VBLK01	1,2-Dichloroethane-d4	50	41.06	82		72.00	119.00
		Dibromofluoromethane	50	48.7	97		85.00	115.00
		Toluene-d8	50	50.11	100		81.00	120.00
		4-Bromofluorobenzene	50	48.61	97		76.00	119.00
VBK0305S1	VBLK02	1,2-Dichloroethane-d4	50	42.09	84		75.00	125.00
		Dibromofluoromethane	50	48.77	98		75.00	125.00
		Toluene-d8	50	48.92	98		75.00	125.00
		4-Bromofluorobenzene	50	46.54	93		75.00	125.00
VBK0306S1	VBLK03	1,2-Dichloroethane-d4	50	49.99	100		75.00	125.00
		Dibromofluoromethane	50	51.93	104		75.00	125.00
		Toluene-d8	50	50.55	101		75.00	125.00
		4-Bromofluorobenzene	50	48.13	96		75.00	125.00
Y1781-01	GFSB5-9-11	1,2-Dichloroethane-d4	50	44.03	88		75.00	125.00
		Dibromofluoromethane	50	26.21	52	*	75.00	125.00
		Toluene-d8	50	45.65	91		75.00	125.00
		4-Bromofluorobenzene	50	43.23	86		75.00	125.00
Y1781-01RE	GFSB5-9-11RE	1,2-Dichloroethane-d4	50	48.44	97		75.00	125.00
		Dibromofluoromethane	50	27.86	56	*	75.00	125.00
		Toluene-d8	50	49.42	99		75.00	125.00
		4-Bromofluorobenzene	50	45.85	92		75.00	125.00
Y1781-02	GFSB5-45-47	1,2-Dichloroethane-d4	50	46.83	94		75.00	125.00
		Dibromofluoromethane	50	48.84	98		75.00	125.00
		Toluene-d8	50	47.6	95		75.00	125.00
		4-Bromofluorobenzene	50	45.41	91		75.00	125.00
Y1781-03	GFSB15-15-17	1,2-Dichloroethane-d4	50	48.48	97		75.00	125.00

Surrogate Summary
SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y1781-03	GFSB15-15-17	Dibromofluoromethane	50	50.84	102		75.00	125.00
		Toluene-d8	50	49.12	98		75.00	125.00
		4-Bromofluorobenzene	50	50.13	100		75.00	125.00
Y1781-04	GFSB15-30-32	1,2-Dichloroethane-d4	50	44.62	89		75.00	125.00
		Dibromofluoromethane	50	49.56	99		75.00	125.00
		Toluene-d8	50	48.67	97		75.00	125.00
		4-Bromofluorobenzene	50	46.52	93		75.00	125.00
Y1781-05	GFSB16-9-11	1,2-Dichloroethane-d4	50	48.55	97		75.00	125.00
		Dibromofluoromethane	50	49.81	100		75.00	125.00
		Toluene-d8	50	48.51	97		75.00	125.00
		4-Bromofluorobenzene	50	45.23	90		75.00	125.00
Y1781-06	GFSB16-30-32	1,2-Dichloroethane-d4	50	48.41	97		75.00	125.00
		Dibromofluoromethane	50	51.28	103		75.00	125.00
		Toluene-d8	50	48.44	97		75.00	125.00
		4-Bromofluorobenzene	50	43.85	88		75.00	125.00
Y1781-07	EB-01	1,2-Dichloroethane-d4	50	43.17	86		72.00	119.00
		Dibromofluoromethane	50	49.26	99		85.00	115.00
		Toluene-d8	50	54.39	109		81.00	120.00
		4-Bromofluorobenzene	50	50.41	101		76.00	119.00
Y1781-08	TRIPBLANK	1,2-Dichloroethane-d4	50	42.29	85		72.00	119.00
		Dibromofluoromethane	50	48.9	98		85.00	115.00
		Toluene-d8	50	54.05	108		81.00	120.00
		4-Bromofluorobenzene	50	51.28	103		76.00	119.00
Y1781-09MS	GFSB16-9-11MS	1,2-Dichloroethane-d4	50	53.46	107		75.00	125.00
		Dibromofluoromethane	50	49.99	100		75.00	125.00
		Toluene-d8	50	49.51	99		75.00	125.00
		4-Bromofluorobenzene	50	44.39	89		75.00	125.00
Y1781-10MSD	GFSB16-9-11MSD	1,2-Dichloroethane-d4	50	55.92	112		75.00	125.00
		Dibromofluoromethane	50	49.79	100		75.00	125.00
		Toluene-d8	50	48.17	96		75.00	125.00
		4-Bromofluorobenzene	50	44.66	89		75.00	125.00

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSD0308W1	Methyl tert-butyl Ether	20	18	90			70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	23	115			70	130	
	Ethyl Benzene	20	19	95			70	130	
	m/p-Xylenes	40	41	103			70	130	
	o-Xylene	20	20	100			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	19	95			70	130	
	1,2,4-Trimethylbenzene	20	19	95			70	130	
	Sec-butylbenzene	20	19	95			70	130	
	p-Isopropyltoluene	20	19	95			70	130	
	n-Butylbenzene	20	19	95			70	130	
	Naphthalene	20	20	100			70	130	
	BSD0308W2	Methyl tert-butyl Ether	20	16	80			70	130
Benzene		20	18	90			70	130	
Toluene		20	23	115			70	130	
Ethyl Benzene		20	20	100			70	130	
m/p-Xylenes		40	41	103			70	130	
o-Xylene		20	20	100			70	130	
Isopropylbenzene		20	18	90			70	130	
N-propylbenzene		20	19	95			70	130	
1,3,5-Trimethylbenzene		20	17	85			70	130	
tert-Butylbenzene		20	18	90			70	130	
1,2,4-Trimethylbenzene		20	17	85			70	130	
Sec-butylbenzene		20	18	90			70	130	
p-Isopropyltoluene		20	18	90			70	130	
n-Butylbenzene		20	17	85			70	130	
Naphthalene		20	19	95			70	130	
BSK0305S1		Methyl tert-butyl Ether	20	19	95			70	130
	Benzene	20	20	100			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	20	100			70	130	
	m/p-Xylenes	40	39	98			70	130	
	o-Xylene	20	20	100			70	130	
	Isopropylbenzene	20	19	95			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	19	95			70	130	
	1,2,4-Trimethylbenzene	20	19	95			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0305S1	Sec-butylbenzene	20	19	95			70	130	
	p-Isopropyltoluene	20	19	95			70	130	
	n-Butylbenzene	20	20	100			70	130	
	Naphthalene	20	23	115			70	130	
BSK0306S1	Methyl tert-butyl Ether	20	19	95			70	130	
	Benzene	20	18	90			70	130	
	Toluene	20	17	85			70	130	
	Ethyl Benzene	20	18	90			70	130	
	m/p-Xylenes	40	35	88			70	130	
	o-Xylene	20	18	90			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	18	90			70	130	
	1,3,5-Trimethylbenzene	20	18	90			70	130	
	tert-Butylbenzene	20	18	90			70	130	
	1,2,4-Trimethylbenzene	20	18	90			70	130	
	Sec-butylbenzene	20	18	90			70	130	
	p-Isopropyltoluene	20	18	90			70	130	
	n-Butylbenzene	20	18	90			70	130	
	Naphthalene	20	19	95			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1781
Lab Sample ID:	BSD0308W1	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009288.D	1	3/8/2007	VD030107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	18		5.0	0.28	ug/L
71-43-2	Benzene	20		5.0	0.39	ug/L
108-88-3	Toluene	23		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	19		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	41		5.0	1.2	ug/L
95-47-6	o-Xylene	20		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	19		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	19		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	19		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	19		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	19		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	19		5.0	0.49	ug/L
91-20-3	Naphthalene	20		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	44.65	89 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	52.68	105 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	51.15	102 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	53.78	108 %	76 - 119		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	740928	4.22			
540-36-3	1,4-Difluorobenzene	1048653	4.89			
3114-55-4	Chlorobenzene-d5	1385700	9.28			
3855-82-1	1,4-Dichlorobenzene-d4	939247	11.66			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y1781
Lab Sample ID:	BSD0308W2	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009289.D	1	3/8/2007	VD030107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	16		5.0	0.28	ug/L
71-43-2	Benzene	18		5.0	0.39	ug/L
108-88-3	Toluene	23		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	20		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	41		5.0	1.2	ug/L
95-47-6	o-Xylene	20		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	19		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	17		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	18		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	17		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	18		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	18		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	17		5.0	0.49	ug/L
91-20-3	Naphthalene	19		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	42.52	85 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	52.16	104 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	54.6	109 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	53.04	106 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	785746	4.22
540-36-3	1,4-Difluorobenzene	1062154	4.90
3114-55-4	Chlorobenzene-d5	1395731	9.28
3855-82-1	1,4-Dichlorobenzene-d4	982488	11.67

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS03	SDG No.:	Y1781
Lab Sample ID:	BSK0305S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014955.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	19		5.0	0.37	ug/Kg
71-43-2	Benzene	20		5.0	0.40	ug/Kg
108-88-3	Toluene	19		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	20		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	39		5.0	0.86	ug/Kg
95-47-6	o-Xylene	20		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	19		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	19		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	19		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	19		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	19		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	20		5.0	0.34	ug/Kg
91-20-3	Naphthalene	23		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.66	87 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.6	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.17	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.34	95 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	438990	3.44			
540-36-3	1,4-Difluorobenzene	669674	3.85			
3114-55-4	Chlorobenzene-d5	670339	6.62			
3855-82-1	1,4-Dichlorobenzene-d4	404510	8.91			

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS04	SDG No.:	Y1781
Lab Sample ID:	BSK0306S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014985.D	1	3/6/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	19		5.0	0.37	ug/Kg
71-43-2	Benzene	18		5.0	0.40	ug/Kg
108-88-3	Toluene	17		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	18		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	35		5.0	0.86	ug/Kg
95-47-6	o-Xylene	18		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	18		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	18		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	18		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	18		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	18		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	18		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	18		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	18		5.0	0.34	ug/Kg
91-20-3	Naphthalene	19		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.05	98 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.53	101 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.39	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.9	98 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	423820	3.43			
540-36-3	1,4-Difluorobenzene	688694	3.83			
3114-55-4	Chlorobenzene-d5	702097	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	410688	8.89			

U = Not Detected

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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chentech Contract: GANN01
 Lab Code: CTECH Case No.: Y1781 SAS No.: Y1781 SDG NO.: Y1781
 Lab File ID: VD009287.D Lab Sample ID: VBD0308W1
 Date Analyzed: 3/8/2007 Time Analyzed: 11:05
 GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSD0308W1	VD009288.D	11:42
VLCS02	BSD0308W2	VD009289.D	12:13
TRIPBLANK	Y1781-08	VD009294.D	14:51
EB-01	Y1781-07	VD009295.D	15:22

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1781
Lab Sample ID:	VBD0308W1	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009287.D	1	3/8/2007	VD030107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.06	82 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.7	97 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	50.11	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	48.61	97 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	819467	4.21			
540-36-3	1,4-Difluorobenzene	1127135	4.89			
3114-55-4	Chlorobenzene-d5	1425135	9.28			
3855-82-1	1,4-Dichlorobenzene-d4	906220	11.66			

U = Not Detected

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: GANN01

Lab Code: CTECH Case No.: Y1781 SAS No.: Y1781 SDG NO.: Y1781

Lab File ID: VK014954.D Lab Sample ID: VBK0305S1

Date Analyzed: 3/5/2007 Time Analyzed: 11:06

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS03	BSK0305S1	VK014955.D	11:38
GFSB16-9-11	Y1781-05	VK014965.D	16:00
GFSB16-9-11MS	Y1781-09MS	VK014966.D	16:26
GFSB16-9-11MSD	Y1781-10MSD	VK014967.D	16:53
GFSB5-9-11	Y1781-01	VK014968.D	17:19
GFSB5-45-47	Y1781-02	VK014969.D	17:45
GFSB15-15-17	Y1781-03	VK014970.D	18:11
GFSB15-30-32	Y1781-04	VK014971.D	18:37
GFSB16-30-32	Y1781-06	VK014972.D	19:04

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y1781
Lab Sample ID:	VBK0305S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014954.D	1	3/5/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.09	84 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.77	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.92	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.54	93 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	417160	3.45			
540-36-3	1,4-Difluorobenzene	654769	3.85			
3114-55-4	Chlorobenzene-d5	651649	6.62			
3855-82-1	1,4-Dichlorobenzene-d4	366005	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech

Contract: GANN01

Lab Code: CTECH Case No.: Y1781

SAS No.: Y1781 SDG NO.: Y1781

Lab File ID: VK014984.D

Lab Sample ID: VBK0306S1

Date Analyzed: 3/6/2007

Time Analyzed: 11:34

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS04	BSK0306S1	VK014985.D	12:00
GFSB5-9-11RE	Y1781-01RE	VK014999.D	18:08

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK03	SDG No.:	Y1781
Lab Sample ID:	VBK0306S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014984.D	1	3/6/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.99	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.93	104 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.55	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.13	96 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	414195	3.43			
540-36-3	1,4-Difluorobenzene	682717	3.84			
3114-55-4	Chlorobenzene-d5	683908	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	368029	8.89			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-9-11	SDG No.:	Y1781
Lab Sample ID:	Y1781-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	7
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039224.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	63	U	350	63	ug/Kg
86-73-7	Fluorene	60	U	350	60	ug/Kg
85-01-8	Phenanthrene	140	J	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	53	U	350	53	ug/Kg
129-00-0	Pyrene	63	J	350	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	350	50	ug/Kg
218-01-9	Chrysene	64	U	350	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	78	U	350	78	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	350	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	350	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.03	66 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	75	75 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	123.03	123 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57764	3.63			
1146-65-2	Naphthalene-d8	218583	4.61			
15067-26-2	Acenaphthene-d10	121811	6.03			
1517-22-2	Phenanthrene-d10	190658	7.24			
1719-03-5	Chrysene-d12	114368	9.42			
1520-96-3	Perylene-d12	35376	10.73			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-9-11RE	SDG No.:	Y1781
Lab Sample ID:	Y1781-01RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	7
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039267.D	1	3/7/2007	3/9/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	63	U	350	63	ug/Kg
86-73-7	Fluorene	60	U	350	60	ug/Kg
85-01-8	Phenanthrene	140	J	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	53	U	350	53	ug/Kg
129-00-0	Pyrene	94	J	350	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	350	50	ug/Kg
218-01-9	Chrysene	64	U	350	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	78	U	350	78	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	350	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	350	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.67	65 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	79.35	79 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	182.57	183 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	52724	3.62			
1146-65-2	Naphthalene-d8	200006	4.60			
15067-26-2	Acenaphthene-d10	104621	6.01			
1517-22-2	Phenanthrene-d10	133431	7.23			
1719-03-5	Chrysene-d12	32045	9.40			
1520-96-3	Perylene-d12	12753	10.70			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-45-47	SDG No.:	Y1781
Lab Sample ID:	Y1781-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039216.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	61	U	360	61	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	60	U	360	60	ug/Kg
85-01-8	Phenanthrene	57	U	360	57	ug/Kg
120-12-7	Anthracene	54	U	360	54	ug/Kg
206-44-0	Fluoranthene	53	U	360	53	ug/Kg
129-00-0	Pyrene	63	U	360	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	64	U	360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	79	U	360	79	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.69	70 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	76.35	76 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	89.09	89 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56073	3.63			
1146-65-2	Naphthalene-d8	204650	4.61			
15067-26-2	Acenaphthene-d10	116237	6.02			
1517-22-2	Phenanthrene-d10	187281	7.24			
1719-03-5	Chrysene-d12	160866	9.41			
1520-96-3	Perylene-d12	104796	10.72			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-15-17	SDG No.:	Y1781
Lab Sample ID:	Y1781-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039223.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	350	J	350	56	ug/Kg
120-12-7	Anthracene	69	J	350	53	ug/Kg
206-44-0	Fluoranthene	69	J	350	52	ug/Kg
129-00-0	Pyrene	120	J	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	45	J	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.29	64 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	62.58	63 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	115.13	115 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	55083	3.63			
1146-65-2	Naphthalene-d8	219255	4.61			
15067-26-2	Acenaphthene-d10	156022	6.05			
1517-22-2	Phenanthrene-d10	222711	7.27			
1719-03-5	Chrysene-d12	130758	9.42			
1520-96-3	Perylene-d12	42229	10.72			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-15-17RE	SDG No.:	Y1781
Lab Sample ID:	Y1781-03RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039266.D	1	3/7/2007	3/9/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	99	J	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	350	J	350	56	ug/Kg
120-12-7	Anthracene	64	J	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	200	J	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.21	64 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	64.7	65 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	188.48	188 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54493	3.62			
1146-65-2	Naphthalene-d8	211053	4.60			
15067-26-2	Acenaphthene-d10	144900	6.03			
1517-22-2	Phenanthrene-d10	164126	7.25			
1719-03-5	Chrysene-d12	34287	9.40			
1520-96-3	Perylene-d12	13276	10.70			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-30-32	SDG No.:	Y1781
Lab Sample ID:	Y1781-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039222.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	61	U	360	61	ug/Kg
85-01-8	Phenanthrene	57	U	360	57	ug/Kg
120-12-7	Anthracene	54	U	360	54	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	64	U	360	64	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	65	U	360	65	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	79	U	360	79	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.39	69 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	76.19	76 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	97.08	97 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56462	3.63			
1146-65-2	Naphthalene-d8	206630	4.61			
15067-26-2	Acenaphthene-d10	115957	6.03			
1517-22-2	Phenanthrene-d10	182014	7.24			
1719-03-5	Chrysene-d12	149849	9.41			
1520-96-3	Perylene-d12	61511	10.72			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/1/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB15-30-32RE	SDG No.:	Y1781
Lab Sample ID:	Y1781-04RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039265.D	1	3/7/2007	3/9/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	61	U	360	61	ug/Kg
85-01-8	Phenanthrene	57	U	360	57	ug/Kg
120-12-7	Anthracene	54	U	360	54	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	64	U	360	64	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	65	U	360	65	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	79	U	360	79	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.61	70 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	78	78 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	175.57	176 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	53066	3.62			
1146-65-2	Naphthalene-d8	189393	4.60			
15067-26-2	Acenaphthene-d10	102951	6.01			
1517-22-2	Phenanthrene-d10	136791	7.23			
1719-03-5	Chrysene-d12	35973	9.40			
1520-96-3	Perylene-d12	13840	10.70			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB16-9-11	SDG No.:	Y1781
Lab Sample ID:	Y1781-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	11
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039225.D	20	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300	U	7400	1300	ug/Kg
83-32-9	Acenaphthene	1300	U	7400	1300	ug/Kg
86-73-7	Fluorene	1300	U	7400	1300	ug/Kg
85-01-8	Phenanthrene	1200	U	7400	1200	ug/Kg
120-12-7	Anthracene	1100	U	7400	1100	ug/Kg
206-44-0	Fluoranthene	1100	U	7400	1100	ug/Kg
129-00-0	Pyrene	1300	U	7400	1300	ug/Kg
56-55-3	Benzo(a)anthracene	1000	U	7400	1000	ug/Kg
218-01-9	Chrysene	1300	U	7400	1300	ug/Kg
205-99-2	Benzo(b)fluoranthene	820	U	7400	820	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600	U	7400	1600	ug/Kg
50-32-8	Benzo(a)pyrene	1200	U	7400	1200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	940	U	7400	940	ug/Kg
53-70-3	Dibenz(a,h)anthracene	930	U	7400	930	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200	U	7400	1200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	57.8	58 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	60.8	61 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	108.2	108 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56546	3.63			
1146-65-2	Naphthalene-d8	206077	4.61			
15067-26-2	Acenaphthene-d10	118550	6.02			
1517-22-2	Phenanthrene-d10	183418	7.24			
1719-03-5	Chrysene-d12	90542	9.41			
1520-96-3	Perylene-d12	25708	10.72			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB16-9-11RE	SDG No.:	Y1781
Lab Sample ID:	Y1781-05RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	11
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039268.D	20	3/7/2007	3/9/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300	U	7400	1300	ug/Kg
83-32-9	Acenaphthene	1300	U	7400	1300	ug/Kg
86-73-7	Fluorene	1300	U	7400	1300	ug/Kg
85-01-8	Phenanthrene	1200	U	7400	1200	ug/Kg
120-12-7	Anthracene	1100	U	7400	1100	ug/Kg
206-44-0	Fluoranthene	1100	U	7400	1100	ug/Kg
129-00-0	Pyrene	1300	U	7400	1300	ug/Kg
56-55-3	Benzo(a)anthracene	1000	U	7400	1000	ug/Kg
218-01-9	Chrysene	1300	U	7400	1300	ug/Kg
205-99-2	Benzo(b)fluoranthene	820	U	7400	820	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600	U	7400	1600	ug/Kg
50-32-8	Benzo(a)pyrene	1200	U	7400	1200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	940	U	7400	940	ug/Kg
53-70-3	Dibenz(a,h)anthracene	930	U	7400	930	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200	U	7400	1200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	51.4	51 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	60.4	60 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	143.8	144 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	48743	3.62			
1146-65-2	Naphthalene-d8	183019	4.60			
15067-26-2	Acenaphthene-d10	101689	6.01			
1517-22-2	Phenanthrene-d10	123973	7.23			
1719-03-5	Chrysene-d12	26502	9.40			
1520-96-3	Perylene-d12	13043	10.70			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	EB-01	SDG No.:	Y1781
Lab Sample ID:	Y1781-07	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	980.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039208.D	1	3/6/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.760	U	10	0.760	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.840	U	10	0.840	ug/L
53-70-3	Dibenz(a,h)anthracene	0.880	U	10	0.880	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	56.25	56 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	59.07	59 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.99	72 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76619	3.63			
1146-65-2	Naphthalene-d8	289705	4.61			
15067-26-2	Acenaphthene-d10	170480	6.03			
1517-22-2	Phenanthrene-d10	272002	7.25			
1719-03-5	Chrysene-d12	240923	9.42			
1520-96-3	Perylene-d12	141188	10.74			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

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N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25378B	SBLK01	Nitrobenzene-d5	100	70.3	70		35.00	114.00
		2-Fluorobiphenyl	100	75.35	75		43.00	116.00
		Terphenyl-d14	100	85.92	86		33.00	141.00
PB25378BS	SLCS01	Nitrobenzene-d5	100	61.5	62		35.00	114.00
		2-Fluorobiphenyl	100	66.93	67		43.00	116.00
		Terphenyl-d14	100	65.51	66		33.00	141.00
PB25392B	SBLK02	Nitrobenzene-d5	100	72.66	73		23.00	120.00
		2-Fluorobiphenyl	100	78.5	79		30.00	116.00
		Terphenyl-d14	100	91.46	91		18.00	137.00
PB25392BS	SLCS02	Nitrobenzene-d5	100	53.48	53		23.00	120.00
		2-Fluorobiphenyl	100	57.58	58		30.00	116.00
		Terphenyl-d14	100	56.32	56		18.00	137.00
Y1781-01	GFSB5-9-11	Nitrobenzene-d5	100	66.03	66		23.00	120.00
		2-Fluorobiphenyl	100	75	75		30.00	116.00
		Terphenyl-d14	100	123.03	123		18.00	137.00
Y1781-01RE	GFSB5-9-11RE	Nitrobenzene-d5	100	64.67	65		23.00	120.00
		2-Fluorobiphenyl	100	79.35	79		30.00	116.00
		Terphenyl-d14	100	182.57	183	*	18.00	137.00
Y1781-02	GFSB5-45-47	Nitrobenzene-d5	100	69.69	70		23.00	120.00
		2-Fluorobiphenyl	100	76.35	76		30.00	116.00
		Terphenyl-d14	100	89.09	89		18.00	137.00
Y1781-02MS	GFSB5-45-47MS	Nitrobenzene-d5	100	67.93	68		23.00	120.00
		2-Fluorobiphenyl	100	74.92	75		30.00	116.00
		Terphenyl-d14	100	77.41	77		18.00	137.00
Y1781-02MSD	GFSB5-45-47MSD	Nitrobenzene-d5	100	71.16	71		23.00	120.00
		2-Fluorobiphenyl	100	78.4	78		30.00	116.00
		Terphenyl-d14	100	77.67	78		18.00	137.00
Y1781-03	GFSB15-15-17	Nitrobenzene-d5	100	64.29	64		23.00	120.00
		2-Fluorobiphenyl	100	62.58	63		30.00	116.00
		Terphenyl-d14	100	115.13	115		18.00	137.00
Y1781-03RE	GFSB15-15-17RE	Nitrobenzene-d5	100	64.21	64		23.00	120.00
		2-Fluorobiphenyl	100	64.7	65		30.00	116.00
		Terphenyl-d14	100	188.48	188	*	18.00	137.00
Y1781-04	GFSB15-30-32	Nitrobenzene-d5	100	69.39	69		23.00	120.00
		2-Fluorobiphenyl	100	76.19	76		30.00	116.00
		Terphenyl-d14	100	97.08	97		18.00	137.00
Y1781-04RE	GFSB15-30-32RE	Nitrobenzene-d5	100	69.61	70		23.00	120.00
		2-Fluorobiphenyl	100	78	78		30.00	116.00
		Terphenyl-d14	100	175.57	176	*	18.00	137.00
Y1781-05	GFSB16-9-11	Nitrobenzene-d5	100	57.8	58		23.00	120.00
		2-Fluorobiphenyl	100	60.8	61		30.00	116.00

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y1781-05	GFSB16-9-11	Terphenyl-d14	100	108.2	108		18.00	137.00
Y1781-05RE	GFSB16-9-11RE	Nitrobenzene-d5	100	51.4	51		23.00	120.00
		2-Fluorobiphenyl	100	60.4	60		30.00	116.00
		Terphenyl-d14	100	143.8	144	*	18.00	137.00
Y1781-07	EB-01	Nitrobenzene-d5	100	56.25	56		35.00	114.00
		2-Fluorobiphenyl	100	59.07	59		43.00	116.00
		Terphenyl-d14	100	71.99	72		33.00	141.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Low	High	Limits RPD
Lab Sample ID: Y1781-02MS		Client Sample ID:	GFSB5-45-47MS							
Naphthalene	1800	0	1300	72				34	120	
Acenaphthene	1800	0	1400	78				65	100	
Fluorene	1800	0	1400	78				47	117	
Phenanthrene	1800	0	1400	78				20	150	
Anthracene	1800	0	1300	72				54	108	
Fluoranthene	1800	0	1400	78				55	105	
Pyrene	1800	0	1300	72				20	150	
Benzo(a)anthracene	1800	0	1300	72				60	100	
Chrysene	1800	0	1300	72				51	115	
Indeno(1,2,3-cd)pyrene	1800	0	1600	89				42	124	
Benzo(b)fluoranthene	1800	0	1500	83				42	126	
Benzo(k)fluoranthene	1800	0	1400	78				43	125	
Benzo(a)pyrene	1800	0	1500	83				58	102	
Dibenz(a,h)anthracene	1800	0	1800	100				41	130	
Benzo(g,h,i)perylene	1800	0	1600	89				39	130	
Lab Sample ID: Y1781-02MSD		Client Sample ID:	GFSB5-45-47MSD							
Naphthalene	1800	0	1400	78	8			34	120	50
Acenaphthene	1800	0	1400	78	0			65	100	50
Fluorene	1800	0	1500	83	6			47	117	50
Phenanthrene	1800	0	1400	78	0			20	150	50
Anthracene	1800	0	1400	78	8			54	108	50
Fluoranthene	1800	0	1400	78	0			55	105	50
Pyrene	1800	0	1300	72	0			20	150	50
Benzo(a)anthracene	1800	0	1300	72	0			60	100	50
Chrysene	1800	0	1300	72	0			51	115	50
Indeno(1,2,3-cd)pyrene	1800	0	1600	89	0			42	124	50
Benzo(b)fluoranthene	1800	0	1500	83	0			42	126	50
Benzo(k)fluoranthene	1800	0	1500	83	6			43	125	50
Benzo(a)pyrene	1800	0	1600	89	7			58	102	50
Dibenz(a,h)anthracene	1800	0	1800	100	0			41	130	50
Benzo(g,h,i)perylene	1800	0	1700	94	5			39	130	50

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-45-47MS	SDG No.:	Y1781
Lab Sample ID:	Y1781-02MS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039217.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300		360	61	ug/Kg
83-32-9	Acenaphthene	1400		360	64	ug/Kg
86-73-7	Fluorene	1400		360	60	ug/Kg
85-01-8	Phenanthrene	1400		360	57	ug/Kg
120-12-7	Anthracene	1300		360	54	ug/Kg
206-44-0	Fluoranthene	1400		360	53	ug/Kg
129-00-0	Pyrene	1300		360	63	ug/Kg
56-55-3	Benzo(a)anthracene	1300		360	50	ug/Kg
218-01-9	Chrysene	1300		360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	1400		360	79	ug/Kg
50-32-8	Benzo(a)pyrene	1500		360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		360	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1800		360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.93	68 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	74.92	75 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	77.41	77 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	56170	3.64			
1146-65-2	Naphthalene-d8	207714	4.61			
15067-26-2	Acenaphthene-d10	117066	6.03			
1517-22-2	Phenanthrene-d10	187723	7.25			
1719-03-5	Chrysene-d12	186202	9.43			
1520-96-3	Perylene-d12	115056	10.73			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/28/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/5/2007
Client Sample ID:	GFSB5-45-47MSD	SDG No.:	Y1781
Lab Sample ID:	Y1781-02MSD	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039218.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1400		360	61	ug/Kg
83-32-9	Acenaphthene	1400		360	64	ug/Kg
86-73-7	Fluorene	1500		360	61	ug/Kg
85-01-8	Phenanthrene	1400		360	57	ug/Kg
120-12-7	Anthracene	1400		360	54	ug/Kg
206-44-0	Fluoranthene	1400		360	53	ug/Kg
129-00-0	Pyrene	1300		360	63	ug/Kg
56-55-3	Benzo(a)anthracene	1300		360	50	ug/Kg
218-01-9	Chrysene	1300		360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		360	79	ug/Kg
50-32-8	Benzo(a)pyrene	1600		360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1800		360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.16	71 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	78.4	78 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	77.67	78 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54105	3.63			
1146-65-2	Naphthalene-d8	198204	4.61			
15067-26-2	Acenaphthene-d10	111499	6.03			
1517-22-2	Phenanthrene-d10	175290	7.25			
1719-03-5	Chrysene-d12	182308	9.42			
1520-96-3	Perylene-d12	109436	10.73			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1781

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25378BS	Naphthalene	50	35	70			57	99	
	Acenaphthene	50	34	68			56	104	
	Fluorene	50	36	72			61	104	
	Phenanthrene	50	34	68			60	110	
	Anthracene	50	34	68			60	110	
	Fluoranthene	50	34	68			60	110	
	Pyrene	50	31	62			50	110	
	Benzo(a)anthracene	50	32	64			60	105	
	Chrysene	50	32	64			57	108	
	Indeno(1,2,3-cd)pyrene	50	40	80			35	127	
	Benzo(b)fluoranthene	50	41	82			49	116	
	Benzo(k)fluoranthene	50	38	76			52	111	
	Benzo(a)pyrene	50	41	82			58	102	
	Dibenz(a,h)anthracene	50	49	98			53	127	
	Benzo(g,h,i)perylene	50	47	94			42	121	
	PB25392BS	Naphthalene	1700	990	58			34	120
Acenaphthene		1700	990	58		*	65	100	
Fluorene		1700	1000	59			47	117	
Phenanthrene		1700	970	57			20	150	
Anthracene		1700	960	56			54	108	
Fluoranthene		1700	980	58			55	105	
Pyrene		1700	890	52			20	150	
Benzo(a)anthracene		1700	920	54		*	60	100	
Chrysene		1700	920	54			51	115	
Indeno(1,2,3-cd)pyrene		1700	1200	71			42	124	
Benzo(b)fluoranthene		1700	1000	59			42	126	
Benzo(k)fluoranthene		1700	1000	59			43	125	
Benzo(a)pyrene		1700	1000	59			58	102	
Dibenz(a,h)anthracene		1700	1300	76			41	130	
Benzo(g,h,i)perylene		1700	1200	71			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y1781
Lab Sample ID:	PB25378BS	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039211.D	1	3/6/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	35		10	1.4	ug/L
83-32-9	Acenaphthene	34		10	1.3	ug/L
86-73-7	Fluorene	36		10	1.4	ug/L
85-01-8	Phenanthrene	34		10	1.4	ug/L
120-12-7	Anthracene	34		10	1.4	ug/L
206-44-0	Fluoranthene	34		10	1.2	ug/L
129-00-0	Pyrene	31		10	1.5	ug/L
56-55-3	Benzo(a)anthracene	32		10	1.1	ug/L
218-01-9	Chrysene	32		10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	41		10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	38		10	1.9	ug/L
50-32-8	Benzo(a)pyrene	41		10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	40		10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	49		10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	47		10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	61.5	62 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	66.93	67 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.51	66 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76394		3.64		
1146-65-2	Naphthalene-d8	289198		4.61		
15067-26-2	Acenaphthene-d10	166248		6.03		
1517-22-2	Phenanthrene-d10	269115		7.25		
1719-03-5	Chrysene-d12	280812		9.43		
1520-96-3	Perylene-d12	157539		10.74		

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS02	SDG No.:	Y1781
Lab Sample ID:	PB25392BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039215.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	990		330	56	ug/Kg
83-32-9	Acenaphthene	990		330	59	ug/Kg
86-73-7	Fluorene	1000		330	56	ug/Kg
85-01-8	Phenanthrene	970		330	53	ug/Kg
120-12-7	Anthracene	960		330	50	ug/Kg
206-44-0	Fluoranthene	980		330	49	ug/Kg
129-00-0	Pyrene	890		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	920		330	46	ug/Kg
218-01-9	Chrysene	920		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1000		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1000		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1300		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	53.48	53 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	57.58	58 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	56.32	56 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	87782	3.64			
1146-65-2	Naphthalene-d8	327268	4.62			
15067-26-2	Acenaphthene-d10	188625	6.03			
1517-22-2	Phenanthrene-d10	305930	7.25			
1719-03-5	Chrysene-d12	321001	9.43			
1520-96-3	Perylene-d12	201435	10.74			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01
 Lab Code: CHEM Case No.: Y1781 SAS No.: Y1781 SDG NO.: Y1781
 Lab File ID: BE039210.D Lab Sample ID: PB25378B
 Instrument ID: BNAE Date Extracted: 3/6/2007
 Matrix: (soil/water) WATER Date Analyzed: 3/7/2007
 Level: (low/med) LOW Time Analyzed: 15:29

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EB-01	Y1781-07	BE039208.D	3/7/2007
02	SLCS01	PB25378BS	BE039211.D	3/7/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y1781
Lab Sample ID:	PB25378B	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039210.D	1	3/6/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.3	70 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	75.35	75 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	85.92	86 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57544	3.63			
1146-65-2	Naphthalene-d8	218854	4.61			
15067-26-2	Acenaphthene-d10	125987	6.02			
1517-22-2	Phenanthrene-d10	202990	7.24			
1719-03-5	Chrysene-d12	182874	9.41			
1520-96-3	Perylene-d12	105143	10.72			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Lab Name: Chemtech Consulting Group Contract: GANN01
 Lab Code: CHEM Case No.: Y1781 SAS No.: Y1781 SDG NO.: Y1781
 Lab File ID: BE039214.D Lab Sample ID: PB25392B
 Instrument ID: BNAE Date Extracted: 3/7/2007
 Matrix: (soil/water) SOIL Date Analyzed: 3/7/2007
 Level: (low/med) LOW Time Analyzed: 17:08

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS02	PB25392BS	BE039215.D	3/7/2007
02	GFSB5-45-47	Y1781-02	BE039216.D	3/7/2007
03	GFSB5-45-47MS	Y1781-02MS	BE039217.D	3/7/2007
04	GFSB5-45-47MSD	Y1781-02MSD	BE039218.D	3/7/2007
05	GFSB15-30-32	Y1781-04	BE039222.D	3/7/2007
06	GFSB15-15-17	Y1781-03	BE039223.D	3/7/2007
07	GFSB5-9-11	Y1781-01	BE039224.D	3/7/2007
08	GFSB16-9-11	Y1781-05	BE039225.D	3/7/2007
09	GFSB15-30-32RE	Y1781-04RE	BE039265.D	3/9/2007
10	GFSB15-15-17RE	Y1781-03RE	BE039266.D	3/9/2007
11	GFSB5-9-11RE	Y1781-01RE	BE039267.D	3/9/2007
12	GFSB16-9-11RE	Y1781-05RE	BE039268.D	3/9/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK02	SDG No.:	Y1781
Lab Sample ID:	PB25392B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039214.D	1	3/7/2007	3/7/2007	BE030207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.66	73 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	78.5	79 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	91.46	91 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	59406	3.63			
1146-65-2	Naphthalene-d8	220385	4.61			
15067-26-2	Acenaphthene-d10	127515	6.02			
1517-22-2	Phenanthrene-d10	206248	7.24			
1719-03-5	Chrysene-d12	181640	9.41			
1520-96-3	Perylene-d12	115092	10.72			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y1895
Vincent Frisina**

Summary Sheet
SW-846

SDG No.: Y1895

Order ID: Y1895

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB17-30-32							
Y1895-02	GFSB17-30-32	SOIL	Naphthalene	18	J	28	3.2	ug/Kg
			Total VOC's:	18.00				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	18.00				

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1895
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

ProjectID: LIRR Richmond Hill, Morris**OrderID:** Y1895**CustomerName:** Gannett Fleming Engineers, LLC**LAB SAMPLE NO.**

Y1895-01

Y1895-02

Y1895-03

Y1895-04

CLIENT SAMPLE NO

GFSB17-15-17

GFSB17-30-32

GFSB25-5-7

GFSB25-30-32

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V. Keys Name: Mildred V. Keys
Date: 3/28/07 Title: QA/QC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: 41895

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input type="checkbox"/>

Shelly
QA/QC Data Reviewer

03/28/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

TABLE OF CONTENTS
PROJECT NUMBER Y1895RQ

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	11
CONFORMANCE / NON-COFORMANCE SUMMARY	14
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	19
QUALITY CONTROL SUMMARY REPORTS	24
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	33
QUALITY CONTROL SUMMARY REPORTS	38
TOTAL NUMBER OF PAGES	48

CHEMTECH

284 Sheffield Street Mountainside NJ 07092

Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**



284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

CHEMTECH PROJECT NO.
 COC Number 063404

Y1895

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION															
COMPANY: Gannett Fleming ADDRESS: 480 Forest Avenue CITY: Locust Valley STATE: NY ZIP: 11560 ATTENTION: Vincent Frisina PHONE: 516-671-8440 FAX: 516-671-3349		PROJECT NAME: LRR-Richmond Hill PROJECT NO.: 45831 LOCATION: Jamaica, NY PROJECT MANAGER: Vincent Frisina e-mail: vfrisina@gfn.net PHONE: 516-671-8440 FAX: 516-671-3349		BILL TO: Gannett Fleming PO#: ADDRESS: 480 Forest Avenue CITY: Locust Valley STATE: NY ZIP: 11560 ATTENTION: V. Frisina PHONE: 516-671-8440															
DATA DELIVERABLE INFORMATION <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B" <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A" <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD FORMAT _____		DATA DELIVERABLE INFORMATION <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B" <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A" <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD FORMAT _____		ANALYSIS 1 2 3 4 5 6 7 8 9															
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS			
				DATE	TIME		1	2	3	4	5	6	7	8	9				
1.	GFSB17-15-17	SOIL	X	3-2-07	1200	2													
2.	GFSB17-30-32	SOIL	X	3-2-07	1200	2													
3.	GFSB25-5-7	SOIL	X	3-5-07	1145	2													
4.	GFSB25-30-32	SOIL	X	3-5-07	1145	2													
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
REPORT TO BE SENT TO:		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY		RECEIVED BY:															
1. Kimberly Aimee 3-8-07 1513		RECEIVED BY:		RECEIVED BY:															
2.		RECEIVED BY:		RECEIVED BY:															
3. Red Sk 3/26/07		RECEIVED FOR LAB BY:		RECEIVED FOR LAB BY:															

SHIPPED VIA: CLIENT CHEMTECH HAND DELIVERED PICKED UP OVERNIGHT OVERNIGHT
 Cooler Temp. 50°C Ice in Cooler? 4°C
 Supplement Complete: YES NO
 Page 1 of 1
 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY
 Revision 4/2005



284 Sheffield Street Mountainside NJ 07092 Tel. 908-789-8900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

1 From

Date 3/8/07 Sender's FedEx Account Number 011504450

Sender's Name Kimberly Simone Phone (516) 671 8440

Company Gannett Fleming

Address 456 Forest Ave

City Locust Valley State NY ZIP 11560

2 Your Internal Billing Reference Information

3 To

Recipient's Name Receiving Department Phone (516) 671 8440

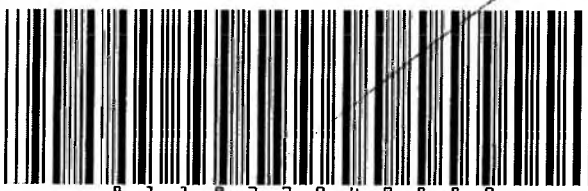
Company Circuit Tech

Address 284 Stamford St.

City Manhasset Neck State NY ZIP 11030

For HOLD at FedEx Location check here
 Hold Weekday Hold Saturday

For WEEKEND Delivery check here
 Saturday Delivery NEW Sunday Delivery



8 1 1 9 2 7 0 4 9 8 8 0

Express Package Service Packages under 150 lbs.
 FedEx Priority Overnight FedEx Standard Overnight
 FedEx First Overnight
 FedEx 2Day FedEx Express Saver

Express Freight Service Packages over 150 lbs.
 FedEx Freight FedEx 2Day Freight FedEx Freight

Packaging
 FedEx Letter FedEx Pak FedEx Box

Special Handling
Does this shipment contain dangerous goods? No Yes
 Dry Ice Fragile Cargo

Payment
Bill to: Sender Recipient Third Party Credit
Cash on Delivery

Total Packages 1 Total Weight 10.80

Release Signature

322

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

- Value If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J** Indicates an estimated value. This flag is used:
- (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
- B** Indicates the analyte was found in the blank as well as the sample report as "12 B".
- E** Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- D** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- P** This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
- N** This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y1895

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples

/sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs reviewed for manual integration requirements

✓

1st Level QA Review Signature: [Signature]

Date: 03/28/07

2nd Level QA Review Signature: [Signature]

Date: 3/28/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**



Lab Chronicle

Order ID: Y1895
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 3/13/2007 10:52:53 AM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: K12

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1895-01	GFSB17-15-17	SOIL	<u>VOC-STARS</u>	8260	03/02/07		03/14/07	03/12/07
Y1895-02	GFSB17-30-32	SOIL	<u>VOC-STARS</u>	8260	03/02/07		03/14/07	03/12/07
Y1895-03	GFSB25-5-7	SOIL	<u>VOC-STARS</u>	8260	03/05/07		03/14/07	03/12/07
Y1895-04	GFSB25-30-32	SOIL	<u>VOC-STARS</u>	8260	03/05/07		03/14/07	03/12/07

CHEMTECH

Lab Chronicle

Order ID: Y1895
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 3/13/2007 10:52:53 AM
Project: LJRR Richmond Hill, Morris Park GF 045813.005
Location: K12

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y1895-01	GFSB17-15-17	SOIL	<u>SVOC-STARS</u>	8270	03/02/07	03/14/07	03/14/07	03/12/07
Y1895-02	GFSB17-30-32	SOIL	<u>SVOC-STARS</u>	8270	03/02/07	03/14/07	03/14/07	03/12/07
Y1895-03	GFSB25-5-7	SOIL	<u>SVOC-STARS</u>	8270	03/05/07	03/14/07	03/14/07	03/12/07
Y1895-04	GFSB25-30-32	SOIL	<u>SVOC-STARS</u>	8270	03/05/07	03/14/07	03/14/07	03/12/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1895

MATRIX: Solid

METHOD: 8260

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8260 and CLP.			✓
b.	System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
----	--	--	--	---

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable range. The RPD recoveries met criteria. The Blank Spike met requirements for all samples.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The %RSD is greater than 15% in the Initial Calibration for Naphthalene.

QA REVIEW



Date

03/28/07

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1895

MATRIX: Solid

METHOD: 8270

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8270 and CLP.			✓
b. System Performance Check Compounds for 8270 and CLP			✓

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
---	--	--	---

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable range.			
The RPD recoveries met criteria. The Blank Spike met requirements for all samples.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: Internal Standard was added 1.5 times in the Matrix Duplicate spike.

QA REVIEW

Sheehy

Date

03/28/07

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-15-17	SDG No.:	Y1895
Lab Sample ID:	Y1895-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	10
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015180.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.2	U	27	2.2	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.2	U	27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.8	122 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	54.75	110 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.79	102 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	49.15	98 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	280369	3.43			
540-36-3	1,4-Difluorobenzene	499568	3.84			
3114-55-4	Chlorobenzene-d5	534262	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	276765	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-30-32	SDG No.:	Y1895
Lab Sample ID:	Y1895-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	10
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015183.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	28	2.0	ug/Kg
71-43-2	Benzene	2.2	U	28	2.2	ug/Kg
108-88-3	Toluene	2.2	U	28	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	28	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.8	U	28	4.8	ug/Kg
95-47-6	o-Xylene	2.1	U	28	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	28	2.3	ug/Kg
103-65-1	N-propylbenzene	2.9	U	28	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	28	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	28	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	28	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	28	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	28	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	28	1.9	ug/Kg
91-20-3	Naphthalene	18	J	28	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.66	119 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.25	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.45	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.61	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	293431	3.44			
540-36-3	1,4-Difluorobenzene	529014	3.84			
3114-55-4	Chlorobenzene-d5	554599	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	271533	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/5/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB25-5-7	SDG No.:	Y1895
Lab Sample ID:	Y1895-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	13
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015184.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.1	U	29	2.1	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.3	U	29	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	29	2.0	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.8	U	29	2.8	ug/Kg
98-06-6	tert-Butylbenzene	4.1	U	29	4.1	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.4	U	29	2.4	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	29	1.9	ug/Kg
91-20-3	Naphthalene	3.4	U	29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	61.19	122 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.52	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.05	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.61	95 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	285783	3.44			
540-36-3	1,4-Difluorobenzene	521581	3.84			
3114-55-4	Chlorobenzene-d5	562376	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	287920	8.90			

U = Not Detected

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/5/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB25-30-32	SDG No.:	Y1895
Lab Sample ID:	Y1895-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	5
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015185.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	26	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.58	121 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.59	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.8	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.62	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	282413	3.43			
540-36-3	1,4-Difluorobenzene	508045	3.84			
3114-55-4	Chlorobenzene-d5	536113	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	252774	8.90			

U = Not Detected

RL = Reporting Limit

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E = Value Exceeds Calibration Range

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N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSK0314S1	VLCS01	1,2-Dichloroethane-d4	50	52.31	105		75.00	125.00
		Dibromofluoromethane	50	52.96	106		75.00	125.00
		Toluene-d8	50	51.76	104		75.00	125.00
		4-Bromofluorobenzene	50	48.93	98		75.00	125.00
VBK0314S1	VBLK01	1,2-Dichloroethane-d4	50	53.08	106		75.00	125.00
		Dibromofluoromethane	50	52.9	106		75.00	125.00
		Toluene-d8	50	51.17	102		75.00	125.00
		4-Bromofluorobenzene	50	48.79	98		75.00	125.00
Y1895-01	GFSB17-15-17	1,2-Dichloroethane-d4	50	60.8	122		75.00	125.00
		Dibromofluoromethane	50	54.75	110		75.00	125.00
		Toluene-d8	50	50.79	102		75.00	125.00
		4-Bromofluorobenzene	50	49.15	98		75.00	125.00
Y1895-01MS	GFSB17-15-17MS	1,2-Dichloroethane-d4	50	55.76	112		75.00	125.00
		Dibromofluoromethane	50	50.44	101		75.00	125.00
		Toluene-d8	50	50.98	102		75.00	125.00
		4-Bromofluorobenzene	50	49.36	99		75.00	125.00
Y1895-01MSD	GFSB17-15-17MSD	1,2-Dichloroethane-d4	50	56.38	113		75.00	125.00
		Dibromofluoromethane	50	51.69	103		75.00	125.00
		Toluene-d8	50	51.8	104		75.00	125.00
		4-Bromofluorobenzene	50	50.75	102		75.00	125.00
Y1895-02	GFSB17-30-32	1,2-Dichloroethane-d4	50	59.66	119		75.00	125.00
		Dibromofluoromethane	50	53.25	107		75.00	125.00
		Toluene-d8	50	48.45	97		75.00	125.00
		4-Bromofluorobenzene	50	45.61	91		75.00	125.00
Y1895-03	GFSB25-5-7	1,2-Dichloroethane-d4	50	61.19	122		75.00	125.00
		Dibromofluoromethane	50	53.52	107		75.00	125.00
		Toluene-d8	50	50.05	100		75.00	125.00
		4-Bromofluorobenzene	50	47.61	95		75.00	125.00
Y1895-04	GFSB25-30-32	1,2-Dichloroethane-d4	50	60.58	121		75.00	125.00
		Dibromofluoromethane	50	53.59	107		75.00	125.00
		Toluene-d8	50	49.8	100		75.00	125.00
		4-Bromofluorobenzene	50	45.62	91		75.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: GFSB17-15-17MS										
Y1895-01MS	Methyl tert-butyl Ether	278	0.0	290	104			74	149	
	Benzene	278	0.0	260	94			83	135	
	Toluene	278	0.0	270	97			79	140	
	Ethyl Benzene	278	0.0	270	97			82	139	
	m/p-Xylenes	556	0.0	520	94			81	143	
	o-Xylene	278	0.0	260	94			79	144	
	Isopropylbenzene	278	0.0	280	101			80	145	
	N-propylbenzene	278	0.0	270	97			74	160	
	1,3,5-Trimethylbenzene	278	0.0	280	101			78	151	
	tert-Butylbenzene	278	0.0	290	104			75	148	
	1,2,4-Trimethylbenzene	278	0.0	280	101			78	148	
	Sec-butylbenzene	278	0.0	280	101			81	147	
	p-Isopropyltoluene	278	0.0	290	104			75	151	
	n-Butylbenzene	278	0.0	280	101			81	154	
	Naphthalene	278	0.0	280	101			64	161	
Client Sample ID: GFSB17-15-17MSD										
Y1895-01MSD	Methyl tert-butyl Ether	278	0.0	280	101	3		74	149	20
	Benzene	278	0.0	250	90	4		83	135	21
	Toluene	278	0.0	250	90	7		79	140	21
	Ethyl Benzene	278	0.0	250	90	7		82	139	20
	m/p-Xylenes	556	0.0	500	90	4		81	143	20
	o-Xylene	278	0.0	250	90	4		79	144	20
	Isopropylbenzene	278	0.0	260	94	7		80	145	20
	N-propylbenzene	278	0.0	260	94	3		74	160	20
	1,3,5-Trimethylbenzene	278	0.0	260	94	7		78	151	20
	tert-Butylbenzene	278	0.0	270	97	7		75	148	20
	1,2,4-Trimethylbenzene	278	0.0	260	94	7		78	148	20
	Sec-butylbenzene	278	0.0	260	94	7		81	147	20
	p-Isopropyltoluene	278	0.0	270	97	7		75	151	20
	n-Butylbenzene	278	0.0	260	94	7		81	154	20
	Naphthalene	278	0.0	270	97	4		64	161	20



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-15-17MS	SDG No.:	Y1895
Lab Sample ID:	Y1895-01MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	10
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015181.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	290		28	2.0	ug/Kg
71-43-2	Benzene	260		28	2.2	ug/Kg
108-88-3	Toluene	270		28	2.2	ug/Kg
100-41-4	Ethyl Benzene	270		28	2.0	ug/Kg
126777-61-2	m/p-Xylenes	520		28	4.8	ug/Kg
95-47-6	o-Xylene	260		28	2.1	ug/Kg
98-82-8	Isopropylbenzene	280		28	2.3	ug/Kg
103-65-1	N-propylbenzene	270		28	3.0	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	280		28	2.7	ug/Kg
98-06-6	tert-Butylbenzene	290		28	4.0	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	280		28	2.1	ug/Kg
135-98-8	Sec-butylbenzene	280		28	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	290		28	2.4	ug/Kg
104-51-8	n-Butylbenzene	280		28	1.9	ug/Kg
91-20-3	Naphthalene	280		28	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.76	112 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.44	101 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.98	102 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	49.36	99 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	303640	3.43			
540-36-3	1,4-Difluorobenzene	512650	3.84			
3114-55-4	Chlorobenzene-d5	546227	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	303216	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-15-17MSD	SDG No.:	Y1895
Lab Sample ID:	Y1895-01MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	10
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015182.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	280		27	2.0	ug/Kg
71-43-2	Benzene	250		27	2.2	ug/Kg
108-88-3	Toluene	250		27	2.2	ug/Kg
100-41-4	Ethyl Benzene	250		27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	500		27	4.7	ug/Kg
95-47-6	o-Xylene	250		27	2.1	ug/Kg
98-82-8	Isopropylbenzene	260		27	2.3	ug/Kg
103-65-1	N-propylbenzene	260		27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	260		27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	270		27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	260		27	2.1	ug/Kg
135-98-8	Sec-butylbenzene	260		27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	270		27	2.3	ug/Kg
104-51-8	n-Butylbenzene	260		27	1.8	ug/Kg
91-20-3	Naphthalene	270		27	3.2	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	56.38	113 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.69	103 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.8	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	50.75	102 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	326395	3.43			
540-36-3	1,4-Difluorobenzene	546658	3.84			
3114-55-4	Chlorobenzene-d5	585659	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	326545	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0314S1	Methyl tert-butyl Ether	20	21	105			70	130	
	Benzene	20	19	95			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	19	95			70	130	
	m/p-Xylenes	40	38	95			70	130	
	o-Xylene	20	19	95			70	130	
	Isopropylbenzene	20	20	100			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	20	100			70	130	
	tert-Butylbenzene	20	20	100			70	130	
	1,2,4-Trimethylbenzene	20	20	100			70	130	
	Sec-butylbenzene	20	20	100			70	130	
	p-Isopropyltoluene	20	20	100			70	130	
	n-Butylbenzene	20	20	100			70	130	
	Naphthalene	20	18	90			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1895
Lab Sample ID:	BSK0314S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015164.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	21		5.0	0.37	ug/Kg
71-43-2	Benzene	19		5.0	0.40	ug/Kg
108-88-3	Toluene	19		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	19		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	38		5.0	0.86	ug/Kg
95-47-6	o-Xylene	19		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	20		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	19		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	20		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	20		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	20		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	20		5.0	0.34	ug/Kg
91-20-3	Naphthalene	18		5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.31	105 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	52.96	106 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.76	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.93	98 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	328682	3.43			
540-36-3	1,4-Difluorobenzene	541725	3.84			
3114-55-4	Chlorobenzene-d5	565469	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	324324	8.91			

U = Not Detected

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CTECH Case No.: Y1895 SAS No.: Y1895 SDG NO.: Y1895
 Lab File ID: VK015163.D Lab Sample ID: VBK0314S1
 Date Analyzed: 3/14/2007 Time Analyzed: 11:08
 GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK0314S1	VK015164.D	11:40
GFSB17-15-17	Y1895-01	VK015180.D	18:35
GFSB17-15-17MS	Y1895-01MS	VK015181.D	19:01
GFSB17-15-17MSD	Y1895-01MSD	VK015182.D	19:26
GFSB17-30-32	Y1895-02	VK015183.D	19:52
GFSB25-5-7	Y1895-03	VK015184.D	20:18
GFSB25-30-32	Y1895-04	VK015185.D	20:44

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1895
Lab Sample ID:	VBK0314S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015163.D	1	3/14/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.08	106 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	52.9	106 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.17	102 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.79	98 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	342259	3.43			
540-36-3	1,4-Difluorobenzene	570624	3.84			
3114-55-4	Chlorobenzene-d5	594592	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	315767	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

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N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-15-17	SDG No.:	Y1895
Lab Sample ID:	Y1895-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	10
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036748.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	63	U	370	63	ug/Kg
83-32-9	Acenaphthene	65	U	370	65	ug/Kg
86-73-7	Fluorene	62	U	370	62	ug/Kg
85-01-8	Phenanthrene	58	U	370	58	ug/Kg
120-12-7	Anthracene	55	U	370	55	ug/Kg
206-44-0	Fluoranthene	55	U	370	55	ug/Kg
129-00-0	Pyrene	65	U	370	65	ug/Kg
56-55-3	Benzo(a)anthracene	51	U	370	51	ug/Kg
218-01-9	Chrysene	66	U	370	66	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	370	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	81	U	370	81	ug/Kg
50-32-8	Benzo(a)pyrene	59	U	370	59	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	47	U	370	47	ug/Kg
53-70-3	Dibenz(a,h)anthracene	46	U	370	46	ug/Kg
191-24-2	Benzo(g,h,i)perylene	61	U	370	61	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	61.2	61 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	66.23	66 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	64.78	65 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	267392	6.13			
1146-65-2	Naphthalene-d8	1062231	8.40			
15067-26-2	Acenaphthene-d10	592191	11.82			
1517-22-2	Phenanthrene-d10	884258	14.77			
1719-03-5	Chrysene-d12	861682	20.04			
1520-96-3	Perylene-d12	633296	23.01			

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J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/2/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB17-30-32	SDG No.:	Y1895
Lab Sample ID:	Y1895-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	10
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036750.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	65	U	360	65	ug/Kg
86-73-7	Fluorene	62	U	360	62	ug/Kg
85-01-8	Phenanthrene	58	U	360	58	ug/Kg
120-12-7	Anthracene	55	U	360	55	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	65	U	360	65	ug/Kg
56-55-3	Benzo(a)anthracene	51	U	360	51	ug/Kg
218-01-9	Chrysene	66	U	360	66	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	80	U	360	80	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	46	U	360	46	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	61.65	62 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	65.36	65 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.76	66 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	263535	6.14			
1146-65-2	Naphthalene-d8	1072285	8.41			
15067-26-2	Acenaphthene-d10	598918	11.82			
1517-22-2	Phenanthrene-d10	846333	14.76			
1719-03-5	Chrysene-d12	833034	20.04			
1520-96-3	Perylene-d12	618596	23.02			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/5/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB25-5-7	SDG No.:	Y1895
Lab Sample ID:	Y1895-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	13
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036743.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	65	U	380	65	ug/Kg
83-32-9	Acenaphthene	67	U	380	67	ug/Kg
86-73-7	Fluorene	64	U	380	64	ug/Kg
85-01-8	Phenanthrene	60	U	380	60	ug/Kg
120-12-7	Anthracene	57	U	380	57	ug/Kg
206-44-0	Fluoranthene	56	U	380	56	ug/Kg
129-00-0	Pyrene	67	U	380	67	ug/Kg
56-55-3	Benzo(a)anthracene	53	U	380	53	ug/Kg
218-01-9	Chrysene	68	U	380	68	ug/Kg
205-99-2	Benzo(b)fluoranthene	42	U	380	42	ug/Kg
207-08-9	Benzo(k)fluoranthene	83	U	380	83	ug/Kg
50-32-8	Benzo(a)pyrene	61	U	380	61	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	48	U	380	48	ug/Kg
53-70-3	Dibenz(a,h)anthracene	47	U	380	47	ug/Kg
191-24-2	Benzo(g,h,i)perylene	63	U	380	63	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	63.42	63 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	67.59	68 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	251062	6.13			
1146-65-2	Naphthalene-d8	1033048	8.41			
15067-26-2	Acenaphthene-d10	556437	11.82			
1517-22-2	Phenanthrene-d10	834484	14.76			
1719-03-5	Chrysene-d12	798769	20.04			
1520-96-3	Perylene-d12	602571	23.02			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/5/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/12/2007
Client Sample ID:	GFSB25-30-32	SDG No.:	Y1895
Lab Sample ID:	Y1895-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	5
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036744.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	61	U	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	61.43	61 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	67.68	68 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	64.61	65 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	278822	6.14			
1146-65-2	Naphthalene-d8	1076455	8.41			
15067-26-2	Acenaphthene-d10	590844	11.83			
1517-22-2	Phenanthrene-d10	877510	14.77			
1719-03-5	Chrysene-d12	881315	20.04			
1520-96-3	Perylene-d12	665205	23.02			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25556B	SBLK01	Nitrobenzene-d5	100	62.66	63		23.00	120.00
		2-Fluorobiphenyl	100	68.43	68		30.00	116.00
		Terphenyl-d14	100	65.85	66		18.00	137.00
PB25556BS	SLCS01	Nitrobenzene-d5	100	66.84	67		23.00	120.00
		2-Fluorobiphenyl	100	73.2	73		30.00	116.00
		Terphenyl-d14	100	71.04	71		18.00	137.00
Y1890-01MS	Y1890-01MS	Nitrobenzene-d5	100	64.08	64		23.00	120.00
		2-Fluorobiphenyl	100	66.03	66		30.00	116.00
		Terphenyl-d14	100	68.49	68		18.00	137.00
Y1890-01MSD	Y1890-01MSD	Nitrobenzene-d5	100	66.6	67		23.00	120.00
		2-Fluorobiphenyl	100	67.95	68		30.00	116.00
		Terphenyl-d14	100	71.62	72		18.00	137.00
Y1895-01	GFSB17-15-17	Nitrobenzene-d5	100	61.2	61		23.00	120.00
		2-Fluorobiphenyl	100	66.23	66		30.00	116.00
		Terphenyl-d14	100	64.78	65		18.00	137.00
Y1895-02	GFSB17-30-32	Nitrobenzene-d5	100	61.65	62		23.00	120.00
		2-Fluorobiphenyl	100	65.36	65		30.00	116.00
		Terphenyl-d14	100	65.76	66		18.00	137.00
Y1895-03	GFSB25-5-7	Nitrobenzene-d5	100	63.42	63		23.00	120.00
		2-Fluorobiphenyl	100	69	69		30.00	116.00
		Terphenyl-d14	100	67.59	68		18.00	137.00
Y1895-04	GFSB25-30-32	Nitrobenzene-d5	100	61.43	61		23.00	120.00
		2-Fluorobiphenyl	100	67.68	68		30.00	116.00
		Terphenyl-d14	100	64.61	65		18.00	137.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec		RPD		Limits	
					Qual	RPD	Qual	Low	High	RPD
Lab Sample ID: Y1890-01MS		Client Sample ID: Y1890-01MS								
Naphthalene	1700	0	1100	65				34	120	
Acenaphthene	1700	0	1100	65				65	100	
Fluorene	1700	0	1100	65				47	117	
Phenanthrene	1700	0	1100	65				20	150	
Anthracene	1700	0	1100	65				54	108	
Fluoranthene	1700	0	1100	65				55	105	
Pyrene	1700	0	1100	65				20	150	
Benzo(a)anthracene	1700	0	1100	65				60	100	
Chrysene	1700	0	1100	65				51	115	
Indeno(1,2,3-cd)pyrene	1700	0	750	44				42	124	
Benzo(b)fluoranthene	1700	0	1400	82				42	126	
Benzo(k)fluoranthene	1700	0	1500	88				43	125	
Benzo(a)pyrene	1700	0	1400	82				58	102	
Dibenz(a,h)anthracene	1700	0	1000	59				41	130	
Benzo(g,h,i)perylene	1700	0	920	54				39	130	
Lab Sample ID: Y1890-01MSD		Client Sample ID: Y1890-01MSD								
Naphthalene	1700	0	1100	65	0			34	120	50
Acenaphthene	1700	0	1100	65	0			65	100	50
Fluorene	1700	0	1100	65	0			47	117	50
Phenanthrene	1700	0	1100	65	0			20	150	50
Anthracene	1700	0	1200	71	9			54	108	50
Fluoranthene	1700	0	1100	65	0			55	105	50
Pyrene	1700	0	1100	65	0			20	150	50
Benzo(a)anthracene	1700	0	1100	65	0			60	100	50
Chrysene	1700	0	1100	65	0			51	115	50
Indeno(1,2,3-cd)pyrene	1700	0	770	45	2			42	124	50
Benzo(b)fluoranthene	1700	0	1400	82	0			42	126	50
Benzo(k)fluoranthene	1700	0	1500	88	0			43	125	50
Benzo(a)pyrene	1700	0	1400	82	0			58	102	50
Dibenz(a,h)anthracene	1700	0	1000	59	0			41	130	50
Benzo(g,h,i)perylene	1700	0	920	54	0			39	130	50

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1890-01MS	SDG No.:	Y1895
Lab Sample ID:	Y1890-01MS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036753.D	1	3/14/2007	3/15/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1100		330	56	ug/Kg
83-32-9	Acenaphthene	1100		330	59	ug/Kg
86-73-7	Fluorene	1100		330	55	ug/Kg
85-01-8	Phenanthrene	1100		330	52	ug/Kg
120-12-7	Anthracene	1100		330	50	ug/Kg
206-44-0	Fluoranthene	1100		330	49	ug/Kg
129-00-0	Pyrene	1100		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1100		330	46	ug/Kg
218-01-9	Chrysene	1100		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		330	72	ug/Kg
50-32-8	Benzo(a)pyrene	1400		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	750		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1000		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	920		330	54	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.08	64 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	66.03	66 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	68.49	68 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	246341	6.14			
1146-65-2	Naphthalene-d8	983468	8.41			
15067-26-2	Acenaphthene-d10	531502	11.83			
1517-22-2	Phenanthrene-d10	778177	14.77			
1719-03-5	Chrysene-d12	721975	20.06			
1520-96-3	Perylene-d12	516252	23.02			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y1890-01MSD	SDG No.:	Y1895
Lab Sample ID:	Y1890-01MSD	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036754.D	1	3/14/2007	3/15/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1100		330	56	ug/Kg
83-32-9	Acenaphthene	1100		330	59	ug/Kg
86-73-7	Fluorene	1100		330	56	ug/Kg
85-01-8	Phenanthrene	1100		330	52	ug/Kg
120-12-7	Anthracene	1200		330	50	ug/Kg
206-44-0	Fluoranthene	1100		330	49	ug/Kg
129-00-0	Pyrene	1100		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1100		330	46	ug/Kg
218-01-9	Chrysene	1100		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		330	72	ug/Kg
50-32-8	Benzo(a)pyrene	1400		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	770		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1000		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	920		330	54	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.6	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	67.95	68 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.62	72 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	376064	6.15			
1146-65-2	Naphthalene-d8	1449354	8.42			
15067-26-2	Acenaphthene-d10	793980	11.84			
1517-22-2	Phenanthrene-d10	1143055	14.77			
1719-03-5	Chrysene-d12	1060315	20.06			
1520-96-3	Perylene-d12	786757	23.03			

U = Not Detected

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MDL = Method Detection Limit

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N = Presumptive Evidence of a Compound

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary SW-846

SDG No.: Y1895

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25556BS	Naphthalene	1700	1300	76			34	120	
	Acenaphthene	1700	1300	76			65	100	
	Fluorene	1700	1300	76			47	117	
	Phenanthrene	1700	1300	76			20	150	
	Anthracene	1700	1300	76			54	108	
	Fluoranthene	1700	1300	76			55	105	
	Pyrene	1700	1300	76			20	150	
	Benzo(a)anthracene	1700	1300	76			60	100	
	Chrysene	1700	1200	71			51	115	
	Indeno(1,2,3-cd)pyrene	1700	1300	76			42	124	
	Benzo(b)fluoranthene	1700	1600	94			42	126	
	Benzo(k)fluoranthene	1700	1500	88			43	125	
	Benzo(a)pyrene	1700	1600	94			58	102	
	Dibenz(a,h)anthracene	1700	1500	88			41	130	
	Benzo(g,h,i)perylene	1700	1500	88			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y1895
Lab Sample ID:	PB25556BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036741.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300		330	56	ug/Kg
83-32-9	Acenaphthene	1300		330	59	ug/Kg
86-73-7	Fluorene	1300		330	56	ug/Kg
85-01-8	Phenanthrene	1300		330	53	ug/Kg
120-12-7	Anthracene	1300		330	50	ug/Kg
206-44-0	Fluoranthene	1300		330	49	ug/Kg
129-00-0	Pyrene	1300		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1300		330	46	ug/Kg
218-01-9	Chrysene	1200		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1600		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1500		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.84	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	73.2	73 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.04	71 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	247695	6.15			
1146-65-2	Naphthalene-d8	966814	8.42			
15067-26-2	Acenaphthene-d10	512136	11.84			
1517-22-2	Phenanthrene-d10	771280	14.77			
1719-03-5	Chrysene-d12	743814	20.06			
1520-96-3	Perylene-d12	590239	23.02			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01
 Lab Code: CHEM Case No.: Y1895 SAS No.: Y1895 SDG NO.: Y1895
 Lab File ID: BB036740.D Lab Sample ID: PB25556B
 Instrument ID: BNAB Date Extracted: 3/14/2007
 Matrix: (soil/water) SOIL Date Analyzed: 3/14/2007
 Level: (low/med) LOW Time Analyzed: 17:03

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25556BS	BB036741.D	3/14/2007
02	GFSB25-5-7	Y1895-03	BB036743.D	3/14/2007
03	GFSB25-30-32	Y1895-04	BB036744.D	3/14/2007
04	GFSB17-15-17	Y1895-01	BB036748.D	3/14/2007
05	GFSB17-30-32	Y1895-02	BB036750.D	3/14/2007
06	Y1890-01MS	Y1890-01MS	BB036753.D	3/15/2007
07	Y1890-01MSD	Y1890-01MSD	BB036754.D	3/15/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y1895
Lab Sample ID:	PB25556B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036740.D	1	3/14/2007	3/14/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	62.66	63 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	68.43	68 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.85	66 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	252827	6.15			
1146-65-2	Naphthalene-d8	1027854	8.41			
15067-26-2	Acenaphthene-d10	552911	11.82			
1517-22-2	Phenanthrene-d10	839525	14.77			
1719-03-5	Chrysene-d12	806664	20.05			
1520-96-3	Perylene-d12	620958	23.03			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound



Results Report

Gannett Fleming Engineers, LL
Vincent Frisina
480 Forest Avenue
P.O.Box 707
Locust Valley NY 11560

LIRR Richmond Hill, Morris Par
5166718440

Order ID: Y1895

Date: 28-Mar-07

Sample	Test	Parameter	Result	Method
Y1895-01	Percent Solids	Percent Solids	90.1	Chemtech -SOP
Y1895-02	Percent Solids	Percent Solids	90	Chemtech -SOP
Y1895-03	Percent Solids	Percent Solids	87.4	Chemtech -SOP
Y1895-04	Percent Solids	Percent Solids	94.5	Chemtech -SOP

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y1977
Vincent Frisina**

Summary Sheet
SW-846

SDG No.: Y1977

Order ID: Y1977

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB04-15-17								
Y1977-01	GFSB04-15-17	SOIL	1,3,5-Trimethylbenzene	6.3	J	27	2.7	ug/Kg
Y1977-01	GFSB04-15-17	SOIL	n-Butylbenzene	8.0	J	27	1.8	ug/Kg
Y1977-01	GFSB04-15-17	SOIL	Naphthalene	25	J	27	3.2	ug/Kg
				Total VOC's:	39.30			
				Total TIC's:	0.00			
				Total VOC's and TIC's:	39.30			
Client ID: GFSB04-40-42								
Y1977-02	GFSB04-40-42	SOIL	Naphthalene	17	J	25	2.9	ug/Kg
				Total VOC's:	17.00			
				Total TIC's:	0.00			
				Total VOC's and TIC's:	17.00			
Client ID: GFSB18-45-47								
Y1977-04	GFSB18-45-47	SOIL	Toluene	14	J	26	2.1	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	m/p-Xylenes	12	J	26	4.6	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Isopropylbenzene	6.1	J	26	2.2	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	N-propylbenzene	9.8	J	26	2.8	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	1,3,5-Trimethylbenzene	19	J	26	2.6	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	tert-Butylbenzene	8.9	J	26	3.8	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	1,2,4-Trimethylbenzene	48		26	2.0	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Sec-butylbenzene	76		26	2.2	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	p-Isopropyltoluene	37		26	2.2	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	n-Butylbenzene	99		26	1.8	ug/Kg
				Total VOC's:	329.80			
				Total TIC's:	0.00			
				Total VOC's and TIC's:	329.80			
Client ID: GFSB18-9-11								
Y1977-03	GFSB18-9-11	SOIL	1,3,5-Trimethylbenzene	7.8	J	26	2.6	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	1,2,4-Trimethylbenzene	10	J	26	2.0	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	p-Isopropyltoluene	18	J	26	2.2	ug/Kg
				Total VOC's:	35.80			
				Total TIC's:	0.00			
				Total VOC's and TIC's:	35.80			

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Hit Summary Report

SDG No.: Y1977

Order ID: Y1977

Client: Gannett Fleming Engineers, LLC

Project ID: LIRR Richmond Hill, Morris Park G

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: GFSB18-45-47								
Y1977-04	GFSB18-45-47	SOIL	Acenaphthene	190	J	340	62	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Fluorene	270	J	340	58	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Phenanthrene	730		340	55	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Anthracene	85	J	340	52	ug/Kg
Y1977-04	GFSB18-45-47	SOIL	Pyrene	74	J	340	61	ug/Kg
Total SVOC's:				1349.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				1349.00				
Client ID: GFSB18-45-47RE								
Y1977-04RE	GFSB18-45-47RE	SOIL	Acenaphthene	170	J	340	62	ug/Kg
Y1977-04RE	GFSB18-45-47RE	SOIL	Fluorene	270	J	340	58	ug/Kg
Y1977-04RE	GFSB18-45-47RE	SOIL	Phenanthrene	740		340	55	ug/Kg
Y1977-04RE	GFSB18-45-47RE	SOIL	Anthracene	80	J	340	52	ug/Kg
Y1977-04RE	GFSB18-45-47RE	SOIL	Pyrene	72	J	340	61	ug/Kg
Total SVOC's:				1332.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				1332.00				
Client ID: GFSB18-9-11								
Y1977-03	GFSB18-9-11	SOIL	Naphthalene	420		360	61	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Acenaphthene	420		360	64	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Fluorene	400		360	60	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Anthracene	950		360	54	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Benzo(a)anthracene	1200		360	50	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Chrysene	1200		360	64	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Benzo(k)fluoranthene	1100		360	79	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Benzo(a)pyrene	2100		360	57	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Indeno(1,2,3-cd)pyrene	49	J	360	45	ug/Kg
Y1977-03	GFSB18-9-11	SOIL	Benzo(g,h,i)perylene	330	J	360	59	ug/Kg
Total SVOC's:				8169.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				8169.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

Hit Summary Report

SDG No.: Y1977

Order ID: Y1977

Client: Gannett Fleming Engineers, LLC

Project ID: LIRR Richmond Hill, Morris Park G

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB18-9-11DL							
Y1977-03DL	GFSB18-9-11DL	SOIL	Naphthalene	440	JD	1800	310	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Acenaphthene	420	JD	1800	320	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Fluorene	350	JD	1800	300	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Phenanthrene	2900	D	1800	290	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Anthracene	830	JD	1800	270	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Fluoranthene	2700	D	1800	270	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Pyrene	2600	D	1800	320	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Benzo(a)anthracene	1100	JD	1800	250	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Chrysene	1200	JD	1800	320	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Benzo(b)fluoranthene	1900	D	1800	200	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Benzo(k)fluoranthene	590	JD	1800	390	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Benzo(a)pyrene	1600	JD	1800	290	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Indeno(1,2,3-cd)pyrene	660	JD	1800	230	ug/Kg
Y1977-03DL	GFSB18-9-11DL	SOIL	Benzo(g,h,i)perylene	1200	JD	1800	300	ug/Kg
Total SVOC's:				18490.00				
Total TIC's:				0.00				
Total SVOC's and TIC's:				18490.00				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1977
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE**OrderID:** Y1977**ProjectID:** LIRR Richmond Hill, Morris**CustomerName:** Gannett Fleming Engineers, LLC**LAB SAMPLE NO.**

Y1977-01

Y1977-02

Y1977-03

Y1977-04

Y1977-05

Y1977-06

CLIENT SAMPLE NO

GFSB04-15-17

GFSB04-40-42

GFSB18-9-11

GFSB18-45-47

GFSB02-20-22

GFSB02-30-35

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred Vreys Name: Mildred VreysDate: 4/3/07 Title: QA/QC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: 41972

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sherry
QA/QC Data Reviewer

04/02/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 10624

NYSDOH Certification No. 11376
NJDEP Certification No. 20012

11577 00004

**TABLE OF CONTENTS
PROJECT NUMBER X1977RQ**

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	06
METHODOLOGY REVIEW & LABORATORY CHRONICLE	12
CONFORMANCE / NON-COFORMANCE SUMMARY	15
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	20
QUALITY CONTROL SUMMARY REPORTS	27
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	40
QUALITY CONTROL SUMMARY REPORTS	50
TOTAL NUMBER OF PAGES	195

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**

CLIENT INFORMATION		REPORT TO BE SENT TO:		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION		
COMPANY: <u>Gannett Fleming</u>		PROJECT NAME: <u>LIRR - Richmond Hill</u>		BILL TO: <u>Gannett Fleming</u>		PO#: _____		
ADDRESS: <u>480 Forest Avenue</u>		PROJECT NO.: <u>45831</u>		LOCATION: <u>Jamica, NY</u>		ADDRESS: <u>480 Forest Avenue</u>		
CITY: <u>Locust Valley</u>		STATE: <u>NY</u>		ZIP: <u>11560</u>		CITY: <u>Locust Valley</u>		
ATTENTION: <u>Frisina</u>		PROJECT MANAGER: <u>Vincent Frisina</u>		PHONE: <u>516-671-8440</u>		STATE: <u>NY</u>		
PHONE: <u>516-671-8440</u>		e-mail: <u>VFrisina@gfnet.com</u>		FAX: <u>516-671-3349</u>		PHONE: <u>516-671-8440</u>		
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS				
FAX: _____		RESULTS ONLY <input type="checkbox"/> USEPA CLP		_____		_____		
HARD COPY: <u>Standard</u>		RESULTS + OC <input type="checkbox"/> New York State ASP "B"		_____		_____		
EDD: _____		New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"		_____		_____		
* TO BE APPROVED BY CHEMTECH		New Jersey CLP <input type="checkbox"/> Other _____		_____		_____		
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		EDD FORMAT _____		_____		_____		
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES	COMMENTS
1.	<u>GFSB04-15-17</u>	<u>SOIL</u>	<u>X</u>	<u>3-12-07</u>	<u>926</u>	<u>2</u>		
2.	<u>GFSB04-40-42</u>	<u>SOIL</u>	<u>X</u>	<u>3-12-07</u>	<u>926</u>	<u>2</u>		
3.	<u>GFSB18-9-11</u>	<u>SOIL</u>	<u>X</u>	<u>3-13-07</u>	<u>824</u>	<u>2</u>		
4.	<u>GFSB18-45-47</u>	<u>SOIL</u>	<u>X</u>	<u>3-13-07</u>	<u>824</u>	<u>2</u>		
5.	<u>GFSB02-20-22</u>	<u>SOIL</u>	<u>X</u>	<u>3-14-07</u>	<u>1310</u>	<u>2</u>		
6.	<u>GFSB02-30-35</u>	<u>SOIL</u>	<u>X</u>	<u>3-14-07</u>	<u>130</u>	<u>2</u>		
7.								
8.								
9.								
10.								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY								
RELINQUISHED BY SAMPLER: <u>Kulley Aime</u>		DATE/TIME: <u>3-16-07 1500</u>		RECEIVED BY: _____		DATE/TIME: _____		COOLER TEMP. <u>4°C</u>
RELINQUISHED BY: _____		DATE/TIME: _____		RECEIVED BY: _____		DATE/TIME: _____		ICE IN COOLER?: <u>4g</u>
RELINQUISHED BY: <u>Fed. Sp</u>		DATE/TIME: <u>3/19/07</u>		RECEIVED FOR LAB BY: <u>Subma</u>		DATE/TIME: _____		
SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> OVERNIGHT		CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT		Page _____ of _____		SHIPMENT COMPLETE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		



284 Sheffield Street Mountainside NJ 07092 Tel. 908-789-8900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

Y1977 : 00008

EXX USA Airbill

FedEx Tracking Number

811927049917

0200

FedEx Retrieval Copy

15.07 Sender's FedEx Account Number 011504450

Simberly Simone Phone (516) 671-8440

Jannett Fleming

180 Forest Ave

Locust Valley State NY ZIP 11560

Original Billing Reference Information

Receiving department

hemitech

284 Sheffield St.

Mountainside State NJ ZIP 07092

Hold Weekday 31 Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only) For WEEKEND Delivery check here 3 Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only) 33 NEW Sunday Delivery (Available for FedEx Priority Overnight only)

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Express Freight Service Packages over 150 lbs. FedEx Overnight Freight FedEx 2Day Freight FedEx Express Saver Freight (Next business day) (Next business day) (Earliest next business day)

Packaging 6 FedEx Letter 2 FedEx Pak 3 FedEx Box 4 FedEx Tube 1 Other

Special Handling Does this shipment contain dangerous goods? No 4 Yes (When you must be notified) Yes (When you must be notified) Yes (When you must be notified) 6 Dry Ice (When you must be notified) CAC Cargo Aircraft Only

Payment Bill to: 1 Sender 2 Freight 3 Third Party 4 Credit Card 5 Cash/Check (When you must be notified) (When you must be notified) (When you must be notified) (When you must be notified) (When you must be notified)

FedEx Account No. 322

Total Packages 1 Total Weight Total Charges \$ Credit Card Auth.

Release Signature

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322

Rev. Date 3/98 Part #153024 ©1998 FedEx International, Inc. GBPE 200



Y1977:00009

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

- Value If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J** Indicates an estimated value. This flag is used:
- (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
- B** Indicates the analyte was found in the blank as well as the sample report as "12 B".
- E** Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- D** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- P** This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
- N** This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: 41977

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?
- All runlogs reviewed for manual integration requirements

1st Level QA Review Signature: *[Signature]* Date: 04/02/07

2nd Level QA Review Signature: *[Signature]* Date: 4/13/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**



Lab Chronicle

Order ID: Y1977
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 3/19/2007 1:31:20 PM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: L63

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1977-01	GFSB04-15-17	SOIL	<u>VOC-STARS</u>	8260	03/12/07		03/23/07	03/19/07
Y1977-02	GFSB04-40-42	SOIL	<u>VOC-STARS</u>	8260	03/12/07		03/23/07	03/19/07
Y1977-03	GFSB18-9-11	SOIL	<u>VOC-STARS</u>	8260	03/13/07		03/23/07	03/19/07
Y1977-04	GFSB18-45-47	SOIL	<u>VOC-STARS</u>	8260	03/13/07		03/24/07	03/19/07
Y1977-05	GFSB02-20-22	SOIL	<u>VOC-STARS</u>	8260	03/14/07		03/23/07	03/19/07
Y1977-06	GFSB02-30-35	SOIL	<u>VOC-STARS</u>	8260	03/14/07		03/23/07	03/19/07

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Lab Chronicle

Order ID: Y1977
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 3/19/2007 1:31:20 PM
Project: LJRR Richmond Hill, Morris Park GF 045813.005
Location: L63

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1977-01	GFSB04-15-17	SOIL	<u>SVOC-STARS</u>	8270	03/12/07	03/20/07	03/21/07	03/19/07
Y1977-01RE	GFSB04-15-17RE	SOIL	<u>SVOC-STARS</u>	8270	03/12/07	03/20/07	03/22/07	03/19/07
Y1977-02	GFSB04-40-42	SOIL	<u>SVOC-STARS</u>	8270	03/12/07	03/20/07	03/20/07	03/19/07
Y1977-03	GFSB18-9-11	SOIL	<u>SVOC-STARS</u>	8270	03/13/07	03/20/07	03/21/07	03/19/07
Y1977-03DL	GFSB18-9-11DL	SOIL	<u>SVOC-STARS</u>	8270	03/13/07	03/20/07	03/22/07	03/19/07
Y1977-04	GFSB18-45-47	SOIL	<u>SVOC-STARS</u>	8270	03/13/07	03/20/07	03/21/07	03/19/07
Y1977-04RE	GFSB18-45-47RE	SOIL	<u>SVOC-STARS</u>	8270	03/13/07	03/20/07	03/21/07	03/19/07
Y1977-05	GFSB02-20-22	SOIL	<u>SVOC-STARS</u>	8270	03/14/07	03/20/07	03/21/07	03/19/07
Y1977-06	GFSB02-30-35	SOIL	<u>SVOC-STARS</u>	8270	03/14/07	03/20/07	03/20/07	03/19/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1977

MATRIX: Solid

METHOD: 8260

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8260 and CLP.			✓
b. System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
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CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

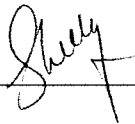
NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable range. The RPD recoveries met criteria. The Blank Spike met requirements for all samples.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: The %RSD is greater than 15% in the Initial Calibration for 1,2,4-Trimethylbenzene and Naphthalene.

QA REVIEW



Date

04/02/07

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1977

MATRIX: Solid

METHOD: 8270

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,
CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | ✓ |
| b. System Performance Check Compounds for 8270 and CLP | | | ✓ |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries, which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for Benzo(a)anthracene. The MSD recoveries met the acceptable requirements except for Benzo(a)anthracene.			
The RPD recoveries met criteria.			
The Blank Spike met requirements for all samples except for Benzo(a)anthracene.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments: The Internal Standards Areas met the acceptable requirements except for GFSB18-45-47, GFSB04-15-17, GFSB18-9-11, GFSB18-45-47RE, GFSB04-15-17RE and GFSB18-9-11DL.			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS: Sample GFSB18-9-11 was diluted due to high concentrations.

QA REVIEW

Sheep

Date

04/03/07

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB04-15-17	SDG No.:	Y1977
Lab Sample ID:	Y1977-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	10
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015382.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.2	U	27	2.2	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	27	2.3	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	6.3	J	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	27	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	8.0	J	27	1.8	ug/Kg
91-20-3	Naphthalene	25	J	27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.6	117 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	56.75	114 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	53.99	108 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	52.45	105 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297302	3.42			
540-36-3	1,4-Difluorobenzene	513223	3.83			
3114-55-4	Chlorobenzene-d5	516425	6.58			
3855-82-1	1,4-Dichlorobenzene-d4	284885	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB04-40-42	SDG No.:	Y1977
Lab Sample ID:	Y1977-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	4
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015383.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.8	U	25	1.8	ug/Kg
71-43-2	Benzene	2.0	U	25	2.0	ug/Kg
108-88-3	Toluene	2.0	U	25	2.0	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	25	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.3	U	25	4.3	ug/Kg
95-47-6	o-Xylene	1.9	U	25	1.9	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	25	2.1	ug/Kg
103-65-1	N-propylbenzene	2.7	U	25	2.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	25	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.6	U	25	3.6	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.9	U	25	1.9	ug/Kg
135-98-8	Sec-butylbenzene	2.1	U	25	2.1	ug/Kg
99-87-6	p-Isopropyltoluene	2.1	U	25	2.1	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	25	1.7	ug/Kg
91-20-3	Naphthalene	17	J	25	2.9	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.11	116 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	59.2	118 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	59.25	119 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	53.43	107 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	318752	3.42			
540-36-3	1,4-Difluorobenzene	532531	3.83			
3114-55-4	Chlorobenzene-d5	537873	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	292849	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-9-11	SDG No.:	Y1977
Lab Sample ID:	Y1977-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015396.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	7.8	J	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	10	J	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	18	J	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	60.34	121 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	58.61	117 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	51.9	104 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	50.64	101 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	292949	3.42
540-36-3	1,4-Difluorobenzene	509724	3.83
3114-55-4	Chlorobenzene-d5	493389	6.59
3855-82-1	1,4-Dichlorobenzene-d4	257755	8.90

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-45-47	SDG No.:	Y1977
Lab Sample ID:	Y1977-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	5
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015431.D	1	3/24/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	14	J	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	12	J	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	6.1	J	26	2.2	ug/Kg
103-65-1	N-propylbenzene	9.8	J	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19	J	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	8.9	J	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	48		26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	76		26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	37		26	2.2	ug/Kg
104-51-8	n-Butylbenzene	99		26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	60.17	120 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	52.69	105 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	49.07	98 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	57.99	116 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	289038	3.43
540-36-3	1,4-Difluorobenzene	542945	3.83
3114-55-4	Chlorobenzene-d5	558958	6.59
3855-82-1	1,4-Dichlorobenzene-d4	327520	8.89

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-20-22	SDG No.:	Y1977
Lab Sample ID:	Y1977-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	18
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015384.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.2	U	30	2.2	ug/Kg
71-43-2	Benzene	2.4	U	30	2.4	ug/Kg
108-88-3	Toluene	2.5	U	30	2.5	ug/Kg
100-41-4	Ethyl Benzene	2.2	U	30	2.2	ug/Kg
126777-61-2	m/p-Xylenes	5.3	U	30	5.3	ug/Kg
95-47-6	o-Xylene	2.3	U	30	2.3	ug/Kg
98-82-8	Isopropylbenzene	2.5	U	30	2.5	ug/Kg
103-65-1	N-propylbenzene	3.3	U	30	3.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	3.0	U	30	3.0	ug/Kg
98-06-6	tert-Butylbenzene	4.4	U	30	4.4	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.3	U	30	2.3	ug/Kg
135-98-8	Sec-butylbenzene	2.5	U	30	2.5	ug/Kg
99-87-6	p-Isopropyltoluene	2.6	U	30	2.6	ug/Kg
104-51-8	n-Butylbenzene	2.1	U	30	2.1	ug/Kg
91-20-3	Naphthalene	3.6	U	30	3.6	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	54.78	110 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	55.04	110 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	54.63	109 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9	100 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	328703	3.43
540-36-3	1,4-Difluorobenzene	551316	3.83
3114-55-4	Chlorobenzene-d5	557385	6.59
3855-82-1	1,4-Dichlorobenzene-d4	286687	8.89

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-30-35	SDG No.:	Y1977
Lab Sample ID:	Y1977-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015385.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.11	114 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	56.14	112 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	56.49	113 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	51.13	102 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	313641	3.42			
540-36-3	1,4-Difluorobenzene	532756	3.83			
3114-55-4	Chlorobenzene-d5	541155	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	282449	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y1977Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSK0323S1	VLCS01	1,2-Dichloroethane-d4	50	55.52	111		75.00	125.00
		Dibromofluoromethane	50	52.58	105		75.00	125.00
		Toluene-d8	50	51.19	102		75.00	125.00
		4-Bromofluorobenzene	50	49.57	99		75.00	125.00
BSK0324S1	VLCS02	1,2-Dichloroethane-d4	50	48.6	97		75.00	125.00
		Dibromofluoromethane	50	51.75	104		75.00	125.00
		Toluene-d8	50	50.03	100		75.00	125.00
		4-Bromofluorobenzene	50	47.77	96		75.00	125.00
VBK0323S1	VBLK01	1,2-Dichloroethane-d4	50	54.02	108		75.00	125.00
		Dibromofluoromethane	50	50.66	101		75.00	125.00
		Toluene-d8	50	49.39	99		75.00	125.00
		4-Bromofluorobenzene	50	46.76	94		75.00	125.00
VBK0324S1	VBLK02	1,2-Dichloroethane-d4	50	46.32	93		75.00	125.00
		Dibromofluoromethane	50	49.86	100		75.00	125.00
		Toluene-d8	50	48.72	97		75.00	125.00
		4-Bromofluorobenzene	50	45.54	91		75.00	125.00
Y1977-01	GFSB04-15-17	1,2-Dichloroethane-d4	50	58.6	117		75.00	125.00
		Dibromofluoromethane	50	56.75	114		75.00	125.00
		Toluene-d8	50	53.99	108		75.00	125.00
		4-Bromofluorobenzene	50	52.45	105		75.00	125.00
Y1977-02	GFSB04-40-42	1,2-Dichloroethane-d4	50	58.11	116		75.00	125.00
		Dibromofluoromethane	50	59.2	118		75.00	125.00
		Toluene-d8	50	59.25	119		75.00	125.00
		4-Bromofluorobenzene	50	53.43	107		75.00	125.00
Y1977-03	GFSB18-9-11	1,2-Dichloroethane-d4	50	60.34	121		75.00	125.00
		Dibromofluoromethane	50	58.61	117		75.00	125.00
		Toluene-d8	50	51.9	104		75.00	125.00
		4-Bromofluorobenzene	50	50.64	101		75.00	125.00
Y1977-04	GFSB18-45-47	1,2-Dichloroethane-d4	50	60.17	120		75.00	125.00
		Dibromofluoromethane	50	52.69	105		75.00	125.00
		Toluene-d8	50	49.07	98		75.00	125.00
		4-Bromofluorobenzene	50	57.99	116		75.00	125.00
Y1977-05	GFSB02-20-22	1,2-Dichloroethane-d4	50	54.78	110		75.00	125.00
		Dibromofluoromethane	50	55.04	110		75.00	125.00
		Toluene-d8	50	54.63	109		75.00	125.00
		4-Bromofluorobenzene	50	49.9	100		75.00	125.00
Y1977-06	GFSB02-30-35	1,2-Dichloroethane-d4	50	57.11	114		75.00	125.00
		Dibromofluoromethane	50	56.14	112		75.00	125.00
		Toluene-d8	50	56.49	113		75.00	125.00
		4-Bromofluorobenzene	50	51.13	102		75.00	125.00
Y2017-01MS	Y2017-01MS	1,2-Dichloroethane-d4	50	54.74	109		75.00	125.00

Surrogate Summary
SW-846

SDG No.: Y1977
Client: Gannett Fleming Engineers, LLC
Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y2017-01MS	Y2017-01MS	Dibromofluoromethane	50	48.5	97		75.00	125.00
		Toluene-d8	50	50.92	102		75.00	125.00
		4-Bromofluorobenzene	50	53.94	108		75.00	125.00
Y2017-01MSD	Y2017-01MSD	1,2-Dichloroethane-d4	50	55.53	111		75.00	125.00
		Dibromofluoromethane	50	49.58	99		75.00	125.00
		Toluene-d8	50	52.08	104		75.00	125.00
		4-Bromofluorobenzene	50	54.94	110		75.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1977

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: Y2017-01MS										
Y2017-01MS	Methyl tert-butyl Ether	250	0.0	250	100			74	149	
	Benzene	250	0.0	230	92			83	135	
	Toluene	250	5.5	230	90			79	140	
	Ethyl Benzene	250	9.4	230	88			82	139	
	m/p-Xylenes	500	30.0	490	92			81	143	
	o-Xylene	250	15.0	250	94			79	144	
	Isopropylbenzene	250	0.0	240	96			80	145	
	N-propylbenzene	250	0.0	240	96			74	160	
	1,3,5-Trimethylbenzene	250	0.0	280	112			78	151	
	tert-Butylbenzene	250	0.0	200	80			75	148	
	1,2,4-Trimethylbenzene	250	0.0	360	144			78	148	
	Sec-butylbenzene	250	0.0	220	88			81	147	
	p-Isopropyltoluene	250	0.0	260	104			75	151	
	n-Butylbenzene	250	0.0	220	88			81	154	
	Naphthalene	250	0.0	350	140			64	161	
Client Sample ID: Y2017-01MSD										
Y2017-01MSD	Methyl tert-butyl Ether	250	0.0	250	100	0		74	149	20
	Benzene	250	0.0	230	92	0		83	135	21
	Toluene	250	5.5	230	90	0		79	140	21
	Ethyl Benzene	250	9.4	230	88	0		82	139	20
	m/p-Xylenes	500	30.0	490	92	0		81	143	20
	o-Xylene	250	15.0	250	94	0		79	144	20
	Isopropylbenzene	250	0.0	240	96	0		80	145	20
	N-propylbenzene	250	0.0	240	96	0		74	160	20
	1,3,5-Trimethylbenzene	250	0.0	270	108	4		78	151	20
	tert-Butylbenzene	250	0.0	210	84	5		75	148	20
	1,2,4-Trimethylbenzene	250	0.0	330	132	9		78	148	20
	Sec-butylbenzene	250	0.0	240	96	9		81	147	20
	p-Isopropyltoluene	250	0.0	280	112	7		75	151	20
	n-Butylbenzene	250	0.0	250	100	13		81	154	20
	Naphthalene	250	0.0	340	136	3		64	161	20

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y2017-01MS	SDG No.:	Y1977
Lab Sample ID:	Y2017-01MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015388.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	250		25	1.8	ug/Kg
71-43-2	Benzene	230		25	2.0	ug/Kg
108-88-3	Toluene	230		25	2.0	ug/Kg
100-41-4	Ethyl Benzene	230		25	1.7	ug/Kg
126777-61-2	m/p-Xylenes	490		25	4.2	ug/Kg
95-47-6	o-Xylene	250		25	1.9	ug/Kg
98-82-8	Isopropylbenzene	240		25	2.0	ug/Kg
103-65-1	N-propylbenzene	240		25	2.6	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	280		25	2.4	ug/Kg
98-06-6	tert-Butylbenzene	200		25	3.5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	360		25	1.9	ug/Kg
135-98-8	Sec-butylbenzene	220		25	2.0	ug/Kg
99-87-6	p-Isopropyltoluene	260		25	2.1	ug/Kg
104-51-8	n-Butylbenzene	220		25	1.7	ug/Kg
91-20-3	Naphthalene	350		25	2.9	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.74	109 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.5	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.92	102 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	53.94	108 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	335793	3.42			
540-36-3	1,4-Difluorobenzene	578916	3.83			
3114-55-4	Chlorobenzene-d5	605090	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	337296	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	Y2017-01MSD	SDG No.:	Y1977
Lab Sample ID:	Y2017-01MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015389.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	250		25	1.8	ug/Kg
71-43-2	Benzene	230		25	2.0	ug/Kg
108-88-3	Toluene	230		25	2.0	ug/Kg
100-41-4	Ethyl Benzene	230		25	1.8	ug/Kg
126777-61-2	m/p-Xylenes	490		25	4.3	ug/Kg
95-47-6	o-Xylene	250		25	1.9	ug/Kg
98-82-8	Isopropylbenzene	240		25	2.1	ug/Kg
103-65-1	N-propylbenzene	240		25	2.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	270		25	2.4	ug/Kg
98-06-6	tert-Butylbenzene	210		25	3.5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	330		25	1.9	ug/Kg
135-98-8	Sec-butylbenzene	240		25	2.1	ug/Kg
99-87-6	p-Isopropyltoluene	280		25	2.1	ug/Kg
104-51-8	n-Butylbenzene	250		25	1.7	ug/Kg
91-20-3	Naphthalene	340		25	2.9	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	55.53	111 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.58	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	52.08	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	54.94	110 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	350839	3.42			
540-36-3	1,4-Difluorobenzene	592060	3.83			
3114-55-4	Chlorobenzene-d5	625028	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	355212	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1977

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0323S1	Methyl tert-butyl Ether	20	20	100			70	130	
	Benzene	20	17	85			70	130	
	Toluene	20	17	85			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	34	85			70	130	
	o-Xylene	20	17	85			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	17	85			70	130	
	1,3,5-Trimethylbenzene	20	18	90			70	130	
	tert-Butylbenzene	20	18	90			70	130	
	1,2,4-Trimethylbenzene	20	18	90			70	130	
	Sec-butylbenzene	20	18	90			70	130	
	p-Isopropyltoluene	20	18	90			70	130	
	n-Butylbenzene	20	17	85			70	130	
	Naphthalene	20	17	85			70	130	
	BSK0324S1	Methyl tert-butyl Ether	20	19	95			70	130
Benzene		20	18	90			70	130	
Toluene		20	18	90			70	130	
Ethyl Benzene		20	18	90			70	130	
m/p-Xylenes		40	36	90			70	130	
o-Xylene		20	18	90			70	130	
Isopropylbenzene		20	18	90			70	130	
N-propylbenzene		20	18	90			70	130	
1,3,5-Trimethylbenzene		20	19	95			70	130	
tert-Butylbenzene		20	19	95			70	130	
1,2,4-Trimethylbenzene		20	18	90			70	130	
Sec-butylbenzene		20	18	90			70	130	
p-Isopropyltoluene		20	18	90			70	130	
n-Butylbenzene		20	18	90			70	130	
Naphthalene		20	18	90			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1977
Lab Sample ID:	BSK0323S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015376.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	20		5.0	0.37	ug/Kg
71-43-2	Benzene	17		5.0	0.40	ug/Kg
108-88-3	Toluene	17		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	17		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	34		5.0	0.86	ug/Kg
95-47-6	o-Xylene	17		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	18		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	17		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	18		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	18		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	18		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	18		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	18		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	17		5.0	0.34	ug/Kg
91-20-3	Naphthalene	17		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.52	111 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	52.58	105 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.19	102 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	49.57	99 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	349165	3.42			
540-36-3	1,4-Difluorobenzene	593339	3.83			
3114-55-4	Chlorobenzene-d5	619894	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	355102	8.90			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y1977
Lab Sample ID:	BSK0324S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015408.D	1	3/24/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	19		5.0	0.37	ug/Kg
71-43-2	Benzene	18		5.0	0.40	ug/Kg
108-88-3	Toluene	18		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	18		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	36		5.0	0.86	ug/Kg
95-47-6	o-Xylene	18		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	18		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	18		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	19		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	18		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	18		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	18		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	18		5.0	0.34	ug/Kg
91-20-3	Naphthalene	18		5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.6	97 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.75	104 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.03	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.77	96 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	393513	3.42
540-36-3	1,4-Difluorobenzene	637309	3.83
3114-55-4	Chlorobenzene-d5	647089	6.59
3855-82-1	1,4-Dichlorobenzene-d4	375198	8.89

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CTECH Case No.: Y1977 SAS No.: Y1977 SDG NO.: Y1977
 Lab File ID: VK015375.D Lab Sample ID: VBK0323S1
 Date Analyzed: 3/23/2007 Time Analyzed: 11:03
 GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y
 Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK0323S1	VK015376.D	11:38
GFSB04-15-17	Y1977-01	VK015382.D	14:41
GFSB04-40-42	Y1977-02	VK015383.D	15:07
GFSB02-20-22	Y1977-05	VK015384.D	15:33
GFSB02-30-35	Y1977-06	VK015385.D	15:59
Y2017-01MS	Y2017-01MS	VK015388.D	17:17
Y2017-01MSD	Y2017-01MSD	VK015389.D	17:43
GFSB18-9-11	Y1977-03	VK015396.D	20:45

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: GANN01
Lab Code: CTECH Case No.: Y1977 SAS No.: Y1977 SDG NO.: Y1977
Lab File ID: VK015407.D Lab Sample ID: VBK0324S1
Date Analyzed: 3/24/2007 Time Analyzed: 12:08
GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y
Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSK0324S1	VK015408.D	12:41
GFSB18-45-47	Y1977-04	VK015431.D	22:42

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1977
Lab Sample ID:	VBK0323S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015375.D	1	3/23/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	54.02	108 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	50.66	101 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	49.39	99 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	46.76	94 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	344108	3.42
540-36-3	1,4-Difluorobenzene	592362	3.83
3114-55-4	Chlorobenzene-d5	607991	6.60
3855-82-1	1,4-Dichlorobenzene-d4	329566	8.90

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y1977
Lab Sample ID:	VBK0324S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015407.D	1	3/24/2007	VK031207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.32	93 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.86	100 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.72	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.54	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	400940	3.42			
540-36-3	1,4-Difluorobenzene	656656	3.83			
3114-55-4	Chlorobenzene-d5	659744	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	361270	8.90			

U = Not Detected
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 N = Presumptive Evidence of a Compound

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TABULATED ANALYTICAL RESULTS

GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB04-15-17	SDG No.:	Y1977
Lab Sample ID:	Y1977-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	10
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030873.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	65	U	360	65	ug/Kg
86-73-7	Fluorene	62	U	360	62	ug/Kg
85-01-8	Phenanthrene	58	U	360	58	ug/Kg
120-12-7	Anthracene	55	U	360	55	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	65	U	360	65	ug/Kg
56-55-3	Benzo(a)anthracene	51	U	360	51	ug/Kg
218-01-9	Chrysene	66	U	360	66	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	80	U	360	80	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	46	U	360	46	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.93	69 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	64.91	65 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	113.08	113 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	315965	6.04			
1146-65-2	Naphthalene-d8	1303880	7.97			
15067-26-2	Acenaphthene-d10	656473	10.83			
1517-22-2	Phenanthrene-d10	870769	13.29			
1719-03-5	Chrysene-d12	584037	17.69			
1520-96-3	Perylene-d12	583141	20.92			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB04-15-17RE	SDG No.:	Y1977
Lab Sample ID:	Y1977-01RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	10
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030906.D	1	3/20/2007	3/22/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	65	U	360	65	ug/Kg
86-73-7	Fluorene	62	U	360	62	ug/Kg
85-01-8	Phenanthrene	58	U	360	58	ug/Kg
120-12-7	Anthracene	55	U	360	55	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	65	U	360	65	ug/Kg
56-55-3	Benzo(a)anthracene	51	U	360	51	ug/Kg
218-01-9	Chrysene	66	U	360	66	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	80	U	360	80	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	46	U	360	46	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.1	69 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	68.27	68 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	118.64	119 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	311704	6.03			
1146-65-2	Naphthalene-d8	1248032	7.97			
15067-26-2	Acenaphthene-d10	624737	10.83			
1517-22-2	Phenanthrene-d10	793042	13.30			
1719-03-5	Chrysene-d12	523096	17.70			
1520-96-3	Perylene-d12	511481	20.92			

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 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

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 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/12/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB04-40-42	SDG No.:	Y1977
Lab Sample ID:	Y1977-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	4
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030871.D	1	3/20/2007	3/20/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	61	U	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.41	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	77.15	77 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	86.18	86 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	277484	6.04			
1146-65-2	Naphthalene-d8	1005130	7.96			
15067-26-2	Acenaphthene-d10	523251	10.82			
1517-22-2	Phenanthrene-d10	826630	13.28			
1719-03-5	Chrysene-d12	845218	17.69			
1520-96-3	Perylene-d12	786311	20.92			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-9-11	SDG No.:	Y1977
Lab Sample ID:	Y1977-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030878.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	420		360	61	ug/Kg
83-32-9	Acenaphthene	420		360	64	ug/Kg
86-73-7	Fluorene	400		360	60	ug/Kg
85-01-8	Phenanthrene	3000	E	360	57	ug/Kg
120-12-7	Anthracene	950		360	54	ug/Kg
206-44-0	Fluoranthene	3300	E	360	53	ug/Kg
129-00-0	Pyrene	3600	E	360	63	ug/Kg
56-55-3	Benzo(a)anthracene	1200		360	50	ug/Kg
218-01-9	Chrysene	1200		360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	3600	E	360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100		360	79	ug/Kg
50-32-8	Benzo(a)pyrene	2100		360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	49	J	360	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	330	J	360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	63.25	63 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	55.74	56 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	76.56	77 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	320752	6.03			
1146-65-2	Naphthalene-d8	1509514	7.97			
15067-26-2	Acenaphthene-d10	701866	10.85			
1517-22-2	Phenanthrene-d10	1020983	13.31			
1719-03-5	Chrysene-d12	864533	17.72			
1520-96-3	Perylene-d12	144367	20.96			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-9-11DL	SDG No.:	Y1977
Lab Sample ID:	Y1977-03DL	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030909.D	5	3/20/2007	3/22/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	440	JD	1800	310	ug/Kg
83-32-9	Acenaphthene	420	JD	1800	320	ug/Kg
86-73-7	Fluorene	350	JD	1800	300	ug/Kg
85-01-8	Phenanthrene	2900	D	1800	290	ug/Kg
120-12-7	Anthracene	830	JD	1800	270	ug/Kg
206-44-0	Fluoranthene	2700	D	1800	270	ug/Kg
129-00-0	Pyrene	2600	D	1800	320	ug/Kg
56-55-3	Benzo(a)anthracene	1100	JD	1800	250	ug/Kg
218-01-9	Chrysene	1200	JD	1800	320	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900	D	1800	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	590	JD	1800	390	ug/Kg
50-32-8	Benzo(a)pyrene	1600	JD	1800	290	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	660	JD	1800	230	ug/Kg
53-70-3	Dibenz(a,h)anthracene	220	UD	1800	220	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200	JD	1800	300	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.55	73 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.55	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	56.9	57 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	302029	6.03			
1146-65-2	Naphthalene-d8	1117220	7.96			
15067-26-2	Acenaphthene-d10	513815	10.83			
1517-22-2	Phenanthrene-d10	648060	13.29			
1719-03-5	Chrysene-d12	552290	17.71			
1520-96-3	Perylene-d12	333411	20.92			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-45-47	SDG No.:	Y1977
Lab Sample ID:	Y1977-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	5
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030872.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	190	J	340	62	ug/Kg
86-73-7	Fluorene	270	J	340	58	ug/Kg
85-01-8	Phenanthrene	730		340	55	ug/Kg
120-12-7	Anthracene	85	J	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	74	J	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66	66 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	56.88	57 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	107.69	108 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	284947	6.04			
1146-65-2	Naphthalene-d8	1261610	7.96			
15067-26-2	Acenaphthene-d10	702163	10.84			
1517-22-2	Phenanthrene-d10	926978	13.31			
1719-03-5	Chrysene-d12	584627	17.70			
1520-96-3	Perylene-d12	563285	20.92			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/13/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB18-45-47RE	SDG No.:	Y1977
Lab Sample ID:	Y1977-04RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	5
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030905.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	170	J	340	62	ug/Kg
86-73-7	Fluorene	270	J	340	58	ug/Kg
85-01-8	Phenanthrene	740		340	55	ug/Kg
120-12-7	Anthracene	80	J	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	72	J	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.34	66 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	56.38	56 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	111.18	111 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	274161	6.04			
1146-65-2	Naphthalene-d8	1277778	7.97			
15067-26-2	Acenaphthene-d10	695718	10.85			
1517-22-2	Phenanthrene-d10	895051	13.31			
1719-03-5	Chrysene-d12	527662	17.70			
1520-96-3	Perylene-d12	523535	20.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-20-22	SDG No.:	Y1977
Lab Sample ID:	Y1977-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	18
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030869.D	1	3/20/2007	3/20/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	68	U	400	68	ug/Kg
83-32-9	Acenaphthene	71	U	400	71	ug/Kg
86-73-7	Fluorene	68	U	400	68	ug/Kg
85-01-8	Phenanthrene	64	U	400	64	ug/Kg
120-12-7	Anthracene	60	U	400	60	ug/Kg
206-44-0	Fluoranthene	60	U	400	60	ug/Kg
129-00-0	Pyrene	71	U	400	71	ug/Kg
56-55-3	Benzo(a)anthracene	56	U	400	56	ug/Kg
218-01-9	Chrysene	72	U	400	72	ug/Kg
205-99-2	Benzo(b)fluoranthene	44	U	400	44	ug/Kg
207-08-9	Benzo(k)fluoranthene	88	U	400	88	ug/Kg
50-32-8	Benzo(a)pyrene	64	U	400	64	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	51	U	400	51	ug/Kg
53-70-3	Dibenz(a,h)anthracene	50	U	400	50	ug/Kg
191-24-2	Benzo(g,h,i)perylene	66	U	400	66	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.8	75 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	78.68	79 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	72.44	72 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	276508	6.04			
1146-65-2	Naphthalene-d8	988434	7.96			
15067-26-2	Acenaphthene-d10	514150	10.82			
1517-22-2	Phenanthrene-d10	852212	13.28			
1719-03-5	Chrysene-d12	1034391	17.69			
1520-96-3	Perylene-d12	942150	20.92			

U = Not Detected
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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-30-35	SDG No.:	Y1977
Lab Sample ID:	Y1977-06	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030870.D	1	3/20/2007	3/20/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	63	U	350	63	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.53	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	76.36	76 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	72.3	72 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	265212	6.03			
1146-65-2	Naphthalene-d8	969407	7.97			
15067-26-2	Acenaphthene-d10	517582	10.83			
1517-22-2	Phenanthrene-d10	804053	13.29			
1719-03-5	Chrysene-d12	976894	17.70			
1520-96-3	Perylene-d12	888054	20.92			

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 E = Value Exceeds Calibration Range

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CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Surrogate Summary
SW-846

SDG No.: Y1977

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25683B	SBLK01	Nitrobenzene-d5	100	71.97	72		23.00	120.00
		2-Fluorobiphenyl	100	82.79	83		30.00	116.00
		Terphenyl-d14	100	73.23	73		18.00	137.00
PB25683BS	SLCS01	Nitrobenzene-d5	100	71.72	72		23.00	120.00
		2-Fluorobiphenyl	100	77.79	78		30.00	116.00
		Terphenyl-d14	100	63.87	64		18.00	137.00
Y1977-01	GFSB04-15-17	Nitrobenzene-d5	100	68.93	69		23.00	120.00
		2-Fluorobiphenyl	100	64.91	65		30.00	116.00
		Terphenyl-d14	100	113.08	113		18.00	137.00
Y1977-01RE	GFSB04-15-17RE	Nitrobenzene-d5	100	69.1	69		23.00	120.00
		2-Fluorobiphenyl	100	68.27	68		30.00	116.00
		Terphenyl-d14	100	118.64	119		18.00	137.00
Y1977-02	GFSB04-40-42	Nitrobenzene-d5	100	72.41	72		23.00	120.00
		2-Fluorobiphenyl	100	77.15	77		30.00	116.00
		Terphenyl-d14	100	86.18	86		18.00	137.00
Y1977-03	GFSB18-9-11	Nitrobenzene-d5	100	63.25	63		23.00	120.00
		2-Fluorobiphenyl	100	55.74	56		30.00	116.00
		Terphenyl-d14	100	76.56	77		18.00	137.00
Y1977-03DL	GFSB18-9-11DL	Nitrobenzene-d5	100	72.55	73		23.00	120.00
		2-Fluorobiphenyl	100	69.55	70		30.00	116.00
		Terphenyl-d14	100	56.9	57		18.00	137.00
Y1977-04	GFSB18-45-47	Nitrobenzene-d5	100	66	66		23.00	120.00
		2-Fluorobiphenyl	100	56.88	57		30.00	116.00
		Terphenyl-d14	100	107.69	108		18.00	137.00
Y1977-04RE	GFSB18-45-47RE	Nitrobenzene-d5	100	66.34	66		23.00	120.00
		2-Fluorobiphenyl	100	56.38	56		30.00	116.00
		Terphenyl-d14	100	111.18	111		18.00	137.00
Y1977-05	GFSB02-20-22	Nitrobenzene-d5	100	74.8	75		23.00	120.00
		2-Fluorobiphenyl	100	78.68	79		30.00	116.00
		Terphenyl-d14	100	72.44	72		18.00	137.00
Y1977-06	GFSB02-30-35	Nitrobenzene-d5	100	71.53	72		23.00	120.00
		2-Fluorobiphenyl	100	76.36	76		30.00	116.00
		Terphenyl-d14	100	72.3	72		18.00	137.00
Y1977-06MS	GFSB02-30-35MS	Nitrobenzene-d5	100	69.98	70		23.00	120.00
		2-Fluorobiphenyl	100	74.84	75		30.00	116.00
		Terphenyl-d14	100	65.52	66		18.00	137.00
Y1977-06MSD	GFSB02-30-35MSD	Nitrobenzene-d5	100	65.5	66		23.00	120.00
		2-Fluorobiphenyl	100	71.88	72		30.00	116.00
		Terphenyl-d14	100	58.7	59		18.00	137.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary SW-846

SDG No.: Y1977

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID: Y1977-06MS		Client Sample ID:	GFSB02-30-35MS							
Naphthalene	1800	0	1200	67				34	120	
Acenaphthene	1800	0	1200	67				65	100	
Fluorene	1800	0	1200	67				47	117	
Phenanthrene	1800	0	1200	67				20	150	
Anthracene	1800	0	1300	72				54	108	
Fluoranthene	1800	0	1200	67				55	105	
Pyrene	1800	0	980	54				20	150	
Benzo(a)anthracene	1800	0	990	55	*			60	100	
Chrysene	1800	0	1100	61				51	115	
Indeno(1,2,3-cd)pyrene	1800	0	1100	61				42	124	
Benzo(b)fluoranthene	1800	0	1100	61				42	126	
Benzo(k)fluoranthene	1800	0	1100	61				43	125	
Benzo(a)pyrene	1800	0	1200	67				58	102	
Dibenz(a,h)anthracene	1800	0	1500	83				41	130	
Benzo(g,h,i)perylene	1800	0	1300	72				39	130	
Lab Sample ID: Y1977-06MSD		Client Sample ID:	GFSB02-30-35MSD							
Naphthalene	1800	0	1200	67		0		34	120	50
Acenaphthene	1800	0	1300	72		7		65	100	50
Fluorene	1800	0	1300	72		7		47	117	50
Phenanthrene	1800	0	1300	72		7		20	150	50
Anthracene	1800	0	1300	72		0		54	108	50
Fluoranthene	1800	0	1300	72		7		55	105	50
Pyrene	1800	0	1000	56		4		20	150	50
Benzo(a)anthracene	1800	0	1000	56		2		60	100	50
Chrysene	1800	0	1100	61		0		51	115	50
Indeno(1,2,3-cd)pyrene	1800	0	1100	61		0		42	124	50
Benzo(b)fluoranthene	1800	0	1200	67		9		42	126	50
Benzo(k)fluoranthene	1800	0	1200	67		9		43	125	50
Benzo(a)pyrene	1800	0	1300	72		7		58	102	50
Dibenz(a,h)anthracene	1800	0	1500	83		0		41	130	50
Benzo(g,h,i)perylene	1800	0	1400	78		8		39	130	50

59
09/03/07

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1977

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25683BS	Naphthalene	1700	1100	65			34	120	
	Acenaphthene	1700	1200	71			65	100	
	Fluorene	1700	1200	71			47	117	
	Phenanthrene	1700	1200	71			20	150	
	Anthracene	1700	1200	71			54	108	
	Fluoranthene	1700	1200	71			55	105	
	Pyrene	1700	900	53			20	150	
	Benzo(a)anthracene	1700	920	54		*	60	100	
	Chrysene	1700	1000	59			51	115	
	Indeno(1,2,3-cd)pyrene	1700	1100	65			42	124	
	Benzo(b)fluoranthene	1700	1100	65			42	126	
	Benzo(k)fluoranthene	1700	1100	65			43	125	
	Benzo(a)pyrene	1700	1100	65			58	102	
	Dibenz(a,h)anthracene	1700	1300	76			41	130	
	Benzo(g,h,i)perylene	1700	1300	76			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-30-35MS	SDG No.:	Y1977
Lab Sample ID:	Y1977-06MS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030888.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1200		350	60	ug/Kg
83-32-9	Acenaphthene	1200		350	62	ug/Kg
86-73-7	Fluorene	1200		350	59	ug/Kg
85-01-8	Phenanthrene	1200		350	56	ug/Kg
120-12-7	Anthracene	1300		350	53	ug/Kg
206-44-0	Fluoranthene	1200		350	52	ug/Kg
129-00-0	Pyrene	980		350	62	ug/Kg
56-55-3	Benzo(a)anthracene	990		350	49	ug/Kg
218-01-9	Chrysene	1100		350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100		350	77	ug/Kg
50-32-8	Benzo(a)pyrene	1200		350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1500		350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.98	70 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	74.84	75 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	65.52	66 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	292113		6.02		
1146-65-2	Naphthalene-d8	1061755		7.95		
15067-26-2	Acenaphthene-d10	533269		10.82		
1517-22-2	Phenanthrene-d10	869489		13.27		
1719-03-5	Chrysene-d12	1139063		17.69		
1520-96-3	Perylene-d12	833722		20.91		

U = Not Detected
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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/14/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	3/19/2007
Client Sample ID:	GFSB02-30-35MSD	SDG No.:	Y1977
Lab Sample ID:	Y1977-06MSD	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030889.D	1	3/20/2007	3/21/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1200		350	60	ug/Kg
83-32-9	Acenaphthene	1300		350	62	ug/Kg
86-73-7	Fluorene	1300		350	59	ug/Kg
85-01-8	Phenanthrene	1300		350	56	ug/Kg
120-12-7	Anthracene	1300		350	53	ug/Kg
206-44-0	Fluoranthene	1300		350	52	ug/Kg
129-00-0	Pyrene	1000		350	62	ug/Kg
56-55-3	Benzo(a)anthracene	1000		350	49	ug/Kg
218-01-9	Chrysene	1100		350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	1200		350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	1200		350	77	ug/Kg
50-32-8	Benzo(a)pyrene	1300		350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1500		350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	65.5	66 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	71.88	72 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	58.7	59 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	314306		6.03		
1146-65-2	Naphthalene-d8	1150093		7.95		
15067-26-2	Acenaphthene-d10	560761		10.82		
1517-22-2	Phenanthrene-d10	928746		13.28		
1719-03-5	Chrysene-d12	1218336		17.69		
1520-96-3	Perylene-d12	859821		20.90		

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y1977
Lab Sample ID:	PB25683BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030862.D	1	3/20/2007	3/20/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1100		330	56	ug/Kg
83-32-9	Acenaphthene	1200		330	59	ug/Kg
86-73-7	Fluorene	1200		330	56	ug/Kg
85-01-8	Phenanthrene	1200		330	53	ug/Kg
120-12-7	Anthracene	1200		330	50	ug/Kg
206-44-0	Fluoranthene	1200		330	49	ug/Kg
129-00-0	Pyrene	900		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	920		330	46	ug/Kg
218-01-9	Chrysene	1000		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1100		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1100		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1300		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.72	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	77.79	78 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	63.87	64 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	283292		6.04		
1146-65-2	Naphthalene-d8	1025138		7.97		
15067-26-2	Acenaphthene-d10	518912		10.84		
1517-22-2	Phenanthrene-d10	894190		13.29		
1719-03-5	Chrysene-d12	1255718		17.72		
1520-96-3	Perylene-d12	968730		20.94		

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SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01

Lab Code: CHEM Case No.: Y1977 SAS No.: Y1977 SDG NO.: Y1977

Lab File ID: BA030861.D Lab Sample ID: PB25683B

Instrument ID: BNAA Date Extracted: 3/20/2007

Matrix: (soil/water) SOIL Date Analyzed: 3/20/2007

Level: (low/med) LOW Time Analyzed: 17:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25683BS	BA030862.D	3/20/2007
02	GFSB02-20-22	Y1977-05	BA030869.D	3/20/2007
03	GFSB02-30-35	Y1977-06	BA030870.D	3/20/2007
04	GFSB04-40-42	Y1977-02	BA030871.D	3/20/2007
05	GFSB18-45-47	Y1977-04	BA030872.D	3/21/2007
06	GFSB04-15-17	Y1977-01	BA030873.D	3/21/2007
07	GFSB18-9-11	Y1977-03	BA030878.D	3/21/2007
08	GFSB02-30-35MS	Y1977-06MS	BA030888.D	3/21/2007
09	GFSB02-30-35MSD	Y1977-06MSD	BA030889.D	3/21/2007
10	GFSB18-45-47RE	Y1977-04RE	BA030905.D	3/21/2007
11	GFSB04-15-17RE	Y1977-01RE	BA030906.D	3/22/2007
12	GFSB18-9-11DL	Y1977-03DL	BA030909.D	3/22/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y1977
Lab Sample ID:	PB25683B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA030861.D	1	3/20/2007	3/20/2007	BA022707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.97	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	82.79	83 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	73.23	73 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	317966	6.04			
1146-65-2	Naphthalene-d8	1122697	7.97			
15067-26-2	Acenaphthene-d10	581957	10.83			
1517-22-2	Phenanthrene-d10	993307	13.29			
1719-03-5	Chrysene-d12	1199820	17.70			
1520-96-3	Perylene-d12	1093470	20.93			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: Morris Park LIRR****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y2057
Vincent Frisina**

Hit Summary Report

SDG No.: Y2057

Order ID: Y2057

Client: Gannett Fleming Engineers, LLC

Project ID: Morris Park LIRR

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB26-9-11							
Y2057-04	GFSB26-9-11	SOIL	Phenanthrene	71	J	350	56	ug/Kg
Y2057-04	GFSB26-9-11	SOIL	Pyrene	63	J	350	62	ug/Kg
			Total SVOC's:	134.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	134.00				

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: Morris Park LIRR

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y2057
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

OrderID: Y2057 **ProjectID:** Morris Park LIRR
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y2057-01	GFSB27-7-9
Y2057-02	GFSB27-35-37
Y2057-03	GFSB26-35-37
Y2057-04	GFSB26-9-11
Y2057-05	GFSB24-15-17
Y2057-06	GFSB24-30-32

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred U Reyes Name: Mildred U Reyes
Date: 4/5/07 Title: COA/LOC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: Y2057

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Zh. Roham

QA/QC Data Reviewer

04/05/07

Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 10624

NYSDOH Certification No. 11376
NJDEP Certification No. 20012

Y2057 : 000000

**TABLE OF CONTENTS
PROJECT NUMBER Y2057RQ**

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	06
METHODOLOGY REVIEW & LABORATORY CHRONICLE	12
CONFORMANCE / NON-COFORMANCE SUMMARY	15
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	20
QUALITY CONTROL SUMMARY REPORTS	27
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	34
QUALITY CONTROL SUMMARY REPORTS	41
TOTAL NUMBER OF PAGES	48

CHEMTECH

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Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**

CHAIN OF CUSTODY RECORD

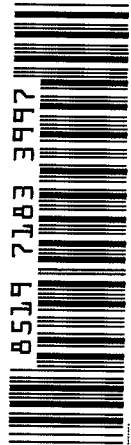
CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION											
COMPANY: <u>Gannett Fleming</u> ADDRESS: <u>480 Forest Ave</u> CITY: <u>Locust Valley</u> STATE: <u>NY</u> ZIP: <u>11560</u> ATTENTION: <u>V. Frisina</u> PHONE: <u>516-641-8440</u> FAX: <u>516-641-3349</u>		PROJECT NAME: <u>LIBR</u> PROJECT NO.: <u>45813</u> LOCATION: <u>Morris Park</u> PROJECT MANAGER: <u>V. Frisina</u> e-mail: <u>Vfrisina@gfnet.com</u> PHONE: <u>516-641-8440</u> FAX: <u>516-641-3349</u>		BILL TO: <u>Gannett Fleming</u> PO#: ADDRESS: <u>480 Forest Ave</u> CITY: <u>Locust Valley</u> STATE: <u>NY</u> ZIP: <u>11560</u> ATTENTION: <u>V. Frisina</u> PHONE: <u>516-641-8440</u>											
DATA TURNAROUND INFORMATION DAYS: _____ HARD COPY: _____ EDD: _____ * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		DATA DELIVERABLE INFORMATION <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> EDD FORMAT		ANALYSIS 1 2 3 4 5 6 7 8 9 PRESERVATIVES											
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	1	2	3	4	5	6	7	8	9	COMMENTS
1.	GFSB27-74	SOIL	X	3/21/07	1129		X								
2.	GFSB27-35-37	SOIL	X	3/21/07	1129		X								
3.	GFSB26-35-37	SOIL	X	3/20/07	1205		X								
4.	GFSB26-9-11	SOIL	X	3/20/07	1205		X								
5.	GFSB24-15-17	SOIL	X	3/22/07	1800		X								
6.	GFSB24-30-32	SOIL	X	3/22/07	1800		X								
7.	GFSB23-25-27	SOIL	X	3/23/07	1650		X								
8.	GFSB23-30-32	SOIL	X	3/23/07	1650		X								
9.															
10.															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY															
RELINQUISHED BY SAMPLER: <u>Amy Ann</u> DATE/TIME: <u>3/23/07 1700</u>		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____	
RELINQUISHED BY: <u>FED SA</u> DATE/TIME: <u>3/24/07</u>		RECEIVED FOR LAB BY: <u>SREGA ALBEM</u> DATE/TIME: <u>10/3/07</u>		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____		RECEIVED BY: _____ DATE/TIME: _____	
COMMENTS: MeOH extraction requires an additional 4 oz jar for percent solid.		Conditions of bottles or coolers at receipt: <input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant Cooler Temp. <u>6°C</u> Ice in Cooler?: <u>YES</u>		SHIPPED VIA CLIENT: <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> OVERNIGHT CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT		Page <u>1</u> of <u>1</u>		Shipment Complete: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO							

1 From
Date: 5/29/97
Sender's Name: [Redacted]
Company: [Redacted]
Address: [Redacted]
City: [Redacted] State: NY ZIP: 11560
Phone: 516 211 5410

2 Your Internal Billing Reference

3 To
Recipient's Name: Superdata
Company: Chemtech
Address: [Redacted]
City: [Redacted] State: NY ZIP: 07012
Phone: [Redacted]

We cannot deliver to P.O. boxes or P.O. ZIP codes.
To require a package be held at a specific FedEx location, print FedEx address here.



Recipient's copy

4a Express Package Service
 FedEx Priority Overnight
 FedEx Standard Overnight
 FedEx First Overnight
 FedEx 2Day
 FedEx Express Saver

4b Express Freight Service
 FedEx 1Day Freight
 FedEx 2Day Freight
 FedEx 3Day Freight

5 Packaging
 FedEx Envelope*
 FedEx Pak*
 FedEx Box
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location
 CARGO AIRCRAFT ONLY

7 Payment
 Sender
 Recipient
 Third Party
 Credit Card
 Cash/Check

8 Sign to Authorize Delivery Without a Signature

Total Packages: [Redacted]
 Total Weight: [Redacted]
 Total Declared Value: \$ [Redacted]
 Total Charges: [Redacted]
 Credit Card Acct. No.: [Redacted]

467

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify us and our licensees from any resulting claims. Questions? Visit our Web site at fedex.com or call 1.800.FEDEX.1.800.463.3333. Rev. Date 11/03/94 AT 1523280 © 1994-2003 FedEx. PRINTED IN U.S.A. MWMA 05



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Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

Y2057 : 00009

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

- Value If the result is a value greater than or equal to the detection limit, report the value
- U Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J Indicates an estimated value. This flag is used:
(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
- B Indicates the analyte was found in the blank as well as the sample report as "12 B".
- E Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- P This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
- N This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y2057

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?
- All runlogs reviewed for manual integration requirements

1st Level QA Review Signature: Zh. Rohan Date: 04/05/07

2nd Level QA Review Signature: Mildred Keys Date: 4/5/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**

CHEMTECH

Lab Chronicle

Order ID:
Client:
Contact:

Y2057
Gannett Fleming Engineers, LLC
Vincent Frisina

Order Date: 3/26/2007 4:47:27 PM
Project: Morris Park LIRR
Location: M53

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y2057-01	GFSB27-7-9	SOIL	<u>VOC-STARS</u>	8260	03/21/07		03/30/07	03/24/07
Y2057-02	GFSB27-35-37	SOIL	<u>VOC-STARS</u>	8260	03/21/07		03/31/07	03/24/07
Y2057-03	GFSB26-35-37	SOIL	<u>VOC-STARS</u>	8260	03/20/07		03/31/07	03/24/07
Y2057-04	GFSB26-9-11	SOIL	<u>VOC-STARS</u>	8260	03/20/07		03/31/07	03/24/07
Y2057-05	GFSB24-15-17	SOIL	<u>VOC-STARS</u>	8260	03/22/07		03/31/07	03/24/07
Y2057-06	GFSB24-30-32	SOIL	<u>VOC-STARS</u>	8260	03/22/07		03/31/07	03/24/07

CHEMTECH

Lab Chronicle

Order ID:	Y2057	Order Date:	3/26/2007 4:47:27 PM					
Client:	Gannett Fleming Engineers, LLC	Project:	Morris Park LIRR					
Contact:	Vincent Frisina	Location:	M53					
Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y2057-01	GFSB27-7-9	SOIL	<u>SVOC-STARS</u>	8270	03/21/07	03/27/07	03/27/07	03/24/07
Y2057-02	GFSB27-35-37	SOIL	<u>SVOC-STARS</u>	8270	03/21/07	03/27/07	03/27/07	03/24/07
Y2057-03	GFSB26-35-37	SOIL	<u>SVOC-STARS</u>	8270	03/20/07	03/27/07	03/28/07	03/24/07
Y2057-04	GFSB26-9-11	SOIL	<u>SVOC-STARS</u>	8270	03/20/07	03/27/07	03/28/07	03/24/07
Y2057-05	GFSB24-15-17	SOIL	<u>SVOC-STARS</u>	8270	03/22/07	03/27/07	03/28/07	03/24/07
Y2057-06	GFSB24-30-32	SOIL	<u>SVOC-STARS</u>	8270	03/22/07	03/27/07	03/28/07	03/24/07

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284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y2057

MATRIX: Solid

METHOD: 8260

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8260 and CLP.			✓
b. System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:	✓
7. Surrogate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for sec-Butylbenzene and n-Butylbenzene. The MSD recoveries met the acceptable requirements except for sec-Butylbenzene and n-Butylbenzene.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohani
QA REVIEW

04/05/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y2057

MATRIX: Solid

METHOD: 8270

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | ✓ |
| b. System Performance Check Compounds for 8270 and CLP | | | ✓ |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | |
|---|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | ✓ |
| 7. Surrogate Recoveries Meet Criteria | ✓ |

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohan
QA REVIEW

04/05/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS VOLATILE ORGANICS

Y2057 : 00020

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/21/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB27-7-9	SDG No.:	Y2057
Lab Sample ID:	Y2057-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015607.D	1	3/30/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.62	91 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.27	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	46.29	93 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.85	90 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	315807	3.43			
540-36-3	1,4-Difluorobenzene	517527	3.84			
3114-55-4	Chlorobenzene-d5	562454	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	294299	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/21/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB27-35-37	SDG No.:	Y2057
Lab Sample ID:	Y2057-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	5
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015608.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	26	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	47.92	96 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	51.83	104 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	48.34	97 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	45.66	91 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	327590	3.43
540-36-3	1,4-Difluorobenzene	541088	3.84
3114-55-4	Chlorobenzene-d5	571877	6.60
3855-82-1	1,4-Dichlorobenzene-d4	297661	8.89

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/20/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB26-35-37	SDG No.:	Y2057
Lab Sample ID:	Y2057-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	4
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015609.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.0	U	26	2.0	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.4	U	26	4.4	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.7	U	26	2.7	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	26	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.9	U	26	1.9	ug/Kg
135-98-8	Sec-butylbenzene	2.1	U	26	2.1	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.33	95 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.27	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.39	95 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.01	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	320877	3.43			
540-36-3	1,4-Difluorobenzene	533330	3.84			
3114-55-4	Chlorobenzene-d5	568956	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	294389	8.89			

U = Not Detected
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 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/20/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB26-9-11	SDG No.:	Y2057
Lab Sample ID:	Y2057-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015610.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	27	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	27	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	27	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.24	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.9	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.86	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.91	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304546	3.43			
540-36-3	1,4-Difluorobenzene	512911	3.84			
3114-55-4	Chlorobenzene-d5	540859	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	277920	8.89			

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/22/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB24-15-17	SDG No.:	Y2057
Lab Sample ID:	Y2057-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	13
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015611.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.1	U	29	2.1	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.3	U	29	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	29	2.0	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.8	U	29	2.8	ug/Kg
98-06-6	tert-Butylbenzene	4.1	U	29	4.1	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.4	U	29	2.4	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	29	1.9	ug/Kg
91-20-3	Naphthalene	3.4	U	29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.48	103 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.72	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.66	95 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	41.62	83 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	280421	3.43			
540-36-3	1,4-Difluorobenzene	473509	3.84			
3114-55-4	Chlorobenzene-d5	485302	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	220562	8.90			

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 B = Analyte Found in Associated Method Blank
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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/22/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB24-30-32	SDG No.:	Y2057
Lab Sample ID:	Y2057-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	4
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015612.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	26	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.07	104 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	51.92	104 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	47.68	95 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	44.34	89 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	289154	3.44
540-36-3	1,4-Difluorobenzene	493463	3.84
3114-55-4	Chlorobenzene-d5	522343	6.59
3855-82-1	1,4-Dichlorobenzene-d4	266487	8.89

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y2057

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSK0330S2	VLCS01	1,2-Dichloroethane-d4	50	49.26	99		75.00	125.00
		Dibromofluoromethane	50	52.16	104		75.00	125.00
		Toluene-d8	50	49.9	100		75.00	125.00
		4-Bromofluorobenzene	50	49.56	99		75.00	125.00
VBK0330S2	VBLK01	1,2-Dichloroethane-d4	50	41.99	84		75.00	125.00
		Dibromofluoromethane	50	48.46	97		75.00	125.00
		Toluene-d8	50	47.24	94		75.00	125.00
		4-Bromofluorobenzene	50	45.53	91		75.00	125.00
Y2057-01	GFSB27-7-9	1,2-Dichloroethane-d4	50	45.62	91		75.00	125.00
		Dibromofluoromethane	50	49.27	99		75.00	125.00
		Toluene-d8	50	46.29	93		75.00	125.00
		4-Bromofluorobenzene	50	44.85	90		75.00	125.00
Y2057-02	GFSB27-35-37	1,2-Dichloroethane-d4	50	47.92	96		75.00	125.00
		Dibromofluoromethane	50	51.83	104		75.00	125.00
		Toluene-d8	50	48.34	97		75.00	125.00
		4-Bromofluorobenzene	50	45.66	91		75.00	125.00
Y2057-03	GFSB26-35-37	1,2-Dichloroethane-d4	50	47.33	95		75.00	125.00
		Dibromofluoromethane	50	49.27	99		75.00	125.00
		Toluene-d8	50	47.39	95		75.00	125.00
		4-Bromofluorobenzene	50	46.01	92		75.00	125.00
Y2057-04	GFSB26-9-11	1,2-Dichloroethane-d4	50	50.24	100		75.00	125.00
		Dibromofluoromethane	50	50.9	102		75.00	125.00
		Toluene-d8	50	48.86	98		75.00	125.00
		4-Bromofluorobenzene	50	45.91	92		75.00	125.00
Y2057-05	GFSB24-15-17	1,2-Dichloroethane-d4	50	51.48	103		75.00	125.00
		Dibromofluoromethane	50	53.72	107		75.00	125.00
		Toluene-d8	50	47.66	95		75.00	125.00
		4-Bromofluorobenzene	50	41.62	83		75.00	125.00
Y2057-06	GFSB24-30-32	1,2-Dichloroethane-d4	50	52.07	104		75.00	125.00
		Dibromofluoromethane	50	51.92	104		75.00	125.00
		Toluene-d8	50	47.68	95		75.00	125.00
		4-Bromofluorobenzene	50	44.34	89		75.00	125.00
Y2089-01MS	Y2089-01MS	1,2-Dichloroethane-d4	50	46.08	92		75.00	125.00
		Dibromofluoromethane	50	48.45	97		75.00	125.00
		Toluene-d8	50	48.05	96		75.00	125.00
		4-Bromofluorobenzene	50	44.05	88		75.00	125.00
Y2089-01MSD	Y2089-01MSD	1,2-Dichloroethane-d4	50	45.55	91		75.00	125.00
		Dibromofluoromethane	50	49.89	100		75.00	125.00
		Toluene-d8	50	48.85	98		75.00	125.00
		4-Bromofluorobenzene	50	44.45	89		75.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y2057

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: Y2089-01MS										
Y2089-01MS	Methyl tert-butyl Ether	250	0.0	220	88			74	149	
	Benzene	250	0.0	230	92			83	135	
	Toluene	250	0.0	230	92			79	140	
	Ethyl Benzene	250	0.0	230	92			82	139	
	m/p-Xylenes	500	0.0	430	86			81	143	
	o-Xylene	250	0.0	230	92			79	144	
	Isopropylbenzene	250	0.0	250	100			80	145	
	N-propylbenzene	250	0.0	250	100			74	160	
	1,3,5-Trimethylbenzene	250	44.0	290	98			78	151	
	tert-Butylbenzene	250	0.0	230	92			75	148	
	1,2,4-Trimethylbenzene	250	0.0	220	88			78	148	
	Sec-butylbenzene	250	0.0	200	80		*	81	147	
	p-Isopropyltoluene	250	7.7	220	85			75	151	
	n-Butylbenzene	250	0.0	200	80		*	81	154	
	Naphthalene	250	5.4	170	66			64	161	
Client Sample ID: Y2089-01MSD										
Y2089-01MSD	Methyl tert-butyl Ether	250	0.0	220	88	0		74	149	20
	Benzene	250	0.0	230	92	0		83	135	21
	Toluene	250	0.0	230	92	0		79	140	21
	Ethyl Benzene	250	0.0	230	92	0		82	139	20
	m/p-Xylenes	500	0.0	430	86	0		81	143	20
	o-Xylene	250	0.0	220	88	4		79	144	20
	Isopropylbenzene	250	0.0	250	100	0		80	145	20
	N-propylbenzene	250	0.0	240	96	4		74	160	20
	1,3,5-Trimethylbenzene	250	44.0	300	102	4		78	151	20
	tert-Butylbenzene	250	0.0	230	92	0		75	148	20
	1,2,4-Trimethylbenzene	250	0.0	210	84	5		78	148	20
	Sec-butylbenzene	250	0.0	200	80	0	*	81	147	20
	p-Isopropyltoluene	250	7.7	210	81	5		75	151	20
	n-Butylbenzene	250	0.0	200	80	0	*	81	154	20
	Naphthalene	250	5.4	170	66	0		64	161	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846SDG No.: Y2057Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0330S2	Methyl tert-butyl Ether	20	21	105			70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	20	100			70	130	
	Ethyl Benzene	20	19	95			70	130	
	m/p-Xylenes	40	38	95			70	130	
	o-Xylene	20	19	95			70	130	
	Isopropylbenzene	20	19	95			70	130	
	N-propylbenzene	20	20	100			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	19	95			70	130	
	1,2,4-Trimethylbenzene	20	19	95			70	130	
	Sec-butylbenzene	20	19	95			70	130	
	p-Isopropyltoluene	20	19	95			70	130	
	n-Butylbenzene	20	19	95			70	130	
	Naphthalene	20	18	90			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y2057
Lab Sample ID:	BSK0330S2	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015595.D	1	3/30/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	21		5.0	0.37	ug/Kg
71-43-2	Benzene	20		5.0	0.40	ug/Kg
108-88-3	Toluene	20		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	19		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	38		5.0	0.86	ug/Kg
95-47-6	o-Xylene	19		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	19		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	20		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	19		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	19		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	19		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	19		5.0	0.34	ug/Kg
91-20-3	Naphthalene	18		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.26	99 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	52.16	104 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.9	100 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	49.56	99 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	310155	3.42			
540-36-3	1,4-Difluorobenzene	502384	3.83			
3114-55-4	Chlorobenzene-d5	537435	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	317557	8.89			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01

Lab Code: CTECH Case No.: Y2057 SAS No.: Y2057 SDG NO.: Y2057

Lab File ID: VK015594.D Lab Sample ID: VBK0330S2

Date Analyzed: 3/30/2007 Time Analyzed: 17:34

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK0330S2	VK015595.D	18:06
Y2089-01MS	Y2089-01MS	VK015598.D	19:26
Y2089-01MSD	Y2089-01MSD	VK015599.D	19:54
GFSB27-7-9	Y2057-01	VK015607.D	23:39
GFSB27-35-37	Y2057-02	VK015608.D	00:07
GFSB26-35-37	Y2057-03	VK015609.D	00:34
GFSB26-9-11	Y2057-04	VK015610.D	01:01
GFSB24-15-17	Y2057-05	VK015611.D	01:27
GFSB24-30-32	Y2057-06	VK015612.D	01:53

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y2057
Lab Sample ID:	VBK0330S2	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015594.D	1	3/30/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.99	84 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.46	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.24	94 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.53	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	337980	3.42			
540-36-3	1,4-Difluorobenzene	529231	3.83			
3114-55-4	Chlorobenzene-d5	559121	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	302665	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/21/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB27-7-9	SDG No.:	Y2057
Lab Sample ID:	Y2057-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036981.D	1	3/27/2007	3/27/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.82	74 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.44	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.37	75 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	208534	6.02			
1146-65-2	Naphthalene-d8	865937	8.30			
15067-26-2	Acenaphthene-d10	478958	11.72			
1517-22-2	Phenanthrene-d10	696653	14.66			
1719-03-5	Chrysene-d12	670982	19.96			
1520-96-3	Perylene-d12	558696	22.91			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/21/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB27-35-37	SDG No.:	Y2057
Lab Sample ID:	Y2057-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	5
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036976.D	1	3/27/2007	3/27/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	61	U	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.03	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	67.22	67 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.62	76 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	210465	6.02			
1146-65-2	Naphthalene-d8	845784	8.30			
15067-26-2	Acenaphthene-d10	474215	11.72			
1517-22-2	Phenanthrene-d10	670434	14.67			
1719-03-5	Chrysene-d12	638987	19.97			
1520-96-3	Perylene-d12	533933	22.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/20/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB26-35-37	SDG No.:	Y2057
Lab Sample ID:	Y2057-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	4
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB037011.D	1	3/27/2007	3/28/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	61	U	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	75	U	340	75	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	75.93	76 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.98	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	74.31	74 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	181684	5.97			
1146-65-2	Naphthalene-d8	747508	8.24			
15067-26-2	Acenaphthene-d10	417086	11.64			
1517-22-2	Phenanthrene-d10	616160	14.58			
1719-03-5	Chrysene-d12	618744	19.85			
1520-96-3	Perylene-d12	544822	22.73			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/20/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB26-9-11	SDG No.:	Y2057
Lab Sample ID:	Y2057-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036983.D	1	3/27/2007	3/28/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	71	J	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	63	J	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.24	74 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	71.02	71 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	76.68	77 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	221259	6.01			
1146-65-2	Naphthalene-d8	868763	8.29			
15067-26-2	Acenaphthene-d10	469300	11.71			
1517-22-2	Phenanthrene-d10	696282	14.67			
1719-03-5	Chrysene-d12	646421	19.96			
1520-96-3	Perylene-d12	532174	22.92			

U = Not Detected
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 E = Value Exceeds Calibration Range

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 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/22/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB24-15-17	SDG No.:	Y2057
Lab Sample ID:	Y2057-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	13
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB037009.D	1	3/27/2007	3/28/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	64	U	380	64	ug/Kg
83-32-9	Acenaphthene	67	U	380	67	ug/Kg
86-73-7	Fluorene	64	U	380	64	ug/Kg
85-01-8	Phenanthrene	60	U	380	60	ug/Kg
120-12-7	Anthracene	57	U	380	57	ug/Kg
206-44-0	Fluoranthene	56	U	380	56	ug/Kg
129-00-0	Pyrene	67	U	380	67	ug/Kg
56-55-3	Benzo(a)anthracene	53	U	380	53	ug/Kg
218-01-9	Chrysene	68	U	380	68	ug/Kg
205-99-2	Benzo(b)fluoranthene	41	U	380	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	83	U	380	83	ug/Kg
50-32-8	Benzo(a)pyrene	60	U	380	60	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	48	U	380	48	ug/Kg
53-70-3	Dibenz(a,h)anthracene	47	U	380	47	ug/Kg
191-24-2	Benzo(g,h,i)perylene	62	U	380	62	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.93	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	70.86	71 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.32	71 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	185572	5.98			
1146-65-2	Naphthalene-d8	749850	8.24			
15067-26-2	Acenaphthene-d10	408301	11.65			
1517-22-2	Phenanthrene-d10	607917	14.59			
1719-03-5	Chrysene-d12	608820	19.84			
1520-96-3	Perylene-d12	539496	22.73			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/22/2007
Project:	Morris Park LIRR	Date Received:	3/24/2007
Client Sample ID:	GFSB24-30-32	SDG No.:	Y2057
Lab Sample ID:	Y2057-06	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	4
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036974.D	1	3/27/2007	3/27/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	61	U	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.79	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	68.64	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	76.27	76 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	218028	6.03			
1146-65-2	Naphthalene-d8	846176	8.30			
15067-26-2	Acenaphthene-d10	463351	11.73			
1517-22-2	Phenanthrene-d10	696826	14.67			
1719-03-5	Chrysene-d12	648646	19.97			
1520-96-3	Perylene-d12	550865	22.92			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Surrogate Summary
SW-846

SDG No.: Y2057Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25817B	SBLK01	Nitrobenzene-d5	100	71.75	72		23.00	120.00
		2-Fluorobiphenyl	100	67.2	67		30.00	116.00
		Terphenyl-d14	100	71.71	72		18.00	137.00
PB25817BS	SLCS01	Nitrobenzene-d5	100	74.06	74		23.00	120.00
		2-Fluorobiphenyl	100	70.78	71		30.00	116.00
		Terphenyl-d14	100	75.42	75		18.00	137.00
Y2044-01MS	Y2044-01MS	Nitrobenzene-d5	100	74.99	75		23.00	120.00
		2-Fluorobiphenyl	100	72.43	72		30.00	116.00
		Terphenyl-d14	100	75.6	76		18.00	137.00
Y2044-01MSD	Y2044-01MSD	Nitrobenzene-d5	100	75.86	76		23.00	120.00
		2-Fluorobiphenyl	100	72.2	72		30.00	116.00
		Terphenyl-d14	100	73.64	74		18.00	137.00
Y2057-01	GFSB27-7-9	Nitrobenzene-d5	100	73.82	74		23.00	120.00
		2-Fluorobiphenyl	100	69.44	69		30.00	116.00
		Terphenyl-d14	100	75.37	75		18.00	137.00
Y2057-02	GFSB27-35-37	Nitrobenzene-d5	100	72.03	72		23.00	120.00
		2-Fluorobiphenyl	100	67.22	67		30.00	116.00
		Terphenyl-d14	100	75.62	76		18.00	137.00
Y2057-03	GFSB26-35-37	Nitrobenzene-d5	100	75.93	76		23.00	120.00
		2-Fluorobiphenyl	100	69.98	70		30.00	116.00
		Terphenyl-d14	100	74.31	74		18.00	137.00
Y2057-04	GFSB26-9-11	Nitrobenzene-d5	100	74.24	74		23.00	120.00
		2-Fluorobiphenyl	100	71.02	71		30.00	116.00
		Terphenyl-d14	100	76.68	77		18.00	137.00
Y2057-05	GFSB24-15-17	Nitrobenzene-d5	100	71.93	72		23.00	120.00
		2-Fluorobiphenyl	100	70.86	71		30.00	116.00
		Terphenyl-d14	100	71.32	71		18.00	137.00
Y2057-06	GFSB24-30-32	Nitrobenzene-d5	100	71.79	72		23.00	120.00
		2-Fluorobiphenyl	100	68.64	69		30.00	116.00
		Terphenyl-d14	100	76.27	76		18.00	137.00

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y2057

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID: Y2044-01MS		Client Sample ID: Y2044-01MS								
Naphthalene	1700	36	1300	74				34	120	
Acenaphthene	1700	0	1300	76				65	100	
Fluorene	1700	0	1300	76				47	117	
Phenanthrene	1700	0	1300	76				20	150	
Anthracene	1700	0	1300	76				54	108	
Fluoranthene	1700	0	1300	76				55	105	
Pyrene	1700	0	1300	76				20	150	
Benzo(a)anthracene	1700	0	1300	76				60	100	
Chrysene	1700	0	1300	76				51	115	
Indeno(1,2,3-cd)pyrene	1700	0	1100	65				42	124	
Benzo(b)fluoranthene	1700	0	1300	76				42	126	
Benzo(k)fluoranthene	1700	0	1300	76				43	125	
Benzo(a)pyrene	1700	0	1300	76				58	102	
Dibenz(a,h)anthracene	1700	0	1200	71				41	130	
Benzo(g,h,i)perylene	1700	0	1100	65				39	130	
Lab Sample ID: Y2044-01MSD		Client Sample ID: Y2044-01MSD								
Naphthalene	1700	36	1300	74	0			34	120	50
Acenaphthene	1700	0	1300	76	0			65	100	50
Fluorene	1700	0	1300	76	0			47	117	50
Phenanthrene	1700	0	1300	76	0			20	150	50
Anthracene	1700	0	1300	76	0			54	108	50
Fluoranthene	1700	0	1300	76	0			55	105	50
Pyrene	1700	0	1300	76	0			20	150	50
Benzo(a)anthracene	1700	0	1300	76	0			60	100	50
Chrysene	1700	0	1300	76	0			51	115	50
Indeno(1,2,3-cd)pyrene	1700	0	1200	71	9			42	124	50
Benzo(b)fluoranthene	1700	0	1300	76	0			42	126	50
Benzo(k)fluoranthene	1700	0	1400	82	8			43	125	50
Benzo(a)pyrene	1700	0	1300	76	0			58	102	50
Dibenz(a,h)anthracene	1700	0	1300	76	7			41	130	50
Benzo(g,h,i)perylene	1700	0	1400	82	23			39	130	50

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y2057Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25817BS	Naphthalene	1700	1200	71			34	120	
	Acenaphthene	1700	1200	71			65	100	
	Fluorene	1700	1200	71			47	117	
	Phenanthrene	1700	1200	71			20	150	
	Anthracene	1700	1200	71			54	108	
	Fluoranthene	1700	1200	71			55	105	
	Pyrene	1700	1200	71			20	150	
	Benzo(a)anthracene	1700	1200	71			60	100	
	Chrysene	1700	1200	71			51	115	
	Indeno(1,2,3-cd)pyrene	1700	1100	65			42	124	
	Benzo(b)fluoranthene	1700	1300	76			42	126	
	Benzo(k)fluoranthene	1700	1300	76			43	125	
	Benzo(a)pyrene	1700	1300	76			58	102	
	Dibenz(a,h)anthracene	1700	1200	71			41	130	
	Benzo(g,h,i)perylene	1700	1200	71			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y2057
Lab Sample ID:	PB25817BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036973.D	1	3/27/2007	3/27/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1200		330	56	ug/Kg
83-32-9	Acenaphthene	1200		330	59	ug/Kg
86-73-7	Fluorene	1200		330	56	ug/Kg
85-01-8	Phenanthrene	1200		330	53	ug/Kg
120-12-7	Anthracene	1200		330	50	ug/Kg
206-44-0	Fluoranthene	1200		330	49	ug/Kg
129-00-0	Pyrene	1200		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1200		330	46	ug/Kg
218-01-9	Chrysene	1200		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1300		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1300		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1200		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1200		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	74.06	74 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	70.78	71 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.42	75 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	206819	6.03			
1146-65-2	Naphthalene-d8	792803	8.30			
15067-26-2	Acenaphthene-d10	418481	11.72			
1517-22-2	Phenanthrene-d10	629904	14.67			
1719-03-5	Chrysene-d12	594636	19.98			
1520-96-3	Perylene-d12	507831	22.93			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CHEM Case No.: Y2057 SAS No.: Y2057 SDG NO.: Y2057
 Lab File ID: BB036972.D Lab Sample ID: PB25817B
 Instrument ID: BNAB Date Extracted: 3/27/2007
 Matrix: (soil/water) SOIL Date Analyzed: 3/27/2007
 Level: (low/med) LOW Time Analyzed: 17:16

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25817BS	BB036973.D	3/27/2007
02	GFSB24-30-32	Y2057-06	BB036974.D	3/27/2007
03	GFSB27-35-37	Y2057-02	BB036976.D	3/27/2007
04	GFSB27-7-9	Y2057-01	BB036981.D	3/27/2007
05	GFSB26-9-11	Y2057-04	BB036983.D	3/28/2007
06	Y2044-01MS	Y2044-01MS	BB036987.D	3/28/2007
07	GFSB24-15-17	Y2057-05	BB037009.D	3/28/2007
08	GFSB26-35-37	Y2057-03	BB037011.D	3/28/2007
09	Y2044-01MSD	Y2044-01MSD	BB037015.D	3/29/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y2057
Lab Sample ID:	PB25817B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036972.D	1	3/27/2007	3/27/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	71.75	72 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	67.2	67 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.71	72 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	230682	6.03			
1146-65-2	Naphthalene-d8	933645	8.30			
15067-26-2	Acenaphthene-d10	500636	11.73			
1517-22-2	Phenanthrene-d10	735549	14.68			
1719-03-5	Chrysene-d12	733974	19.98			
1520-96-3	Perylene-d12	610304	22.93			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: Morris Park LIRR****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y2088
Vincent Frisina**

Summary Sheet
SW-846

SDG No.: Y2088

Order ID: Y2088

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB22-7-9							
Y2088-04	GFSB22-7-9	SOIL	Toluene	42		31	2.5	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	Ethyl Benzene	20	J	31	2.2	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	m/p-Xylenes	88		31	5.4	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	o-Xylene	34		31	2.4	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	N-propylbenzene	19	J	31	3.4	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	1,3,5-Trimethylbenzene	61		31	3.1	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	1,2,4-Trimethylbenzene	160		31	2.4	ug/Kg

Total VOC's: 424.00

Total TIC's: 0.00

Total VOC's and TIC's: 424.00

Client ID: GFSB22-7-9RE

Y2088-04RE	GFSB22-7-9RE	SOIL	Toluene	57		31	2.5	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Ethyl Benzene	33		31	2.2	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	m/p-Xylenes	130		31	5.4	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	o-Xylene	49		31	2.4	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Isopropylbenzene	9.8	J	31	2.6	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	N-propylbenzene	31	J	31	3.3	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	1,3,5-Trimethylbenzene	88		31	3.1	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	1,2,4-Trimethylbenzene	250		31	2.4	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	n-Butylbenzene	9.6	J	31	2.1	ug/Kg

Total VOC's: 657.40

Total TIC's: 0.00

Total VOC's and TIC's: 657.40

Hit Summary Report

SDG No.: Y2088

Order ID: Y2088

Client: Gannett Fleming Engineers, LLC

Project ID: Morris Park LIRR

Test: SVOC-STARS

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID:	GFSB21-7-9							
Y2088-05	GFSB21-7-9	SOIL	Pyrene	110	J	340	61	ug/Kg
			Total SVOC's:	110.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	110.00				
Client ID:	GFSB21-7-9RE							
Y2088-05RE	GFSB21-7-9RE	SOIL	Pyrene	99	J	340	61	ug/Kg
			Total SVOC's:	99.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	99.00				
Client ID:	GFSB22-7-9							
Y2088-04	GFSB22-7-9	SOIL	Naphthalene	140	J	420	72	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	Phenanthrene	200	J	420	67	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	Pyrene	84	J	420	75	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	Chrysene	130	J	420	76	ug/Kg
Y2088-04	GFSB22-7-9	SOIL	Benzo(b)fluoranthene	78	J	420	46	ug/Kg
			Total SVOC's:	632.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	632.00				
Client ID:	GFSB22-7-9RE							
Y2088-04RE	GFSB22-7-9RE	SOIL	Naphthalene	140	J	420	72	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Phenanthrene	210	J	420	67	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Pyrene	76	J	420	75	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Chrysene	110	J	420	76	ug/Kg
Y2088-04RE	GFSB22-7-9RE	SOIL	Benzo(b)fluoranthene	81	J	420	46	ug/Kg
			Total SVOC's:	617.00				
			Total TIC's:	0.00				
			Total SVOC's and TIC's:	617.00				

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: Morris Park LIRR

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y2088
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

ProjectID: Morris Park LIRR**OrderID:** Y2088**CustomerName:** Gannett Fleming Engineers, LLC**LAB SAMPLE NO.**

Y2088-01

Y2088-02

Y2088-03

Y2088-04

Y2088-05

Y2088-06

Y2088-07

Y2088-08

Y2088-09

Y2088-10

Y2088-11

CLIENT SAMPLE NO

GFSB23-25-27

GFSB23-30-32

GFSB22-35-37

GFSB22-7-9

GFSB21-7-9

GFSB21-35-37

GFSB21-30-32MS

GFSB21-30-32MSD

DUP032707

FIELDBLANK

TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V. Keys Name: Mildred V. Keys

Date: 4/10/07 Title: COA/OC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: 12088

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Zh. Rohan
QA/QC Data Reviewer

04/10/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

TABLE OF CONTENTS
PROJECT NUMBER Y2088RQ

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	14
CONFORMANCE / NON-COFORMANCE SUMMARY	17
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	22
QUALITY CONTROL SUMMARY REPORTS	33
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	51
QUALITY CONTROL SUMMARY REPORTS	62
TOTAL NUMBER OF PAGES	76

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**

284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

CHEMTECH PROJECT NO.

COC Number **051184**

Y2088

CLIENT INFORMATION		REPORT TO BE SENT TO:		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION					
COMPANY: Gannett Fleming		PROJECT NAME: LRB		BILL TO: Gannett Fleming PO#:							
ADDRESS: 480 Forest Ave.		PROJECT NO.: 45813		ADDRESS: 480 Forest Ave.							
CITY: Locust Valley STATE: NY ZIP: 11560		LOCATION: MOINS PARK		CITY: Locust Valley STATE: NY ZIP: 11560							
ATTENTION: Vincent Frisina		PROJECT MANAGER: V. Frisina		ATTENTION: V Frisina							
PHONE: 516-691-8440 FAX: 516-691-3349		e-mail: Vfrisina@gfnet.com		PHONE: 516-691-8440 FAX: 516-691-3349							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS					
FAX: _____		RESULTS ONLY <input type="checkbox"/> USEPA CLP		RESULTS ONLY <input type="checkbox"/> USEPA CLP							
HARD COPY: STANDARD		RESULTS + OC <input type="checkbox"/> New York State ASP "B"		RESULTS + OC <input type="checkbox"/> New York State ASP "B"							
EOD: _____		New Jersey REDUCED <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____		New Jersey REDUCED <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____							
* TO BE APPROVED BY CHEMTECH		EDD FORMAT _____		EDD FORMAT _____							
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS											
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES		PRESERVATIVES		COMMENTS	
1.	GFSB23-25-27	SOIL	X	3/23/07	1650	2	X				
2.	GFSB23-30-32	SOIL	X	3/23/07	1650	2	X				
3.	GFSB22-35-37	SOIL	X	3/26/07	1030	2	X				
4.	GFSB22-7-9	SOIL	X	3/26/07	820	2	X				
5.	GFSB21-7-9	SOIL	X	3/27/07	1125	2	X				
6.	GFSB21-35-37	SOIL	X	3/27/07	1125	2	X				
7.	GFSB21-30-32MS	SOIL	X	3/27/07	1125	2	X				
8.	GFSB21-30-32MSD	SOIL	X	3/27/07	1125	2	X				
9.	DUPO32707	SOIL	X	3/27/07	1200	2	X				
10.	FIELD BLANK	WATER	X	3/27/07	1200	3	X				
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY											
RELINQUISHED BY SAMPLER:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		COOLER TEMP.		ICE IN COOLER?:	
1. <i>Karen</i>		3/27/07 1600		1. <i>SHERAC</i>		3/28/07		6°C		Yes	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		COMPLIANT		NON COMPLIANT	
2.				2.				<input checked="" type="checkbox"/>		<input type="checkbox"/>	
RELINQUISHED BY:		DATE/TIME:		RECEIVED FOR LAB BY:		DATE/TIME:		CONDITONS OF BOTTLES OR COOLERS AT RECEIPT:		MEOH EXTRACTION REQUIRES AN ADDITIONAL 4 OZ JAR FOR PERCENT SOLID.	
3. <i>FED-94</i>		3/28/07		3. <i>SHERAC</i>		3/28/07		Comments:			

Y2008

CHEMTECH PROJECT NO.
COC Number 063405

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION																																					
REPORT TO BE SENT TO: COMPANY: Gannett Fleming		PROJECT NAME: URR		BILL TO: Gannett Fleming PO#:																																					
ADDRESS: 480 W Forest Ave		PROJECT NO: 45813 LOCATION: Morris Park		ADDRESS: 480 Forest Ave																																					
CITY: Locust Valley STATE: NY ZIP: 11560		PROJECT MANAGER: V. Frisina		CITY: Locust Valley STATE: NY ZIP: 11560																																					
ATTENTION: Vincent Frisina		e-mail: vfrisina@gannett.com		ATTENTION: V. Frisina PHONE: 516-671-8440																																					
PHONE: 516-671-8440 FAX: 516-671-3349		PHONE: 516-671-8440 FAX: 516-671-3349		PHONE: 516-671-8440 FAX: 516-671-3349																																					
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																																					
FAX: _____	DAYS: _____	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> USEPA CLP	<table border="1"> <thead> <tr> <th colspan="2">PRESERVATIVES</th> <th colspan="2">PRESERVATIVES</th> <th colspan="2">COMMENTS</th> </tr> <tr> <th>SAMPLE MATRIX</th> <th>SAMPLE TYPE</th> <th>SAMPLE COLLECTION DATE</th> <th>TIME</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>TRIP BLANK</td> <td>GRAB</td> <td>3-20-07</td> <td>1200</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		PRESERVATIVES		PRESERVATIVES		COMMENTS		SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	1	2	TRIP BLANK	GRAB	3-20-07	1200	X																			
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SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME			1	2																																		
TRIP BLANK	GRAB	3-20-07	1200			X																																			
HARD COPY: <u>STANDARD</u>	DAYS: _____	<input type="checkbox"/> RESULTS + QC	<input type="checkbox"/> New York State ASP "B"																																						
EDD: _____	DAYS: _____	<input type="checkbox"/> New Jersey REDUCED	<input type="checkbox"/> New York State ASP "A"																																						
* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other _____																																						
		<input type="checkbox"/> EDD FORMAT																																							
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	# OF BOTTLES																																							
1.	TRIP BLANK	2																																							
2.																																									
3.																																									
4.																																									
5.																																									
6.																																									
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9.																																									
10.																																									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																																									
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:																																						
1. <u>Kim</u>	3/20/07 1600	1. _____	Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/>																																						
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	MeOH extraction requires an additional 4 oz jar for percent solid.																																						
2. _____	_____	2. _____	Comments: _____																																						
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:	Ice in Cooler?: _____																																						
3. <u>F20-Ed</u>	3/20/07	3. <u>SRENAC MFAA</u>	SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>																																						
			CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>																																						
			Shipment Complete: <input type="checkbox"/> YES <input type="checkbox"/> NO																																						

11-16

Express Package Service Packages under 150 lbs.

Priority Overnight 5

FedEx First Overnight

FedEx 2Day

FedEx Overnight

FedEx 2Day Freight

FedEx Express Saver Freight



1 From 3-27-07 Sender's FedEx Account Number 011504450

Sender's Name Kimberly SIMONE Phone (516) 671 8440

Company Gunnell Farming 480 Farsi Ave.

Address 100 Sun Valley Dept. Floor/Suite/Room

City Locust Valley State NY ZIP 11560

2 Your Internal Billing Reference Information

3 To Recipient's Name Locust Valley

Company CREATech 284 Sheffield St.

Address 100 Sun Valley Dept. Floor/Suite/Room

City Mountain Side State NJ ZIP 07092

4 Express Package Service Packages under 150 lbs.

Priority Overnight 5

FedEx First Overnight

FedEx 2Day

FedEx Overnight

FedEx 2Day Freight

FedEx Express Saver Freight

Special Handling

Payment

Account No. Exp. Date

Total Packages Total Weight Total Charges

Release Signature

322

Rev. Date 3/98 Part #133024

CBFE 209

000008

Snehal Mehta

From: Joseph Carabillo
Sent: Wednesday, March 28, 2007 4:04 PM
To: 'vfrisina@gfnet.com'
Cc: Snehal Mehta
Subject: FW: Y2088-GANN01-Morris Park-LIRR

Vincent:

As per the conversation with Kim Simone, the following items have been confirmed:

1. Sample GFSB22 35-37: the 4oz sample jar was received broken. Sample volume from remaining jar will be used for both SVOC & VOC STARS analysis
2. The MS/MSD samples (GFSB21-30-32MS & GFSB21-30-32MSD) will be associate with sample GFSB21-35-37.
3. The trip blank vials have been received with head space.

Please confirm or otherwise direct on all 3 points...Item 2 seems to be incorrect.

Also, Kim's email is not in our system...would you be able to forward that email to me? Thanks.

Joseph Carabillo
Project Manager
Direct Line: (908) 789-1545
Phone: (908) 789 8900 x 109
Fax: (908) 789 8922
jcarabillo@chemtech.net

CHEMTECH

284 Sheffield Street
Mountainside, NJ 07092
www.chemtech.net

From:
Snehal
Mehta
Sent:
Wednesd
March
28, 2007
3:29 PM
To:
Joseph
Carabillo
Subject:
Y2088-
GANN01-
Morris
Park-

Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

LIRR

1. Original sample not mentioned on COC for MS, MSD Selected
2. For Client ID: GFSB22-35-37 out of two jars 4 oz Jar received busted, take ok from client if some volume can be taken for VOC analysis
3. TRIPBLANK received w/ bubbles in them, pls. confirm if still ok to proceed w/ analysis

Use attached COC for Ref.

Thanks,
Snehal Mehta

CHEMTECH

284 Sheffield Street
Mountainside, NJ 07092
Phone: (908) 789 8900 ext: 300

3/28/2007

: 000009

Direct Line: (908)-789-1543

Fax: (908) 789 8922

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3/28/2007

: 00010



284 Sheffield Street Mountainside NJ 07092 Tel. 908-789-8900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: <ol style="list-style-type: none">(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y2088

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?
- All runlogs reviewed for manual integration requirements

1st Level QA Review Signature: Zh. Rohani

Date: 04/10/07

2nd Level QA Review Signature: Mildred Reyes

Date: 4/10/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**

Lab Chronicle

ID: Y2088
Gannett Fleming Engineers, LLC
Vincent Frisina
Order Date: 3/28/2007 1:45:30 PM
Project: Morris Park LIRR
Location: N32

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y2088-01	GFSB23-25-27	SOIL	<u>VOC-STARS</u>	8260	03/23/07		03/31/07	03/28/07
Y2088-02	GFSB23-30-32	SOIL	<u>VOC-STARS</u>	8260	03/23/07		03/31/07	03/28/07
Y2088-03	GFSB22-35-37	SOIL	<u>VOC-STARS</u>	8260	03/26/07		03/31/07	03/28/07
Y2088-04	GFSB22-7-9	SOIL	<u>VOC-STARS</u>	8260	03/26/07		03/31/07	03/28/07
Y2088-04RE	GFSB22-7-9RE	SOIL	<u>VOC-STARS</u>	8260	03/26/07		03/31/07	03/28/07
Y2088-05	GFSB21-7-9	SOIL	<u>VOC-STARS</u>	8260	03/27/07		04/02/07	03/28/07
Y2088-06	GFSB21-35-37	SOIL	<u>VOC-STARS</u>	8260	03/27/07		03/31/07	03/28/07
Y2088-09	DUP032707	SOIL	<u>VOC-STARS</u>	8260	03/27/07		03/31/07	03/28/07
Y2088-10	FIELDBLANK	WATER	<u>VOC-STARS</u>	8260	03/27/07		03/31/07	03/28/07
Y2088-11	TRIPBLANK	WATER	<u>VOC-STARS</u>	8260	03/27/07		03/31/07	03/28/07



Lab Chronicle

ID: Y2088
Gannett Fleming Engineers, LLC
at: Vincent Frisina

Order Date: 3/28/2007 1:45:30 PM
Project: Morris Park LIRR
Location: N32

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y2088-01	GFSB23-25-27	SOIL	<u>SVOC-STARS</u>	8270	03/23/07	03/29/07	03/29/07	03/28/07
Y2088-02	GFSB23-30-32	SOIL	<u>SVOC-STARS</u>	8270	03/23/07	03/29/07	03/29/07	03/28/07
Y2088-03	GFSB22-35-37	SOIL	<u>SVOC-STARS</u>	8270	03/26/07	03/29/07	03/29/07	03/28/07
Y2088-04	GFSB22-7-9	SOIL	<u>SVOC-STARS</u>	8270	03/26/07	03/29/07	03/29/07	03/28/07
Y2088-04RE	GFSB22-7-9RE	SOIL	<u>SVOC-STARS</u>	8270	03/26/07	03/29/07	03/31/07	03/28/07
Y2088-05	GFSB21-7-9	SOIL	<u>SVOC-STARS</u>	8270	03/27/07	03/29/07	03/30/07	03/28/07
Y2088-05RE	GFSB21-7-9RE	SOIL	<u>SVOC-STARS</u>	8270	03/27/07	03/29/07	03/31/07	03/28/07
Y2088-06	GFSB21-35-37	SOIL	<u>SVOC-STARS</u>	8270	03/27/07	03/29/07	03/29/07	03/28/07
Y2088-09	DUP032707	SOIL	<u>SVOC-STARS</u>	8270	03/27/07	03/29/07	03/29/07	03/28/07
Y2088-10	FIELDBLANK	WATER	<u>SVOC-STARS</u>	8270	03/27/07	03/29/07	03/29/07	03/28/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y2088

MATRIX: Water/Soil

METHOD: 8260

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
a.	Calibration Check Compounds for 8260 and CLP.			✓
b.	System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:	✓
7.	Surrogate Recoveries Meet Criteria	✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for GFSB22-7-9, GFSB22-7-9RE and TRIPBLANK.

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓	
Comments: The Internal Standards Areas met the acceptable requirements except for GFSB22-7-9, GFSB22-7-9RE and GFSB21-7-9.			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Initial Calibration met the requirements except for Methyl tert-butyl Ether and Dibromofluoromethane.

Zh. Rohan
QA REVIEW

04/10/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y2088

MATRIX: Water/Soil

METHOD: 8270

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | ✓ |
| b. System Performance Check Compounds for 8270 and CLP | | | ✓ |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | | | |
|---|--|--|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
|---|--|--|---|

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for GFSB21-7-9 and GFSB21-7-9RE.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓	
Comments: The Internal Standards Areas met the acceptable requirements except for GFSB22-7-9, GFSB21-7-9, GFSB22-7-9RE and GFSB21-7-9RE.			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Blank Spike met requirements for all samples except for Acenaphthene and Benzo(a)anthracene.

Zb. Rohani
QA REVIEW

04/10/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/23/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB23-25-27	SDG No.:	Y2088
Lab Sample ID:	Y2088-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015630.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	41.54	83 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	49.63	99 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	48.44	97 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	45.44	91 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	334271	3.44
540-36-3	1,4-Difluorobenzene	522555	3.83
3114-55-4	Chlorobenzene-d5	559733	6.59
3855-82-1	1,4-Dichlorobenzene-d4	293399	8.90

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00023

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/23/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB23-30-32	SDG No.:	Y2088
Lab Sample ID:	Y2088-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	5
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015631.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	26	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	26	4.6	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	26	2.2	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	26	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	26	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	26	3.1	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.16	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.9	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.36	95 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.63	89 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	332092	3.43			
540-36-3	1,4-Difluorobenzene	535377	3.84			
3114-55-4	Chlorobenzene-d5	562196	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	288835	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00024

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-35-37	SDG No.:	Y2088
Lab Sample ID:	Y2088-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	15
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015632.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.2	U	29	2.2	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.4	U	29	2.4	ug/Kg
100-41-4	Ethyl Benzene	2.1	U	29	2.1	ug/Kg
126777-61-2	m/p-Xylenes	5.1	U	29	5.1	ug/Kg
95-47-6	o-Xylene	2.3	U	29	2.3	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.2	U	29	3.2	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.9	U	29	2.9	ug/Kg
98-06-6	tert-Butylbenzene	4.2	U	29	4.2	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.5	U	29	2.5	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	29	2.5	ug/Kg
104-51-8	n-Butylbenzene	2.0	U	29	2.0	ug/Kg
91-20-3	Naphthalene	3.4	U	29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.18	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.31	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.44	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.66	91 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	329468	3.43			
540-36-3	1,4-Difluorobenzene	522934	3.83			
3114-55-4	Chlorobenzene-d5	559796	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	297457	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00025

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-7-9	SDG No.:	Y2088
Lab Sample ID:	Y2088-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	22
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015633.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.3	U	31	2.3	ug/Kg
71-43-2	Benzene	2.5	U	31	2.5	ug/Kg
108-88-3	Toluene	42		31	2.5	ug/Kg
100-41-4	Ethyl Benzene	20	J	31	2.2	ug/Kg
126777-61-2	m/p-Xylenes	88		31	5.4	ug/Kg
95-47-6	o-Xylene	34		31	2.4	ug/Kg
98-82-8	Isopropylbenzene	2.6	U	31	2.6	ug/Kg
103-65-1	N-propylbenzene	19	J	31	3.4	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	61		31	3.1	ug/Kg
98-06-6	tert-Butylbenzene	4.5	U	31	4.5	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	160		31	2.4	ug/Kg
135-98-8	Sec-butylbenzene	2.6	U	31	2.6	ug/Kg
99-87-6	p-Isopropyltoluene	2.7	U	31	2.7	ug/Kg
104-51-8	n-Butylbenzene	2.1	U	31	2.1	ug/Kg
91-20-3	Naphthalene	3.7	U	31	3.7	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.64	101 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	57.62	115 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	43.78	88 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	15.06	30 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	219834	3.43			
540-36-3	1,4-Difluorobenzene	357202	3.83			
3114-55-4	Chlorobenzene-d5	233823	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	32059	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-7-9RE	SDG No.:	Y2088
Lab Sample ID:	Y2088-04RE	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	22
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015667.D	1	4/2/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.3	U	31	2.3	ug/Kg
71-43-2	Benzene	2.5	U	31	2.5	ug/Kg
108-88-3	Toluene	57		31	2.5	ug/Kg
100-41-4	Ethyl Benzene	33		31	2.2	ug/Kg
126777-61-2	m/p-Xylenes	130		31	5.4	ug/Kg
95-47-6	o-Xylene	49		31	2.4	ug/Kg
98-82-8	Isopropylbenzene	9.8	J	31	2.6	ug/Kg
103-65-1	N-propylbenzene	31	J	31	3.3	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	88		31	3.1	ug/Kg
98-06-6	tert-Butylbenzene	4.4	U	31	4.4	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	250		31	2.4	ug/Kg
135-98-8	Sec-butylbenzene	2.6	U	31	2.6	ug/Kg
99-87-6	p-Isopropyltoluene	2.6	U	31	2.6	ug/Kg
104-51-8	n-Butylbenzene	9.6	J	31	2.1	ug/Kg
91-20-3	Naphthalene	3.6	U	31	3.6	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.93	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	61.48	123 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.38	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	16.38	33 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	195383	3.43			
540-36-3	1,4-Difluorobenzene	299258	3.84			
3114-55-4	Chlorobenzene-d5	190510	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	28226	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00027

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-7-9	SDG No.:	Y2088
Lab Sample ID:	Y2088-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	4
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015634.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.5	U	26	2.5	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	3.0	U	26	3.0	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.58	89 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.4	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	46.04	92 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	41.62	83 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	317769	3.43			
540-36-3	1,4-Difluorobenzene	520419	3.84			
3114-55-4	Chlorobenzene-d5	536044	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	270237	8.89			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00020

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-35-37	SDG No.:	Y2088
Lab Sample ID:	Y2088-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	9
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015627.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.2	U	27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.93	88 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.75	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.67	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	46.22	92 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	332506	3.42			
540-36-3	1,4-Difluorobenzene	515996	3.83			
3114-55-4	Chlorobenzene-d5	547009	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	294422	8.89			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	DUP032707	SDG No.:	Y2088
Lab Sample ID:	Y2088-09	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015635.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.2	U	27	2.2	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	27	2.3	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	27	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.2	U	27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.27	97 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.83	100 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	47.05	94 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.02	90 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	300360	3.44			
540-36-3	1,4-Difluorobenzene	502685	3.83			
3114-55-4	Chlorobenzene-d5	528853	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	275657	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	FIELDBLANK	SDG No.:	Y2088
Lab Sample ID:	Y2088-10	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009699.D	1	3/31/2007	VD032907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.86	104 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	53.52	107 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.37	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	43.96	88 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	573631	4.23
540-36-3	1,4-Difluorobenzene	812138	4.91
3114-55-4	Chlorobenzene-d5	974916	9.29
3855-82-1	1,4-Dichlorobenzene-d4	582294	11.68

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00031

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	TRIPBLANK	SDG No.:	Y2088
Lab Sample ID:	Y2088-11	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009700.D	1	3/31/2007	VD032907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.58	113 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	59.57	119 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.53	97 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	46.68	93 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	522498	4.23			
540-36-3	1,4-Difluorobenzene	772026	4.91			
3114-55-4	Chlorobenzene-d5	935896	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	571598	11.68			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00032

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSD0331-01	VLCS01	1,2-Dichloroethane-d4	50	54.17	108		72.00	119.00
		Dibromofluoromethane	50	52.09	104		85.00	115.00
		Toluene-d8	50	51.18	102		81.00	120.00
		4-Bromofluorobenzene	50	51.39	103		76.00	119.00
BSD0331-02	VLCS02	1,2-Dichloroethane-d4	50	53.01	106		72.00	119.00
		Dibromofluoromethane	50	56.37	113		85.00	115.00
		Toluene-d8	50	51.54	103		81.00	120.00
		4-Bromofluorobenzene	50	53.12	106		76.00	119.00
BSK0331S1	VLCS03	1,2-Dichloroethane-d4	50	53.12	106		75.00	125.00
		Dibromofluoromethane	50	53.6	107		75.00	125.00
		Toluene-d8	50	50.3	101		75.00	125.00
		4-Bromofluorobenzene	50	49.65	99		75.00	125.00
BSK0402S1	VLCS04	1,2-Dichloroethane-d4	50	42.78	86		75.00	125.00
		Dibromofluoromethane	50	49.72	99		75.00	125.00
		Toluene-d8	50	48.49	97		75.00	125.00
		4-Bromofluorobenzene	50	47.96	96		75.00	125.00
VBD0331-01	VBLK01	1,2-Dichloroethane-d4	50	45.59	91		72.00	119.00
		Dibromofluoromethane	50	49.27	99		85.00	115.00
		Toluene-d8	50	47.9	96		81.00	120.00
		4-Bromofluorobenzene	50	43.87	88		76.00	119.00
VBK0331S2	VBLK02	1,2-Dichloroethane-d4	50	48.89	98		75.00	125.00
		Dibromofluoromethane	50	52.7	105		75.00	125.00
		Toluene-d8	50	48.24	96		75.00	125.00
		4-Bromofluorobenzene	50	46.92	94		75.00	125.00
VBK0402S2	VBLK03	1,2-Dichloroethane-d4	50	45.47	91		75.00	125.00
		Dibromofluoromethane	50	50.47	101		75.00	125.00
		Toluene-d8	50	49.6	99		75.00	125.00
		4-Bromofluorobenzene	50	48.92	98		75.00	125.00
Y2088-01	GFSB23-25-27	1,2-Dichloroethane-d4	50	41.54	83		75.00	125.00
		Dibromofluoromethane	50	49.63	99		75.00	125.00
		Toluene-d8	50	48.44	97		75.00	125.00
		4-Bromofluorobenzene	50	45.44	91		75.00	125.00
Y2088-02	GFSB23-30-32	1,2-Dichloroethane-d4	50	44.16	88		75.00	125.00
		Dibromofluoromethane	50	48.9	98		75.00	125.00
		Toluene-d8	50	47.36	95		75.00	125.00
		4-Bromofluorobenzene	50	44.63	89		75.00	125.00
Y2088-03	GFSB22-35-37	1,2-Dichloroethane-d4	50	44.18	88		75.00	125.00
		Dibromofluoromethane	50	49.31	99		75.00	125.00
		Toluene-d8	50	48.44	97		75.00	125.00
		4-Bromofluorobenzene	50	45.66	91		75.00	125.00
Y2088-04	GFSB22-7-9	1,2-Dichloroethane-d4	50	50.64	101		75.00	125.00

Surrogate Summary
SW-846

SDG No.: Y2088Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y2088-04	GFSB22-7-9	Dibromofluoromethane	50	57.62	115		75.00	125.00
		Toluene-d8	50	43.78	88		75.00	125.00
		4-Bromofluorobenzene	50	15.06	30	*	75.00	125.00
Y2088-04RE	GFSB22-7-9RE	1,2-Dichloroethane-d4	50	49.93	100		75.00	125.00
		Dibromofluoromethane	50	61.48	123		75.00	125.00
		Toluene-d8	50	48.38	97		75.00	125.00
		4-Bromofluorobenzene	50	16.38	33	*	75.00	125.00
Y2088-05	GFSB21-7-9	1,2-Dichloroethane-d4	50	44.58	89		75.00	125.00
		Dibromofluoromethane	50	48.4	97		75.00	125.00
		Toluene-d8	50	46.04	92		75.00	125.00
		4-Bromofluorobenzene	50	41.62	83		75.00	125.00
Y2088-06	GFSB21-35-37	1,2-Dichloroethane-d4	50	43.93	88		75.00	125.00
		Dibromofluoromethane	50	50.75	102		75.00	125.00
		Toluene-d8	50	49.67	99		75.00	125.00
		4-Bromofluorobenzene	50	46.22	92		75.00	125.00
Y2088-07MS	GFSB21-30-32MS	1,2-Dichloroethane-d4	50	45.9	92		75.00	125.00
		Dibromofluoromethane	50	49.49	99		75.00	125.00
		Toluene-d8	50	49.15	98		75.00	125.00
		4-Bromofluorobenzene	50	48.69	97		75.00	125.00
Y2088-08MSD	GFSB21-30-32MSD	1,2-Dichloroethane-d4	50	46.29	93		75.00	125.00
		Dibromofluoromethane	50	49.24	98		75.00	125.00
		Toluene-d8	50	48.72	97		75.00	125.00
		4-Bromofluorobenzene	50	48.59	97		75.00	125.00
Y2088-09	DUP032707	1,2-Dichloroethane-d4	50	48.27	97		75.00	125.00
		Dibromofluoromethane	50	49.83	100		75.00	125.00
		Toluene-d8	50	47.05	94		75.00	125.00
		4-Bromofluorobenzene	50	45.02	90		75.00	125.00
Y2088-10	FIELDBLANK	1,2-Dichloroethane-d4	50	51.86	104		72.00	119.00
		Dibromofluoromethane	50	53.52	107		85.00	115.00
		Toluene-d8	50	48.37	97		81.00	120.00
		4-Bromofluorobenzene	50	43.96	88		76.00	119.00
Y2088-11	TRIPBLANK	1,2-Dichloroethane-d4	50	56.58	113		72.00	119.00
		Dibromofluoromethane	50	59.57	119	*	85.00	115.00
		Toluene-d8	50	48.53	97		81.00	120.00
		4-Bromofluorobenzene	50	46.68	93		76.00	119.00

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	High	RPD
Client Sample ID: GFSB21-30-32MS										
Y2088-07MS	Methyl tert-butyl Ether	275	0.0	230	84			74	149	
	Benzene	275	0.0	250	91			83	135	
	Toluene	275	0.0	260	95			79	140	
	Ethyl Benzene	275	0.0	260	95			82	139	
	m/p-Xylenes	549	0.0	520	95			81	143	
	o-Xylene	275	0.0	260	95			79	144	
	Isopropylbenzene	275	0.0	280	102			80	145	
	N-propylbenzene	275	0.0	280	102			74	160	
	1,3,5-Trimethylbenzene	275	0.0	270	98			78	151	
	tert-Butylbenzene	275	0.0	280	102			75	148	
	1,2,4-Trimethylbenzene	275	0.0	270	98			78	148	
	Sec-butylbenzene	275	0.0	280	102			81	147	
	p-Isopropyltoluene	275	0.0	280	102			75	151	
	n-Butylbenzene	275	0.0	280	102			81	154	
	Naphthalene	275	0.0	250	91			64	161	
Client Sample ID: GFSB21-30-32MSD										
Y2088-08MSD	Methyl tert-butyl Ether	275	0.0	240	87	4		74	149	20
	Benzene	275	0.0	250	91	0		83	135	21
	Toluene	275	0.0	260	95	0		79	140	21
	Ethyl Benzene	275	0.0	260	95	0		82	139	20
	m/p-Xylenes	549	0.0	510	93	2		81	143	20
	o-Xylene	275	0.0	250	91	4		79	144	20
	Isopropylbenzene	275	0.0	280	102	0		80	145	20
	N-propylbenzene	275	0.0	270	98	4		74	160	20
	1,3,5-Trimethylbenzene	275	0.0	270	98	0		78	151	20
	tert-Butylbenzene	275	0.0	270	98	4		75	148	20
	1,2,4-Trimethylbenzene	275	0.0	270	98	0		78	148	20
	Sec-butylbenzene	275	0.0	280	102	0		81	147	20
	p-Isopropyltoluene	275	0.0	280	102	0		75	151	20
	n-Butylbenzene	275	0.0	280	102	0		81	154	20
	Naphthalene	275	0.0	250	91	0		64	161	20

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-30-32MS	SDG No.:	Y2088
Lab Sample ID:	Y2088-07MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	9
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015628.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	230		27	2.0	ug/Kg
71-43-2	Benzene	250		27	2.1	ug/Kg
108-88-3	Toluene	260		27	2.2	ug/Kg
100-41-4	Ethyl Benzene	260		27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	520		27	4.7	ug/Kg
95-47-6	o-Xylene	260		27	2.1	ug/Kg
98-82-8	Isopropylbenzene	280		27	2.2	ug/Kg
103-65-1	N-propylbenzene	280		27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	270		27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	280		27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	270		27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	280		27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	280		27	2.3	ug/Kg
104-51-8	n-Butylbenzene	280		27	1.8	ug/Kg
91-20-3	Naphthalene	250		27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9	92 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.49	99 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.15	98 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.69	97 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	337085	3.43			
540-36-3	1,4-Difluorobenzene	517909	3.83			
3114-55-4	Chlorobenzene-d5	559936	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	327474	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00037

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-30-32MSD	SDG No.:	Y2088
Lab Sample ID:	Y2088-08MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	9
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015629.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	240		27	2.0	ug/Kg
71-43-2	Benzene	250		27	2.1	ug/Kg
108-88-3	Toluene	260		27	2.2	ug/Kg
100-41-4	Ethyl Benzene	260		27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	510		27	4.7	ug/Kg
95-47-6	o-Xylene	250		27	2.1	ug/Kg
98-82-8	Isopropylbenzene	280		27	2.2	ug/Kg
103-65-1	N-propylbenzene	270		27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	270		27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	270		27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	270		27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	280		27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	280		27	2.3	ug/Kg
104-51-8	n-Butylbenzene	280		27	1.8	ug/Kg
91-20-3	Naphthalene	250		27	3.2	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.29	93 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.24	98 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	48.72	97 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.59	97 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	326580	3.43			
540-36-3	1,4-Difluorobenzene	506021	3.83			
3114-55-4	Chlorobenzene-d5	550254	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	317660	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00036

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y2088Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSD0331-01	Methyl tert-butyl Ether	20	19	95			70	130	
	Benzene	20	18	90			70	130	
	Toluene	20	21	105			70	130	
	Ethyl Benzene	20	21	105			70	130	
	m/p-Xylenes	40	42	105			70	130	
	o-Xylene	20	20	100			70	130	
	Isopropylbenzene	20	21	105			70	130	
	N-propylbenzene	20	21	105			70	130	
	1,3,5-Trimethylbenzene	20	21	105			70	130	
	tert-Butylbenzene	20	23	115			70	130	
	1,2,4-Trimethylbenzene	20	21	105			70	130	
	Sec-butylbenzene	20	22	110			70	130	
	p-Isopropyltoluene	20	21	105			70	130	
	n-Butylbenzene	20	21	105			70	130	
	Naphthalene	20	19	95			70	130	
	BSD0331-02	Methyl tert-butyl Ether	20	16	80			70	130
Benzene		20	16	80			70	130	
Toluene		20	18	90			70	130	
Ethyl Benzene		20	19	95			70	130	
m/p-Xylenes		40	38	95			70	130	
o-Xylene		20	18	90			70	130	
Isopropylbenzene		20	18	90			70	130	
N-propylbenzene		20	18	90			70	130	
1,3,5-Trimethylbenzene		20	18	90			70	130	
tert-Butylbenzene		20	20	100			70	130	
1,2,4-Trimethylbenzene		20	18	90			70	130	
Sec-butylbenzene		20	19	95			70	130	
p-Isopropyltoluene		20	18	90			70	130	
n-Butylbenzene		20	18	90			70	130	
Naphthalene		20	16	80			70	130	
BSK0331S1		Methyl tert-butyl Ether	20	20	100			70	130
	Benzene	20	19	95			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	19	95			70	130	
	m/p-Xylenes	40	37	93			70	130	
	o-Xylene	20	19	95			70	130	
	Isopropylbenzene	20	19	95			70	130	
	N-propylbenzene	20	20	100			70	130	
	1,3,5-Trimethylbenzene	20	20	100			70	130	
	tert-Butylbenzene	20	19	95			70	130	
	1,2,4-Trimethylbenzene	20	20	100			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0331S1	Sec-butylbenzene	20	20	100			70	130	
	p-Isopropyltoluene	20	20	100			70	130	
	n-Butylbenzene	20	19	95			70	130	
	Naphthalene	20	18	90			70	130	
BSK0402S1	Methyl tert-butyl Ether	20	19	95			70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	20	100			70	130	
	Ethyl Benzene	20	20	100			70	130	
	m/p-Xylenes	40	38	95			70	130	
	o-Xylene	20	20	100			70	130	
	Isopropylbenzene	20	19	95			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	18	90			70	130	
	1,2,4-Trimethylbenzene	20	19	95			70	130	
	Sec-butylbenzene	20	19	95			70	130	
	p-Isopropyltoluene	20	19	95			70	130	
	n-Butylbenzene	20	18	90			70	130	
	Naphthalene	20	17	85			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y2088
Lab Sample ID:	BSD0331-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009696.D	1	3/31/2007	VD032907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	19		5.0	0.28	ug/L
71-43-2	Benzene	18		5.0	0.39	ug/L
108-88-3	Toluene	21		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	21		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	42		5.0	1.2	ug/L
95-47-6	o-Xylene	20		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	21		5.0	0.44	ug/L
103-65-1	N-propylbenzene	21		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	21		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	23		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	21		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	22		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	21		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	21		5.0	0.49	ug/L
91-20-3	Naphthalene	19		5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.17	108 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	52.09	104 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	51.18	102 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.39	103 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	573306	4.22			
540-36-3	1,4-Difluorobenzene	799049	4.91			
3114-55-4	Chlorobenzene-d5	1024925	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	652574	11.68			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00041

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y2088
Lab Sample ID:	BSD0331-02	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009697.D	1	3/31/2007	VD032907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	16		5.0	0.28	ug/L
71-43-2	Benzene	16		5.0	0.39	ug/L
108-88-3	Toluene	18		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	19		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	38		5.0	1.2	ug/L
95-47-6	o-Xylene	18		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	18		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	18		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	20		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	18		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	19		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	18		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	18		5.0	0.49	ug/L
91-20-3	Naphthalene	16		5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.01	106 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	56.37	113 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	51.54	103 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	53.12	106 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	558824	4.22			
540-36-3	1,4-Difluorobenzene	772268	4.90			
3114-55-4	Chlorobenzene-d5	1008807	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	681683	11.68			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00042

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VLCS03	SDG No.:	Y2088
Lab Sample ID:	BSK0331S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015626.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	20		5.0	0.37	ug/Kg
71-43-2	Benzene	19		5.0	0.40	ug/Kg
108-88-3	Toluene	19		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	19		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	37		5.0	0.86	ug/Kg
95-47-6	o-Xylene	19		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	19		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	20		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	20		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	19		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	20		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	20		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	20		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	19		5.0	0.34	ug/Kg
91-20-3	Naphthalene	18		5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.12	106 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.6	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.3	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	49.65	99 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	286198	3.43			
540-36-3	1,4-Difluorobenzene	470664	3.83			
3114-55-4	Chlorobenzene-d5	518828	6.59			
3855-82-1	1,4-Dichlorobenzene-d4	294530	8.90			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VLCS04	SDG No.:	Y2088
Lab Sample ID:	BSK0402S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015658.D	1	4/2/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	19		5.0	0.37	ug/Kg
71-43-2	Benzene	20		5.0	0.40	ug/Kg
108-88-3	Toluene	20		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	20		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	38		5.0	0.86	ug/Kg
95-47-6	o-Xylene	20		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	19		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	19		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	18		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	19		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	19		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	19		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	18		5.0	0.34	ug/Kg
91-20-3	Naphthalene	17		5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	42.78	86 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	49.72	99 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	48.49	97 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	47.96	96 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	310731	3.43
540-36-3	1,4-Difluorobenzene	478834	3.84
3114-55-4	Chlorobenzene-d5	516592	6.61
3855-82-1	1,4-Dichlorobenzene-d4	309438	8.90

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01

Lab Code: CHEM Case No.: Y2088 SAS No.: Y2088 SDG NO.: Y2088

Lab File ID: VD009695.D Lab Sample ID: VBD0331-01

Date Analyzed: 3/31/2007 Time Analyzed: 14:28

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSD0331-01	VD009696.D	15:00
VLCS02	BSD0331-02	VD009697.D	15:31
FIELDBLANK	Y2088-10	VD009699.D	16:34
TRIPBLANK	Y2088-11	VD009700.D	17:06

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y2088
Lab Sample ID:	VBD0331-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD009695.D	1	3/31/2007	VD032907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	5.0	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.59	91 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	49.27	99 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	47.9	96 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	43.87	88 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	659929	4.21			
540-36-3	1,4-Difluorobenzene	896486	4.91			
3114-55-4	Chlorobenzene-d5	1043614	9.29			
3855-82-1	1,4-Dichlorobenzene-d4	626045	11.67			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00046

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: GANN01

Lab Code: CHEM Case No.: Y2088 SAS No.: Y2088 SDG NO.: Y2088

Lab File ID: VK015625.D Lab Sample ID: VBK0331S2

Date Analyzed: 3/31/2007 Time Analyzed: 12:29

GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS03	BSK0331S1	VK015626.D	12:56
GFSB21-35-37	Y2088-06	VK015627.D	13:27
GFSB21-30-32MS	Y2088-07MS	VK015628.D	13:54
GFSB21-30-32MSD	Y2088-08MSD	VK015629.D	14:21
GFSB23-25-27	Y2088-01	VK015630.D	14:46
GFSB23-30-32	Y2088-02	VK015631.D	15:14
GFSB22-35-37	Y2088-03	VK015632.D	15:42
GFSB22-7-9	Y2088-04	VK015633.D	16:09
GFSB21-7-9	Y2088-05	VK015634.D	16:36
DUP032707	Y2088-09	VK015635.D	17:05

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y2088
Lab Sample ID:	VBK0331S2	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015625.D	1	3/31/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.89	98 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	52.7	105 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	48.24	96 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	46.92	94 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	297815	3.43
540-36-3	1,4-Difluorobenzene	484747	3.84
3114-55-4	Chlorobenzene-d5	526955	6.60
3855-82-1	1,4-Dichlorobenzene-d4	280173	8.90

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

: 00049

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech

Contract: GANN01

Lab Code: CHEM Case No.: Y2088

SAS No.: Y2088 SDG NO.: Y2088

Lab File ID: VK015657.D

Lab Sample ID: VBK0402S2

Date Analyzed: 4/2/2007

Time Analyzed: 14:09

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS04	BSK0402S1	VK015658.D	14:41
GFSB22-7-9RE	Y2088-04RE	VK015667.D	18:41

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	VBLK03	SDG No.:	Y2088
Lab Sample ID:	VBK0402S2	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK015657.D	1	4/2/2007	VK032707

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.47	91 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.47	101 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	49.6	99 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	48.92	98 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	305146	3.43			
540-36-3	1,4-Difluorobenzene	483441	3.84			
3114-55-4	Chlorobenzene-d5	528987	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	297121	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

: 00050

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/23/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB23-25-27	SDG No.:	Y2088
Lab Sample ID:	Y2088-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039700.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.65	68 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	72.3	72 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	84.28	84 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	28575	4.71			
1146-65-2	Naphthalene-d8	108560	5.89			
15067-26-2	Acenaphthene-d10	52389	7.61			
1517-22-2	Phenanthrene-d10	75005	9.09			
1719-03-5	Chrysene-d12	56461	11.72			
1520-96-3	Perylene-d12	33504	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/23/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB23-30-32	SDG No.:	Y2088
Lab Sample ID:	Y2088-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	5
Sample Wt/Vol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039705.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	350	59	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	58	U	350	58	ug/Kg
85-01-8	Phenanthrene	55	U	350	55	ug/Kg
120-12-7	Anthracene	52	U	350	52	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	61	U	350	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	350	48	ug/Kg
218-01-9	Chrysene	62	U	350	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	350	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	350	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	350	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	350	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.02	68 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	70.07	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	83.57	84 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	28650	4.71			
1146-65-2	Naphthalene-d8	109707	5.89			
15067-26-2	Acenaphthene-d10	53134	7.61			
1517-22-2	Phenanthrene-d10	75186	9.09			
1719-03-5	Chrysene-d12	55964	11.72			
1520-96-3	Perylene-d12	30920	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-35-37	SDG No.:	Y2088
Lab Sample ID:	Y2088-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	15
Sample Wt/Vol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039695.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	66	U	390	66	ug/Kg
83-32-9	Acenaphthene	69	U	390	69	ug/Kg
86-73-7	Fluorene	65	U	390	65	ug/Kg
85-01-8	Phenanthrene	62	U	390	62	ug/Kg
120-12-7	Anthracene	58	U	390	58	ug/Kg
206-44-0	Fluoranthene	57	U	390	57	ug/Kg
129-00-0	Pyrene	68	U	390	68	ug/Kg
56-55-3	Benzo(a)anthracene	54	U	390	54	ug/Kg
218-01-9	Chrysene	69	U	390	69	ug/Kg
205-99-2	Benzo(b)fluoranthene	42	U	390	42	ug/Kg
207-08-9	Benzo(k)fluoranthene	85	U	390	85	ug/Kg
50-32-8	Benzo(a)pyrene	62	U	390	62	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	49	U	390	49	ug/Kg
53-70-3	Dibenz(a,h)anthracene	48	U	390	48	ug/Kg
191-24-2	Benzo(g,h,i)perylene	64	U	390	64	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	61.43	61 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	62.38	62 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	73.03	73 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	30240	4.71			
1146-65-2	Naphthalene-d8	116875	5.89			
15067-26-2	Acenaphthene-d10	58898	7.61			
1517-22-2	Phenanthrene-d10	83715	9.09			
1719-03-5	Chrysene-d12	61055	11.73			
1520-96-3	Perylene-d12	37801	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-7-9	SDG No.:	Y2088
Lab Sample ID:	Y2088-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	22
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039711.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	140	J	420	72	ug/Kg
83-32-9	Acenaphthene	75	U	420	75	ug/Kg
86-73-7	Fluorene	71	U	420	71	ug/Kg
85-01-8	Phenanthrene	200	J	420	67	ug/Kg
120-12-7	Anthracene	64	U	420	64	ug/Kg
206-44-0	Fluoranthene	63	U	420	63	ug/Kg
129-00-0	Pyrene	84	J	420	75	ug/Kg
56-55-3	Benzo(a)anthracene	59	U	420	59	ug/Kg
218-01-9	Chrysene	130	J	420	76	ug/Kg
205-99-2	Benzo(b)fluoranthene	78	J	420	46	ug/Kg
207-08-9	Benzo(k)fluoranthene	93	U	420	93	ug/Kg
50-32-8	Benzo(a)pyrene	67	U	420	67	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	54	U	420	54	ug/Kg
53-70-3	Dibenz(a,h)anthracene	53	U	420	53	ug/Kg
191-24-2	Benzo(g,h,i)perylene	70	U	420	70	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.87	68 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	70.38	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	98.4	98 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29312	4.71			
1146-65-2	Naphthalene-d8	110896	5.89			
15067-26-2	Acenaphthene-d10	53064	7.61			
1517-22-2	Phenanthrene-d10	74756	9.08			
1719-03-5	Chrysene-d12	45497	11.73			
1520-96-3	Perylene-d12	16796	13.76			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/26/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB22-7-9RE	SDG No.:	Y2088
Lab Sample ID:	Y2088-04RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	22
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039748.D	1	3/29/2007	3/31/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	140	J	420	72	ug/Kg
83-32-9	Acenaphthene	75	U	420	75	ug/Kg
86-73-7	Fluorene	71	U	420	71	ug/Kg
85-01-8	Phenanthrene	210	J	420	67	ug/Kg
120-12-7	Anthracene	64	U	420	64	ug/Kg
206-44-0	Fluoranthene	63	U	420	63	ug/Kg
129-00-0	Pyrene	76	J	420	75	ug/Kg
56-55-3	Benzo(a)anthracene	59	U	420	59	ug/Kg
218-01-9	Chrysene	110	J	420	76	ug/Kg
205-99-2	Benzo(b)fluoranthene	81	J	420	46	ug/Kg
207-08-9	Benzo(k)fluoranthene	93	U	420	93	ug/Kg
50-32-8	Benzo(a)pyrene	67	U	420	67	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	54	U	420	54	ug/Kg
53-70-3	Dibenz(a,h)anthracene	53	U	420	53	ug/Kg
191-24-2	Benzo(g,h,i)perylene	70	U	420	70	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.15	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.84	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	95.69	96 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	24997	4.70			
1146-65-2	Naphthalene-d8	90015	5.88			
15067-26-2	Acenaphthene-d10	41978	7.61			
1517-22-2	Phenanthrene-d10	59940	9.08			
1719-03-5	Chrysene-d12	36830	11.73			
1520-96-3	Perylene-d12	11765	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-7-9	SDG No.:	Y2088
Lab Sample ID:	Y2088-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	4
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039718.D	1	3/29/2007	3/30/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	110	J	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.59	71 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	72.72	73 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	158.91	159 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	28042	4.71			
1146-65-2	Naphthalene-d8	102534	5.89			
15067-26-2	Acenaphthene-d10	48206	7.61			
1517-22-2	Phenanthrene-d10	61913	9.09			
1719-03-5	Chrysene-d12	15733	11.72			
1520-96-3	Perylene-d12	6437	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-7-9RE	SDG No.:	Y2088
Lab Sample ID:	Y2088-05RE	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	4
Sample Wt/Vol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039752.D	1	3/29/2007	3/31/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	59	U	340	59	ug/Kg
83-32-9	Acenaphthene	61	U	340	61	ug/Kg
86-73-7	Fluorene	58	U	340	58	ug/Kg
85-01-8	Phenanthrene	55	U	340	55	ug/Kg
120-12-7	Anthracene	52	U	340	52	ug/Kg
206-44-0	Fluoranthene	51	U	340	51	ug/Kg
129-00-0	Pyrene	99	J	340	61	ug/Kg
56-55-3	Benzo(a)anthracene	48	U	340	48	ug/Kg
218-01-9	Chrysene	62	U	340	62	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	340	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	76	U	340	76	ug/Kg
50-32-8	Benzo(a)pyrene	55	U	340	55	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	340	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	43	U	340	43	ug/Kg
191-24-2	Benzo(g,h,i)perylene	57	U	340	57	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.87	70 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	71.91	72 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	156.57	157 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	24373	4.70			
1146-65-2	Naphthalene-d8	84847	5.88			
15067-26-2	Acenaphthene-d10	40626	7.61			
1517-22-2	Phenanthrene-d10	53215	9.08			
1719-03-5	Chrysene-d12	13916	11.72			
1520-96-3	Perylene-d12	5542	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-35-37	SDG No.:	Y2088
Lab Sample ID:	Y2088-06	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039701.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	62	U	360	62	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	61	U	360	61	ug/Kg
85-01-8	Phenanthrene	58	U	360	58	ug/Kg
120-12-7	Anthracene	55	U	360	55	ug/Kg
206-44-0	Fluoranthene	54	U	360	54	ug/Kg
129-00-0	Pyrene	64	U	360	64	ug/Kg
56-55-3	Benzo(a)anthracene	51	U	360	51	ug/Kg
218-01-9	Chrysene	65	U	360	65	ug/Kg
205-99-2	Benzo(b)fluoranthene	40	U	360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	80	U	360	80	ug/Kg
50-32-8	Benzo(a)pyrene	58	U	360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	60	U	360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.98	69 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.79	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	85.8	86 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	28974	4.71			
1146-65-2	Naphthalene-d8	111315	5.89			
15067-26-2	Acenaphthene-d10	55373	7.61			
1517-22-2	Phenanthrene-d10	78868	9.08			
1719-03-5	Chrysene-d12	58844	11.72			
1520-96-3	Perylene-d12	35680	13.76			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	DUP032707	SDG No.:	Y2088
Lab Sample ID:	Y2088-09	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039702.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	61	U	360	61	ug/Kg
83-32-9	Acenaphthene	63	U	360	63	ug/Kg
86-73-7	Fluorene	60	U	360	60	ug/Kg
85-01-8	Phenanthrene	57	U	360	57	ug/Kg
120-12-7	Anthracene	54	U	360	54	ug/Kg
206-44-0	Fluoranthene	53	U	360	53	ug/Kg
129-00-0	Pyrene	63	U	360	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	64	U	360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	78	U	360	78	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	360	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.85	65 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	67.49	67 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	80.23	80 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29649	4.71			
1146-65-2	Naphthalene-d8	114624	5.89			
15067-26-2	Acenaphthene-d10	55670	7.61			
1517-22-2	Phenanthrene-d10	78513	9.08			
1719-03-5	Chrysene-d12	59132	11.72			
1520-96-3	Perylene-d12	35258	13.76			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	FIELDBLANK	SDG No.:	Y2088
Lab Sample ID:	Y2088-10	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	970.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB037036.D	1	3/29/2007	3/29/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.5	U	10	1.5	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.770	U	10	0.770	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.850	U	10	0.850	ug/L
53-70-3	Dibenz(a,h)anthracene	0.890	U	10	0.890	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.04	70 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	63.22	63 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	64.4	64 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	251823	5.95			
1146-65-2	Naphthalene-d8	1055487	8.20			
15067-26-2	Acenaphthene-d10	577087	11.61			
1517-22-2	Phenanthrene-d10	854835	14.53			
1719-03-5	Chrysene-d12	848804	19.80			
1520-96-3	Perylene-d12	751895	22.67			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Surrogate Summary
SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25872B	SBLK01	Nitrobenzene-d5	100	68.11	68		35.00	114.00
		2-Fluorobiphenyl	100	62.29	62		43.00	116.00
		Terphenyl-d14	100	64.51	65		33.00	141.00
PB25872BS	SLCS01	Nitrobenzene-d5	100	69.92	70		35.00	114.00
		2-Fluorobiphenyl	100	64.47	64		43.00	116.00
		Terphenyl-d14	100	67.37	67		33.00	141.00
PB25874B	SBLK02	Nitrobenzene-d5	100	59.28	59		23.00	120.00
		2-Fluorobiphenyl	100	59.04	59		30.00	116.00
		Terphenyl-d14	100	70.54	71		18.00	137.00
PB25874BS	SLCS02	Nitrobenzene-d5	100	57.35	57		23.00	120.00
		2-Fluorobiphenyl	100	57.36	57		30.00	116.00
		Terphenyl-d14	100	58.89	59		18.00	137.00
Y2088-01	GFSB23-25-27	Nitrobenzene-d5	100	67.65	68		23.00	120.00
		2-Fluorobiphenyl	100	72.3	72		30.00	116.00
		Terphenyl-d14	100	84.28	84		18.00	137.00
Y2088-02	GFSB23-30-32	Nitrobenzene-d5	100	68.02	68		23.00	120.00
		2-Fluorobiphenyl	100	70.07	70		30.00	116.00
		Terphenyl-d14	100	83.57	84		18.00	137.00
Y2088-03	GFSB22-35-37	Nitrobenzene-d5	100	61.43	61		23.00	120.00
		2-Fluorobiphenyl	100	62.38	62		30.00	116.00
		Terphenyl-d14	100	73.03	73		18.00	137.00
Y2088-04	GFSB22-7-9	Nitrobenzene-d5	100	67.87	68		23.00	120.00
		2-Fluorobiphenyl	100	70.38	70		30.00	116.00
		Terphenyl-d14	100	98.4	98		18.00	137.00
Y2088-04RE	GFSB22-7-9RE	Nitrobenzene-d5	100	67.15	67		23.00	120.00
		2-Fluorobiphenyl	100	69.84	70		30.00	116.00
		Terphenyl-d14	100	95.69	96		18.00	137.00
Y2088-05	GFSB21-7-9	Nitrobenzene-d5	100	70.59	71		23.00	120.00
		2-Fluorobiphenyl	100	72.72	73		30.00	116.00
		Terphenyl-d14	100	158.91	159	*	18.00	137.00
Y2088-05RE	GFSB21-7-9RE	Nitrobenzene-d5	100	69.87	70		23.00	120.00
		2-Fluorobiphenyl	100	71.91	72		30.00	116.00
		Terphenyl-d14	100	156.57	157	*	18.00	137.00
Y2088-06	GFSB21-35-37	Nitrobenzene-d5	100	68.98	69		23.00	120.00
		2-Fluorobiphenyl	100	69.79	70		30.00	116.00
		Terphenyl-d14	100	85.8	86		18.00	137.00
Y2088-07MS	GFSB21-35-37MS	Nitrobenzene-d5	100	67.12	67		23.00	120.00
		2-Fluorobiphenyl	100	71.1	71		30.00	116.00
		Terphenyl-d14	100	76.33	76		18.00	137.00
Y2088-08MSD	GFSB21-35-37MSD	Nitrobenzene-d5	100	67.02	67		23.00	120.00
		2-Fluorobiphenyl	100	68.92	69		30.00	116.00

Surrogate Summary
SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y2088-08MSD	GFSB21-35-37MSD	Terphenyl-d14	100	75.31	75		18.00	137.00
Y2088-09	DUP032707	Nitrobenzene-d5	100	64.85	65		23.00	120.00
		2-Fluorobiphenyl	100	67.49	67		30.00	116.00
		Terphenyl-d14	100	80.23	80		18.00	137.00
Y2088-10	FIELDBLANK	Nitrobenzene-d5	100	70.04	70		35.00	114.00
		2-Fluorobiphenyl	100	63.22	63		43.00	116.00
		Terphenyl-d14	100	64.4	64		33.00	141.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec		RPD		Limits	
					Qual	RPD	Qual	Low	High	RPD
Lab Sample ID: Y2088-07MS		Client Sample ID: GFSB21-35-37MS								
Naphthalene	1800	0	1300	72				34	120	
Acenaphthene	1800	0	1400	78				65	100	
Fluorene	1800	0	1400	78				47	117	
Phenanthrene	1800	0	1300	72				20	150	
Anthracene	1800	0	1300	72				54	108	
Fluoranthene	1800	0	1300	72				55	105	
Pyrene	1800	0	1300	72				20	150	
Benzo(a)anthracene	1800	0	1300	72				60	100	
Chrysene	1800	0	1300	72				51	115	
Indeno(1,2,3-cd)pyrene	1800	0	1200	67				42	124	
Benzo(b)fluoranthene	1800	0	1500	83				42	126	
Benzo(k)fluoranthene	1800	0	1500	83				43	125	
Benzo(a)pyrene	1800	0	1400	78				58	102	
Dibenz(a,h)anthracene	1800	0	1400	78				41	130	
Benzo(g,h,i)perylene	1800	0	1400	78				39	130	
Lab Sample ID: Y2088-08MSD		Client Sample ID: GFSB21-35-37MSD								
Naphthalene	1800	0	1300	72	0			34	120	50
Acenaphthene	1800	0	1400	78	0			65	100	50
Fluorene	1800	0	1400	78	0			47	117	50
Phenanthrene	1800	0	1300	72	0			20	150	50
Anthracene	1800	0	1300	72	0			54	108	50
Fluoranthene	1800	0	1400	78	8			55	105	50
Pyrene	1800	0	1400	78	8			20	150	50
Benzo(a)anthracene	1800	0	1300	72	0			60	100	50
Chrysene	1800	0	1400	78	8			51	115	50
Indeno(1,2,3-cd)pyrene	1800	0	1300	72	7			42	124	50
Benzo(b)fluoranthene	1800	0	1500	83	0			42	126	50
Benzo(k)fluoranthene	1800	0	1500	83	0			43	125	50
Benzo(a)pyrene	1800	0	1500	83	6			58	102	50
Dibenz(a,h)anthracene	1800	0	1400	78	0			41	130	50
Benzo(g,h,i)perylene	1800	0	1400	78	0			39	130	50

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec		RPD		Limits	
					Qual	RPD	Qual	Low	High	RPD
Lab Sample ID: Y2088-07MS		Client Sample ID: GFSB21-35-37MS								
Naphthalene	1800	0	1300	72				34	120	
Acenaphthene	1800	0	1400	78				65	100	
Fluorene	1800	0	1400	78				47	117	
Phenanthrene	1800	0	1300	72				20	150	
Anthracene	1800	0	1300	72				54	108	
Fluoranthene	1800	0	1300	72				55	105	
Pyrene	1800	0	1300	72				20	150	
Benzo(a)anthracene	1800	0	1300	72				60	100	
Chrysene	1800	0	1300	72				51	115	
Indeno(1,2,3-cd)pyrene	1800	0	1200	67				42	124	
Benzo(b)fluoranthene	1800	0	1500	83				42	126	
Benzo(k)fluoranthene	1800	0	1500	83				43	125	
Benzo(a)pyrene	1800	0	1400	78				58	102	
Dibenz(a,h)anthracene	1800	0	1400	78				41	130	
Benzo(g,h,i)perylene	1800	0	1400	78				39	130	
Lab Sample ID: Y2088-08MSD		Client Sample ID: GFSB21-35-37MSD								
Naphthalene	1800	0	1300	72	0			34	120	50
Acenaphthene	1800	0	1400	78	0			65	100	50
Fluorene	1800	0	1400	78	0			47	117	50
Phenanthrene	1800	0	1300	72	0			20	150	50
Anthracene	1800	0	1300	72	0			54	108	50
Fluoranthene	1800	0	1400	78	8			55	105	50
Pyrene	1800	0	1400	78	8			20	150	50
Benzo(a)anthracene	1800	0	1300	72	0			60	100	50
Chrysene	1800	0	1400	78	8			51	115	50
Indeno(1,2,3-cd)pyrene	1800	0	1300	72	7			42	124	50
Benzo(b)fluoranthene	1800	0	1500	83	0			42	126	50
Benzo(k)fluoranthene	1800	0	1500	83	0			43	125	50
Benzo(a)pyrene	1800	0	1500	83	6			58	102	50
Dibenz(a,h)anthracene	1800	0	1400	78	0			41	130	50
Benzo(g,h,i)perylene	1800	0	1400	78	0			39	130	50

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-35-37MS	SDG No.:	Y2088
Lab Sample ID:	Y2088-07MS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039703.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300		360	62	ug/Kg
83-32-9	Acenaphthene	1400		360	64	ug/Kg
86-73-7	Fluorene	1400		360	61	ug/Kg
85-01-8	Phenanthrene	1300		360	58	ug/Kg
120-12-7	Anthracene	1300		360	55	ug/Kg
206-44-0	Fluoranthene	1300		360	54	ug/Kg
129-00-0	Pyrene	1300		360	64	ug/Kg
56-55-3	Benzo(a)anthracene	1300		360	51	ug/Kg
218-01-9	Chrysene	1300		360	65	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		360	80	ug/Kg
50-32-8	Benzo(a)pyrene	1400		360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200		360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1400		360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.12	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	71.1	71 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	76.33	76 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29121	4.71			
1146-65-2	Naphthalene-d8	115422	5.90			
15067-26-2	Acenaphthene-d10	54083	7.62			
1517-22-2	Phenanthrene-d10	75867	9.09			
1719-03-5	Chrysene-d12	62067	11.74			
1520-96-3	Perylene-d12	35945	13.77			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	3/27/2007
Project:	Morris Park LIRR	Date Received:	3/28/2007
Client Sample ID:	GFSB21-35-37MSD	SDG No.:	Y2088
Lab Sample ID:	Y2088-08MSD	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	9
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039704.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1300		360	62	ug/Kg
83-32-9	Acenaphthene	1400		360	64	ug/Kg
86-73-7	Fluorene	1400		360	61	ug/Kg
85-01-8	Phenanthrene	1300		360	57	ug/Kg
120-12-7	Anthracene	1300		360	54	ug/Kg
206-44-0	Fluoranthene	1400		360	54	ug/Kg
129-00-0	Pyrene	1400		360	64	ug/Kg
56-55-3	Benzo(a)anthracene	1300		360	50	ug/Kg
218-01-9	Chrysene	1400		360	65	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		360	40	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		360	79	ug/Kg
50-32-8	Benzo(a)pyrene	1500		360	58	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1400		360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		360	60	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.02	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	68.92	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	75.31	75 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29523	4.71			
1146-65-2	Naphthalene-d8	116064	5.90			
15067-26-2	Acenaphthene-d10	55570	7.61			
1517-22-2	Phenanthrene-d10	78272	9.09			
1719-03-5	Chrysene-d12	63819	11.73			
1520-96-3	Perylene-d12	37004	13.77			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y2088

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25872BS	Naphthalene	50	35	70			57	99	
	Acenaphthene	50	34	68			56	104	
	Fluorene	50	35	70			61	104	
	Phenanthrene	50	36	72			60	110	
	Anthracene	50	36	72			60	110	
	Fluoranthene	50	36	72			60	110	
	Pyrene	50	35	70			50	110	
	Benzo(a)anthracene	50	35	70			60	105	
	Chrysene	50	35	70			57	108	
	Indeno(1,2,3-cd)pyrene	50	35	70			35	127	
	Benzo(b)fluoranthene	50	33	66			49	116	
	Benzo(k)fluoranthene	50	36	72			52	111	
	Benzo(a)pyrene	50	34	68			58	102	
	Dibenz(a,h)anthracene	50	35	70			53	127	
	Benzo(g,h,i)perylene	50	37	74			42	121	
PB25874BS	Naphthalene	1700	1000	59			34	120	
	Acenaphthene	1700	1000	59		*	65	100	
	Fluorene	1700	980	58			47	117	
	Phenanthrene	1700	1000	59			20	150	
	Anthracene	1700	980	58			54	108	
	Fluoranthene	1700	1000	59			55	105	
	Pyrene	1700	960	56			20	150	
	Benzo(a)anthracene	1700	970	57		*	60	100	
	Chrysene	1700	960	56			51	115	
	Indeno(1,2,3-cd)pyrene	1700	990	58			42	124	
	Benzo(b)fluoranthene	1700	970	57			42	126	
	Benzo(k)fluoranthene	1700	980	58			43	125	
	Benzo(a)pyrene	1700	980	58			58	102	
	Dibenz(a,h)anthracene	1700	940	55			41	130	
	Benzo(g,h,i)perylene	1700	950	56			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y2088
Lab Sample ID:	PB25872BS	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB037031.D	1	3/29/2007	3/29/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	35		10	1.4	ug/L
83-32-9	Acenaphthene	34		10	1.3	ug/L
86-73-7	Fluorene	35		10	1.4	ug/L
85-01-8	Phenanthrene	36		10	1.4	ug/L
120-12-7	Anthracene	36		10	1.4	ug/L
206-44-0	Fluoranthene	36		10	1.2	ug/L
129-00-0	Pyrene	35		10	1.5	ug/L
56-55-3	Benzo(a)anthracene	35		10	1.1	ug/L
218-01-9	Chrysene	35		10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	33		10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	36		10	1.9	ug/L
50-32-8	Benzo(a)pyrene	34		10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	35		10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	35		10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	37		10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	69.92	70 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	64.47	64 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	67.37	67 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	252970	5.96			
1146-65-2	Naphthalene-d8	1011762	8.21			
15067-26-2	Acenaphthene-d10	542726	11.61			
1517-22-2	Phenanthrene-d10	776352	14.55			
1719-03-5	Chrysene-d12	766339	19.82			
1520-96-3	Perylene-d12	724768	22.68			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SLCS02	SDG No.:	Y2088
Lab Sample ID:	PB25874BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039694.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1000		330	56	ug/Kg
83-32-9	Acenaphthene	1000		330	59	ug/Kg
86-73-7	Fluorene	980		330	56	ug/Kg
85-01-8	Phenanthrene	1000		330	53	ug/Kg
120-12-7	Anthracene	980		330	50	ug/Kg
206-44-0	Fluoranthene	1000		330	49	ug/Kg
129-00-0	Pyrene	960		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	970		330	46	ug/Kg
218-01-9	Chrysene	960		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	970		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	980		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	980		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	990		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	940		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	950		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	57.35	57 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	57.36	57 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	58.89	59 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	33033	4.71			
1146-65-2	Naphthalene-d8	133142	5.90			
15067-26-2	Acenaphthene-d10	64766	7.62			
1517-22-2	Phenanthrene-d10	88048	9.09			
1719-03-5	Chrysene-d12	75277	11.74			
1520-96-3	Perylene-d12	49258	13.77			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01

Lab Code: CHEM Case No.: Y2088 SAS No.: Y2088 SDG NO.: Y2088

Lab File ID: BB037030.D Lab Sample ID: PB25872B

Instrument ID: BNAB Date Extracted: 3/29/2007

Matrix: (soil/water) WATER Date Analyzed: 3/29/2007

Level: (low/med) LOW Time Analyzed: 16:21

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25872BS	BB037031.D	3/29/2007
02	FIELDBLANK	Y2088-10	BB037036.D	3/29/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y2088
Lab Sample ID:	PB25872B	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB037030.D	1	3/29/2007	3/29/2007	BB031507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.11	68 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	62.29	62 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	64.51	65 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	248593	5.95			
1146-65-2	Naphthalene-d8	1041888	8.21			
15067-26-2	Acenaphthene-d10	562917	11.61			
1517-22-2	Phenanthrene-d10	863353	14.54			
1719-03-5	Chrysene-d12	822851	19.81			
1520-96-3	Perylene-d12	733802	22.67			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK02

Lab Name: Chemtech Consulting Group Contract: GANN01

Lab Code: CHEM Case No.: Y2088 SAS No.: Y2088 SDG NO.: Y2088

Lab File ID: BE039693.D Lab Sample ID: PB25874B

Instrument ID: BNAE Date Extracted: 3/29/2007

Matrix: (soil/water) SOIL Date Analyzed: 3/29/2007

Level: (low/med) LOW Time Analyzed: 14:56

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS02	PB25874BS	BE039694.D	3/29/2007
02	GFSB22-35-37	Y2088-03	BE039695.D	3/29/2007
03	GFSB23-25-27	Y2088-01	BE039700.D	3/29/2007
04	GFSB21-35-37	Y2088-06	BE039701.D	3/29/2007
05	DUP032707	Y2088-09	BE039702.D	3/29/2007
06	GFSB21-35-37MS	Y2088-07MS	BE039703.D	3/29/2007
07	GFSB21-35-37MSD	Y2088-08MSD	BE039704.D	3/29/2007
08	GFSB23-30-32	Y2088-02	BE039705.D	3/29/2007
09	GFSB22-7-9	Y2088-04	BE039711.D	3/29/2007
10	GFSB21-7-9	Y2088-05	BE039718.D	3/30/2007
11	GFSB22-7-9RE	Y2088-04RE	BE039748.D	3/31/2007
12	GFSB21-7-9RE	Y2088-05RE	BE039752.D	3/31/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	Morris Park LIRR	Date Received:	
Client Sample ID:	SBLK02	SDG No.:	Y2088
Lab Sample ID:	PB25874B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BE039693.D	1	3/29/2007	3/29/2007	BE032807

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	59.28	59 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	59.04	59 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	70.54	71 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	31719	4.71			
1146-65-2	Naphthalene-d8	124408	5.89			
15067-26-2	Acenaphthene-d10	62172	7.61			
1517-22-2	Phenanthrene-d10	90768	9.09			
1719-03-5	Chrysene-d12	66828	11.73			
1520-96-3	Perylene-d12	41404	13.77			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel . (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**ANALYTICAL RESULTS
SUMMARY****PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005****GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440****CHEMTECH PROJECT NO.
ATTENTION:****Y1695
Vincent Frisina**

Summary Sheet
SW-846

SDG No.: Y1695

Order ID: Y1695

Client: Gannett Fleming Engineers, LLC

Project ID: GANN01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	RDL	MDL	Units
Client ID: Y1695-01	GFSB12-9-11	SOIL	Naphthalene	6.4	J	27	3.2	ug/Kg
			Total VOC's:	6.40				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	6.40				
Client ID: Y1695-06	GFSB14-45-47	SOIL	Naphthalene	9.5	J	28	3.3	ug/Kg
			Total VOC's:	9.50				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	9.50				
Client ID: Y1695-05	GFSB14-7-9	SOIL	1,2,4-Trimethylbenzene	7.4	J	26	2.0	ug/Kg
Y1695-05	GFSB14-7-9		SOIL	Naphthalene	20	J	26	3.0
			Total VOC's:	27.40				
			Total TIC's:	0.00				
			Total VOC's and TIC's:	27.40				

Note: The asterisk "*" flag next to a parameter signifies a TIC parameter.

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y1695
Vincent Frisina**

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

COVER PAGE

COVER PAGE

OrderID: Y1695 **ProjectID:** LIRR Richmond Hill, Morris
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y1695-01	GFSB12-9-11
Y1695-02	GFSB12-45-47
Y1695-03	GFSB13-30-32
Y1695-04	GFSB13-45-47
Y1695-05	GFSB14-7-9
Y1695-06	GFSB14-45-47

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred Reyes Name: Mildred Reyes
Date: 3/3/07 Title: QA/UC

CHEMTECH

QA/QC DELIVERABLES CHECKLIST

Project Number: Y1695

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	✓	
II. Table of Contents	✓	
III. Chain of Custody Documents	✓	
IV. Methodology Summaries	✓	
V. Laboratory Chronicle and Hold Time Checks	✓	
VI. Non-Conformance Summary	✓	
VII. Tabulated Analytical Results	✓	
VIII. Initial and Continuing Calibration Information	✓	—
IX. Tune and Internal Standard Area Summaries (GC/MS)	✓	—
X. Quality Control Summary Reports	✓	—
XI. Surrogate Recovery Summary	✓	—
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	✓	—
XIII. Subcontract Data	—	✓

Zh. Rohani
QA/QC Data Reviewer

03/13/07
Date

110 Route 4
Englewood, NJ 07631
Phone: 201.568.7400 Fax: 201.567.3231

284 Sheffield Street
Mountainside, NJ 07092
Tel 908.789.8900 Fax: 908.789.8922

NYSDOH Certification No. 10624

NYSDOH Certification No. 11376
NJDEP Certification No. 20012

00004

**TABLE OF CONTENTS
PROJECT NUMBER Y1695RQ**

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	11
CONFORMANCE / NON-COFORMANCE SUMMARY	14
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	19
QUALITY CONTROL SUMMARY REPORTS	26
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	39
QUALITY CONTROL SUMMARY REPORTS	46
TOTAL NUMBER OF PAGES	53

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CHAIN OF
CUSTODY
RECORD**

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		REPORT TO BE SENT TO:		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION		
COMPANY:	Gannett Fleming	PROJECT NAME:	LIRD - Richmond Hill	BILL TO:	Gannett Fleming	PO#:		
ADDRESS:	480 Forest Ave	PROJECT NO.:	48813	LOCATION:	Jamaica, NY	ADDRESS:	480 Forest Ave	
CITY:	Lacust Valley	STATE:	NY	ZIP:	11560	CITY:	Lacust Valley	
ATTENTION:	Vincent Frisinga	PROJECT MANAGER:	Vincent Frisinga	e-mail:	Vfrisinga@gf.net.com	ATTENTION:	Vincent Frisinga	
PHONE:	516-671-8440	PHONE:	516-671-3349	FAX:	516-671-8440	PHONE:	516-671-8440	
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES		ANALYSIS		
FAX:		RESULTS ONLY	<input type="checkbox"/> USEPA CLP					
HARD COPY:	Standard	RESULTS + QC	<input type="checkbox"/> New York State ASP "B"					
EDD:		New Jersey REDUCED	<input type="checkbox"/> New York State ASP "A"					
DAYS * _____		New Jersey CLP	<input type="checkbox"/> Other _____					
DAYS * _____		EDD FORMAT						
DAYS * _____								
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS								
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES		COMMENTS
1.	GFSB12-9-11	SOIL	X	2/10/07	1015	2	X	
2.	GFSB12-45-47	SOIL	X	2/14/07	1145	2	X	
3.	GFSB13-30-32	SOIL	X	2/20/07	0842	2	X	
4.	GFSB13-45-47	SOIL	X	2/20/07	0900	2	X	
5.	GFSB14-7-9	SOIL	X	2/20/07	1045	2	X	
6.	GFSB14-45-47	SOIL	X	2/20/07	1145	2	X	
7.								
8.								
9.								
10.								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY								COMMENTS
REQUISITIONED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:				COOLER TEMP.
Quilley, JUNE	2/23/07 1630	1.		Compliant <input checked="" type="checkbox"/> Non Compliant <input type="checkbox"/>				40
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	MeOH extraction requires an additional 4 oz jar for percent solid.				Ice in Cooler?:
		2.		Comments:				Yes <input type="checkbox"/> No <input type="checkbox"/>
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:	DATE/TIME:	SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> OVERNIGHT <input type="checkbox"/>				SHIPMENT COMPLIANT:
Fedex	2-26-07 9:35	3. Station		CHEMTECH: <input type="checkbox"/> PICKED UP <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>				YES <input type="checkbox"/> NO <input type="checkbox"/>

From: Origin ID: DPKA (516)671-8440
April Connors
SANNETT FLEMING
180 FOREST AVENUE
LOCUST VALLEY, NY 11560



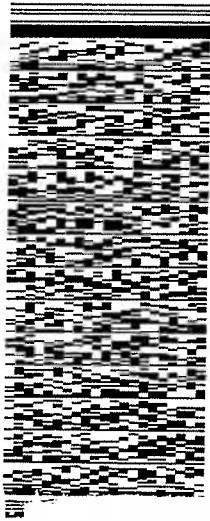
CL 9812 201 2423

BILL SENDER

HIP TO: (908)789-8900

Sample Receiving
Chem Tech
284 Sheffield Street

Mountainside, NJ 07092



Ship Date: 23FEB07
ActWgt: 15 LB
System#: 1305326/NET2600
Account#: S*****

Delivery Address Bar Code



Ref # 45813.002 Kim
Invoice #
PO #
Dept #

Handwritten: 9:55 AM 2/23/07

STANDARD OVERNIGHT

MON

Deliver By:
26FEB07

FORM
0201

TRK# 7922 9607 8308

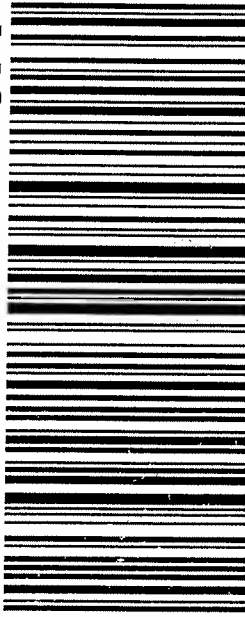
EWR

A1

07092 -NJ-US

DSR

Z3 KBCA



Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

- Value If the result is a value greater than or equal to the detection limit, report the value
- U** Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
- J** Indicates an estimated value. This flag is used:
- (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)
 - (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
- B** Indicates the analyte was found in the blank as well as the sample report as "12 B".
- E** Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
- D** This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- P** This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
- N** This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y1695

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) ✓
- Check chain-of-custody for proper relinquish/return of samples ✓
- Is the chain of custody signed and complete ✓
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts ✓
- Collect information for each project id from server. Were all requirements followed ✓

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page ✓
- Do lab numbers and client Ids on cover page agree with the Chain of Custody ✓

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results ✓
- Do requested analyses on Chain of Custody agree with the log-in page ✓
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody ✓
- Were the samples received within hold time ✓
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle ✓

ANALYTICAL:

- Was method requirement followed? ✓
- Was client requirement followed? ✓
- Does the case narrative summarize all QC failure? ✓
- All runlogs reviewed for manual integration requirements ✓

1st Level QA Review Signature: Zh. Rohan Date: 03/13/07

2nd Level QA Review Signature: Mildred V. Keys Date: 3/13/07

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel: 908-789-8900

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**

CHEMTECH

Lab Chronicle

Order ID: Y1695
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina

Order Date: 2/26/2007 12:51:39 PM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: G41

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1695-01	GFSB12-9-11	SOIL	VOC-STARS	8260	02/19/07		02/27/07	02/26/07
Y1695-02	GFSB12-45-47	SOIL	VOC-STARS	8260	02/19/07		02/27/07	02/26/07
Y1695-03	GFSB13-30-32	SOIL	VOC-STARS	8260	02/20/07		02/27/07	02/26/07
Y1695-04	GFSB13-45-47	SOIL	VOC-STARS	8260	02/20/07		02/27/07	02/26/07
Y1695-05	GFSB14-7-9	SOIL	VOC-STARS	8260	02/20/07		02/27/07	02/26/07
Y1695-06	GFSB14-45-47	SOIL	VOC-STARS	8260	02/20/07		02/27/07	02/26/07



Lab Chronicle

Order ID: Y1695
Client: Gannett Fleming Engineers, LLC
Contact: Vincent Frisina
Order Date: 2/26/2007 12:51:39 PM
Project: LIRR Richmond Hill, Morris Park GF 045813.005
Location: G41

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y1695-01	GFSB12-9-11	SOIL	<u>SVOC-STARS</u>	8270	02/19/07	02/27/07	02/27/07	02/26/07
Y1695-02	GFSB12-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/19/07	02/27/07	02/28/07	02/26/07
Y1695-03	GFSB13-30-32	SOIL	<u>SVOC-STARS</u>	8270	02/20/07	02/27/07	02/27/07	02/26/07
Y1695-04	GFSB13-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/20/07	02/27/07	02/27/07	02/26/07
Y1695-05	GFSB14-7-9	SOIL	<u>SVOC-STARS</u>	8270	02/20/07	02/27/07	02/27/07	02/26/07
Y1695-06	GFSB14-45-47	SOIL	<u>SVOC-STARS</u>	8270	02/20/07	02/27/07	02/27/07	02/26/07

CHEMTECH

284 Sheffield Street Mountainside NJ 07092
Tel. 908-789-8900

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1695

MATRIX: Solid

METHOD: 8260

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
a. Calibration Check Compounds for 8260 and CLP.			✓
b. System Performance Check Compounds for 8260 and CLP			✓

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rohani
QA REVIEW

03/13/07
Date

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y1695

MATRIX: Solid

METHOD: 8270

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,
CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | ✓ |
| b. System Performance Check Compounds for 8270 and CLP | | | ✓ |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
 For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | |
|---|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | ✓ |
| 7. Surrogate Recoveries Meet Criteria | ✓ |
| If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | |

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for Indeno(1,2,3-cd)pyrene. The MSD recoveries met the acceptable requirements except for Indeno(1,2,3-cd)pyrene.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Zh. Rokani
QA REVIEW

03/13/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-9-11	SDG No.:	Y1695
Lab Sample ID:	Y1695-01	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	8
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014844.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.2	U	27	2.2	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	27	2.3	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.9	U	27	3.9	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	27	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.3	U	27	2.3	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	6.4	J	27	3.2	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	46.48	93 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	50.76	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.42	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	45.69	91 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	391939	3.44			
540-36-3	1,4-Difluorobenzene	610870	3.84			
3114-55-4	Chlorobenzene-d5	591401	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	307442	8.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-02	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	16
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014841.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	2.1	U	29	2.1	ug/Kg
71-43-2	Benzene	2.3	U	29	2.3	ug/Kg
108-88-3	Toluene	2.4	U	29	2.4	ug/Kg
100-41-4	Ethyl Benzene	2.1	U	29	2.1	ug/Kg
126777-61-2	m/p-Xylenes	5.0	U	29	5.0	ug/Kg
95-47-6	o-Xylene	2.2	U	29	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.4	U	29	2.4	ug/Kg
103-65-1	N-propylbenzene	3.1	U	29	3.1	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.9	U	29	2.9	ug/Kg
98-06-6	tert-Butylbenzene	4.2	U	29	4.2	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.2	U	29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	29	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.5	U	29	2.5	ug/Kg
104-51-8	n-Butylbenzene	2.0	U	29	2.0	ug/Kg
91-20-3	Naphthalene	3.4	U	29	3.4	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.8	86 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	48.7	97 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.39	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	47.1	94 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	421935	3.44			
540-36-3	1,4-Difluorobenzene	647551	3.84			
3114-55-4	Chlorobenzene-d5	636680	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	354999	8.91			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB13-30-32	SDG No.:	Y1695
Lab Sample ID:	Y1695-03	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014845.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.6	U	27	4.6	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	27	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	47.97	96 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	50.42	101 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	50.77	102 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	46.82	94 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	379201	3.44
540-36-3	1,4-Difluorobenzene	613230	3.84
3114-55-4	Chlorobenzene-d5	605755	6.61
3855-82-1	1,4-Dichlorobenzene-d4	326820	8.91

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB13-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-04	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	7
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014846.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.0	U	27	2.0	ug/Kg
71-43-2	Benzene	2.1	U	27	2.1	ug/Kg
108-88-3	Toluene	2.2	U	27	2.2	ug/Kg
100-41-4	Ethyl Benzene	1.9	U	27	1.9	ug/Kg
126777-61-2	m/p-Xylenes	4.7	U	27	4.7	ug/Kg
95-47-6	o-Xylene	2.1	U	27	2.1	ug/Kg
98-82-8	Isopropylbenzene	2.2	U	27	2.2	ug/Kg
103-65-1	N-propylbenzene	2.9	U	27	2.9	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.7	U	27	2.7	ug/Kg
98-06-6	tert-Butylbenzene	3.8	U	27	3.8	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.0	U	27	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	27	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.3	U	27	2.3	ug/Kg
104-51-8	n-Butylbenzene	1.8	U	27	1.8	ug/Kg
91-20-3	Naphthalene	3.1	U	27	3.1	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.02	98 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	50.62	101 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	51.01	102 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3	95 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	373838	3.44
540-36-3	1,4-Difluorobenzene	607805	3.84
3114-55-4	Chlorobenzene-d5	609368	6.61
3855-82-1	1,4-Dichlorobenzene-d4	328010	8.91

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB14-7-9	SDG No.:	Y1695
Lab Sample ID:	Y1695-05	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	6
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014847.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	1.9	U	26	1.9	ug/Kg
71-43-2	Benzene	2.1	U	26	2.1	ug/Kg
108-88-3	Toluene	2.1	U	26	2.1	ug/Kg
100-41-4	Ethyl Benzene	1.8	U	26	1.8	ug/Kg
126777-61-2	m/p-Xylenes	4.5	U	26	4.5	ug/Kg
95-47-6	o-Xylene	2.0	U	26	2.0	ug/Kg
98-82-8	Isopropylbenzene	2.1	U	26	2.1	ug/Kg
103-65-1	N-propylbenzene	2.8	U	26	2.8	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.6	U	26	2.6	ug/Kg
98-06-6	tert-Butylbenzene	3.7	U	26	3.7	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	7.4	J	26	2.0	ug/Kg
135-98-8	Sec-butylbenzene	2.2	U	26	2.2	ug/Kg
99-87-6	p-Isopropyltoluene	2.2	U	26	2.2	ug/Kg
104-51-8	n-Butylbenzene	1.7	U	26	1.7	ug/Kg
91-20-3	Naphthalene	20	J	26	3.0	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.96	104 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	52.85	106 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	50.44	101 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	44.42	89 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	344555	3.44			
540-36-3	1,4-Difluorobenzene	560468	3.84			
3114-55-4	Chlorobenzene-d5	535440	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	264947	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB14-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-06	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	12
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014872.D	1	2/28/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	2.1	U	28	2.1	ug/Kg
71-43-2	Benzene	2.2	U	28	2.2	ug/Kg
108-88-3	Toluene	2.3	U	28	2.3	ug/Kg
100-41-4	Ethyl Benzene	2.0	U	28	2.0	ug/Kg
126777-61-2	m/p-Xylenes	4.9	U	28	4.9	ug/Kg
95-47-6	o-Xylene	2.2	U	28	2.2	ug/Kg
98-82-8	Isopropylbenzene	2.3	U	28	2.3	ug/Kg
103-65-1	N-propylbenzene	3.0	U	28	3.0	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	2.8	U	28	2.8	ug/Kg
98-06-6	tert-Butylbenzene	4.0	U	28	4.0	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	2.1	U	28	2.1	ug/Kg
135-98-8	Sec-butylbenzene	2.4	U	28	2.4	ug/Kg
99-87-6	p-Isopropyltoluene	2.4	U	28	2.4	ug/Kg
104-51-8	n-Butylbenzene	1.9	U	28	1.9	ug/Kg
91-20-3	Naphthalene	9.5	J	28	3.3	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	44.92	90 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	51.24	102 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	50.56	101 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	41.29	83 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	418327	3.44
540-36-3	1,4-Difluorobenzene	639830	3.83
3114-55-4	Chlorobenzene-d5	586877	6.60
3855-82-1	1,4-Dichlorobenzene-d4	269301	8.90

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y1695

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSK0227S1	VLCS01	1,2-Dichloroethane-d4	50	51.6	103		75.00	125.00
		Dibromofluoromethane	50	52.92	106		75.00	125.00
		Toluene-d8	50	53.3	107		75.00	125.00
		4-Bromofluorobenzene	50	52.52	105		75.00	125.00
BSK0228S1	VLCS02	1,2-Dichloroethane-d4	50	49.87	100		75.00	125.00
		Dibromofluoromethane	50	51.74	103		75.00	125.00
		Toluene-d8	50	51.72	103		75.00	125.00
		4-Bromofluorobenzene	50	50.84	102		75.00	125.00
VBK0227S1	VBLK01	1,2-Dichloroethane-d4	50	50.27	101		75.00	125.00
		Dibromofluoromethane	50	53.28	107		75.00	125.00
		Toluene-d8	50	52.95	106		75.00	125.00
		4-Bromofluorobenzene	50	51	102		75.00	125.00
VBK0228S2	VBLK02	1,2-Dichloroethane-d4	50	43.34	87		75.00	125.00
		Dibromofluoromethane	50	48	96		75.00	125.00
		Toluene-d8	50	49.3	99		75.00	125.00
		4-Bromofluorobenzene	50	46.51	93		75.00	125.00
Y1695-01	GFSB12-9-11	1,2-Dichloroethane-d4	50	46.48	93		75.00	125.00
		Dibromofluoromethane	50	50.76	102		75.00	125.00
		Toluene-d8	50	50.42	101		75.00	125.00
		4-Bromofluorobenzene	50	45.69	91		75.00	125.00
Y1695-02	GFSB12-45-47	1,2-Dichloroethane-d4	50	42.8	86		75.00	125.00
		Dibromofluoromethane	50	48.7	97		75.00	125.00
		Toluene-d8	50	50.39	101		75.00	125.00
		4-Bromofluorobenzene	50	47.1	94		75.00	125.00
Y1695-02MS	GFSB12-45-47MS	1,2-Dichloroethane-d4	50	49.64	99		75.00	125.00
		Dibromofluoromethane	50	51.18	102		75.00	125.00
		Toluene-d8	50	52.18	104		75.00	125.00
		4-Bromofluorobenzene	50	51.28	103		75.00	125.00
Y1695-02MSD	GFSB12-45-47MSD	1,2-Dichloroethane-d4	50	51.53	103		75.00	125.00
		Dibromofluoromethane	50	49.88	100		75.00	125.00
		Toluene-d8	50	51.87	104		75.00	125.00
		4-Bromofluorobenzene	50	50.55	101		75.00	125.00
Y1695-03	GFSB13-30-32	1,2-Dichloroethane-d4	50	47.97	96		75.00	125.00
		Dibromofluoromethane	50	50.42	101		75.00	125.00
		Toluene-d8	50	50.77	102		75.00	125.00
		4-Bromofluorobenzene	50	46.82	94		75.00	125.00
Y1695-04	GFSB13-45-47	1,2-Dichloroethane-d4	50	49.02	98		75.00	125.00
		Dibromofluoromethane	50	50.62	101		75.00	125.00
		Toluene-d8	50	51.01	102		75.00	125.00
		4-Bromofluorobenzene	50	47.3	95		75.00	125.00
Y1695-05	GFSB14-7-9	1,2-Dichloroethane-d4	50	51.96	104		75.00	125.00

Surrogate Summary
SW-846

SDG No.: **Y1695**

Client: **Gannett Fleming Engineers, LLC**

Analytical Method: **EPA SW846 8260**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y1695-05	GFSB14-7-9	Dibromofluoromethane	50	52.85	106		75.00	125.00
		Toluene-d8	50	50.44	101		75.00	125.00
		4-Bromofluorobenzene	50	44.42	89		75.00	125.00
Y1695-06	GFSB14-45-47	1,2-Dichloroethane-d4	50	44.92	90		75.00	125.00
		Dibromofluoromethane	50	51.24	102		75.00	125.00
		Toluene-d8	50	50.56	101		75.00	125.00
		4-Bromofluorobenzene	50	41.29	83		75.00	125.00

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1695

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: GFSB12-45-47MS										
Y1695-02MS	Methyl tert-butyl Ether	298	0.0	270	91			74	149	
	Benzene	298	0.0	280	94			83	135	
	Toluene	298	0.0	290	97			79	140	
	Ethyl Benzene	298	0.0	290	97			82	139	
	m/p-Xylenes	595	0.0	570	96			81	143	
	o-Xylene	298	0.0	290	97			79	144	
	Isopropylbenzene	298	0.0	290	97			80	145	
	N-propylbenzene	298	0.0	290	97			74	160	
	1,3,5-Trimethylbenzene	298	0.0	290	97			78	151	
	tert-Butylbenzene	298	0.0	300	101			75	148	
	1,2,4-Trimethylbenzene	298	0.0	290	97			78	148	
	Sec-butylbenzene	298	0.0	300	101			81	147	
	p-Isopropyltoluene	298	0.0	300	101			75	151	
	n-Butylbenzene	298	0.0	300	101			81	154	
	Naphthalene	298	0.0	370	124			64	161	
Client Sample ID: GFSB12-45-47MSD										
Y1695-02MSD	Methyl tert-butyl Ether	298	0.0	300	101	10		74	149	20
	Benzene	298	0.0	300	101	7		83	135	21
	Toluene	298	0.0	310	104	7		79	140	21
	Ethyl Benzene	298	0.0	300	101	4		82	139	20
	m/p-Xylenes	595	0.0	600	101	5		81	143	20
	o-Xylene	298	0.0	300	101	4		79	144	20
	Isopropylbenzene	298	0.0	300	101	4		80	145	20
	N-propylbenzene	298	0.0	300	101	4		74	160	20
	1,3,5-Trimethylbenzene	298	0.0	290	97	0		78	151	20
	tert-Butylbenzene	298	0.0	310	104	3		75	148	20
	1,2,4-Trimethylbenzene	298	0.0	290	97	0		78	148	20
	Sec-butylbenzene	298	0.0	300	101	0		81	147	20
	p-Isopropyltoluene	298	0.0	300	101	0		75	151	20
	n-Butylbenzene	298	0.0	310	104	3		81	154	20
	Naphthalene	298	0.0	410	138	11		64	161	20

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-45-47MS	SDG No.:	Y1695
Lab Sample ID:	Y1695-02MS	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	16
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014842.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	270		30	2.2	ug/Kg
71-43-2	Benzene	280		30	2.4	ug/Kg
108-88-3	Toluene	290		30	2.4	ug/Kg
100-41-4	Ethyl Benzene	290		30	2.1	ug/Kg
126777-61-2	m/p-Xylenes	570		30	5.1	ug/Kg
95-47-6	o-Xylene	290		30	2.3	ug/Kg
98-82-8	Isopropylbenzene	290		30	2.5	ug/Kg
103-65-1	N-propylbenzene	290		30	3.2	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	290		30	2.9	ug/Kg
98-06-6	tert-Butylbenzene	300		30	4.3	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	290		30	2.3	ug/Kg
135-98-8	Sec-butylbenzene	300		30	2.5	ug/Kg
99-87-6	p-Isopropyltoluene	300		30	2.5	ug/Kg
104-51-8	n-Butylbenzene	300		30	2.0	ug/Kg
91-20-3	Naphthalene	370		30	3.5	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.64	99 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.18	102 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	52.18	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	51.28	103 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	389144	3.44			
540-36-3	1,4-Difluorobenzene	615806	3.84			
3114-55-4	Chlorobenzene-d5	628527	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	376261	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-45-47MSD	SDG No.:	Y1695
Lab Sample ID:	Y1695-02MSD	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	16
Sample Wt/Wol:	1.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014843.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	300		29	2.2	ug/Kg
71-43-2	Benzene	300		29	2.4	ug/Kg
108-88-3	Toluene	310		29	2.4	ug/Kg
100-41-4	Ethyl Benzene	300		29	2.1	ug/Kg
126777-61-2	m/p-Xylenes	600		29	5.1	ug/Kg
95-47-6	o-Xylene	300		29	2.3	ug/Kg
98-82-8	Isopropylbenzene	300		29	2.5	ug/Kg
103-65-1	N-propylbenzene	300		29	3.2	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	290		29	2.9	ug/Kg
98-06-6	tert-Butylbenzene	310		29	4.2	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	290		29	2.2	ug/Kg
135-98-8	Sec-butylbenzene	300		29	2.5	ug/Kg
99-87-6	p-Isopropyltoluene	300		29	2.5	ug/Kg
104-51-8	n-Butylbenzene	310		29	2.0	ug/Kg
91-20-3	Naphthalene	410		29	3.4	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.53	103 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	49.88	100 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.87	104 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	50.55	101 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	384622	3.44			
540-36-3	1,4-Difluorobenzene	604306	3.84			
3114-55-4	Chlorobenzene-d5	633529	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	380386	8.90			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y1695

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSK0227S1	Methyl tert-butyl Ether	20	22	110			70	130	
	Benzene	20	22	110			70	130	
	Toluene	20	22	110			70	130	
	Ethyl Benzene	20	21	105			70	130	
	m/p-Xylenes	40	43	108			70	130	
	o-Xylene	20	21	105			70	130	
	Isopropylbenzene	20	21	105			70	130	
	N-propylbenzene	20	21	105			70	130	
	1,3,5-Trimethylbenzene	20	21	105			70	130	
	tert-Butylbenzene	20	21	105			70	130	
	1,2,4-Trimethylbenzene	20	21	105			70	130	
	Sec-butylbenzene	20	21	105			70	130	
	p-Isopropyltoluene	20	21	105			70	130	
	n-Butylbenzene	20	21	105			70	130	
	Naphthalene	20	24	120			70	130	
	BSK0228S1	Methyl tert-butyl Ether	20	19	95			70	130
Benzene		20	17	85			70	130	
Toluene		20	18	90			70	130	
Ethyl Benzene		20	17	85			70	130	
m/p-Xylenes		40	35	88			70	130	
o-Xylene		20	17	85			70	130	
Isopropylbenzene		20	16	80			70	130	
N-propylbenzene		20	16	80			70	130	
1,3,5-Trimethylbenzene		20	16	80			70	130	
tert-Butylbenzene		20	16	80			70	130	
1,2,4-Trimethylbenzene		20	16	80			70	130	
Sec-butylbenzene		20	16	80			70	130	
p-Isopropyltoluene		20	16	80			70	130	
n-Butylbenzene		20	16	80			70	130	
Naphthalene		20	22	110			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y1695
Lab Sample ID:	BSK0227S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014840.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	22		5.0	0.37	ug/Kg
71-43-2	Benzene	22		5.0	0.40	ug/Kg
108-88-3	Toluene	22		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	21		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	43		5.0	0.86	ug/Kg
95-47-6	o-Xylene	21		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	21		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	21		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	21		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	21		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	21		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	21		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	21		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	21		5.0	0.34	ug/Kg
91-20-3	Naphthalene	24		5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.6	103 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	52.92	106 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	53.3	107 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	52.52	105 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	347580	3.44
540-36-3	1,4-Difluorobenzene	552610	3.84
3114-55-4	Chlorobenzene-d5	570373	6.61
3855-82-1	1,4-Dichlorobenzene-d4	344457	8.91

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y1695
Lab Sample ID:	BSK0228S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014871.D	1	2/28/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	19		5.0	0.37	ug/Kg
71-43-2	Benzene	17		5.0	0.40	ug/Kg
108-88-3	Toluene	18		5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	17		5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	35		5.0	0.86	ug/Kg
95-47-6	o-Xylene	17		5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	16		5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	16		5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	16		5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	16		5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	16		5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	16		5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	16		5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	16		5.0	0.34	ug/Kg
91-20-3	Naphthalene	22		5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.87	100 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	51.74	103 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	51.72	103 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	50.84	102 %	75 - 125		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	397174	3.43			
540-36-3	1,4-Difluorobenzene	636565	3.84			
3114-55-4	Chlorobenzene-d5	663997	6.60			
3855-82-1	1,4-Dichlorobenzene-d4	405529	8.89			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech

Contract: GANN01

Lab Code: CTECH Case No.: Y1695

SAS No.: Y1695 SDG NO.: Y1695

Lab File ID: VK014839.D

Lab Sample ID: VBK0227S1

Date Analyzed: 2/27/2007

Time Analyzed: 11:25

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSK0227S1	VK014840.D	11:52
GFSB12-45-47	Y1695-02	VK014841.D	12:19
GFSB12-45-47MS	Y1695-02MS	VK014842.D	12:45
GFSB12-45-47MSD	Y1695-02MSD	VK014843.D	13:11
GFSB12-9-11	Y1695-01	VK014844.D	13:37
GFSB13-30-32	Y1695-03	VK014845.D	14:03
GFSB13-45-47	Y1695-04	VK014846.D	14:30
GFSB14-7-9	Y1695-05	VK014847.D	14:56

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech

Contract: GANN01

Lab Code: CTECH Case No.: Y1695

SAS No.: Y1695 SDG NO.: Y1695

Lab File ID: VK014870.D

Lab Sample ID: VBK0228S2

Date Analyzed: 2/28/2007

Time Analyzed: 11:58

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOAK

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSK0228S1	VK014871.D	12:24
GFSB14-45-47	Y1695-06	VK014872.D	12:50

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y1695
Lab Sample ID:	VBK0227S1	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014839.D	1	2/27/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.27	101 %	75 - 125		SPK: 50
1868-53-7	Dibromofluoromethane	53.28	107 %	75 - 125		SPK: 50
2037-26-5	Toluene-d8	52.95	106 %	75 - 125		SPK: 50
460-00-4	4-Bromofluorobenzene	51	102 %	75 - 125		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	365319	3.44			
540-36-3	1,4-Difluorobenzene	582961	3.84			
3114-55-4	Chlorobenzene-d5	600077	6.61			
3855-82-1	1,4-Dichlorobenzene-d4	342484	8.91			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y1695
Lab Sample ID:	VBK0228S2	Matrix:	SOIL
Analytical Method:	8260	% Moisture:	0
Sample Wt/Wol:	5.0 Units: g	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VK014870.D	1	2/28/2007	VK021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.37	U	5.0	0.37	ug/Kg
71-43-2	Benzene	0.40	U	5.0	0.40	ug/Kg
108-88-3	Toluene	0.40	U	5.0	0.40	ug/Kg
100-41-4	Ethyl Benzene	0.35	U	5.0	0.35	ug/Kg
126777-61-2	m/p-Xylenes	0.86	U	5.0	0.86	ug/Kg
95-47-6	o-Xylene	0.38	U	5.0	0.38	ug/Kg
98-82-8	Isopropylbenzene	0.42	U	5.0	0.42	ug/Kg
103-65-1	N-propylbenzene	0.54	U	5.0	0.54	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.49	U	5.0	0.49	ug/Kg
98-06-6	tert-Butylbenzene	0.72	U	5.0	0.72	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	0.38	U	5.0	0.38	ug/Kg
135-98-8	Sec-butylbenzene	0.42	U	5.0	0.42	ug/Kg
99-87-6	p-Isopropyltoluene	0.42	U	5.0	0.42	ug/Kg
104-51-8	n-Butylbenzene	0.34	U	5.0	0.34	ug/Kg
91-20-3	Naphthalene	0.58	U	5.0	0.58	ug/Kg

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	43.34	87 %	75 - 125	SPK: 50
1868-53-7	Dibromofluoromethane	48	96 %	75 - 125	SPK: 50
2037-26-5	Toluene-d8	49.3	99 %	75 - 125	SPK: 50
460-00-4	4-Bromofluorobenzene	46.51	93 %	75 - 125	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	439825	3.43
540-36-3	1,4-Difluorobenzene	676763	3.84
3114-55-4	Chlorobenzene-d5	688641	6.59
3855-82-1	1,4-Dichlorobenzene-d4	395623	8.89

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CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-9-11	SDG No.:	Y1695
Lab Sample ID:	Y1695-01	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	8
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036416.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	61	U	360	61	ug/Kg
83-32-9	Acenaphthene	64	U	360	64	ug/Kg
86-73-7	Fluorene	60	U	360	60	ug/Kg
85-01-8	Phenanthrene	57	U	360	57	ug/Kg
120-12-7	Anthracene	54	U	360	54	ug/Kg
206-44-0	Fluoranthene	53	U	360	53	ug/Kg
129-00-0	Pyrene	63	U	360	63	ug/Kg
56-55-3	Benzo(a)anthracene	50	U	360	50	ug/Kg
218-01-9	Chrysene	64	U	360	64	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	360	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	79	U	360	79	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	360	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	46	U	360	46	ug/Kg
53-70-3	Dibenz(a,h)anthracene	45	U	360	45	ug/Kg
191-24-2	Benzo(g,h,i)perylene	59	U	360	59	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.23	64 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	64.27	64 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	68.55	69 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	196413	6.29			
1146-65-2	Naphthalene-d8	803681	8.59			
15067-26-2	Acenaphthene-d10	403997	12.03			
1517-22-2	Phenanthrene-d10	585337	15.01			
1719-03-5	Chrysene-d12	547487	20.32			
1520-96-3	Perylene-d12	395497	23.43			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/19/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB12-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-02	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	16
Sample Wt/Wol:	30.1 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036433.D	1	2/27/2007	2/28/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	67	U	390	67	ug/Kg
83-32-9	Acenaphthene	70	U	390	70	ug/Kg
86-73-7	Fluorene	66	U	390	66	ug/Kg
85-01-8	Phenanthrene	62	U	390	62	ug/Kg
120-12-7	Anthracene	59	U	390	59	ug/Kg
206-44-0	Fluoranthene	58	U	390	58	ug/Kg
129-00-0	Pyrene	69	U	390	69	ug/Kg
56-55-3	Benzo(a)anthracene	55	U	390	55	ug/Kg
218-01-9	Chrysene	70	U	390	70	ug/Kg
205-99-2	Benzo(b)fluoranthene	43	U	390	43	ug/Kg
207-08-9	Benzo(k)fluoranthene	86	U	390	86	ug/Kg
50-32-8	Benzo(a)pyrene	63	U	390	63	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	50	U	390	50	ug/Kg
53-70-3	Dibenz(a,h)anthracene	49	U	390	49	ug/Kg
191-24-2	Benzo(g,h,i)perylene	65	U	390	65	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.22	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	65.84	66 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	74.3	74 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	199475	6.23			
1146-65-2	Naphthalene-d8	825638	8.52			
15067-26-2	Acenaphthene-d10	428995	11.96			
1517-22-2	Phenanthrene-d10	623243	14.92			
1719-03-5	Chrysene-d12	564597	20.24			
1520-96-3	Perylene-d12	425462	23.31			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB13-30-32	SDG No.:	Y1695
Lab Sample ID:	Y1695-03	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036422.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.89	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	68.7	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	71.94	72 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	211461	6.29			
1146-65-2	Naphthalene-d8	863316	8.59			
15067-26-2	Acenaphthene-d10	427860	12.03			
1517-22-2	Phenanthrene-d10	610223	15.01			
1719-03-5	Chrysene-d12	571508	20.32			
1520-96-3	Perylene-d12	361462	23.45			

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB13-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-04	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	7
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036415.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	63	U	350	63	ug/Kg
86-73-7	Fluorene	60	U	350	60	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	53	U	350	53	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	39	U	350	39	ug/Kg
207-08-9	Benzo(k)fluoranthene	78	U	350	78	ug/Kg
50-32-8	Benzo(a)pyrene	57	U	350	57	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	45	U	350	45	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.59	69 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.67	70 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	73.48	73 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	194774	6.29			
1146-65-2	Naphthalene-d8	807751	8.59			
15067-26-2	Acenaphthene-d10	397535	12.03			
1517-22-2	Phenanthrene-d10	593425	15.00			
1719-03-5	Chrysene-d12	549691	20.32			
1520-96-3	Perylene-d12	392792	23.43			

U = Not Detected
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 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB14-7-9	SDG No.:	Y1695
Lab Sample ID:	Y1695-05	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	6
Sample Wt/Wol:	30.3 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036421.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	60	U	350	60	ug/Kg
83-32-9	Acenaphthene	62	U	350	62	ug/Kg
86-73-7	Fluorene	59	U	350	59	ug/Kg
85-01-8	Phenanthrene	56	U	350	56	ug/Kg
120-12-7	Anthracene	53	U	350	53	ug/Kg
206-44-0	Fluoranthene	52	U	350	52	ug/Kg
129-00-0	Pyrene	62	U	350	62	ug/Kg
56-55-3	Benzo(a)anthracene	49	U	350	49	ug/Kg
218-01-9	Chrysene	63	U	350	63	ug/Kg
205-99-2	Benzo(b)fluoranthene	38	U	350	38	ug/Kg
207-08-9	Benzo(k)fluoranthene	77	U	350	77	ug/Kg
50-32-8	Benzo(a)pyrene	56	U	350	56	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	44	U	350	44	ug/Kg
53-70-3	Dibenz(a,h)anthracene	44	U	350	44	ug/Kg
191-24-2	Benzo(g,h,i)perylene	58	U	350	58	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	64.9	65 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	69.11	69 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	68.25	68 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	210077	6.30			
1146-65-2	Naphthalene-d8	879972	8.59			
15067-26-2	Acenaphthene-d10	410513	12.03			
1517-22-2	Phenanthrene-d10	563887	15.01			
1719-03-5	Chrysene-d12	542242	20.33			
1520-96-3	Perylene-d12	392045	23.45			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	2/20/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	2/26/2007
Client Sample ID:	GFSB14-45-47	SDG No.:	Y1695
Lab Sample ID:	Y1695-06	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	12
Sample Wt/Wol:	30.2 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036419.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	64	U	370	64	ug/Kg
83-32-9	Acenaphthene	67	U	370	67	ug/Kg
86-73-7	Fluorene	63	U	370	63	ug/Kg
85-01-8	Phenanthrene	60	U	370	60	ug/Kg
120-12-7	Anthracene	56	U	370	56	ug/Kg
206-44-0	Fluoranthene	56	U	370	56	ug/Kg
129-00-0	Pyrene	66	U	370	66	ug/Kg
56-55-3	Benzo(a)anthracene	52	U	370	52	ug/Kg
218-01-9	Chrysene	67	U	370	67	ug/Kg
205-99-2	Benzo(b)fluoranthene	41	U	370	41	ug/Kg
207-08-9	Benzo(k)fluoranthene	82	U	370	82	ug/Kg
50-32-8	Benzo(a)pyrene	60	U	370	60	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	47	U	370	47	ug/Kg
53-70-3	Dibenz(a,h)anthracene	47	U	370	47	ug/Kg
191-24-2	Benzo(g,h,i)perylene	62	U	370	62	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	65.08	65 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	65.23	65 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	68.29	68 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	195076	6.30			
1146-65-2	Naphthalene-d8	834755	8.59			
15067-26-2	Acenaphthene-d10	417055	12.04			
1517-22-2	Phenanthrene-d10	611316	15.00			
1719-03-5	Chrysene-d12	577948	20.33			
1520-96-3	Perylene-d12	426442	23.44			

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CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Surrogate Summary
SW-846

SDG No.: Y1695

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB25205B	SBLK01	Nitrobenzene-d5	100	60.58	61		23.00	120.00
		2-Fluorobiphenyl	100	59.65	60		30.00	116.00
		Terphenyl-d14	100	63.99	64		18.00	137.00
PB25205BS	SLCS01	Nitrobenzene-d5	100	66.64	67		23.00	120.00
		2-Fluorobiphenyl	100	66.8	67		30.00	116.00
		Terphenyl-d14	100	66.94	67		18.00	137.00
Y1685-01MS	Y1685-01MS	Nitrobenzene-d5	100	65.71	66		23.00	120.00
		2-Fluorobiphenyl	100	67.4	67		30.00	116.00
		Terphenyl-d14	100	72.14	72		18.00	137.00
Y1685-01MSD	Y1685-01MSD	Nitrobenzene-d5	100	72.52	73		23.00	120.00
		2-Fluorobiphenyl	100	71.3	71		30.00	116.00
		Terphenyl-d14	100	72.92	73		18.00	137.00
Y1695-01	GFSB12-9-11	Nitrobenzene-d5	100	64.23	64		23.00	120.00
		2-Fluorobiphenyl	100	64.27	64		30.00	116.00
		Terphenyl-d14	100	68.55	69		18.00	137.00
Y1695-02	GFSB12-45-47	Nitrobenzene-d5	100	67.22	67		23.00	120.00
		2-Fluorobiphenyl	100	65.84	66		30.00	116.00
		Terphenyl-d14	100	74.3	74		18.00	137.00
Y1695-03	GFSB13-30-32	Nitrobenzene-d5	100	66.89	67		23.00	120.00
		2-Fluorobiphenyl	100	68.7	69		30.00	116.00
		Terphenyl-d14	100	71.94	72		18.00	137.00
Y1695-04	GFSB13-45-47	Nitrobenzene-d5	100	68.59	69		23.00	120.00
		2-Fluorobiphenyl	100	69.67	70		30.00	116.00
		Terphenyl-d14	100	73.48	73		18.00	137.00
Y1695-05	GFSB14-7-9	Nitrobenzene-d5	100	64.9	65		23.00	120.00
		2-Fluorobiphenyl	100	69.11	69		30.00	116.00
		Terphenyl-d14	100	68.25	68		18.00	137.00
Y1695-06	GFSB14-45-47	Nitrobenzene-d5	100	65.08	65		23.00	120.00
		2-Fluorobiphenyl	100	65.23	65		30.00	116.00
		Terphenyl-d14	100	68.29	68		18.00	137.00

Chemtech Consulting Group

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y1695

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Parameter	Spike	Sample Result	Result	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Y1685-01MS		Client Sample ID: Y1685-01MS								
Naphthalene	2000	0	1400	70				34	120	
Acenaphthene	2000	0	1400	70				65	100	
Fluorene	2000	0	1300	65				47	117	
Phenanthrene	2000	0	1400	70				20	150	
Anthracene	2000	0	1400	70				54	108	
Fluoranthene	2000	0	1400	70				55	105	
Pyrene	2000	0	1400	70				20	150	
Benzo(a)anthracene	2000	0	1400	70				60	100	
Chrysene	2000	0	1400	70				51	115	
Indeno(1,2,3-cd)pyrene	2000	0	760	38	*			42	124	
Benzo(b)fluoranthene	2000	0	1900	95				42	126	
Benzo(k)fluoranthene	2000	0	1900	95				43	125	
Benzo(a)pyrene	2000	0	1700	85				58	102	
Dibenz(a,h)anthracene	2000	0	1100	55				41	130	
Benzo(g,h,i)perylene	2000	0	920	46				39	130	
Lab Sample ID: Y1685-01MSD		Client Sample ID: Y1685-01MSD								
Naphthalene	2000	0	1500	75		7		34	120	50
Acenaphthene	2000	0	1500	75		7		65	100	50
Fluorene	2000	0	1500	75		14		47	117	50
Phenanthrene	2000	0	1500	75		7		20	150	50
Anthracene	2000	0	1500	75		7		54	108	50
Fluoranthene	2000	0	1500	75		7		55	105	50
Pyrene	2000	0	1500	75		7		20	150	50
Benzo(a)anthracene	2000	0	1500	75		7		60	100	50
Chrysene	2000	0	1400	70		0		51	115	50
Indeno(1,2,3-cd)pyrene	2000	0	770	39	*	3		42	124	50
Benzo(b)fluoranthene	2000	0	2200	110		15		42	126	50
Benzo(k)fluoranthene	2000	0	2200	110		15		43	125	50
Benzo(a)pyrene	2000	0	2000	100		16		58	102	50
Dibenz(a,h)anthracene	2000	0	1300	65		17		41	130	50
Benzo(g,h,i)perylene	2000	0	1100	55		18		39	130	50

2hR
c3113107

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SDG No.: Y1695

SW-846

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB25205BS	Naphthalene	1700	1200	71			34	120	
	Acenaphthene	1700	1200	71			65	100	
	Fluorene	1700	1100	65			47	117	
	Phenanthrene	1700	1100	65			20	150	
	Anthracene	1700	1100	65			54	108	
	Fluoranthene	1700	1200	71			55	105	
	Pyrene	1700	1200	71			20	150	
	Benzo(a)anthracene	1700	1200	71			60	100	
	Chrysene	1700	1200	71			51	115	
	Indeno(1,2,3-cd)pyrene	1700	1100	65			42	124	
	Benzo(b)fluoranthene	1700	1400	82			42	126	
	Benzo(k)fluoranthene	1700	1500	88			43	125	
	Benzo(a)pyrene	1700	1500	88			58	102	
	Dibenz(a,h)anthracene	1700	1400	82			41	130	
	Benzo(g,h,i)perylene	1700	1400	82			39	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y1695
Lab Sample ID:	PB25205BS	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036411.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1200		330	56	ug/Kg
83-32-9	Acenaphthene	1200		330	59	ug/Kg
86-73-7	Fluorene	1100		330	56	ug/Kg
85-01-8	Phenanthrene	1100		330	53	ug/Kg
120-12-7	Anthracene	1100		330	50	ug/Kg
206-44-0	Fluoranthene	1200		330	49	ug/Kg
129-00-0	Pyrene	1200		330	58	ug/Kg
56-55-3	Benzo(a)anthracene	1200		330	46	ug/Kg
218-01-9	Chrysene	1200		330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	1400		330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	1500		330	73	ug/Kg
50-32-8	Benzo(a)pyrene	1500		330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1100		330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	1400		330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	66.64	67 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	66.8	67 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	66.94	67 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	206474	6.31			
1146-65-2	Naphthalene-d8	836233	8.59			
15067-26-2	Acenaphthene-d10	412485	12.04			
1517-22-2	Phenanthrene-d10	604931	15.02			
1719-03-5	Chrysene-d12	576651	20.34			
1520-96-3	Perylene-d12	426429	23.46			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found In Associated Method Blank

N = Presumptive Evidence of a Compound

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01
 Lab Code: CHEM Case No.: Y1695 SAS No.: Y1695 SDG NO.: Y1695
 Lab File ID: BB036410.D Lab Sample ID: PB25205B
 Instrument ID: BNAB Date Extracted: 2/27/2007
 Matrix: (soil/water) SOIL Date Analyzed: 2/27/2007
 Level: (low/med) LOW Time Analyzed: 14:40

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB25205BS	BB036411.D	2/27/2007
02	GFSB13-45-47	Y1695-04	BB036415.D	2/27/2007
03	GFSB12-9-11	Y1695-01	BB036416.D	2/27/2007
04	GFSB14-45-47	Y1695-06	BB036419.D	2/27/2007
05	GFSB14-7-9	Y1695-05	BB036421.D	2/27/2007
06	GFSB13-30-32	Y1695-03	BB036422.D	2/27/2007
07	Y1685-01MS	Y1685-01MS	BB036423.D	2/27/2007
08	Y1685-01MSD	Y1685-01MSD	BB036424.D	2/28/2007
09	GFSB12-45-47	Y1695-02	BB036433.D	2/28/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y1695
Lab Sample ID:	PB25205B	Matrix:	SOIL
Analytical Method:	8270	% Moisture:	0
Sample Wt/Wol:	30.0 g	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BB036410.D	1	2/27/2007	2/27/2007	BB021907

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	56	U	330	56	ug/Kg
83-32-9	Acenaphthene	59	U	330	59	ug/Kg
86-73-7	Fluorene	56	U	330	56	ug/Kg
85-01-8	Phenanthrene	53	U	330	53	ug/Kg
120-12-7	Anthracene	50	U	330	50	ug/Kg
206-44-0	Fluoranthene	49	U	330	49	ug/Kg
129-00-0	Pyrene	58	U	330	58	ug/Kg
56-55-3	Benzo(a)anthracene	46	U	330	46	ug/Kg
218-01-9	Chrysene	59	U	330	59	ug/Kg
205-99-2	Benzo(b)fluoranthene	36	U	330	36	ug/Kg
207-08-9	Benzo(k)fluoranthene	73	U	330	73	ug/Kg
50-32-8	Benzo(a)pyrene	53	U	330	53	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	42	U	330	42	ug/Kg
53-70-3	Dibenz(a,h)anthracene	41	U	330	41	ug/Kg
191-24-2	Benzo(g,h,i)perylene	55	U	330	55	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	60.58	61 %	23 - 120		SPK: 10
321-60-8	2-Fluorobiphenyl	59.65	60 %	30 - 116		SPK: 10
1718-51-0	Terphenyl-d14	63.99	64 %	18 - 137		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	224737	6.31			
1146-65-2	Naphthalene-d8	916898	8.60			
15067-26-2	Acenaphthene-d10	463994	12.05			
1517-22-2	Phenanthrene-d10	656687	15.01			
1719-03-5	Chrysene-d12	615906	20.34			
1520-96-3	Perylene-d12	402405	23.46			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street Mountainside, NJ 07092
Tel. (908) 789-8900 Fax (908) 789-8922

END OF ANALYTICAL RESULTS

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y3514
Kim Simone**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

COVER PAGE

COVER PAGE

OrderID: Y3514 **ProjectID:** LIRR Richmond Hill, Morris
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y3514-01	MW-GF-14
Y3514-02	MW-GF-13
Y3514-03	MW-GF-12
Y3514-04	MW-GF-24
Y3514-05	MW-GF-23
Y3514-06	MW-GF-22
Y3514-07	MW-16-60
Y3514-08	MW-15-60
Y3514-09	MW-GF-26
Y3514-10	MW-GF-20
Y3514-11	MW-GF-27
Y3514-12	MW-GF-17
Y3514-13	MW-GF-16
Y3514-14	MW-GF-15
Y3514-15	MW-GF-06
Y3514-16	MW-GF-07
Y3514-17	MW-GF-08
Y3514-18	MW-GF-09
Y3514-19	MW-GF-02
Y3514-20	MW-GF-05

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: *Mildred V. Keys* Name: *Mildred V. Keys*
Date: 7/26/07 Title: QA/CC



284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

QA/QC DELIVERABLES CHECKLIST

Project Number: Y3514

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample To Lab Sample ID Cross Reference	/	
II. Table of Contents	/	
III. Chain of Custody Documents	/	
IV. Methodology Summaries	/	
V. Laboratory Chronicle and Hold Time Checks	/	
VI. Non-Conformance Summary	/	
VII. Tabulated Analytical Results	/	
VIII. Initial and Continuing Calibration Information	—	/
IX. Tune and Internal Standard Area Summaries (GC/MS)	—	/
X. Quality Control Summary Reports	/	—
XI. Surrogate Recovery Summary	/	—
XII. Raw Data Chromatogram, Blank Samples and QC when applicable	—	/
XIII. Subcontract Data	—	/

Mildred V Reyes
QA/QC Data Reviewer

7/26/07
Date

**TABLE OF CONTENTS
PROJECT NUMBER Y3514RQ**

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	06
METHODOLOGY REVIEW & LABORATORY CHRONICLE	11
CONFORMANCE / NON-COFORMANCE SUMMARY	16
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	21
QUALITY CONTROL SUMMARY REPORTS	42
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	58
QUALITY CONTROL SUMMARY REPORTS	80
TOTAL NUMBER OF PAGES	87

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CHAIN OF CUSTODY RECORD



CHAIN OF CUSTODY RECORD

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(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Y3514
COC Number 065868

1 of 4

CLIENT INFORMATION		REPORT TO BE SENT TO:		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION		
COMPANY:	Gannett Fleming	PROJECT NAME:	LRR-Richmond Hill/Chik	PROJECT NO.:	43851	BILL TO:	Gannett Fleming PO#	
ADDRESS:	480 Forest Ave.	PROJECT NO.:	43851	LOCATION:	Jamaica	ADDRESS:	480 Forest Ave	
CITY:	Locust Valley STATE: NY ZIP: 11560	PROJECT MANAGER:	Vincent Frisina	e-mail:	Vferngren@gfnet.com	CITY:	Locust Valley STATE: NY ZIP: 11560	
ATTENTION:	Jessica Ferngren	PHONE:	516-671-8440 FAX: 516-671-3349	PHONE:	516-671-8440 FAX: 516-671-3349	ATTENTION:	J. Ferngren PHONE: 516-671-8440	
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES		ANALYSIS		
FAX:	_____	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> USERA CLP	1	2	3	4	
HARD COPY:	_____	<input type="checkbox"/> RESULTS + QC	<input type="checkbox"/> New York State ASP "B"	5	6	7	8	
EDD:	_____	<input type="checkbox"/> New Jersey REDUCED	<input type="checkbox"/> New Jersey ASP "A"	9	10	11	12	
* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other	3670 STRS				13
CHEMTECH SAMPLE ID		PROJECT IDENTIFICATION		SAMPLE TYPE		SAMPLE COLLECTION		
				DATE		TIME		
1	MW-GF-14	Water	X	7/9/07	0926	3	2	
2	MW-GF-13	Water	X	7/9/07	0957	3	2	
3	MW-GF-12	Water	X	7/9/07	1017	3	2	
4	MW-GF-24	Water	X	7/9/07	1135	3	2	
5	MW-GF-23	Water	X	7/9/07	1204	3	2	
6	MW-GF-22	Water	X	7/9/07	1340	3	2	
7	MW-16-60	Water	X	7/9/07	1540	3	2	
8	MW-15-60	Water	X	7/9/07	1700	3	2	
9	MW-GF-26	Water	X	7/10/07	0950	3	2	
10	MW-GF-20	Water	X	7/10/07	1025	3	2	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY								
RELINQUISHED BY SAMPLER:	DATE/TIME	RECEIVED BY:	DATE/TIME	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT:				
1. Rudy Gunn	7/10/07 1215	1. J. Frisina		Compliant <input checked="" type="checkbox"/> Non Compliant <input type="checkbox"/>				
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	MeOH extraction requires an additional 4 oz jar for percent solid				
2.		2. S. H. Mac		Comments:				
RELINQUISHED BY:	DATE/TIME	RECEIVED FOR LAB BY:	DATE/TIME	Cooler Temp. _____				
3. J. Frisina	7/10/07 1215	3. S. H. Mac		Ice in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
SHIPPED VIA: CLIENT <input type="checkbox"/> HAND DELIVERED <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>								
CHEMTECH <input checked="" type="checkbox"/> OVERNIGHT <input type="checkbox"/>								
Shipment Completed: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO								



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922

www.chemtech.net

CHEMTECH PROJECT NO. Y3514

COC Number

065867

2 of 4

CLIENT INFORMATION		REPORT TO BE SENT TO		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY	Gannett Fleming	PROJECT NAME	LRR - Richmond Hill Park	BILL TO:	Gannett Fleming	PO#	
ADDRESS	480 Forest Ave	PROJECT NO.	43851	LOCATION:	Jamaica	ADDRESS:	480 Forest Ave
CITY	Locust Valley	STATE:	NV	ZIP:	11560	CITY	Locust Valley
ATTENTION:	Jessica Ferngren	PROJECT MANAGER:	Vincent Frisina	e-mail:	JFengren@gfnet.com	ATTENTION:	J. Ferngren
PHONE	516-671-8440	PHONE:	516-671-3349	FAX:	516-671-3349	PHONE:	516-671-8440
FAX:		DATA DELIVERABLE INFORMATION		ANALYSIS			
HARD COPY:	_____ DAYS*	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> US EPA CLP				
EDD:	_____ DAYS*	<input type="checkbox"/> RESULTS + QC	<input type="checkbox"/> New York State ASP 'B'				
	_____ DAYS*	<input type="checkbox"/> New Jersey REDUCED	<input type="checkbox"/> New York State ASP 'A'				
		<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other				
		<input type="checkbox"/> EDD FORMAT					
* TO BE APPROVED BY CHEMTECH		STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		PRESERVATIVES		COMMENTS	
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	TIME	1-9	1-9
11	MW-GF-27	Water	X	7/10/07	1055	3	
12	MW-GF-17	Water	X	7/10/07	1240	3	
13	MW-GF-16	Water	X	7/10/07	1310	3	
14	MW-GF-15	Water	X	7/10/07	1430	3	
15	MW-GF-16	Water	X	7/10/07	1520	3	
16	MW-GF-07	Water	X	7/10/07	1550	3	
17	MW-GF-08	Water	X	7/10/07	1635	3	
18	MW-GF-09	Water	X	7/10/07	1710	3	
19	MW-GF-02	Water	X	7/10/07	1745	3	
20	MW-GF-05	Water	X	7/10/07	1900	3	
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY							
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	CONDITIONS OF BOTTLES OR COOLERS AT RECEIPT			
1. Audrey Simon	7/10/07 1315	1. J. Frisina		Compliant <input checked="" type="checkbox"/> Non Compliant <input type="checkbox"/>			
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	MeOH extraction requires an additional 4 oz jar for percent solid			
2. J. Frisina	7-13-07	3. Jessica Ferngren		Comments:			
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	DATE/TIME	Cooler Temp. 56C			
3. J. Frisina	7-13-07			Ice in Cooler? Yes			
SHIPPED VIA: CLIENT: <input type="checkbox"/> HAND DELIVERED <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>		CHEMTECH: <input checked="" type="checkbox"/> TRACKED UP <input type="checkbox"/> OVERNIGHT <input type="checkbox"/>		Alignment Complete: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
Page 2 of 4		WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY					

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Y3514

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) ✓

Check chain-of-custody for proper relinquish/return of samples ✓

Is the chain of custody signed and complete ✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts ✓

Collect information for each project id from server. Were all requirements followed ✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page ✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody ✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results ✓

Do requested analyses on Chain of Custody agree with the log-in page ✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody ✓

Were the samples received within hold time ✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle ✓

ANALYTICAL:

Was method requirement followed? ✓

Was client requirement followed? ✓

Does the case narrative summarize all QC failure? ✓

All runlogs reviewed for manual integration requirements ✓

1st Level QA Review Signature: M. J. V. Keys Date: 7/26/07

2nd Level QA Review Signature: _____ Date: _____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**

CHEMTECH

Lab Chronicle

Order ID: Y3514 Order Date: 7/13/2007 4:22:39 PM
Client: Gannett Fleming Engineers, LLC Project: LIRR Richmond Hill, Morris Park GF 045813.005
Contact: Kim Simone Location: VOA Ref. #3 Water

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y3514-01	MW-GF-14	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/16/07	07/13/07
Y3514-02	MW-GF-13	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-03	MW-GF-12	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-04	MW-GF-24	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-05	MW-GF-23	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-06	MW-GF-22	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-07	MW-16-60	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/17/07	07/13/07
Y3514-08	MW-15-60	WATER	<u>VOC-STARS</u>	8260	07/09/07		07/18/07	07/13/07
Y3514-09	MW-GF-26	WATER	<u>VOC-STARS</u>	8260	07/10/07		07/18/07	07/13/07
Y3514-10	MW-GF-20	WATER	<u>VOC-STARS</u>	8260	07/10/07		07/18/07	07/13/07
Y3514-11	MW-GF-27	WATER	<u>VOC-STARS</u>	8260	07/10/07		07/18/07	07/13/07
Y3514-12	MW-GF-17	WATER	<u>VOC-STARS</u>	8260	07/10/07		07/18/07	07/13/07

Y3514-13	MW-GF-16	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-14	MW-GF-15	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-15	MW-GF-06	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-16	MW-GF-07	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-17	MW-GF-08	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-18	MW-GF-09	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-19	MW-GF-02	WATER	<u>VOC-STARS</u>	8260	07/10/07	07/18/07	07/13/07
Y3514-20	MW-GF-05	WATER	<u>VOC-STARS</u>	8260	07/11/07	07/18/07	07/13/07

CHEMTECH

Lab Chronicle

Order ID: Y3514
 Client: Gannett Fleming Engineers, LLC
 Contact: Kim Simone

Order Date: 7/13/2007 4:22:39 PM
 Project: LIRR Richmond Hill, Morris Park GF 045813.005
 Location: VOA Ref. #3 Water

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y3514-01	MW-GF-14	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/17/07	07/13/07
Y3514-02	MW-GF-13	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/18/07	07/13/07
Y3514-03	MW-GF-12	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/17/07	07/13/07
Y3514-04	MW-GF-24	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/18/07	07/13/07
Y3514-04RE	MW-GF-24RE	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/18/07	07/13/07
Y3514-05	MW-GF-23	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/16/07	07/13/07
Y3514-06	MW-GF-22	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/18/07	07/13/07
Y3514-07	MW-16-60	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/18/07	07/13/07
Y3514-08	MW-15-60	WATER	<u>SVOC-STARS</u>	8270	07/09/07	07/16/07	07/17/07	07/13/07
Y3514-09	MW-GF-26	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/17/07	07/13/07
Y3514-10	MW-GF-20	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/17/07	07/13/07
Y3514-11	MW-GF-27	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/17/07	07/13/07
Y3514-12	MW-GF-17	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/18/07	07/13/07
Y3514-13	MW-GF-16	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/18/07	07/13/07

Y3514-14	MW-GF-15	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/16/07	07/13/07
Y3514-15	MW-GF-06	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/18/07	07/13/07
Y3514-16	MW-GF-07	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/16/07	07/13/07
Y3514-17	MW-GF-08	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/18/07	07/13/07
Y3514-18	MW-GF-09	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/16/07	07/13/07
Y3514-19	MW-GF-02	WATER	<u>SVOC-STARS</u>	8270	07/10/07	07/16/07	07/18/07	07/13/07
Y3514-20	MW-GF-05	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/17/07	07/13/07

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**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y3514

MATRIX: Water

METHOD: 8260

- | | NA | NO | YES |
|--|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications
BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY
ASP CLP, CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for
8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed before sample analysis and
continuing calibration performed within 24 hours of sample analysis for 600 series and
12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8260 and CLP. | | | |
| b. System Performance Check Compounds for 8260 and CLP | | | |

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | | | |
|---|--|--|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
| 7. Surrogate Recoveries Meet Criteria | | | ✓ |
- If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene, p-Isopropyltoluene, n-Butylbenzene and Naphthalene. The MSD recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene and Naphthalene. The Blank Spike met requirements for all samples except for Methyl tert-butyl Ether, n-Butylbenzene and Naphthalene.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Initial Calibration met the requirements except for n-Butylbenzene. The Continuing Calibration Methyl tert-butyl Ether, Toluene, Ethyl Benzene, Isopropylbenzene, n-propylbenzene, 1,2,4-Trimethylbenzene and Naphthalene but they were not detected in samples.

Kildred Reyes
QA REVIEW

7/26/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y3514

MATRIX: Water

METHOD: 8270\3510

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,
CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | |
| b. System Performance Check Compounds for 8270 and CLP | | | |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for MW-GF-24, MW-GF-24RE and MW-GF-08.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

K. J. Deane
QA REVIEW

7/26/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-14	SDG No.:	Y3514
Lab Sample ID:	Y3514-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011722.D	1	7/16/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	50.92	102 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.44	101 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	50.77	102 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	52.18	104 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	727971	3.93
540-36-3	1,4-Difluorobenzene	1263244	4.57
3114-55-4	Chlorobenzene-d5	1363723	8.77
3855-82-1	1,4-Dichlorobenzene-d4	675701	11.12

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-13	SDG No.:	Y3514
Lab Sample ID:	Y3514-02	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011745.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.08	106 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.3	97 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.86	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	50.62	101 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	696059	3.93			
540-36-3	1,4-Difluorobenzene	1240563	4.57			
3114-55-4	Chlorobenzene-d5	1285917	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	630096	11.11			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-12	SDG No.:	Y3514
Lab Sample ID:	Y3514-03	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011746.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.13	104 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	47.63	95 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	47.67	95 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	50.68	101 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	707182	3.93			
540-36-3	1,4-Difluorobenzene	1236718	4.57			
3114-55-4	Chlorobenzene-d5	1289498	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	616845	11.12			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-24	SDG No.:	Y3514
Lab Sample ID:	Y3514-04	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011747.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	53.18	106 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.19	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	47.75	96 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	50.57	101 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	686011	3.93
540-36-3	1,4-Difluorobenzene	1220632	4.57
3114-55-4	Chlorobenzene-d5	1295925	8.77
3855-82-1	1,4-Dichlorobenzene-d4	594987	11.12

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-23	SDG No.:	Y3514
Lab Sample ID:	Y3514-05	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011748.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	53	106 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	47.2	94 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.21	96 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.71	99 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	682188	3.93
540-36-3	1,4-Difluorobenzene	1204796	4.57
3114-55-4	Chlorobenzene-d5	1251717	8.76
3855-82-1	1,4-Dichlorobenzene-d4	600898	11.12

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-22	SDG No.:	Y3514
Lab Sample ID:	Y3514-06	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011749.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	4.7	J	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	13		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	1.9	J	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	5.9		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	20		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.5	105 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	50.48	101 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	50.12	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	55.22	110 %	76 - 119		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	654871	3.93			
540-36-3	1,4-Difluorobenzene	1142753	4.58			
3114-55-4	Chlorobenzene-d5	1238197	8.76			
3855-82-1	1,4-Dichlorobenzene-d4	612657	11.12			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-16-60	SDG No.:	Y3514
Lab Sample ID:	Y3514-07	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011759.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.11	98 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.74	97 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	47.81	96 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	48.07	96 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	791410	3.94			
540-36-3	1,4-Difluorobenzene	1371710	4.58			
3114-55-4	Chlorobenzene-d5	1389704	8.79			
3855-82-1	1,4-Dichlorobenzene-d4	702296	11.14			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-15-60	SDG No.:	Y3514
Lab Sample ID:	Y3514-08	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011760.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.77	100 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	49.55	99 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	50.07	100 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	51.51	103 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	746802	3.94
540-36-3	1,4-Difluorobenzene	1281461	4.58
3114-55-4	Chlorobenzene-d5	1348535	8.78
3855-82-1	1,4-Dichlorobenzene-d4	671316	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-26	SDG No.:	Y3514
Lab Sample ID:	Y3514-09	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011761.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.03	102 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.23	96 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.36	97 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.52	99 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	730284	3.94			
540-36-3	1,4-Difluorobenzene	1271252	4.58			
3114-55-4	Chlorobenzene-d5	1329720	8.79			
3855-82-1	1,4-Dichlorobenzene-d4	641187	11.14			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-20	SDG No.:	Y3514
Lab Sample ID:	Y3514-10	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011762.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.08	104 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.66	97 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.01	96 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4	99 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	703491	3.94
540-36-3	1,4-Difluorobenzene	1240746	4.59
3114-55-4	Chlorobenzene-d5	1297834	8.77
3855-82-1	1,4-Dichlorobenzene-d4	611208	11.12

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-27	SDG No.:	Y3514
Lab Sample ID:	Y3514-11	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011763.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.01	108 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.32	97 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.25	99 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	48.71	97 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	683088	3.94			
540-36-3	1,4-Difluorobenzene	1227828	4.58			
3114-55-4	Chlorobenzene-d5	1258788	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	604531	11.12			

U = Not Detected
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 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-17	SDG No.:	Y3514
Lab Sample ID:	Y3514-12	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011764.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.59	105 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	47.7	95 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.25	97 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	50.95	102 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	674288	3.94			
540-36-3	1,4-Difluorobenzene	1195157	4.58			
3114-55-4	Chlorobenzene-d5	1258624	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	588007	11.13			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-16	SDG No.:	Y3514
Lab Sample ID:	Y3514-13	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011765.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.36	109 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	50.42	101 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.94	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	50.26	101 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	655377	3.94			
540-36-3	1,4-Difluorobenzene	1169125	4.58			
3114-55-4	Chlorobenzene-d5	1248837	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	594331	11.13			

U = Not Detected
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J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-15	SDG No.:	Y3514
Lab Sample ID:	Y3514-14	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011766.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	4.2	J	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	5.9		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	6.0		5.0	0.49	ug/L
91-20-3	Naphthalene	12		5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.42	107 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	49.92	100 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.48	99 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.36	103 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	665425	3.94			
540-36-3	1,4-Difluorobenzene	1149131	4.58			
3114-55-4	Chlorobenzene-d5	1208647	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	618153	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound



Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-06	SDG No.:	Y3514
Lab Sample ID:	Y3514-15	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Woi:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011767.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.9	98 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	47.82	96 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.79	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.15	98 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	815439	3.94			
540-36-3	1,4-Difluorobenzene	1399837	4.59			
3114-55-4	Chlorobenzene-d5	1470776	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	709748	11.12			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-07	SDG No.:	Y3514
Lab Sample ID:	Y3514-16	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011768.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	5.5		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	3.4	J	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	6.6		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	50.52	101 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.23	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.02	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.32	99 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	782025	3.93
540-36-3	1,4-Difluorobenzene	1370514	4.58
3114-55-4	Chlorobenzene-d5	1436461	8.77
3855-82-1	1,4-Dichlorobenzene-d4	686280	11.13

U = Not Detected

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MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-08	SDG No.:	Y3514
Lab Sample ID:	Y3514-17	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011769.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	7.6		5.0	0.44	ug/L
103-65-1	N-propylbenzene	9.0		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	5.6		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	5.3		5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.16	98 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	47.9	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.15	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.38	99 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	830632	3.94
540-36-3	1,4-Difluorobenzene	1455020	4.58
3114-55-4	Chlorobenzene-d5	1539801	8.78
3855-82-1	1,4-Dichlorobenzene-d4	746598	11.13

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-09	SDG No.:	Y3514
Lab Sample ID:	Y3514-18	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011770.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	47.89	96 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	47.28	95 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.31	99 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.15	98 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	872482	3.95
540-36-3	1,4-Difluorobenzene	1526850	4.58
3114-55-4	Chlorobenzene-d5	1563578	8.77
3855-82-1	1,4-Dichlorobenzene-d4	756772	11.13

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E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-02	SDG No.:	Y3514
Lab Sample ID:	Y3514-19	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011771.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	46.49	93 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	46.78	94 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.42	99 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	50.56	101 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	857942	3.94
540-36-3	1,4-Difluorobenzene	1488549	4.59
3114-55-4	Chlorobenzene-d5	1562672	8.77
3855-82-1	1,4-Dichlorobenzene-d4	757122	11.13

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RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-05	SDG No.:	Y3514
Lab Sample ID:	Y3514-20	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011772.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	47.7	95 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	46.55	93 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.43	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.14	98 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	857493	3.94
540-36-3	1,4-Difluorobenzene	1499711	4.59
3114-55-4	Chlorobenzene-d5	1551431	8.77
3855-82-1	1,4-Dichlorobenzene-d4	745639	11.13

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y3514
Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSD0716-01	VLCS01	1,2-Dichloroethane-d4	50	53.42	107		72.00	119.00
		Dibromofluoromethane	50	52.91	106		85.00	115.00
		Toluene-d8	50	50.01	100		81.00	120.00
		4-Bromofluorobenzene	50	52.8	106		76.00	119.00
BSD0717-01	VLCS02	1,2-Dichloroethane-d4	50	52.4	105		72.00	119.00
		Dibromofluoromethane	50	50.85	102		85.00	115.00
		Toluene-d8	50	48.47	97		81.00	120.00
		4-Bromofluorobenzene	50	51.02	102		76.00	119.00
BSD0718-01	VLCS03	1,2-Dichloroethane-d4	50	51.11	102		72.00	119.00
		Dibromofluoromethane	50	50.6	101		85.00	115.00
		Toluene-d8	50	49.14	98		81.00	120.00
		4-Bromofluorobenzene	50	51.21	102		76.00	119.00
VBD0716-01	VBLK01	1,2-Dichloroethane-d4	50	50.46	101		72.00	119.00
		Dibromofluoromethane	50	50.63	101		85.00	115.00
		Toluene-d8	50	48.6	97		81.00	120.00
		4-Bromofluorobenzene	50	49.98	100		76.00	119.00
VBD0717-01	VBLK02	1,2-Dichloroethane-d4	50	49.85	100		72.00	119.00
		Dibromofluoromethane	50	48.19	96		85.00	115.00
		Toluene-d8	50	47.7	95		81.00	120.00
		4-Bromofluorobenzene	50	48.12	96		76.00	119.00
VBD0718-01	VBLK03	1,2-Dichloroethane-d4	50	49.59	99		72.00	119.00
		Dibromofluoromethane	50	47.75	96		85.00	115.00
		Toluene-d8	50	48.19	96		81.00	120.00
		4-Bromofluorobenzene	50	49.75	100		76.00	119.00
Y3477-08MS	Y3477-08MS	1,2-Dichloroethane-d4	50	54.47	109		72.00	119.00
		Dibromofluoromethane	50	50.09	100		85.00	115.00
		Toluene-d8	50	49.97	100		81.00	120.00
		4-Bromofluorobenzene	50	53.34	107		76.00	119.00
Y3477-09MSD	Y3477-09MSD	1,2-Dichloroethane-d4	50	50.82	102		72.00	119.00
		Dibromofluoromethane	50	48.42	97		85.00	115.00
		Toluene-d8	50	48.19	96		81.00	120.00
		4-Bromofluorobenzene	50	50.4	101		76.00	119.00
Y3514-01	MW-GF-14	1,2-Dichloroethane-d4	50	50.92	102		72.00	119.00
		Dibromofluoromethane	50	50.44	101		85.00	115.00
		Toluene-d8	50	50.77	102		81.00	120.00
		4-Bromofluorobenzene	50	52.18	104		76.00	119.00
Y3514-02	MW-GF-13	1,2-Dichloroethane-d4	50	53.08	106		72.00	119.00
		Dibromofluoromethane	50	48.3	97		85.00	115.00
		Toluene-d8	50	48.86	98		81.00	120.00
		4-Bromofluorobenzene	50	50.62	101		76.00	119.00
Y3514-03	MW-GF-12	1,2-Dichloroethane-d4	50	52.13	104		72.00	119.00

Surrogate Summary
SW-846SDG No.: Y3514
Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y3514-03	MW-GF-12	Dibromofluoromethane	50	47.63	95		85.00	115.00
		Toluene-d8	50	47.67	95		81.00	120.00
		4-Bromofluorobenzene	50	50.68	101		76.00	119.00
Y3514-04	MW-GF-24	1,2-Dichloroethane-d4	50	53.18	106		72.00	119.00
		Dibromofluoromethane	50	48.19	96		85.00	115.00
		Toluene-d8	50	47.75	96		81.00	120.00
Y3514-05	MW-GF-23	4-Bromofluorobenzene	50	50.57	101		76.00	119.00
		1,2-Dichloroethane-d4	50	53	106		72.00	119.00
		Dibromofluoromethane	50	47.2	94		85.00	115.00
Y3514-06	MW-GF-22	Toluene-d8	50	48.21	96		81.00	120.00
		4-Bromofluorobenzene	50	49.71	99		76.00	119.00
		1,2-Dichloroethane-d4	50	52.5	105		72.00	119.00
Y3514-07	MW-16-60	Dibromofluoromethane	50	50.48	101		85.00	115.00
		Toluene-d8	50	50.12	100		81.00	120.00
		4-Bromofluorobenzene	50	55.22	110		76.00	119.00
Y3514-08	MW-15-60	1,2-Dichloroethane-d4	50	49.11	98		72.00	119.00
		Dibromofluoromethane	50	48.74	97		85.00	115.00
		Toluene-d8	50	47.81	96		81.00	120.00
Y3514-09	MW-GF-26	4-Bromofluorobenzene	50	48.07	96		76.00	119.00
		1,2-Dichloroethane-d4	50	49.77	100		72.00	119.00
		Dibromofluoromethane	50	49.55	99		85.00	115.00
Y3514-10	MW-GF-20	Toluene-d8	50	50.07	100		81.00	120.00
		4-Bromofluorobenzene	50	51.51	103		76.00	119.00
		1,2-Dichloroethane-d4	50	51.03	102		72.00	119.00
Y3514-11	MW-GF-27	Dibromofluoromethane	50	48.23	96		85.00	115.00
		Toluene-d8	50	48.36	97		81.00	120.00
		4-Bromofluorobenzene	50	49.52	99		76.00	119.00
Y3514-12	MW-GF-17	1,2-Dichloroethane-d4	50	52.08	104		72.00	119.00
		Dibromofluoromethane	50	48.66	97		85.00	115.00
		Toluene-d8	50	48.01	96		81.00	120.00
Y3514-13	MW-GF-16	4-Bromofluorobenzene	50	49.4	99		76.00	119.00
		1,2-Dichloroethane-d4	50	54.01	108		72.00	119.00
		Dibromofluoromethane	50	48.32	97		85.00	115.00
Y3514-12	MW-GF-17	Toluene-d8	50	49.25	99		81.00	120.00
		4-Bromofluorobenzene	50	48.71	97		76.00	119.00
		1,2-Dichloroethane-d4	50	52.59	105		72.00	119.00
Y3514-13	MW-GF-16	Dibromofluoromethane	50	47.7	95		85.00	115.00
		Toluene-d8	50	48.25	97		81.00	120.00
		4-Bromofluorobenzene	50	50.95	102		76.00	119.00
Y3514-13	MW-GF-16	1,2-Dichloroethane-d4	50	54.36	109		72.00	119.00
		Dibromofluoromethane	50	50.42	101		85.00	115.00

Surrogate Summary
SW-846

SDG No.: Y3514
Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y3514-13	MW-GF-16	Toluene-d8	50	48.94	98		81.00	120.00
		4-Bromofluorobenzene	50	50.26	101		76.00	119.00
Y3514-14	MW-GF-15	1,2-Dichloroethane-d4	50	53.42	107		72.00	119.00
		Dibromofluoromethane	50	49.92	100		85.00	115.00
		Toluene-d8	50	49.48	99		81.00	120.00
Y3514-15	MW-GF-06	4-Bromofluorobenzene	50	51.36	103		76.00	119.00
		1,2-Dichloroethane-d4	50	48.9	98		72.00	119.00
		Dibromofluoromethane	50	47.82	96		85.00	115.00
		Toluene-d8	50	49.79	100		81.00	120.00
Y3514-16	MW-GF-07	4-Bromofluorobenzene	50	49.15	98		76.00	119.00
		1,2-Dichloroethane-d4	50	50.52	101		72.00	119.00
		Dibromofluoromethane	50	48.23	96		85.00	115.00
		Toluene-d8	50	49.02	98		81.00	120.00
Y3514-17	MW-GF-08	4-Bromofluorobenzene	50	49.32	99		76.00	119.00
		1,2-Dichloroethane-d4	50	49.16	98		72.00	119.00
		Dibromofluoromethane	50	47.9	96		85.00	115.00
		Toluene-d8	50	49.15	98		81.00	120.00
Y3514-18	MW-GF-09	4-Bromofluorobenzene	50	49.38	99		76.00	119.00
		1,2-Dichloroethane-d4	50	47.89	96		72.00	119.00
		Dibromofluoromethane	50	47.28	95		85.00	115.00
		Toluene-d8	50	49.31	99		81.00	120.00
Y3514-19	MW-GF-02	4-Bromofluorobenzene	50	49.15	98		76.00	119.00
		1,2-Dichloroethane-d4	50	46.49	93		72.00	119.00
		Dibromofluoromethane	50	46.78	94		85.00	115.00
		Toluene-d8	50	49.42	99		81.00	120.00
Y3514-20	MW-GF-05	4-Bromofluorobenzene	50	50.56	101		76.00	119.00
		1,2-Dichloroethane-d4	50	47.7	95		72.00	119.00
		Dibromofluoromethane	50	46.55	93		85.00	115.00
		Toluene-d8	50	48.43	97		81.00	120.00
		4-Bromofluorobenzene	50	49.14	98		76.00	119.00

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Y3514

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: Y3477-08MS										
Y3477-08MS	Methyl tert-butyl Ether	50	0.0	60	120			72	127	
	Benzene	50	0.0	55	110			79	130	
	Toluene	50	0.0	52	104			81	133	
	Ethyl Benzene	50	0.0	48	96			82	124	
	m/p-Xylenes	100	2.5	100	98			80	126	
	o-Xylene	50	0.0	52	104			84	127	
	Isopropylbenzene	50	0.0	48	96			77	117	
	N-propylbenzene	50	0.0	49	98			76	118	
	1,3,5-Trimethylbenzene	50	0.0	50	100			76	117	
	tert-Butylbenzene	50	0.0	55	110			70	116	
	1,2,4-Trimethylbenzene	50	0.0	62	124		*	78	116	
	Sec-butylbenzene	50	0.0	57	114			76	116	
	p-Isopropyltoluene	50	0.0	59	118		*	73	112	
	n-Butylbenzene	50	0.0	77	154		*	73	115	
	Naphthalene	50	0.0	75	150		*	60	123	
Client Sample ID: Y3477-09MSD										
Y3477-09MSD	Methyl tert-butyl Ether	50	0.0	57	114	5		72	127	12
	Benzene	50	0.0	55	110	0		79	130	11
	Toluene	50	0.0	52	104	0		81	133	13
	Ethyl Benzene	50	0.0	49	98	2		82	124	20
	m/p-Xylenes	100	2.5	100	98	0		80	126	20
	o-Xylene	50	0.0	53	106	2		84	127	20
	Isopropylbenzene	50	0.0	52	104	8		77	117	20
	N-propylbenzene	50	0.0	52	104	6		76	118	20
	1,3,5-Trimethylbenzene	50	0.0	53	106	6		76	117	20
	tert-Butylbenzene	50	0.0	57	114	4		70	116	20
	1,2,4-Trimethylbenzene	50	0.0	65	130	5	*	78	116	20
	Sec-butylbenzene	50	0.0	59	118	3	*	76	116	20
	p-Isopropyltoluene	50	0.0	61	122	3	*	73	112	20
	n-Butylbenzene	50	0.0	81	162	5	*	73	115	20
	Naphthalene	50	0.0	79	158	5	*	60	123	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y3514

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSD0716-01	Methyl tert-butyl Ether	20	26	130			70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	37	93			70	130	
	o-Xylene	20	18	90			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	19	95			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	20	100			70	130	
	1,2,4-Trimethylbenzene	20	23	115			70	130	
	Sec-butylbenzene	20	21	105			70	130	
	p-Isopropyltoluene	20	24	120			70	130	
	n-Butylbenzene	20	27	135		*	70	130	
	Naphthalene	20	26	130			70	130	
BSD0717-01	Methyl tert-butyl Ether	20	27	135		*	70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	38	95			70	130	
	o-Xylene	20	18	90			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	18	90			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	21	105			70	130	
	1,2,4-Trimethylbenzene	20	23	115			70	130	
	Sec-butylbenzene	20	20	100			70	130	
	p-Isopropyltoluene	20	22	110			70	130	
	n-Butylbenzene	20	26	130			70	130	
	Naphthalene	20	27	135		*	70	130	
BSD0718-01	Methyl tert-butyl Ether	20	21	105			70	130	
	Benzene	20	16	80			70	130	
	Toluene	20	16	80			70	130	
	Ethyl Benzene	20	15	75			70	130	
	m/p-Xylenes	40	32	80			70	130	
	o-Xylene	20	16	80			70	130	
	Isopropylbenzene	20	16	80			70	130	
	N-propylbenzene	20	16	80			70	130	
	1,3,5-Trimethylbenzene	20	16	80			70	130	
	tert-Butylbenzene	20	18	90			70	130	
	1,2,4-Trimethylbenzene	20	20	100			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y3514

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSD0718-01	Sec-butylbenzene	20	18	90			70	130	
	p-Isopropyltoluene	20	20	100			70	130	
	n-Butylbenzene	20	23	115			70	130	
	Naphthalene	20	23	115			70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y3514
Lab Sample ID:	BSD0716-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011701.D	1	7/16/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	26		5.0	0.28	ug/L
71-43-2	Benzene	20		5.0	0.39	ug/L
108-88-3	Toluene	19		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	17		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	37		10	1.2	ug/L
95-47-6	o-Xylene	18		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	19		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	20		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	23		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	21		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	24		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	27		5.0	0.49	ug/L
91-20-3	Naphthalene	26		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	53.42	107 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	52.91	106 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	50.01	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	52.8	106 %	76 - 119		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	721781	3.93			
540-36-3	1,4-Difluorobenzene	1241897	4.57			
3114-55-4	Chlorobenzene-d5	1349260	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	698107	11.12			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y3514
Lab Sample ID:	BSD0717-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011730.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	27		5.0	0.28	ug/L
71-43-2	Benzene	20		5.0	0.39	ug/L
108-88-3	Toluene	19		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	17		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	38		10	1.2	ug/L
95-47-6	o-Xylene	18		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	18		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	21		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	23		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	20		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	22		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	26		5.0	0.49	ug/L
91-20-3	Naphthalene	27		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.4	105 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	50.85	102 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.47	97 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	51.02	102 %	76 - 119		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	726997	3.92			
540-36-3	1,4-Difluorobenzene	1315381	4.57			
3114-55-4	Chlorobenzene-d5	1364063	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	699466	11.12			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS03	SDG No.:	Y3514
Lab Sample ID:	BSD0718-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011758.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	21		5.0	0.28	ug/L
71-43-2	Benzene	16		5.0	0.39	ug/L
108-88-3	Toluene	16		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	15		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	32		10	1.2	ug/L
95-47-6	o-Xylene	16		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	16		5.0	0.44	ug/L
103-65-1	N-propylbenzene	16		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	16		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	18		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	20		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	18		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	20		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	23		5.0	0.49	ug/L
91-20-3	Naphthalene	23		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.11	102 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.6	101 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.14	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	51.21	102 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	760320	3.94		
540-36-3	1,4-Difluorobenzene	1320072	4.58		
3114-55-4	Chlorobenzene-d5	1349713	8.77		
3855-82-1	1,4-Dichlorobenzene-d4	711612	11.13		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech

Contract: GANN01

Lab Code: CHEM Case No.: Y3514

SAS No.: Y3514 SDG NO.: Y3514

Lab File ID: VD011700.D

Lab Sample ID: VBD0716-01

Date Analyzed: 7/16/2007

Time Analyzed: 11:39

GC Column: RTX-VMS ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOID

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSD0716-01	VD011701.D	12:08
Y3477-07MS	Y3477-08MS	VD011708.D	15:29
Y3477-07MSD	Y3477-09MSD	VD011709.D	15:58
MW-GF-14	Y3514-01	VD011722.D	22:09

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y3514
Lab Sample ID:	VBD0716-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011700.D	1	7/16/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	50.46	101 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.63	101 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.6	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.98	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	746164	3.94
540-36-3	1,4-Difluorobenzene	1286980	4.58
3114-55-4	Chlorobenzene-d5	1322310	8.77
3855-82-1	1,4-Dichlorobenzene-d4	698489	11.12

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: Chemtech Contract: GANN01

Lab Code: CHEM Case No.: Y3514 SAS No.: Y3514 SDG NO.: Y3514

Lab File ID: VD011729.D Lab Sample ID: VBD0717-01

Date Analyzed: 7/17/2007 Time Analyzed: 12:56

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSD0717-01	VD011730.D	13:25
MW-GF-13	Y3514-02	VD011745.D	20:33
MW-GF-12	Y3514-03	VD011746.D	21:01
MW-GF-24	Y3514-04	VD011747.D	21:30
MW-GF-23	Y3514-05	VD011748.D	21:58
MW-GF-22	Y3514-06	VD011749.D	22:27

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y3514
Lab Sample ID:	VBD0717-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011729.D	1	7/17/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.85	100 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.19	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	47.7	95 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	48.12	96 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	807830	3.93		
540-36-3	1,4-Difluorobenzene	1411443	4.57		
3114-55-4	Chlorobenzene-d5	1423558	8.76		
3855-82-1	1,4-Dichlorobenzene-d4	693518	11.12		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech Contract: GANN01
 Lab Code: CHEM Case No.: Y3514 SAS No.: Y3514 SDG NO.: Y3514
 Lab File ID: VD011757.D Lab Sample ID: VBD0718-01
 Date Analyzed: 7/18/2007 Time Analyzed: 12:50
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS03	BSD0718-01	VD011758.D	13:20
MW-16-60	Y3514-07	VD011759.D	13:50
MW-15-60	Y3514-08	VD011760.D	14:18
MW-GF-26	Y3514-09	VD011761.D	14:47
MW-GF-20	Y3514-10	VD011762.D	15:15
MW-GF-27	Y3514-11	VD011763.D	15:44
MW-GF-17	Y3514-12	VD011764.D	16:12
MW-GF-16	Y3514-13	VD011765.D	16:41
MW-GF-15	Y3514-14	VD011766.D	17:09
MW-GF-06	Y3514-15	VD011767.D	17:38
MW-GF-07	Y3514-16	VD011768.D	18:06
MW-GF-08	Y3514-17	VD011769.D	18:35
MW-GF-09	Y3514-18	VD011770.D	19:04
MW-GF-02	Y3514-19	VD011771.D	19:32
MW-GF-05	Y3514-20	VD011772.D	20:00

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK03	SDG No.:	Y3514
Lab Sample ID:	VBD0718-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011757.D	1	7/18/2007	VD061207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.59	99 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	47.75	96 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.19	96 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.75	100 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	767823	3.94			
540-36-3	1,4-Difluorobenzene	1343362	4.58			
3114-55-4	Chlorobenzene-d5	1351159	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	672079	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-14	SDG No.:	Y3514
Lab Sample ID:	Y3514-01	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	900.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013914.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.830	U	11	0.830	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.920	U	11	0.920	ug/L
53-70-3	Dibenz(a,h)anthracene	0.960	U	11	0.960	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	98.38	98 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	90.07	90 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	86.94	87 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6962	3.98			
1146-65-2	Naphthalene-d8	27647	5.13			
15067-26-2	Acenaphthene-d10	14215	6.83			
1517-22-2	Phenanthrene-d10	21752	8.28			
1719-03-5	Chrysene-d12	17840	10.87			
1520-96-3	Perylene-d12	15129	12.33			

U = Not Detected
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 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-13	SDG No.:	Y3514
Lab Sample ID:	Y3514-02	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	920.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013943.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.900	U	11	0.900	ug/L
53-70-3	Dibenz(a,h)anthracene	0.940	U	11	0.940	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	96.41	96 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	90.43	90 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	84.77	85 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6361	3.98			
1146-65-2	Naphthalene-d8	24966	5.14			
15067-26-2	Acenaphthene-d10	12604	6.83			
1517-22-2	Phenanthrene-d10	18530	8.28			
1719-03-5	Chrysene-d12	15034	10.87			
1520-96-3	Perylene-d12	13509	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-12	SDG No.:	Y3514
Lab Sample ID:	Y3514-03	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	910.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013913.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.820	U	11	0.820	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.910	U	11	0.910	ug/L
53-70-3	Dibenz(a,h)anthracene	0.950	U	11	0.950	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	103.84	104 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	93.53	94 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	100.55	101 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6909	3.98			
1146-65-2	Naphthalene-d8	27479	5.13			
15067-26-2	Acenaphthene-d10	14312	6.83			
1517-22-2	Phenanthrene-d10	21626	8.28			
1719-03-5	Chrysene-d12	17909	10.87			
1520-96-3	Perylene-d12	14927	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-24	SDG No.:	Y3514
Lab Sample ID:	Y3514-04	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013944.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	2.72	3 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	81.76	82 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	31.83	32 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6592	3.98			
1146-65-2	Naphthalene-d8	25760	5.14			
15067-26-2	Acenaphthene-d10	13013	6.83			
1517-22-2	Phenanthrene-d10	19434	8.28			
1719-03-5	Chrysene-d12	15734	10.88			
1520-96-3	Perylene-d12	13911	12.33			

U = Not Detected
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MDL = Method Detection Limit
E = Value Exceeds Calibration Range

J = Estimated Value
B = Analyte Found In Associated Method Blank
N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-24RE	SDG No.:	Y3514
Lab Sample ID:	Y3514-04RE	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013961.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	2.82	3 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	81.15	81 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	30.87	31 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6077	3.96			
1146-65-2	Naphthalene-d8	23928	5.12			
15067-26-2	Acenaphthene-d10	12628	6.81			
1517-22-2	Phenanthrene-d10	19794	8.26			
1719-03-5	Chrysene-d12	17105	10.86			
1520-96-3	Perylene-d12	14726	12.30			

U = Not Detected
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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-23	SDG No.:	Y3514
Lab Sample ID:	Y3514-05	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	920.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013900.D	1	7/16/2007	7/16/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.900	U	11	0.900	ug/L
53-70-3	Dibenz(a,h)anthracene	0.940	U	11	0.940	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	96.68	97 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	88.78	89 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	48.08	48 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7751	3.99			
1146-65-2	Naphthalene-d8	29989	5.15			
15067-26-2	Acenaphthene-d10	15629	6.84			
1517-22-2	Phenanthrene-d10	25226	8.30			
1719-03-5	Chrysene-d12	21466	10.89			
1520-96-3	Perylene-d12	18796	12.35			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-22	SDG No.:	Y3514
Lab Sample ID:	Y3514-06	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	900.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013960.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	5.9	J	11	1.5	ug/L
83-32-9	Acenaphthene	1.6	J	11	1.5	ug/L
86-73-7	Fluorene	4.3	J	11	1.6	ug/L
85-01-8	Phenanthrene	3.9	J	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.830	U	11	0.830	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.920	U	11	0.920	ug/L
53-70-3	Dibenz(a,h)anthracene	0.960	U	11	0.960	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.18	85 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	81.51	82 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	92.34	92 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	5639	3.96			
1146-65-2	Naphthalene-d8	22037	5.12			
15067-26-2	Acenaphthene-d10	11414	6.81			
1517-22-2	Phenanthrene-d10	17529	8.26			
1719-03-5	Chrysene-d12	15453	10.86			
1520-96-3	Perylene-d12	13690	12.30			

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 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-16-60	SDG No.:	Y3514
Lab Sample ID:	Y3514-07	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	880.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013940.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	2.3	J	11	1.6	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	11	1.4	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	11	1.3	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.850	U	11	0.850	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.940	U	11	0.940	ug/L
53-70-3	Dibenz(a,h)anthracene	0.980	U	11	0.980	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	105.13	105 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	96.09	96 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	59.55	60 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6237	3.98			
1146-65-2	Naphthalene-d8	24368	5.13			
15067-26-2	Acenaphthene-d10	12095	6.83			
1517-22-2	Phenanthrene-d10	17853	8.28			
1719-03-5	Chrysene-d12	14415	10.88			
1520-96-3	Perylene-d12	12975	12.34			

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 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/9/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-15-60	SDG No.:	Y3514
Lab Sample ID:	Y3514-08	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	880.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013910.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	11	1.6	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	11	1.4	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	11	1.3	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.850	U	11	0.850	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.940	U	11	0.940	ug/L
53-70-3	Dibenz(a,h)anthracene	0.980	U	11	0.980	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	101.97	102 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	94.76	95 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	106.71	107 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6989	3.98			
1146-65-2	Naphthalene-d8	27455	5.14			
15067-26-2	Acenaphthene-d10	13936	6.83			
1517-22-2	Phenanthrene-d10	21134	8.28			
1719-03-5	Chrysene-d12	17487	10.87			
1520-96-3	Perylene-d12	14723	12.33			

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J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-26	SDG No.:	Y3514
Lab Sample ID:	Y3514-09	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	850.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013911.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	12	1.6	ug/L
83-32-9	Acenaphthene	1.6	U	12	1.6	ug/L
86-73-7	Fluorene	1.7	U	12	1.7	ug/L
85-01-8	Phenanthrene	1.7	U	12	1.7	ug/L
120-12-7	Anthracene	1.6	U	12	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	12	1.4	ug/L
129-00-0	Pyrene	1.7	U	12	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	12	1.3	ug/L
218-01-9	Chrysene	2.0	U	12	2.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.880	U	12	0.880	ug/L
207-08-9	Benzo(k)fluoranthene	2.2	U	12	2.2	ug/L
50-32-8	Benzo(a)pyrene	1.4	U	12	1.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.970	U	12	0.970	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	12	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.3	U	12	1.3	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	98.17	98 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	91.69	92 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	95.52	96 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7083	3.98			
1146-65-2	Naphthalene-d8	27719	5.14			
15067-26-2	Acenaphthene-d10	14120	6.83			
1517-22-2	Phenanthrene-d10	22253	8.28			
1719-03-5	Chrysene-d12	18002	10.87			
1520-96-3	Perylene-d12	15014	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-20	SDG No.:	Y3514
Lab Sample ID:	Y3514-10	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	910.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013912.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.820	U	11	0.820	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.910	U	11	0.910	ug/L
53-70-3	Dibenz(a,h)anthracene	0.950	U	11	0.950	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	94.94	95 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	87.11	87 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	74.27	74 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7052	3.98			
1146-65-2	Naphthalene-d8	27666	5.13			
15067-26-2	Acenaphthene-d10	14053	6.83			
1517-22-2	Phenanthrene-d10	21970	8.28			
1719-03-5	Chrysene-d12	17621	10.87			
1520-96-3	Perylene-d12	14982	12.33			

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-27	SDG No.:	Y3514
Lab Sample ID:	Y3514-11	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	870.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013959.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	11	1.6	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	11	1.4	ug/L
129-00-0	Pyrene	1.7	U	11	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	11	1.3	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.860	U	11	0.860	ug/L
207-08-9	Benzo(k)fluoranthene	2.2	U	11	2.2	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.950	U	11	0.950	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	11	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.92	96 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	88.67	89 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	82.78	83 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	5768	3.96			
1146-65-2	Naphthalene-d8	22648	5.12			
15067-26-2	Acenaphthene-d10	12091	6.81			
1517-22-2	Phenanthrene-d10	18771	8.26			
1719-03-5	Chrysene-d12	16312	10.85			
1520-96-3	Perylene-d12	13955	12.30			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-17	SDG No.:	Y3514
Lab Sample ID:	Y3514-12	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	870.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013942.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	11	1.6	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	11	1.4	ug/L
129-00-0	Pyrene	1.7	U	11	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	11	1.3	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.860	U	11	0.860	ug/L
207-08-9	Benzo(k)fluoranthene	2.2	U	11	2.2	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.950	U	11	0.950	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	11	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	97.47	97 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	90.78	91 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	87.72	88 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6192	3.98			
1146-65-2	Naphthalene-d8	24653	5.13			
15067-26-2	Acenaphthene-d10	12418	6.83			
1517-22-2	Phenanthrene-d10	18440	8.28			
1719-03-5	Chrysene-d12	14886	10.88			
1520-96-3	Perylene-d12	12935	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-16	SDG No.:	Y3514
Lab Sample ID:	Y3514-13	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	900.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013903.D	1	7/16/2007	7/16/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.830	U	11	0.830	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.920	U	11	0.920	ug/L
53-70-3	Dibenz(a,h)anthracene	0.960	U	11	0.960	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	99.54	100 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	91.28	91 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	91.44	91 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8731	3.99			
1146-65-2	Naphthalene-d8	34628	5.15			
15067-26-2	Acenaphthene-d10	18099	6.84			
1517-22-2	Phenanthrene-d10	27890	8.30			
1719-03-5	Chrysene-d12	23734	10.89			
1520-96-3	Perylene-d12	20826	12.35			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-15	SDG No.:	Y3514
Lab Sample ID:	Y3514-14	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	950.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013945.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.8	J	11	1.5	ug/L
83-32-9	Acenaphthene	1.4	U	11	1.4	ug/L
86-73-7	Fluorene	3.2	J	11	1.5	ug/L
85-01-8	Phenanthrene	2.5	J	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.5	U	11	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.790	U	11	0.790	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	11	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.870	U	11	0.870	ug/L
53-70-3	Dibenz(a,h)anthracene	0.910	U	11	0.910	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	11	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.67	96 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	88.79	89 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	84.78	85 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6795	3.98			
1146-65-2	Naphthalene-d8	25992	5.14			
15067-26-2	Acenaphthene-d10	12870	6.83			
1517-22-2	Phenanthrene-d10	18836	8.28			
1719-03-5	Chrysene-d12	15439	10.87			
1520-96-3	Perylene-d12	14139	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-06	SDG No.:	Y3514
Lab Sample ID:	Y3514-15	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	930.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013901.D	1	7/16/2007	7/16/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.4	U	11	1.4	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.890	U	11	0.890	ug/L
53-70-3	Dibenz(a,h)anthracene	0.930	U	11	0.930	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	111.21	111 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	96.03	96 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	60.68	61 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8087	3.99			
1146-65-2	Naphthalene-d8	31914	5.15			
15067-26-2	Acenaphthene-d10	16964	6.84			
1517-22-2	Phenanthrene-d10	26252	8.29			
1719-03-5	Chrysene-d12	22855	10.89			
1520-96-3	Perylene-d12	19489	12.35			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-07	SDG No.:	Y3514
Lab Sample ID:	Y3514-16	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	950.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013941.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	3.1	J	11	1.5	ug/L
83-32-9	Acenaphthene	1.4	U	11	1.4	ug/L
86-73-7	Fluorene	6.2	J	11	1.5	ug/L
85-01-8	Phenanthrene	3.7	J	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.5	U	11	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.790	U	11	0.790	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	11	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.870	U	11	0.870	ug/L
53-70-3	Dibenz(a,h)anthracene	0.910	U	11	0.910	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	11	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	107.19	107 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	99.8	100 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	78.26	78 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6375	3.98			
1146-65-2	Naphthalene-d8	24302	5.14			
15067-26-2	Acenaphthene-d10	11984	6.83			
1517-22-2	Phenanthrene-d10	17877	8.28			
1719-03-5	Chrysene-d12	14619	10.88			
1520-96-3	Perylene-d12	13204	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-08	SDG No.:	Y3514
Lab Sample ID:	Y3514-17	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	960.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013902.D	1	7/16/2007	7/16/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	4.6	J	10	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	10	1.5	ug/L
120-12-7	Anthracene	1.5	U	10	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	10	1.3	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	10	1.2	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.780	U	10	0.780	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	10	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.860	U	10	0.860	ug/L
53-70-3	Dibenz(a,h)anthracene	0.900	U	10	0.900	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	1.23	1 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	92.64	93 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	87.49	87 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8770		3.99		
1146-65-2	Naphthalene-d8	34059		5.15		
15067-26-2	Acenaphthene-d10	17486		6.85		
1517-22-2	Phenanthrene-d10	26316		8.30		
1719-03-5	Chrysene-d12	22575		10.90		
1520-96-3	Perylene-d12	20188		12.35		

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-09	SDG No.:	Y3514
Lab Sample ID:	Y3514-18	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	860.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013939.D	1	7/16/2007	7/18/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	12	1.6	ug/L
83-32-9	Acenaphthene	1.6	U	12	1.6	ug/L
86-73-7	Fluorene	1.6	U	12	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	12	1.6	ug/L
120-12-7	Anthracene	1.6	U	12	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	12	1.4	ug/L
129-00-0	Pyrene	1.7	U	12	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	12	1.3	ug/L
218-01-9	Chrysene	1.9	U	12	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.870	U	12	0.870	ug/L
207-08-9	Benzo(k)fluoranthene	2.2	U	12	2.2	ug/L
50-32-8	Benzo(a)pyrene	1.4	U	12	1.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.960	U	12	0.960	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	12	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.3	U	12	1.3	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	100.52	101 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	93.13	93 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	78.21	78 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6294	3.98			
1146-65-2	Naphthalene-d8	24297	5.13			
15067-26-2	Acenaphthene-d10	12232	6.83			
1517-22-2	Phenanthrene-d10	18221	8.28			
1719-03-5	Chrysene-d12	14564	10.87			
1520-96-3	Perylene-d12	13255	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/10/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-02	SDG No.:	Y3514
Lab Sample ID:	Y3514-19	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	940.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013909.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.4	U	11	1.4	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.5	U	11	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.800	U	11	0.800	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	11	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.880	U	11	0.880	ug/L
53-70-3	Dibenz(a,h)anthracene	0.920	U	11	0.920	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	107.15	107 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	99.87	100 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	96.6	97 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6931	3.98			
1146-65-2	Naphthalene-d8	27996	5.14			
15067-26-2	Acenaphthene-d10	14209	6.83			
1517-22-2	Phenanthrene-d10	22196	8.28			
1719-03-5	Chrysene-d12	18341	10.87			
1520-96-3	Perylene-d12	15371	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-05	SDG No.:	Y3514
Lab Sample ID:	Y3514-20	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	880.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013908.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	11	1.6	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	11	1.4	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	11	1.3	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.850	U	11	0.850	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.940	U	11	0.940	ug/L
53-70-3	Dibenz(a,h)anthracene	0.980	U	11	0.980	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	107.09	107 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	100.34	100 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	97.69	98 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6790	3.98			
1146-65-2	Naphthalene-d8	27122	5.14			
15067-26-2	Acenaphthene-d10	13655	6.83			
1517-22-2	Phenanthrene-d10	21122	8.28			
1719-03-5	Chrysene-d12	17585	10.87			
1520-96-3	Perylene-d12	14905	12.33			

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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y3514
 Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB27774B	SBLK01	Nitrobenzene-d5	100	107.98	108		35.00	114.00
		2-Fluorobiphenyl	100	95.9	96		43.00	116.00
		Terphenyl-d14	100	112.83	113		33.00	141.00
PB27774BS	SLCS01	Nitrobenzene-d5	100	104.37	104		35.00	114.00
		2-Fluorobiphenyl	100	95.85	96		43.00	116.00
		Terphenyl-d14	100	108.99	109		33.00	141.00
Y3514-01	MW-GF-14	Nitrobenzene-d5	100	98.38	98		35.00	114.00
		2-Fluorobiphenyl	100	90.07	90		43.00	116.00
		Terphenyl-d14	100	86.94	87		33.00	141.00
Y3514-02	MW-GF-13	Nitrobenzene-d5	100	96.41	96		35.00	114.00
		2-Fluorobiphenyl	100	90.43	90		43.00	116.00
		Terphenyl-d14	100	84.77	85		33.00	141.00
Y3514-03	MW-GF-12	Nitrobenzene-d5	100	103.84	104		35.00	114.00
		2-Fluorobiphenyl	100	93.53	94		43.00	116.00
		Terphenyl-d14	100	100.55	101		33.00	141.00
Y3514-04	MW-GF-24	Nitrobenzene-d5	100	2.72	3	*	35.00	114.00
		2-Fluorobiphenyl	100	81.76	82		43.00	116.00
		Terphenyl-d14	100	31.83	32	*	33.00	141.00
Y3514-04RE	MW-GF-24RE	Nitrobenzene-d5	100	2.82	3	*	35.00	114.00
		2-Fluorobiphenyl	100	81.15	81		43.00	116.00
		Terphenyl-d14	100	30.87	31	*	33.00	141.00
Y3514-05	MW-GF-23	Nitrobenzene-d5	100	96.68	97		35.00	114.00
		2-Fluorobiphenyl	100	88.78	89		43.00	116.00
		Terphenyl-d14	100	48.08	48		33.00	141.00
Y3514-06	MW-GF-22	Nitrobenzene-d5	100	85.18	85		35.00	114.00
		2-Fluorobiphenyl	100	81.51	82		43.00	116.00
		Terphenyl-d14	100	92.34	92		33.00	141.00
Y3514-07	MW-16-60	Nitrobenzene-d5	100	105.13	105		35.00	114.00
		2-Fluorobiphenyl	100	96.09	96		43.00	116.00
		Terphenyl-d14	100	59.55	60		33.00	141.00
Y3514-08	MW-15-60	Nitrobenzene-d5	100	101.97	102		35.00	114.00
		2-Fluorobiphenyl	100	94.76	95		43.00	116.00
		Terphenyl-d14	100	106.71	107		33.00	141.00
Y3514-09	MW-GF-26	Nitrobenzene-d5	100	98.17	98		35.00	114.00
		2-Fluorobiphenyl	100	91.69	92		43.00	116.00
		Terphenyl-d14	100	95.52	96		33.00	141.00
Y3514-10	MW-GF-20	Nitrobenzene-d5	100	94.94	95		35.00	114.00
		2-Fluorobiphenyl	100	87.11	87		43.00	116.00
		Terphenyl-d14	100	74.27	74		33.00	141.00
Y3514-11	MW-GF-27	Nitrobenzene-d5	100	95.92	96		35.00	114.00
		2-Fluorobiphenyl	100	88.67	89		43.00	116.00

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y3514
 Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y3514-11	MW-GF-27	Terphenyl-d14	100	82.78	83		33.00	141.00
Y3514-12	MW-GF-17	Nitrobenzene-d5	100	97.47	97		35.00	114.00
		2-Fluorobiphenyl	100	90.78	91		43.00	116.00
		Terphenyl-d14	100	87.72	88		33.00	141.00
Y3514-13	MW-GF-16	Nitrobenzene-d5	100	99.54	100		35.00	114.00
		2-Fluorobiphenyl	100	91.28	91		43.00	116.00
		Terphenyl-d14	100	91.44	91		33.00	141.00
Y3514-14	MW-GF-15	Nitrobenzene-d5	100	95.67	96		35.00	114.00
		2-Fluorobiphenyl	100	88.79	89		43.00	116.00
		Terphenyl-d14	100	84.78	85		33.00	141.00
Y3514-15	MW-GF-06	Nitrobenzene-d5	100	111.21	111		35.00	114.00
		2-Fluorobiphenyl	100	96.03	96		43.00	116.00
		Terphenyl-d14	100	60.68	61		33.00	141.00
Y3514-16	MW-GF-07	Nitrobenzene-d5	100	107.19	107		35.00	114.00
		2-Fluorobiphenyl	100	99.8	100		43.00	116.00
		Terphenyl-d14	100	78.26	78		33.00	141.00
Y3514-17	MW-GF-08	Nitrobenzene-d5	100	1.23	1 *		35.00	114.00
		2-Fluorobiphenyl	100	92.64	93		43.00	116.00
		Terphenyl-d14	100	87.49	87		33.00	141.00
Y3514-18	MW-GF-09	Nitrobenzene-d5	100	100.52	101		35.00	114.00
		2-Fluorobiphenyl	100	93.13	93		43.00	116.00
		Terphenyl-d14	100	78.21	78		33.00	141.00
Y3514-19	MW-GF-02	Nitrobenzene-d5	100	107.15	107		35.00	114.00
		2-Fluorobiphenyl	100	99.87	100		43.00	116.00
		Terphenyl-d14	100	96.6	97		33.00	141.00
Y3514-20	MW-GF-05	Nitrobenzene-d5	100	107.09	107		35.00	114.00
		2-Fluorobiphenyl	100	100.34	100		43.00	116.00
		Terphenyl-d14	100	97.69	98		33.00	141.00

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y3514

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB27774BS	Naphthalene	50	42	84			57	99	
	Acenaphthene	50	44	88			56	104	
	Fluorene	50	48	96			61	104	
	Phenanthrene	50	49	98			60	110	
	Anthracene	50	50	100			60	110	
	Fluoranthene	50	49	98			60	110	
	Pyrene	50	51	102			50	110	
	Benzo(a)anthracene	50	50	100			60	105	
	Chrysene	50	50	100			57	108	
	Indeno(1,2,3-cd)pyrene	50	45	90			35	127	
	Benzo(b)fluoranthene	50	52	104			49	116	
	Benzo(k)fluoranthene	50	49	98			52	111	
	Benzo(a)pyrene	50	50	100			58	102	
	Dibenz(a,h)anthracene	50	49	98			53	127	
	Benzo(g,h,i)perylene	50	49	98			42	121	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y3514
Lab Sample ID:	PB27774BS	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013916.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	42		10	1.4	ug/L
83-32-9	Acenaphthene	44		10	1.3	ug/L
86-73-7	Fluorene	48		10	1.4	ug/L
85-01-8	Phenanthrene	49		10	1.4	ug/L
120-12-7	Anthracene	50		10	1.4	ug/L
206-44-0	Fluoranthene	49		10	1.2	ug/L
129-00-0	Pyrene	51		10	1.5	ug/L
56-55-3	Benzo(a)anthracene	50		10	1.1	ug/L
218-01-9	Chrysene	50		10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	52		10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	49		10	1.9	ug/L
50-32-8	Benzo(a)pyrene	50		10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45		10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	49		10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	49		10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	104.37	104 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	95.85	96 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	108.99	109 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6681	3.98			
1146-65-2	Naphthalene-d8	26544	5.14			
15067-26-2	Acenaphthene-d10	13343	6.83			
1517-22-2	Phenanthrene-d10	20408	8.28			
1719-03-5	Chrysene-d12	16978	10.88			
1520-96-3	Perylene-d12	14130	12.33			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01

Lab Code: CHEM Case No.: Y3514 SAS No.: Y3514 SDG NO.: Y3514

Lab File ID: BF013915.D Lab Sample ID: PB27774B

Instrument ID: BNAF Date Extracted: 7/16/2007

Matrix: (soil/water) WATER Date Analyzed: 7/17/2007

Level: (low/med) LOW Time Analyzed: 15:35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MW-GF-23	Y3514-05	BF013900.D	7/16/2007
02	MW-GF-06	Y3514-15	BF013901.D	7/16/2007
03	MW-GF-08	Y3514-17	BF013902.D	7/16/2007
04	MW-GF-16	Y3514-13	BF013903.D	7/16/2007
05	MW-GF-05	Y3514-20	BF013908.D	7/17/2007
06	MW-GF-02	Y3514-19	BF013909.D	7/17/2007
07	MW-15-60	Y3514-08	BF013910.D	7/17/2007
08	MW-GF-26	Y3514-09	BF013911.D	7/17/2007
09	MW-GF-20	Y3514-10	BF013912.D	7/17/2007
10	MW-GF-12	Y3514-03	BF013913.D	7/17/2007
11	MW-GF-14	Y3514-01	BF013914.D	7/17/2007
12	SLCS01	PB27774BS	BF013916.D	7/17/2007
13	MW-GF-09	Y3514-18	BF013939.D	7/18/2007
14	MW-16-60	Y3514-07	BF013940.D	7/18/2007
15	MW-GF-07	Y3514-16	BF013941.D	7/18/2007
16	MW-GF-17	Y3514-12	BF013942.D	7/18/2007
17	MW-GF-13	Y3514-02	BF013943.D	7/18/2007
18	MW-GF-24	Y3514-04	BF013944.D	7/18/2007
19	MW-GF-15	Y3514-14	BF013945.D	7/18/2007
20	MW-GF-27	Y3514-11	BF013959.D	7/18/2007
21	MW-GF-22	Y3514-06	BF013960.D	7/18/2007
22	MW-GF-24RE	Y3514-04RE	BF013961.D	7/18/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y3514
Lab Sample ID:	PB27774B	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BF013915.D	1	7/16/2007	7/17/2007	BF062207

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	107.98	108 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	95.9	96 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	112.83	113 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7059	3.98			
1146-65-2	Naphthalene-d8	27130	5.13			
15067-26-2	Acenaphthene-d10	14309	6.83			
1517-22-2	Phenanthrene-d10	21740	8.28			
1719-03-5	Chrysene-d12	18041	10.88			
1520-96-3	Perylene-d12	15195	12.33			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
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 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

END OF ANALYTICAL RESULTS

**DATA PACKAGE FOR
VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS**

PROJECT NAME: LIRR Richmond Hill, Morris Park GF 045813.005

**GANNETT FLEMING ENGINEERS, LLC
480 FOREST AVENUE
P.O.BOX 707
LOCUST VALLEY, NY 11560
5166718440**

**CHEMTECH PROJECT NO.
ATTENTION:**

**Y3515
Kim Simone**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

COVER PAGE

COVER PAGE

OrderID: Y3515

ProjectID: LIRR Richmond Hill, Morris
CustomerName: Gannett Fleming Engineers, LLC

LAB SAMPLE NO.	CLIENT SAMPLE NO
Y3515-01	MW-GF-04
Y3515-02	MW-01
Y3515-03	MW-10-60
Y3515-04	MW-9-60
Y3515-05	MW-11-60
Y3515-06	MW-1-60
Y3515-07	MW-2D-60
Y3515-08	MW-3D-60
Y3515-09	MW-GF-25
Y3515-10	FB
Y3515-11	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: Mildred V Reyes Name: Mildred V Reyes
Date: 7/26/07 Title: COA/OC

QA/QC DELIVERABLES CHECKLISTProject Number: V3515

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Mildred Vleyes
QA/QC Data Reviewer

7/27/07
Date

TABLE OF CONTENTS
PROJECT NUMBER Y3515RQ

	PAGE #
COVER PAGE	02
CHAIN OF CUSTODY	05
METHODOLOGY REVIEW & LABORATORY CHRONICLE	10
CONFORMANCE / NON-CONFORMANCE SUMMARY	13
GC/MS VOLATILE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	18
QUALITY CONTROL SUMMARY REPORTS	30
GC/MS EXTRACTABLE ORGANIC DATA	
TABULATED ANALYTICAL RESULTS SUMMARY	45
QUALITY CONTROL SUMMARY REPORTS	56
TOTAL NUMBER OF PAGES	62

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

CHAIN OF CUSTODY RECORD



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Y3515

3 of 24

COC Number 065869

CLIENT INFORMATION		REPORT TO BE SENT TO:		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION																														
COMPANY: Gannett-Fleming		PROJECT NAME: LIRE-Richmond Hill Marina Park		BILL TO: Gannett Fleming PO#																																
ADDRESS: 480 Forest Ave		PROJECT NO. 43851		LOCATION: Jamaica		ADDRESS: 480 Forest Ave																														
CITY: Locust Valley STATE: NY ZIP: 11560		PROJECT MANAGER: Vincent Frisina		CITY: Locust Valley STATE: NY ZIP: 11560																																
ATTENTION: Jessica Ferngren		e-mail: JFergren@gfnut.com		ATTENTION: J. Ferngren		PHONE: 516-671-8440																														
PHONE: 516-671-8440		FAX: 516-671-3349		PHONE: 516-671-8440		FAX: 516-671-3349																														
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																														
FAX: _____	DAYS: _____	<input type="checkbox"/> RESULTS ONLY	<input type="checkbox"/> USEPA CLP	<table border="1"> <tr><th colspan="2">PRESERVATIVES</th></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>				PRESERVATIVES		1	2	3	4	5	6	7	8	9																		
PRESERVATIVES																																				
1	2	3	4					5	6	7	8	9																								
HARD COPY: _____	DAYS: _____	<input type="checkbox"/> RESULTS + QC	<input type="checkbox"/> New York State ASP "B"																																	
EDD: _____	DAYS: _____	<input type="checkbox"/> New Jersey REDUCED	<input type="checkbox"/> New York State ASP "A"																																	
* TO BE APPROVED BY CHEMTECH		<input type="checkbox"/> New Jersey CLP	<input type="checkbox"/> Other																																	
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> EDO FORMAT																																		
CHEMTECH SAMPLE ID	PROJECT IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	1	2	3	4	5	6	7	8	9	COMMENTS																					
1	MW-GF-04	Water	X	7/11/07	0950	X																														
2	MW-01	Water	X	7/11/07	1000	X																														
3	MW-10-60	Water	X	7/11/07	1115	X																														
4	MW-9-60	Water	X	7/11/07	1220	X																														
5	MW-11-60	Water	X	7/11/07	1310	X																														
6	MW-1-60	Water	X	7/11/07	1625	X																														
7	MW-2D-60	Water	X	7/11/07	1715	X																														
8	MW-3D-60	Water	X	7/11/07	1750	X																														
9	MW-GF-25	Water	X	7/11/07	1820	X																														
10	FB	Water	X	7/11/07		X																														
REQUISITIONED BY SAMPLER: _____		RECEIVED BY: _____		SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY		Conditions of bottles or coolers at receipt: <input checked="" type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant		Cooler Temp. _____		Ice in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		SHIPMENT COMPLETE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																								
1. Kelly Dun		1. D. B. B. B.		DATE/TIME: 7-18-07		DATE/TIME: 4:05		DATE/TIME: 7-18-07		DATE/TIME: 7-18-07		DATE/TIME: 7-18-07																								
2. _____		2. _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____																								
3. _____		3. _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____		DATE/TIME: _____																								



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Y3515

COG Number 065870

4 of 4

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Cannett Fleming
ADDRESS: 480 Forest Ave
CITY: Locust Valley STATE: NY ZIP: 11560
ATTENTION: Jessica Ferngren
PHONE: 516-671-8440 FAX: 516-671-3349

CLIENT PROJECT INFORMATION

PROJECT NAME: LRP Richmond Hill Park
PROJECT NO. 43851 LOCATION: Jamaica
PROJECT MANAGER: Vincent Frisina
e-mail: JFergnen@cfmt.com
PHONE: 516-671-8440 FAX: 516-671-3349

CLIENT BILLING INFORMATION

BILL TO: Cannett Fleming PO#
ADDRESS: 480 Forest Ave
CITY: Locust Valley STATE: NY ZIP: 11560
ATTENTION: J. Fergnen PHONE: 516-671-8440

DATA TURNAROUND INFORMATION

FAX: _____ DAYS: _____
HARD COPY: _____ DAYS: _____
E.D.D.: _____ DAYS: _____
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

RESULTS ONLY USEPA CLP
 RESULTS + OC New York State ASP "B"
 New Jersey REDUCED New York State ASP "A"
 New Jersey CLP Other _____
 EDD FORMAT _____

ANALYSIS

Table with 9 columns for analysis results, mostly blank.

Table with 10 rows for sample identification. Row 1: Trip Blank. Columns include CHEMTECH SAMPLE ID, PROJECT IDENTIFICATION, SAMPLE MATRIX, SAMPLE TYPE, SAMPLE COLLECTION DATE, TIME, and COMMENTS.

Table with 10 rows for sample collection details. Columns include SAMPLE MATRIX, SAMPLE TYPE, SAMPLE COLLECTION DATE, TIME, PRESERVATIVES, and COMMENTS.

Table for chain of custody signatures and dates. Includes fields for RECEIVED BY SAMPLER, RECEIVED BY, and RECEIVED FOR LAB BY.

Table for shipping and delivery information. Includes fields for SHIPPED VIA CLIENT, HAND DELIVERED, OVERNIGHT, and SHIPMENT COMPLETE.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: V3515

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?
- All runlogs reviewed for manual integration requirements

1st Level QA Review Signature: W. D. D. V. Keys Date: 7/27/07

2nd Level QA Review Signature: _____ Date: _____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.

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**METHODOLOGY
REVIEW
&
LABORATORY
CHRONICLE**

CHEMTECH

Lab Chronicle

Order ID: Y3515 Order Date: 7/13/2007 4:32:00 PM
Client: Gannett Fleming Engineers, LLC Project: LIRR Richmond Hill, Morris Park GF 045813.005
Contact: Kim Simone Location: VOA Ref. #3 Water

Lab ID	Client ID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Y3515-01	MW-GF-04	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-02	MW-01	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-03	MW-10-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-04	MW-9-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-05	MW-11-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-06	MW-1-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-07	MW-2D-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-08	MW-3D-60	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/18/07	07/13/07
Y3515-09	MW-GF-25	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/19/07	07/13/07
Y3515-10	FB	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/19/07	07/13/07
Y3515-11	TRIPBLANK	WATER	<u>VOC-STARS</u>	8260	07/11/07		07/19/07	07/13/07

CHEMTECH

Lab Chronicle

Order ID: Y3515 Order Date: 7/13/2007 4:32:00 PM
Client: Gannett Fleming Engineers, LLC Project: LIRR Richmond Hill, Morris Park GF 045813.005
Contact: Kim Simone Location: VOA Ref. #3 Water

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
Y3515-01	MW-GF-04	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-02	MW-01	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/17/07	07/13/07
Y3515-03	MW-10-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-04	MW-9-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-05	MW-11-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-06	MW-1-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-07	MW-2D-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07
Y3515-08	MW-3D-60	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/17/07	07/13/07
Y3515-09	MW-GF-25	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/17/07	07/13/07
Y3515-10	FB	WATER	<u>SVOC-STARS</u>	8270	07/11/07	07/16/07	07/16/07	07/13/07

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**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y3515

MATRIX: Water

METHOD: 8260

- | | NA | NO | YES |
|--|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications
BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY
ASP CLP, CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for
8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed before sample analysis and
continuing calibration performed within 24 hours of sample analysis for 600 series and
12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8260 and CLP. | | | |
| b. System Performance Check Compounds for 8260 and CLP | | | |

8260 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MIN RF</u>	<u>CCC Compounds</u>
Chloromethane	0.1	1,1-Dichloroethene
1,1-Dichloroethane	0.1	Chloroform
Bromoform	0.1	1,2-Dichloropropane
Chlorobenzene	0.3	Toluene
1,1,2,2-Tetrachloroethane	0.3	Ethylbenzene
Vinyl chloride		

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%

For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

- | | | | |
|---|--|--|---|
| 6. Blank Contamination - If yes, list compounds and concentrations in each blank: | | | ✓ |
|---|--|--|---|

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The MS recoveries met the requirements for all compounds except for Methyl tert-butyl Ether, 1,2,4-Trimethylbenzene, p-Isopropyltoluene, n-Butylbenzene and Naphthalene. The MSD recoveries met the acceptable requirements except for Methyl tert-butyl Ether, 1,2,4-Trimethylbenzene, p-Isopropyltoluene, n-Butylbenzene and Naphthalene.			
The Blank Spike met requirements for all samples except for Methyl tert-butyl Ether, n-Butylbenzene and Naphthalene. The RPD recoveries met criteria except for Methyl tert-butyl Ether			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Continuing Calibration met the requirements except for Methyl tert-butyl Ether, 1,2,4-Trimethylbenzene, p-Isopropyltoluene, n-Butylbenzene and Naphthalene but they were not detected in samples.

Mildred Reyes
QA REVIEW

7/27/07
Date

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Y3515

MATRIX: Water

METHOD: 82703510

- | | NA | NO | YES |
|---|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. GC/MS Tuning Specifications. DFTPP Meet Criteria.
(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,
CLP AND NJ) | | | ✓ |
| 3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. GC/MS Calibration Requirements. | | | ✓ |
| a. Calibration Check Compounds for 8270 and CLP. | | | |
| b. System Performance Check Compounds for 8270 and CLP | | | |

8270 CALIBRATION CRITERIA

<u>SPCC Compounds</u>	<u>MINRF</u>	<u>CCC Compounds</u>	
		<u>Base/Neutral Fraction</u>	<u>Acid Fraction</u>
N-nitroso-di-n-propylamine	0.050	Acenaphthene	4-Chloro-3-methylphenol
Hexachlorocyclopentadiene	0.050	1,4-Dichlorobenzene	2,4-Dichlorophenol
2,4-Dinitrophenol	0.050	Hexachlorobutadiene	2-Nitrophenol
4-Nitrophenol	0.050	Diphenylamine	Phenol
		Di-n-octyl phthalate	Pentachlorophenol
		Fluoranthene	2,4,6-Trichlorophenol
		Benzo(a)pyrene	

For CCC compounds Initial Calibration Criteria – RSD less than or equal to 30%
For CCC compounds Continuing Calibration Criteria - %D less than or equal to 20%

6. Blank Contamination - If yes, list compounds and concentrations in each blank: ✓

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for MW-01.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples.			
9. Internal Standard Area/Retention Time Shift Meet Criteria			✓
Comments:			
10. Extraction Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

The Continuing Calibration met the requirements except for 2-Fluorobiphenyl, Fluorene, Chrysene but they were not detected in samples. The Blank Spike met requirements for all samples.

Mildred V Reyes
QA REVIEW

7/27/07
Date

CHEMTECH

TABULATED ANALYTICAL RESULTS

GC/MS VOLATILE ORGANICS

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-04	SDG No.:	Y3515
Lab Sample ID:	Y3515-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011773.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
------------	-----------	-------	-----------	----	-----	-------

TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.71	97 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	47.84	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.4	99 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.88	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	830545	3.94
540-36-3	1,4-Difluorobenzene	1444092	4.58
3114-55-4	Chlorobenzene-d5	1512429	8.77
3855-82-1	1,4-Dichlorobenzene-d4	749276	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-01	SDG No.:	Y3515
Lab Sample ID:	Y3515-02	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011774.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
------------	-----------	-------	-----------	----	-----	-------

TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.98	98 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.39	97 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.97	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	50.66	101 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	805965	3.94
540-36-3	1,4-Difluorobenzene	1393713	4.58
3114-55-4	Chlorobenzene-d5	1471253	8.77
3855-82-1	1,4-Dichlorobenzene-d4	702833	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-10-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-03	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011775.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	48.79	98 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.04	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.73	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.03	98 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	799685	3.94
540-36-3	1,4-Difluorobenzene	1384632	4.58
3114-55-4	Chlorobenzene-d5	1426819	8.77
3855-82-1	1,4-Dichlorobenzene-d4	694651	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-9-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-04	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011776.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.83	100 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	49.64	99 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	48.78	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	48.88	98 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	771906	3.94			
540-36-3	1,4-Difluorobenzene	1348810	4.58			
3114-55-4	Chlorobenzene-d5	1405675	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	672076	11.12			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-11-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-05	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011777.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4	103 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	51.54	103 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.22	98 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	49.82	100 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	743825	3.94			
540-36-3	1,4-Difluorobenzene	1294262	4.58			
3114-55-4	Chlorobenzene-d5	1342290	8.77			
3855-82-1	1,4-Dichlorobenzene-d4	651658	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-1-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-06	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011778.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.9	104 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.2	100 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.57	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.77	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	723236	3.94
540-36-3	1,4-Difluorobenzene	1245044	4.58
3114-55-4	Chlorobenzene-d5	1312663	8.78
3855-82-1	1,4-Dichlorobenzene-d4	626066	11.13

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-2D-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-07	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011779.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.94	104 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.72	101 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.91	100 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	50.15	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	712434	3.94
540-36-3	1,4-Difluorobenzene	1213285	4.58
3114-55-4	Chlorobenzene-d5	1270635	8.77
3855-82-1	1,4-Dichlorobenzene-d4	622601	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-3D-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-08	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011787.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	50.16	100 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	49.57	99 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.43	99 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.46	99 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	759303	3.95
540-36-3	1,4-Difluorobenzene	1328260	4.59
3114-55-4	Chlorobenzene-d5	1397956	8.78
3855-82-1	1,4-Dichlorobenzene-d4	683038	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-25	SDG No.:	Y3515
Lab Sample ID:	Y3515-09	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011788.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.47	99 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.34	97 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.57	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.83	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	757369	3.94
540-36-3	1,4-Difluorobenzene	1303547	4.59
3114-55-4	Chlorobenzene-d5	1367581	8.79
3855-82-1	1,4-Dichlorobenzene-d4	656854	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	FB	SDG No.:	Y3515
Lab Sample ID:	Y3515-10	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011789.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.25	103 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	47.7	95 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	47.61	95 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	48.64	97 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	747400	3.94			
540-36-3	1,4-Difluorobenzene	1322126	4.59			
3114-55-4	Chlorobenzene-d5	1351429	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	633514	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	TRIPBLANK	SDG No.:	Y3515
Lab Sample ID:	Y3515-11	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011790.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.45	103 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	48.36	97 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	47.95	96 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	52.13	104 %	76 - 119		SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	715611	3.94			
540-36-3	1,4-Difluorobenzene	1255720	4.59			
3114-55-4	Chlorobenzene-d5	1293595	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	614421	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS VOLATILE ORGANICS

Surrogate Summary
SW-846

SDG No.: Y3515
Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
BSD0717-01	VLCS01	1,2-Dichloroethane-d4	50	52.4	105		72.00	119.00
		Dibromofluoromethane	50	50.85	102		85.00	115.00
		Toluene-d8	50	48.47	97		81.00	120.00
		4-Bromofluorobenzene	50	51.02	102		76.00	119.00
BSD0718-01	VLCS02	1,2-Dichloroethane-d4	50	51.11	102		72.00	119.00
		Dibromofluoromethane	50	50.6	101		85.00	115.00
		Toluene-d8	50	49.14	98		81.00	120.00
		4-Bromofluorobenzene	50	51.21	102		76.00	119.00
BSD0719-01	VLCS03	1,2-Dichloroethane-d4	50	52.62	105		72.00	119.00
		Dibromofluoromethane	50	50	100		85.00	115.00
		Toluene-d8	50	49.8	100		81.00	120.00
		4-Bromofluorobenzene	50	52.69	105		76.00	119.00
VBD0717-01	VBLK01	1,2-Dichloroethane-d4	50	49.85	100		72.00	119.00
		Dibromofluoromethane	50	48.19	96		85.00	115.00
		Toluene-d8	50	47.7	95		81.00	120.00
		4-Bromofluorobenzene	50	48.12	96		76.00	119.00
VBD0718-01	VBLK02	1,2-Dichloroethane-d4	50	49.59	99		72.00	119.00
		Dibromofluoromethane	50	47.75	96		85.00	115.00
		Toluene-d8	50	48.19	96		81.00	120.00
		4-Bromofluorobenzene	50	49.75	100		76.00	119.00
VBD0719-01	VBLK03	1,2-Dichloroethane-d4	50	49.34	99		72.00	119.00
		Dibromofluoromethane	50	50.84	102		85.00	115.00
		Toluene-d8	50	49.12	98		81.00	120.00
		4-Bromofluorobenzene	50	49.82	100		76.00	119.00
Y3453-21MS	Y3453-21MS	1,2-Dichloroethane-d4	50	57.09	114		72.00	119.00
		Dibromofluoromethane	50	48.57	97		85.00	115.00
		Toluene-d8	50	47.91	96		81.00	120.00
		4-Bromofluorobenzene	50	52.17	104		76.00	119.00
Y3453-22MSD	Y3453-22MSD	1,2-Dichloroethane-d4	50	54.13	108		72.00	119.00
		Dibromofluoromethane	50	48.61	97		85.00	115.00
		Toluene-d8	50	50.37	101		81.00	120.00
		4-Bromofluorobenzene	50	53.61	107		76.00	119.00
Y3515-01	MW-GF-04	1,2-Dichloroethane-d4	50	48.71	97		72.00	119.00
		Dibromofluoromethane	50	47.84	96		85.00	115.00
		Toluene-d8	50	49.4	99		81.00	120.00
		4-Bromofluorobenzene	50	49.88	100		76.00	119.00
Y3515-02	MW-01	1,2-Dichloroethane-d4	50	48.98	98		72.00	119.00
		Dibromofluoromethane	50	48.39	97		85.00	115.00
		Toluene-d8	50	48.97	98		81.00	120.00
		4-Bromofluorobenzene	50	50.66	101		76.00	119.00
Y3515-03	MW-10-60	1,2-Dichloroethane-d4	50	48.79	98		72.00	119.00

Surrogate Summary
SW-846

SDG No.: Y3515

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
Y3515-03	MW-10-60	Dibromofluoromethane	50	48.04	96		85.00	115.00
		Toluene-d8	50	48.73	97		81.00	120.00
		4-Bromofluorobenzene	50	49.03	98		76.00	119.00
Y3515-04	MW-9-60	1,2-Dichloroethane-d4	50	49.83	100		72.00	119.00
		Dibromofluoromethane	50	49.64	99		85.00	115.00
		Toluene-d8	50	48.78	98		81.00	120.00
Y3515-05	MW-11-60	4-Bromofluorobenzene	50	48.88	98		76.00	119.00
		1,2-Dichloroethane-d4	50	51.4	103		72.00	119.00
		Dibromofluoromethane	50	51.54	103		85.00	115.00
Y3515-06	MW-1-60	Toluene-d8	50	49.22	98		81.00	120.00
		4-Bromofluorobenzene	50	49.82	100		76.00	119.00
		1,2-Dichloroethane-d4	50	51.9	104		72.00	119.00
Y3515-07	MW-2D-60	Dibromofluoromethane	50	50.2	100		85.00	115.00
		Toluene-d8	50	48.57	97		81.00	120.00
		4-Bromofluorobenzene	50	49.77	100		76.00	119.00
Y3515-08	MW-3D-60	1,2-Dichloroethane-d4	50	51.94	104		72.00	119.00
		Dibromofluoromethane	50	50.72	101		85.00	115.00
		Toluene-d8	50	49.91	100		81.00	120.00
Y3515-09	MW-GF-25	4-Bromofluorobenzene	50	50.15	100		76.00	119.00
		1,2-Dichloroethane-d4	50	50.16	100		72.00	119.00
		Dibromofluoromethane	50	49.57	99		85.00	115.00
Y3515-10	FB	Toluene-d8	50	49.43	99		81.00	120.00
		4-Bromofluorobenzene	50	49.46	99		76.00	119.00
		1,2-Dichloroethane-d4	50	49.47	99		72.00	119.00
Y3515-11	TRIPBLANK	Dibromofluoromethane	50	48.34	97		85.00	115.00
		Toluene-d8	50	48.57	97		81.00	120.00
		4-Bromofluorobenzene	50	49.83	100		76.00	119.00
Y3515-11	TRIPBLANK	1,2-Dichloroethane-d4	50	51.25	103		72.00	119.00
		Dibromofluoromethane	50	47.7	95		85.00	115.00
		Toluene-d8	50	47.61	95		81.00	120.00
		4-Bromofluorobenzene	50	48.64	97		76.00	119.00
Y3515-11	TRIPBLANK	1,2-Dichloroethane-d4	50	51.45	103		72.00	119.00
		Dibromofluoromethane	50	48.36	97		85.00	115.00
		Toluene-d8	50	47.95	96		81.00	120.00
		4-Bromofluorobenzene	50	52.13	104		76.00	119.00

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Y3515

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Sample Result	Result	Rec	RPD	Qual	Low	Limits High	RPD
Client Sample ID: Y3453-21MS										
Y3453-21MS	Methyl tert-butyl Ether	50	0.0	76	152		*	72	127	
	Benzene	50	0.0	53	106			79	130	
	Toluene	50	0.0	49	98			81	133	
	Ethyl Benzene	50	0.0	47	94			82	124	
	m/p-Xylenes	100	0.0	98	98			80	126	
	o-Xylene	50	0.0	49	98			84	127	
	Isopropylbenzene	50	0.0	49	98			77	117	
	N-propylbenzene	50	0.0	52	104			76	118	
	1,3,5-Trimethylbenzene	50	0.0	52	104			76	117	
	tert-Butylbenzene	50	0.0	53	106			70	116	
	1,2,4-Trimethylbenzene	50	0.0	63	126		*	78	116	
	Sec-butylbenzene	50	0.0	58	116			76	116	
	p-Isopropyltoluene	50	0.0	61	122		*	73	112	
	n-Butylbenzene	50	0.0	83	166		*	73	115	
	Naphthalene	50	0.0	83	166		*	60	123	
Client Sample ID: Y3453-22MSD										
Y3453-22MSD	Methyl tert-butyl Ether	50	0.0	67	134	13	* *	72	127	12
	Benzene	50	0.0	52	104	2		79	130	11
	Toluene	50	0.0	49	98	0		81	133	13
	Ethyl Benzene	50	0.0	45	90	4		82	124	20
	m/p-Xylenes	100	0.0	91	91	7		80	126	20
	o-Xylene	50	0.0	46	92	6		84	127	20
	Isopropylbenzene	50	0.0	47	94	4		77	117	20
	N-propylbenzene	50	0.0	50	100	4		76	118	20
	1,3,5-Trimethylbenzene	50	0.0	50	100	4		76	117	20
	tert-Butylbenzene	50	0.0	51	102	4		70	116	20
	1,2,4-Trimethylbenzene	50	0.0	61	122	3	*	78	116	20
	Sec-butylbenzene	50	0.0	57	114	2		76	116	20
	p-Isopropyltoluene	50	0.0	58	116	5	*	73	112	20
	n-Butylbenzene	50	0.0	79	158	5	*	73	115	20
	Naphthalene	50	0.0	75	150	10	*	60	123	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: Y3515Client: Gannett Fleming Engineers, LLCAnalytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Limits		
							Low	High	RPD
BSD0717-01	Methyl tert-butyl Ether	20	27	135		*	70	130	
	Benzene	20	20	100			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	38	95			70	130	
	o-Xylene	20	18	90			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	18	90			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	21	105			70	130	
	1,2,4-Trimethylbenzene	20	23	115			70	130	
	Sec-butylbenzene	20	20	100			70	130	
	p-Isopropyltoluene	20	22	110			70	130	
	n-Butylbenzene	20	26	130			70	130	
	Naphthalene	20	27	135			*	70	130
	BSD0718-01	Methyl tert-butyl Ether	20	21	105			70	130
Benzene		20	16	80			70	130	
Toluene		20	16	80			70	130	
Ethyl Benzene		20	15	75			70	130	
m/p-Xylenes		40	32	80			70	130	
o-Xylene		20	16	80			70	130	
Isopropylbenzene		20	16	80			70	130	
N-propylbenzene		20	16	80			70	130	
1,3,5-Trimethylbenzene		20	16	80			70	130	
tert-Butylbenzene		20	18	90			70	130	
1,2,4-Trimethylbenzene		20	20	100			70	130	
Sec-butylbenzene		20	18	90			70	130	
p-Isopropyltoluene		20	20	100			70	130	
n-Butylbenzene		20	23	115			70	130	
Naphthalene		20	23	115			70	130	
BSD0719-01		Methyl tert-butyl Ether	20	28	140		*	70	130
	Benzene	20	21	105			70	130	
	Toluene	20	19	95			70	130	
	Ethyl Benzene	20	17	85			70	130	
	m/p-Xylenes	40	36	90			70	130	
	o-Xylene	20	18	90			70	130	
	Isopropylbenzene	20	18	90			70	130	
	N-propylbenzene	20	18	90			70	130	
	1,3,5-Trimethylbenzene	20	19	95			70	130	
	tert-Butylbenzene	20	21	105			70	130	
	1,2,4-Trimethylbenzene	20	23	115			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Y3515

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW846 8260

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
BSD0719-01	Sec-butylbenzene	20	21	105			70	130	
	p-Isopropyltoluene	20	23	115			70	130	
	n-Butylbenzene	20	29	145		*	70	130	
	Naphthalene	20	29	145		*	70	130	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS01	SDG No.:	Y3515
Lab Sample ID:	BSD0717-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011730.D	1	7/17/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	27		5.0	0.28	ug/L
71-43-2	Benzene	20		5.0	0.39	ug/L
108-88-3	Toluene	19		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	17		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	38		10	1.2	ug/L
95-47-6	o-Xylene	18		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	18		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	21		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	23		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	20		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	22		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	26		5.0	0.49	ug/L
91-20-3	Naphthalene	27		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.4	105 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.85	102 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.47	97 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	51.02	102 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	726997	3.92		
540-36-3	1,4-Difluorobenzene	1315381	4.57		
3114-55-4	Chlorobenzene-d5	1364063	8.77		
3855-82-1	1,4-Dichlorobenzene-d4	699466	11.12		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS02	SDG No.:	Y3515
Lab Sample ID:	BSD0718-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011758.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	21		5.0	0.28	ug/L
71-43-2	Benzene	16		5.0	0.39	ug/L
108-88-3	Toluene	16		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	15		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	32		10	1.2	ug/L
95-47-6	o-Xylene	16		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	16		5.0	0.44	ug/L
103-65-1	N-propylbenzene	16		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	16		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	18		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	20		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	18		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	20		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	23		5.0	0.49	ug/L
91-20-3	Naphthalene	23		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	51.11	102 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.6	101 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.14	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	51.21	102 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	760320	3.94
540-36-3	1,4-Difluorobenzene	1320072	4.58
3114-55-4	Chlorobenzene-d5	1349713	8.77
3855-82-1	1,4-Dichlorobenzene-d4	711612	11.13

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VLCS03	SDG No.:	Y3515
Lab Sample ID:	BSD0719-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011786.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	28		5.0	0.28	ug/L
71-43-2	Benzene	21		5.0	0.39	ug/L
108-88-3	Toluene	19		5.0	0.36	ug/L
100-41-4	Ethyl Benzene	17		5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	36		10	1.2	ug/L
95-47-6	o-Xylene	18		5.0	0.46	ug/L
98-82-8	Isopropylbenzene	18		5.0	0.44	ug/L
103-65-1	N-propylbenzene	18		5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	19		5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	21		5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	23		5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	21		5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	23		5.0	0.49	ug/L
104-51-8	n-Butylbenzene	29		5.0	0.49	ug/L
91-20-3	Naphthalene	29		5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	52.62	105 %	72 - 119		SPK: 50
1868-53-7	Dibromofluoromethane	50	100 %	85 - 115		SPK: 50
2037-26-5	Toluene-d8	49.8	100 %	81 - 120		SPK: 50
460-00-4	4-Bromofluorobenzene	52.69	105 %	76 - 119		SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	732800	3.94			
540-36-3	1,4-Difluorobenzene	1287055	4.59			
3114-55-4	Chlorobenzene-d5	1364089	8.78			
3855-82-1	1,4-Dichlorobenzene-d4	699777	11.13			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: Chemtech Contract: GANN01
 Lab Code: CHEM Case No.: Y3515 SAS No.: Y3515 SDG NO.: Y3515
 Lab File ID: VD011729.D Lab Sample ID: VBD0717-01
 Date Analyzed: 7/17/2007 Time Analyzed: 12:56
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS01	BSD0717-01	VD011730.D	13:25
Y3453-21MS	Y3453-21MS	VD011737.D	16:45
Y3453-22MSD	Y3453-22MSD	VD011738.D	17:13

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK01	SDG No.:	Y3515
Lab Sample ID:	VBD0717-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011729.D	1	7/17/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.85	100 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	48.19	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	47.7	95 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	48.12	96 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	807830	3.93
540-36-3	1,4-Difluorobenzene	1411443	4.57
3114-55-4	Chlorobenzene-d5	1423558	8.76
3855-82-1	1,4-Dichlorobenzene-d4	693518	11.12

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VELK02

Lab Name: Chemtech Contract: GANN01
 Lab Code: CHEM Case No.: Y3515 SAS No.: Y3515 SDG NO.: Y3515
 Lab File ID: VD011757.D Lab Sample ID: VBD0718-01
 Date Analyzed: 7/18/2007 Time Analyzed: 12:50
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS02	BSD0718-01	VD011758.D	13:20
MW-GF-04	Y3515-01	VD011773.D	20:29
MW-01	Y3515-02	VD011774.D	20:58
MW-10-60	Y3515-03	VD011775.D	21:26
MW-9-60	Y3515-04	VD011776.D	21:55
MW-11-60	Y3515-05	VD011777.D	22:23
MW-1-60	Y3515-06	VD011778.D	22:51
MW-2D-60	Y3515-07	VD011779.D	23:20

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK02	SDG No.:	Y3515
Lab Sample ID:	VBD0718-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011757.D	1	7/18/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.59	99 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	47.75	96 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	48.19	96 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.75	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	767823	3.94		
540-36-3	1,4-Difluorobenzene	1343362	4.58		
3114-55-4	Chlorobenzene-d5	1351159	8.78		
3855-82-1	1,4-Dichlorobenzene-d4	672079	11.13		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: Chemtech Contract: GANN01
 Lab Code: CHEM Case No.: Y3515 SAS No.: Y3515 SDG NO.: Y3515
 Lab File ID: VD011785.D Lab Sample ID: VBD0719-01
 Date Analyzed: 7/19/2007 Time Analyzed: 11:59
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N
 Instrument ID: MSVOAD

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
VLCS03	BSD0719-01	VD011786.D	12:29
MW-3D-60	Y3515-08	VD011787.D	12:58
MW-GF-25	Y3515-09	VD011788.D	13:26
FB	Y3515-10	VD011789.D	13:54
TRIPBLANK	Y3515-11	VD011790.D	14:22

COMMENTS: _____

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	VBLK03	SDG No.:	Y3515
Lab Sample ID:	VBD0719-01	Matrix:	WATER
Analytical Method:	8260	% Moisture:	100
Sample Wt/Wol:	5.0 Units: mL	Soil Extract Vol:	uL
Soil Aliquot Vol:	uL		

File ID:	Dilution:	Date Analyzed	Analytical Batch ID
VD011785.D	1	7/19/2007	VD062107

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
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TARGETS

1634-04-4	Methyl tert-butyl Ether	0.28	U	5.0	0.28	ug/L
71-43-2	Benzene	0.39	U	5.0	0.39	ug/L
108-88-3	Toluene	0.36	U	5.0	0.36	ug/L
100-41-4	Ethyl Benzene	0.45	U	5.0	0.45	ug/L
126777-61-2	m/p-Xylenes	1.2	U	10	1.2	ug/L
95-47-6	o-Xylene	0.46	U	5.0	0.46	ug/L
98-82-8	Isopropylbenzene	0.44	U	5.0	0.44	ug/L
103-65-1	N-propylbenzene	0.49	U	5.0	0.49	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.42	U	5.0	0.42	ug/L
98-06-6	tert-Butylbenzene	0.39	U	5.0	0.39	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.44	U	5.0	0.44	ug/L
135-98-8	Sec-butylbenzene	0.44	U	5.0	0.44	ug/L
99-87-6	p-Isopropyltoluene	0.49	U	5.0	0.49	ug/L
104-51-8	n-Butylbenzene	0.49	U	5.0	0.49	ug/L
91-20-3	Naphthalene	0.34	U	5.0	0.34	ug/L

SURROGATES

17060-07-0	1,2-Dichloroethane-d4	49.34	99 %	72 - 119	SPK: 50
1868-53-7	Dibromofluoromethane	50.84	102 %	85 - 115	SPK: 50
2037-26-5	Toluene-d8	49.12	98 %	81 - 120	SPK: 50
460-00-4	4-Bromofluorobenzene	49.82	100 %	76 - 119	SPK: 50

INTERNAL STANDARDS

363-72-4	Pentafluorobenzene	767584	3.95
540-36-3	1,4-Difluorobenzene	1324442	4.59
3114-55-4	Chlorobenzene-d5	1388138	8.79
3855-82-1	1,4-Dichlorobenzene-d4	670564	11.13

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

TABULATED ANALYTICAL RESULTS
GC/MS EXTRACTABLES

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-04	SDG No.:	Y3515
Lab Sample ID:	Y3515-01	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	970.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032884.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.5	U	10	1.5	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.770	U	10	0.770	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.850	U	10	0.850	ug/L
53-70-3	Dibenz(a,h)anthracene	0.890	U	10	0.890	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	89.92	90 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	67.65	68 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	53.77	54 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	174503	6.60			
1146-65-2	Naphthalene-d8	586427	8.90			
15067-26-2	Acenaphthene-d10	278169	12.36			
1517-22-2	Phenanthrene-d10	440203	15.34			
1719-03-5	Chrysene-d12	392500	20.66			
1520-96-3	Perylene-d12	355841	23.95			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-01	SDG No.:	Y3515
Lab Sample ID:	Y3515-02	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	920.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032892.D	1	7/16/2007	7/17/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.900	U	11	0.900	ug/L
53-70-3	Dibenz(a,h)anthracene	0.940	U	11	0.940	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.18	85 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	63.75	64 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	31.15	31 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	184101	6.60			
1146-65-2	Naphthalene-d8	642187	8.90			
15067-26-2	Acenaphthene-d10	299064	12.35			
1517-22-2	Phenanthrene-d10	489156	15.33			
1719-03-5	Chrysene-d12	418008	20.66			
1520-96-3	Perylene-d12	368708	23.94			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-10-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-03	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	640.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032885.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	2.2	U	16	2.2	ug/L
83-32-9	Acenaphthene	2.1	U	16	2.1	ug/L
86-73-7	Fluorene	2.2	U	16	2.2	ug/L
85-01-8	Phenanthrene	2.2	U	16	2.2	ug/L
120-12-7	Anthracene	2.2	U	16	2.2	ug/L
206-44-0	Fluoranthene	1.9	U	16	1.9	ug/L
129-00-0	Pyrene	2.3	U	16	2.3	ug/L
56-55-3	Benzo(a)anthracene	1.7	U	16	1.7	ug/L
218-01-9	Chrysene	2.6	U	16	2.6	ug/L
205-99-2	Benzo(b)fluoranthene	1.2	U	16	1.2	ug/L
207-08-9	Benzo(k)fluoranthene	2.9	U	16	2.9	ug/L
50-32-8	Benzo(a)pyrene	1.8	U	16	1.8	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U	16	1.3	ug/L
53-70-3	Dibenz(a,h)anthracene	1.4	U	16	1.4	ug/L
191-24-2	Benzo(g,h,i)perylene	1.7	U	16	1.7	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.88	87 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	62.82	63 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	54.42	54 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	148221	6.59			
1146-65-2	Naphthalene-d8	521846	8.90			
15067-26-2	Acenaphthene-d10	249304	12.36			
1517-22-2	Phenanthrene-d10	418446	15.33			
1719-03-5	Chrysene-d12	355837	20.66			
1520-96-3	Perylene-d12	315251	23.94			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-9-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-04	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	920.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032886.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.900	U	11	0.900	ug/L
53-70-3	Dibenz(a,h)anthracene	0.940	U	11	0.940	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	88.33	88 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	65.12	65 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	70.65	71 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	156083	6.59			
1146-65-2	Naphthalene-d8	563804	8.90			
15067-26-2	Acenaphthene-d10	267123	12.36			
1517-22-2	Phenanthrene-d10	439586	15.33			
1719-03-5	Chrysene-d12	408842	20.66			
1520-96-3	Perylene-d12	349711	23.95			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-11-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-05	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	850.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032887.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.6	U	12	1.6	ug/L
83-32-9	Acenaphthene	1.6	U	12	1.6	ug/L
86-73-7	Fluorene	1.7	U	12	1.7	ug/L
85-01-8	Phenanthrene	1.7	U	12	1.7	ug/L
120-12-7	Anthracene	1.6	U	12	1.6	ug/L
206-44-0	Fluoranthene	1.4	U	12	1.4	ug/L
129-00-0	Pyrene	1.7	U	12	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	12	1.3	ug/L
218-01-9	Chrysene	2.0	U	12	2.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.880	U	12	0.880	ug/L
207-08-9	Benzo(k)fluoranthene	2.2	U	12	2.2	ug/L
50-32-8	Benzo(a)pyrene	1.4	U	12	1.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.970	U	12	0.970	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	12	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.3	U	12	1.3	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.61	84 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	59.99	60 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	57.51	58 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151883	6.59			
1146-65-2	Naphthalene-d8	538869	8.91			
15067-26-2	Acenaphthene-d10	253280	12.36			
1517-22-2	Phenanthrene-d10	415723	15.33			
1719-03-5	Chrysene-d12	378301	20.66			
1520-96-3	Perylene-d12	339738	23.94			

U = Not Detected
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 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-1-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-06	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	970.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032888.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.4	U	10	1.4	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.5	U	10	1.5	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.770	U	10	0.770	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.850	U	10	0.850	ug/L
53-70-3	Dibenz(a,h)anthracene	0.890	U	10	0.890	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.01	86 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	65.03	65 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	69.9	70 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	168657	6.60			
1146-65-2	Naphthalene-d8	604707	8.90			
15067-26-2	Acenaphthene-d10	284580	12.36			
1517-22-2	Phenanthrene-d10	477231	15.33			
1719-03-5	Chrysene-d12	426734	20.66			
1520-96-3	Perylene-d12	364668	23.94			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-2D-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-07	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	830.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032889.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.7	U	12	1.7	ug/L
83-32-9	Acenaphthene	1.6	U	12	1.6	ug/L
86-73-7	Fluorene	1.7	U	12	1.7	ug/L
85-01-8	Phenanthrene	1.7	U	12	1.7	ug/L
120-12-7	Anthracene	1.7	U	12	1.7	ug/L
206-44-0	Fluoranthene	1.5	U	12	1.5	ug/L
129-00-0	Pyrene	1.7	U	12	1.7	ug/L
56-55-3	Benzo(a)anthracene	1.3	U	12	1.3	ug/L
218-01-9	Chrysene	2.0	U	12	2.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.900	U	12	0.900	ug/L
207-08-9	Benzo(k)fluoranthene	2.3	U	12	2.3	ug/L
50-32-8	Benzo(a)pyrene	1.4	U	12	1.4	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	12	1.0	ug/L
53-70-3	Dibenz(a,h)anthracene	1.0	U	12	1.0	ug/L
191-24-2	Benzo(g,h,i)perylene	1.3	U	12	1.3	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	91.03	91 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	67.54	68 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	76.63	77 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	148027	6.59			
1146-65-2	Naphthalene-d8	532327	8.90			
15067-26-2	Acenaphthene-d10	248153	12.35			
1517-22-2	Phenanthrene-d10	395053	15.33			
1719-03-5	Chrysene-d12	290043	20.66			
1520-96-3	Perylene-d12	278238	23.94			

U = Not Detected
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 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-3D-60	SDG No.:	Y3515
Lab Sample ID:	Y3515-08	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	900.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032893.D	1	7/16/2007	7/17/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.830	U	11	0.830	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.920	U	11	0.920	ug/L
53-70-3	Dibenz(a,h)anthracene	0.960	U	11	0.960	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.71	86 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	61.43	61 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	52.66	53 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	170423	6.60			
1146-65-2	Naphthalene-d8	589580	8.90			
15067-26-2	Acenaphthene-d10	273140	12.36			
1517-22-2	Phenanthrene-d10	449326	15.33			
1719-03-5	Chrysene-d12	342389	20.65			
1520-96-3	Perylene-d12	322160	23.94			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
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J = Estimated Value
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 N = Presumptive Evidence of a Compound

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	MW-GF-25	SDG No.:	Y3515
Lab Sample ID:	Y3515-09	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	900.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032891.D	1	7/16/2007	7/17/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.5	U	11	1.5	ug/L
86-73-7	Fluorene	1.6	U	11	1.6	ug/L
85-01-8	Phenanthrene	1.6	U	11	1.6	ug/L
120-12-7	Anthracene	1.6	U	11	1.6	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.9	U	11	1.9	ug/L
205-99-2	Benzo(b)fluoranthene	0.830	U	11	0.830	ug/L
207-08-9	Benzo(k)fluoranthene	2.1	U	11	2.1	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.920	U	11	0.920	ug/L
53-70-3	Dibenz(a,h)anthracene	0.960	U	11	0.960	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.73	85 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	65.07	65 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	59.5	60 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	175564	6.59			
1146-65-2	Naphthalene-d8	629659	8.91			
15067-26-2	Acenaphthene-d10	297988	12.35			
1517-22-2	Phenanthrene-d10	497243	15.34			
1719-03-5	Chrysene-d12	366886	20.65			
1520-96-3	Perylene-d12	316782	23.94			

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Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	7/11/2007
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	7/13/2007
Client Sample ID:	FB	SDG No.:	Y3515
Lab Sample ID:	Y3515-10	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	930.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032890.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.5	U	11	1.5	ug/L
83-32-9	Acenaphthene	1.4	U	11	1.4	ug/L
86-73-7	Fluorene	1.5	U	11	1.5	ug/L
85-01-8	Phenanthrene	1.5	U	11	1.5	ug/L
120-12-7	Anthracene	1.5	U	11	1.5	ug/L
206-44-0	Fluoranthene	1.3	U	11	1.3	ug/L
129-00-0	Pyrene	1.6	U	11	1.6	ug/L
56-55-3	Benzo(a)anthracene	1.2	U	11	1.2	ug/L
218-01-9	Chrysene	1.8	U	11	1.8	ug/L
205-99-2	Benzo(b)fluoranthene	0.810	U	11	0.810	ug/L
207-08-9	Benzo(k)fluoranthene	2.0	U	11	2.0	ug/L
50-32-8	Benzo(a)pyrene	1.3	U	11	1.3	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.890	U	11	0.890	ug/L
53-70-3	Dibenz(a,h)anthracene	0.930	U	11	0.930	ug/L
191-24-2	Benzo(g,h,i)perylene	1.2	U	11	1.2	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.11	83 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	64.34	64 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	86.15	86 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	202744	6.59			
1146-65-2	Naphthalene-d8	718731	8.91			
15067-26-2	Acenaphthene-d10	342577	12.35			
1517-22-2	Phenanthrene-d10	589685	15.33			
1719-03-5	Chrysene-d12	423333	20.66			
1520-96-3	Perylene-d12	261311	23.94			

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J = Estimated Value
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 N = Presumptive Evidence of a Compound

CHEMTECH

**QUALITY CONTROL SUMMARY
REPORTS**

GC/MS EXTRACTABLES

Chemtech Consulting Group

Surrogate Summary SW-846

SDG No.: Y3515
Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits	
							Low	High
PB27776B	SBLK01	Nitrobenzene-d5	100	83.95	84		35.00	114.00
		2-Fluorobiphenyl	100	56.09	56		43.00	116.00
		Terphenyl-d14	100	66.57	67		33.00	141.00
PB27776BS	SLCS01	Nitrobenzene-d5	100	85.89	86		35.00	114.00
		2-Fluorobiphenyl	100	60.51	61		43.00	116.00
		Terphenyl-d14	100	67.28	67		33.00	141.00
Y3515-01	MW-GF-04	Nitrobenzene-d5	100	89.92	90		35.00	114.00
		2-Fluorobiphenyl	100	67.65	68		43.00	116.00
		Terphenyl-d14	100	53.77	54		33.00	141.00
Y3515-02	MW-01	Nitrobenzene-d5	100	85.18	85		35.00	114.00
		2-Fluorobiphenyl	100	63.75	64		43.00	116.00
		Terphenyl-d14	100	31.15	31	*	33.00	141.00
Y3515-03	MW-10-60	Nitrobenzene-d5	100	86.88	87		35.00	114.00
		2-Fluorobiphenyl	100	62.82	63		43.00	116.00
		Terphenyl-d14	100	54.42	54		33.00	141.00
Y3515-04	MW-9-60	Nitrobenzene-d5	100	88.33	88		35.00	114.00
		2-Fluorobiphenyl	100	65.12	65		43.00	116.00
		Terphenyl-d14	100	70.65	71		33.00	141.00
Y3515-05	MW-11-60	Nitrobenzene-d5	100	83.61	84		35.00	114.00
		2-Fluorobiphenyl	100	59.99	60		43.00	116.00
		Terphenyl-d14	100	57.51	58		33.00	141.00
Y3515-06	MW-1-60	Nitrobenzene-d5	100	86.01	86		35.00	114.00
		2-Fluorobiphenyl	100	65.03	65		43.00	116.00
		Terphenyl-d14	100	69.9	70		33.00	141.00
Y3515-07	MW-2D-60	Nitrobenzene-d5	100	91.03	91		35.00	114.00
		2-Fluorobiphenyl	100	67.54	68		43.00	116.00
		Terphenyl-d14	100	76.63	77		33.00	141.00
Y3515-08	MW-3D-60	Nitrobenzene-d5	100	85.71	86		35.00	114.00
		2-Fluorobiphenyl	100	61.43	61		43.00	116.00
		Terphenyl-d14	100	52.66	53		33.00	141.00
Y3515-09	MW-GF-25	Nitrobenzene-d5	100	84.73	85		35.00	114.00
		2-Fluorobiphenyl	100	65.07	65		43.00	116.00
		Terphenyl-d14	100	59.5	60		33.00	141.00
Y3515-10	FB	Nitrobenzene-d5	100	83.11	83		35.00	114.00
		2-Fluorobiphenyl	100	64.34	64		43.00	116.00
		Terphenyl-d14	100	86.15	86		33.00	141.00

Chemtech Consulting Group

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary SW-846

SDG No.: Y3515

Client: Gannett Fleming Engineers, LLC

Analytical Method: EPA SW-846 8270

Lab Sample ID	Parameter	Spike	Result	Rec	RPD	Qual	Low	Limits	
								High	RPD
PB27776BS	Naphthalene	50	36	72			57	99	
	Acenaphthene	50	39	78			56	104	
	Fluorene	50	38	76			61	104	
	Phenanthrene	50	44	88			60	110	
	Anthracene	50	44	88			60	110	
	Fluoranthene	50	45	90			60	110	
	Pyrene	50	47	94			50	110	
	Benzo(a)anthracene	50	43	86			60	105	
	Chrysene	50	39	78			57	108	
	Indeno(1,2,3-cd)pyrene	50	53	106			35	127	
	Benzo(b)fluoranthene	50	41	82			49	116	
	Benzo(k)fluoranthene	50	45	90			52	111	
	Benzo(a)pyrene	50	44	88			58	102	
	Dibenz(a,h)anthracene	50	49	98			53	127	
	Benzo(g,h,i)perylene	50	52	104			42	121	

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SLCS01	SDG No.:	Y3515
Lab Sample ID:	PB27776BS	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032882.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	36		10	1.4	ug/L
83-32-9	Acenaphthene	39		10	1.3	ug/L
86-73-7	Fluorene	38		10	1.4	ug/L
85-01-8	Phenanthrene	44		10	1.4	ug/L
120-12-7	Anthracene	44		10	1.4	ug/L
206-44-0	Fluoranthene	45		10	1.2	ug/L
129-00-0	Pyrene	47		10	1.5	ug/L
56-55-3	Benzo(a)anthracene	43		10	1.1	ug/L
218-01-9	Chrysene	39		10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	41		10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	45		10	1.9	ug/L
50-32-8	Benzo(a)pyrene	44		10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	53		10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	49		10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	52		10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	85.89	86 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	60.51	61 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	67.28	67 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143201	6.59			
1146-65-2	Naphthalene-d8	499107	8.91			
15067-26-2	Acenaphthene-d10	237405	12.36			
1517-22-2	Phenanthrene-d10	399402	15.34			
1719-03-5	Chrysene-d12	378365	20.67			
1520-96-3	Perylene-d12	321367	23.95			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: Chemtech Consulting Group Contract: GANN01

Lab Code: CHEM Case No.: Y3515 SAS No.: Y3515 SDG NO.: Y3515

Lab File ID: BA032881.D Lab Sample ID: PB27776B

Instrument ID: BNA Date Extracted: 7/16/2007

Matrix: (soil/water) WATER Date Analyzed: 7/16/2007

Level: (low/med) LOW Time Analyzed: 17:48

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	PB27776BS	BA032882.D	7/16/2007
02	MW-GF-04	Y3515-01	BA032884.D	7/16/2007
03	MW-10-60	Y3515-03	BA032885.D	7/16/2007
04	MW-9-60	Y3515-04	BA032886.D	7/16/2007
05	MW-11-60	Y3515-05	BA032887.D	7/16/2007
06	MW-1-60	Y3515-06	BA032888.D	7/16/2007
07	MW-2D-60	Y3515-07	BA032889.D	7/16/2007
08	FB	Y3515-10	BA032890.D	7/16/2007
09	MW-GF-25	Y3515-09	BA032891.D	7/17/2007
10	MW-01	Y3515-02	BA032892.D	7/17/2007
11	MW-3D-60	Y3515-08	BA032893.D	7/17/2007

COMMENTS:

Report of Analysis

Client:	Gannett Fleming Engineers, LLC	Date Collected:	
Project:	LIRR Richmond Hill, Morris Park G	Date Received:	
Client Sample ID:	SBLK01	SDG No.:	Y3515
Lab Sample ID:	PB27776B	Matrix:	WATER
Analytical Method:	8270	% Moisture:	100
Sample Wt/Wol:	1000.0 mL	Extract Vol:	1000 uL

File ID	Dilution	Date Extracted	Date Analyzed	Analytical Batch ID
BA032881.D	1	7/16/2007	7/16/2007	BA070507

CAS Number	Parameter	Conc.	Qualifier	RL	MDL	Units
TARGETS						
91-20-3	Naphthalene	1.4	U	10	1.4	ug/L
83-32-9	Acenaphthene	1.3	U	10	1.3	ug/L
86-73-7	Fluorene	1.4	U	10	1.4	ug/L
85-01-8	Phenanthrene	1.4	U	10	1.4	ug/L
120-12-7	Anthracene	1.4	U	10	1.4	ug/L
206-44-0	Fluoranthene	1.2	U	10	1.2	ug/L
129-00-0	Pyrene	1.5	U	10	1.5	ug/L
56-55-3	Benzo(a)anthracene	1.1	U	10	1.1	ug/L
218-01-9	Chrysene	1.7	U	10	1.7	ug/L
205-99-2	Benzo(b)fluoranthene	0.750	U	10	0.750	ug/L
207-08-9	Benzo(k)fluoranthene	1.9	U	10	1.9	ug/L
50-32-8	Benzo(a)pyrene	1.2	U	10	1.2	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.830	U	10	0.830	ug/L
53-70-3	Dibenz(a,h)anthracene	0.870	U	10	0.870	ug/L
191-24-2	Benzo(g,h,i)perylene	1.1	U	10	1.1	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.95	84 %	35 - 114		SPK: 10
321-60-8	2-Fluorobiphenyl	56.09	56 %	43 - 116		SPK: 10
1718-51-0	Terphenyl-d14	66.57	67 %	33 - 141		SPK: 10
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	150161	6.60			
1146-65-2	Naphthalene-d8	532323	8.91			
15067-26-2	Acenaphthene-d10	254449	12.36			
1517-22-2	Phenanthrene-d10	424442	15.34			
1719-03-5	Chrysene-d12	370632	20.67			
1520-96-3	Perylene-d12	345838	23.96			

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range

J = Estimated Value
 B = Analyte Found In Associated Method Blank
 N = Presumptive Evidence of a Compound

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

END OF ANALYTICAL RESULTS

APPENDIX G
Slug Testing Data

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:59:26
 Report from file: ...\\SN12694 2007-05-21 100108 Test #16.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #16

Test defined on: 5/21/2007 10:00:52
 Test started on: 5/21/2007 10:01:08
 Test stopped on: 5/21/2007 10:08:48

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 920

TOTAL DATA SAMPLES 920

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 8.304 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/21/2007	10:01:08	0	61.51	0
5/21/2007	10:01:08	0.5	61.53	-0.011
5/21/2007	10:01:09	1	61.55	-0.012
5/21/2007	10:01:09	1.5	61.55	-0.014
5/21/2007	10:01:10	2	61.57	-0.016
5/21/2007	10:01:10	2.5	61.57	-0.018
5/21/2007	10:01:11	3	61.57	-0.016
5/21/2007	10:01:11	3.5	61.6	-0.015
5/21/2007	10:01:12	4	61.6	-0.017
5/21/2007	10:01:12	4.5	61.6	-0.017

5/21/2007	10:01:13	5	61.6	-0.017
5/21/2007	10:01:13	5.5	61.6	-0.017
5/21/2007	10:01:14	6	61.6	-0.017
5/21/2007	10:01:14	6.5	61.6	-0.017
5/21/2007	10:01:15	7	61.6	-0.017
5/21/2007	10:01:15	7.5	61.6	-0.017
5/21/2007	10:01:16	8	61.6	-0.017
5/21/2007	10:01:16	8.5	61.6	-0.017
5/21/2007	10:01:17	9	61.6	-0.019
5/21/2007	10:01:17	9.5	61.6	-0.019
5/21/2007	10:01:18	10	61.6	-0.017
5/21/2007	10:01:18	10.5	61.6	-0.019
5/21/2007	10:01:19	11	61.6	-0.017
5/21/2007	10:01:19	11.5	61.62	-0.018
5/21/2007	10:01:20	12	61.6	-0.019
5/21/2007	10:01:20	12.5	61.62	-0.016
5/21/2007	10:01:21	13	61.6	-0.019
5/21/2007	10:01:21	13.5	61.62	-0.018
5/21/2007	10:01:22	14	61.62	-0.018
5/21/2007	10:01:22	14.5	61.62	-0.018
5/21/2007	10:01:23	15	61.62	-0.018
5/21/2007	10:01:23	15.5	61.62	-0.018
5/21/2007	10:01:24	16	61.62	-0.018
5/21/2007	10:01:24	16.5	61.62	-0.018
5/21/2007	10:01:25	17	61.62	-0.018
5/21/2007	10:01:25	17.5	61.62	-0.018
5/21/2007	10:01:26	18	61.62	-0.018
5/21/2007	10:01:26	18.5	61.62	-0.018
5/21/2007	10:01:27	19	61.62	-0.018
5/21/2007	10:01:27	19.5	61.62	-0.018
5/21/2007	10:01:28	20	61.62	-0.018
5/21/2007	10:01:28	20.5	61.62	-0.018
5/21/2007	10:01:29	21	61.62	-0.018
5/21/2007	10:01:29	21.5	61.62	-0.018
5/21/2007	10:01:30	22	61.62	-0.018
5/21/2007	10:01:30	22.5	61.62	-0.018
5/21/2007	10:01:31	23	61.64	-0.018
5/21/2007	10:01:31	23.5	61.64	-0.018
5/21/2007	10:01:32	24	61.62	-0.018
5/21/2007	10:01:32	24.5	61.64	-0.018
5/21/2007	10:01:33	25	61.64	-0.018
5/21/2007	10:01:33	25.5	61.64	-0.018
5/21/2007	10:01:34	26	61.64	-0.018
5/21/2007	10:01:34	26.5	61.64	-0.018
5/21/2007	10:01:35	27	61.64	-0.018
5/21/2007	10:01:35	27.5	61.64	-0.018
5/21/2007	10:01:36	28	61.64	-0.018
5/21/2007	10:01:36	28.5	61.64	-0.018
5/21/2007	10:01:37	29	61.64	-0.018
5/21/2007	10:01:37	29.5	61.64	-0.018
5/21/2007	10:01:38	30	61.64	-0.018
5/21/2007	10:01:38	30.5	61.64	-0.018

5/21/2007	10:01:39	31	61.64	-0.018
5/21/2007	10:01:39	31.5	61.64	-0.018
5/21/2007	10:01:40	32	61.64	-0.018
5/21/2007	10:01:40	32.5	61.64	-0.018
5/21/2007	10:01:41	33	61.64	-0.018
5/21/2007	10:01:41	33.5	61.64	-0.018
5/21/2007	10:01:42	34	61.64	-0.018
5/21/2007	10:01:42	34.5	61.64	-0.018
5/21/2007	10:01:43	35	61.64	-0.018
5/21/2007	10:01:43	35.5	61.64	-0.018
5/21/2007	10:01:44	36	61.66	-0.017
5/21/2007	10:01:44	36.5	61.66	-0.017
5/21/2007	10:01:45	37	61.66	-0.017
5/21/2007	10:01:45	37.5	61.66	-0.017
5/21/2007	10:01:46	38	61.64	-0.018
5/21/2007	10:01:46	38.5	61.66	-0.017
5/21/2007	10:01:47	39	61.66	-0.017
5/21/2007	10:01:47	39.5	61.66	-0.017
5/21/2007	10:01:48	40	61.66	-0.017
5/21/2007	10:01:48	40.5	61.66	0.073
5/21/2007	10:01:49	41	61.66	0.575
5/21/2007	10:01:49	41.5	61.66	0.773
5/21/2007	10:01:50	42	61.66	1.197
5/21/2007	10:01:50	42.5	61.66	0.865
5/21/2007	10:01:51	43	61.66	0.928
5/21/2007	10:01:51	43.5	61.66	0.71
5/21/2007	10:01:52	44	61.66	0.608
5/21/2007	10:01:52	44.5	61.66	0.531
5/21/2007	10:01:53	45	61.66	0.472
5/21/2007	10:01:53	45.5	61.66	0.426
5/21/2007	10:01:54	46	61.66	0.384
5/21/2007	10:01:54	46.5	61.66	0.345
5/21/2007	10:01:55	47	61.66	0.313
5/21/2007	10:01:55	47.5	61.66	0.282
5/21/2007	10:01:56	48	61.66	0.253
5/21/2007	10:01:56	48.5	61.66	0.226
5/21/2007	10:01:57	49	61.66	0.203
5/21/2007	10:01:57	49.5	61.66	0.182
5/21/2007	10:01:58	50	61.66	0.163
5/21/2007	10:01:58	50.5	61.66	0.146
5/21/2007	10:01:59	51	61.66	0.128
5/21/2007	10:01:59	51.5	61.66	0.115
5/21/2007	10:02:00	52	61.66	0.102
5/21/2007	10:02:00	52.5	61.69	0.089
5/21/2007	10:02:01	53	61.66	0.079
5/21/2007	10:02:01	53.5	61.66	0.069
5/21/2007	10:02:02	54	61.66	0.059
5/21/2007	10:02:02	54.5	61.66	0.052
5/21/2007	10:02:03	55	61.66	0.044
5/21/2007	10:02:03	55.5	61.69	0.039
5/21/2007	10:02:04	56	61.69	0.033
5/21/2007	10:02:04	56.5	61.69	0.027

5/21/2007	10:02:05	57	61.66	0.023
5/21/2007	10:02:05	57.5	61.69	0.018
5/21/2007	10:02:06	58	61.66	0.015
5/21/2007	10:02:06	58.5	61.66	0.012
5/21/2007	10:02:07	59	61.69	0.008
5/21/2007	10:02:07	59.5	61.66	0.006
5/21/2007	10:02:08	60	61.66	0.002
5/21/2007	10:02:08	60.5	61.69	0.001
5/21/2007	10:02:09	61	61.66	-0.002
5/21/2007	10:02:09	61.5	61.69	-0.003
5/21/2007	10:02:10	62	61.66	-0.006
5/21/2007	10:02:10	62.5	61.69	-0.005
5/21/2007	10:02:11	63	61.69	-0.007
5/21/2007	10:02:11	63.5	61.69	-0.009
5/21/2007	10:02:12	64	61.69	-0.011
5/21/2007	10:02:12	64.5	61.69	-0.009
5/21/2007	10:02:13	65	61.69	-0.011
5/21/2007	10:02:13	65.5	61.69	-0.011
5/21/2007	10:02:14	66	61.69	-0.011
5/21/2007	10:02:14	66.5	61.69	-0.013
5/21/2007	10:02:15	67	61.69	-0.013
5/21/2007	10:02:15	67.5	61.69	-0.013
5/21/2007	10:02:16	68	61.69	-0.015
5/21/2007	10:02:16	68.5	61.69	-0.015
5/21/2007	10:02:17	69	61.69	-0.015
5/21/2007	10:02:17	69.5	61.69	-0.017
5/21/2007	10:02:18	70	61.69	-0.017
5/21/2007	10:02:18	70.5	61.69	-0.017
5/21/2007	10:02:19	71	61.69	-0.019
5/21/2007	10:02:19	71.5	61.69	-0.019
5/21/2007	10:02:20	72	61.69	-0.019
5/21/2007	10:02:20	72.5	61.69	-0.019
5/21/2007	10:02:21	73	61.69	-0.021
5/21/2007	10:02:21	73.5	61.69	-0.021
5/21/2007	10:02:22	74	61.69	-0.021
5/21/2007	10:02:22	74.5	61.69	-0.021
5/21/2007	10:02:23	75	61.69	-0.022
5/21/2007	10:02:23	75.5	61.69	-0.022
5/21/2007	10:02:24	76	61.69	-0.022
5/21/2007	10:02:24	76.5	61.69	-0.022
5/21/2007	10:02:25	77	61.69	-0.022
5/21/2007	10:02:25	77.5	61.69	-0.022
5/21/2007	10:02:26	78	61.69	-0.022
5/21/2007	10:02:26	78.5	61.69	-0.024
5/21/2007	10:02:27	79	61.69	-0.024
5/21/2007	10:02:27	79.5	61.69	-0.024
5/21/2007	10:02:28	80	61.69	-0.024
5/21/2007	10:02:28	80.5	61.69	-0.024
5/21/2007	10:02:29	81	61.69	-0.024
5/21/2007	10:02:29	81.5	61.69	-0.026
5/21/2007	10:02:30	82	61.71	-0.026
5/21/2007	10:02:30	82.5	61.71	-0.026

5/21/2007	10:02:31	83	61.71	-0.026
5/21/2007	10:02:31	83.5	61.71	-0.026
5/21/2007	10:02:32	84	61.71	-0.026
5/21/2007	10:02:32	84.5	61.71	-0.028
5/21/2007	10:02:33	85	61.71	-0.026
5/21/2007	10:02:33	85.5	61.71	-0.026
5/21/2007	10:02:34	86	61.71	-0.026
5/21/2007	10:02:34	86.5	61.71	-0.028
5/21/2007	10:02:35	87	61.71	-0.028
5/21/2007	10:02:35	87.5	61.71	-0.028
5/21/2007	10:02:36	88	61.71	-0.028
5/21/2007	10:02:36	88.5	61.71	-0.028
5/21/2007	10:02:37	89	61.71	-0.028
5/21/2007	10:02:37	89.5	61.71	-0.028
5/21/2007	10:02:38	90	61.71	-0.028
5/21/2007	10:02:38	90.5	61.71	-0.03
5/21/2007	10:02:39	91	61.71	-0.028
5/21/2007	10:02:39	91.5	61.71	-0.028
5/21/2007	10:02:40	92	61.71	-0.028
5/21/2007	10:02:40	92.5	61.71	-0.03
5/21/2007	10:02:41	93	61.71	-0.03
5/21/2007	10:02:41	93.5	61.73	-0.027
5/21/2007	10:02:42	94	61.73	-0.029
5/21/2007	10:02:42	94.5	61.73	-0.029
5/21/2007	10:02:43	95	61.73	-0.029
5/21/2007	10:02:43	95.5	61.73	-0.027
5/21/2007	10:02:44	96	61.73	-0.029
5/21/2007	10:02:44	96.5	61.73	-0.029
5/21/2007	10:02:45	97	61.73	-0.027
5/21/2007	10:02:45	97.5	61.73	-0.029
5/21/2007	10:02:46	98	61.73	-0.029
5/21/2007	10:02:46	98.5	61.73	-0.029
5/21/2007	10:02:47	99	61.73	-0.027
5/21/2007	10:02:47	99.5	61.73	-0.029
5/21/2007	10:02:48	100	61.73	-0.029
5/21/2007	10:02:48	100.5	61.73	-0.029
5/21/2007	10:02:49	101	61.73	-0.029
5/21/2007	10:02:49	101.5	61.73	-0.029
5/21/2007	10:02:50	102	61.73	-0.029
5/21/2007	10:02:50	102.5	61.73	-0.029
5/21/2007	10:02:51	103	61.73	-0.029
5/21/2007	10:02:51	103.5	61.73	-0.029
5/21/2007	10:02:52	104	61.73	-0.029
5/21/2007	10:02:52	104.5	61.73	-0.029
5/21/2007	10:02:53	105	61.76	-0.028
5/21/2007	10:02:53	105.5	61.76	-0.028
5/21/2007	10:02:54	106	61.76	-0.028
5/21/2007	10:02:54	106.5	61.76	-0.028
5/21/2007	10:02:55	107	61.76	-0.028
5/21/2007	10:02:55	107.5	61.76	-0.028
5/21/2007	10:02:56	108	61.76	-0.028
5/21/2007	10:02:56	108.5	61.76	-0.028

5/21/2007	10:02:57	109	61.76	-0.028
5/21/2007	10:02:57	109.5	61.76	-0.028
5/21/2007	10:02:58	110	61.76	-0.028
5/21/2007	10:02:58	110.5	61.76	-0.028
5/21/2007	10:02:59	111	61.76	-0.028
5/21/2007	10:02:59	111.5	61.76	-0.028
5/21/2007	10:03:00	112	61.76	-0.028
5/21/2007	10:03:00	112.5	61.76	-0.028
5/21/2007	10:03:01	113	61.76	-0.028
5/21/2007	10:03:01	113.5	61.76	-0.028
5/21/2007	10:03:02	114	61.76	-0.028
5/21/2007	10:03:02	114.5	61.76	-0.028
5/21/2007	10:03:03	115	61.76	-0.028
5/21/2007	10:03:03	115.5	61.76	-0.028
5/21/2007	10:03:04	116	61.76	-0.028
5/21/2007	10:03:04	116.5	61.76	-0.028
5/21/2007	10:03:05	117	61.78	-0.028
5/21/2007	10:03:05	117.5	61.78	-0.028
5/21/2007	10:03:06	118	61.78	-0.028
5/21/2007	10:03:06	118.5	61.78	-0.028
5/21/2007	10:03:07	119	61.78	-0.028
5/21/2007	10:03:07	119.5	61.78	-0.028
5/21/2007	10:03:08	120	61.78	-0.028
5/21/2007	10:03:08	120.5	61.78	-0.028
5/21/2007	10:03:09	121	61.78	-0.028
5/21/2007	10:03:09	121.5	61.78	-0.028
5/21/2007	10:03:10	122	61.78	-0.028
5/21/2007	10:03:10	122.5	61.78	-0.028
5/21/2007	10:03:11	123	61.78	-0.028
5/21/2007	10:03:11	123.5	61.78	-0.028
5/21/2007	10:03:12	124	61.78	-0.028
5/21/2007	10:03:12	124.5	61.78	-0.028
5/21/2007	10:03:13	125	61.78	-0.03
5/21/2007	10:03:13	125.5	61.78	-0.028
5/21/2007	10:03:14	126	61.78	-0.028
5/21/2007	10:03:14	126.5	61.78	-0.028
5/21/2007	10:03:15	127	61.78	-0.028
5/21/2007	10:03:15	127.5	61.78	-0.028
5/21/2007	10:03:16	128	61.78	-0.028
5/21/2007	10:03:16	128.5	61.8	-0.027
5/21/2007	10:03:17	129	61.78	-0.028
5/21/2007	10:03:17	129.5	61.8	-0.027
5/21/2007	10:03:18	130	61.8	-0.027
5/21/2007	10:03:18	130.5	61.8	-0.029
5/21/2007	10:03:19	131	61.8	-0.027
5/21/2007	10:03:19	131.5	61.8	-0.027
5/21/2007	10:03:20	132	61.8	-0.027
5/21/2007	10:03:20	132.5	61.8	-0.029
5/21/2007	10:03:21	133	61.8	-0.027
5/21/2007	10:03:21	133.5	61.8	-0.027
5/21/2007	10:03:22	134	61.8	-0.027
5/21/2007	10:03:22	134.5	61.8	-0.025

5/21/2007	10:03:23	135	61.8	-0.027
5/21/2007	10:03:23	135.5	61.8	-0.027
5/21/2007	10:03:24	136	61.8	-0.027
5/21/2007	10:03:24	136.5	61.8	-0.027
5/21/2007	10:03:25	137	61.8	-0.027
5/21/2007	10:03:25	137.5	61.8	-0.027
5/21/2007	10:03:26	138	61.8	-0.027
5/21/2007	10:03:26	138.5	61.8	-0.027
5/21/2007	10:03:27	139	61.8	-0.027
5/21/2007	10:03:27	139.5	61.8	-0.027
5/21/2007	10:03:28	140	61.8	-0.027
5/21/2007	10:03:28	140.5	61.8	-0.027
5/21/2007	10:03:29	141	61.8	-0.027
5/21/2007	10:03:29	141.5	61.8	-0.027
5/21/2007	10:03:30	142	61.8	-0.027
5/21/2007	10:03:30	142.5	61.8	-0.027
5/21/2007	10:03:31	143	61.8	-0.025
5/21/2007	10:03:31	143.5	61.8	-0.025
5/21/2007	10:03:32	144	61.8	-0.027
5/21/2007	10:03:32	144.5	61.8	-0.027
5/21/2007	10:03:33	145	61.8	-0.027
5/21/2007	10:03:33	145.5	61.82	-0.027
5/21/2007	10:03:34	146	61.82	-0.027
5/21/2007	10:03:34	146.5	61.82	-0.027
5/21/2007	10:03:35	147	61.82	-0.027
5/21/2007	10:03:35	147.5	61.82	-0.027
5/21/2007	10:03:36	148	61.82	-0.027
5/21/2007	10:03:36	148.5	61.82	-0.027
5/21/2007	10:03:37	149	61.82	-0.027
5/21/2007	10:03:37	149.5	61.82	-0.027
5/21/2007	10:03:38	150	61.82	-0.027
5/21/2007	10:03:38	150.5	61.82	-0.027
5/21/2007	10:03:39	151	61.82	-0.027
5/21/2007	10:03:39	151.5	61.82	-0.027
5/21/2007	10:03:40	152	61.82	-0.027
5/21/2007	10:03:40	152.5	61.82	-0.027
5/21/2007	10:03:41	153	61.82	-0.027
5/21/2007	10:03:41	153.5	61.82	-0.027
5/21/2007	10:03:42	154	61.82	-0.027
5/21/2007	10:03:42	154.5	61.82	-0.027
5/21/2007	10:03:43	155	61.82	-0.027
5/21/2007	10:03:43	155.5	61.82	-0.027
5/21/2007	10:03:44	156	61.82	-0.027
5/21/2007	10:03:44	156.5	61.82	-0.025
5/21/2007	10:03:45	157	61.82	-0.027
5/21/2007	10:03:45	157.5	61.82	-0.027
5/21/2007	10:03:46	158	61.82	-0.027
5/21/2007	10:03:46	158.5	61.82	-0.027
5/21/2007	10:03:47	159	61.82	-0.027
5/21/2007	10:03:47	159.5	61.82	-0.025
5/21/2007	10:03:48	160	61.82	-0.027
5/21/2007	10:03:48	160.5	61.85	-0.026

5/21/2007	10:03:49	161	61.82	-0.027
5/21/2007	10:03:49	161.5	61.82	-0.027
5/21/2007	10:03:50	162	61.85	-0.026
5/21/2007	10:03:50	162.5	61.85	-0.026
5/21/2007	10:03:51	163	61.82	-0.027
5/21/2007	10:03:51	163.5	61.85	-0.026
5/21/2007	10:03:52	164	61.85	-0.026
5/21/2007	10:03:52	164.5	61.85	-0.024
5/21/2007	10:03:53	165	61.85	-0.026
5/21/2007	10:03:53	165.5	61.85	-0.026
5/21/2007	10:03:54	166	61.85	-0.026
5/21/2007	10:03:54	166.5	61.85	-0.024
5/21/2007	10:03:55	167	61.85	-0.026
5/21/2007	10:03:55	167.5	61.85	-0.024
5/21/2007	10:03:56	168	61.85	-0.026
5/21/2007	10:03:56	168.5	61.85	-0.024
5/21/2007	10:03:57	169	61.85	-0.024
5/21/2007	10:03:57	169.5	61.85	-0.026
5/21/2007	10:03:58	170	61.85	-0.026
5/21/2007	10:03:58	170.5	61.85	-0.026
5/21/2007	10:03:59	171	61.85	-0.024
5/21/2007	10:03:59	171.5	61.85	-0.026
5/21/2007	10:04:00	172	61.85	-0.024
5/21/2007	10:04:00	172.5	61.85	-0.026
5/21/2007	10:04:01	173	61.85	-0.026
5/21/2007	10:04:01	173.5	61.85	-0.026
5/21/2007	10:04:02	174	61.85	-0.026
5/21/2007	10:04:02	174.5	61.85	-0.026
5/21/2007	10:04:03	175	61.85	-0.026
5/21/2007	10:04:03	175.5	61.85	-0.026
5/21/2007	10:04:04	176	61.85	-0.026
5/21/2007	10:04:04	176.5	61.85	-0.026
5/21/2007	10:04:05	177	61.85	-0.026
5/21/2007	10:04:05	177.5	61.85	-0.024
5/21/2007	10:04:06	178	61.85	-0.026
5/21/2007	10:04:06	178.5	61.85	-0.026
5/21/2007	10:04:07	179	61.85	-0.026
5/21/2007	10:04:07	179.5	61.85	-0.024
5/21/2007	10:04:08	180	61.85	-0.026
5/21/2007	10:04:08	180.5	61.85	-0.024
5/21/2007	10:04:09	181	61.87	-0.024
5/21/2007	10:04:09	181.5	61.87	-0.026
5/21/2007	10:04:10	182	61.85	-0.026
5/21/2007	10:04:10	182.5	61.85	-0.026
5/21/2007	10:04:11	183	61.87	-0.026
5/21/2007	10:04:11	183.5	61.87	-0.026
5/21/2007	10:04:12	184	61.87	-0.026
5/21/2007	10:04:12	184.5	61.87	-0.026
5/21/2007	10:04:13	185	61.87	-0.024
5/21/2007	10:04:13	185.5	61.85	-0.024
5/21/2007	10:04:14	186	61.87	-0.024
5/21/2007	10:04:14	186.5	61.87	-0.026

5/21/2007	10:04:15	187	61.85	-0.024
5/21/2007	10:04:15	187.5	61.87	-0.024
5/21/2007	10:04:16	188	61.87	-0.026
5/21/2007	10:04:16	188.5	61.87	-0.024
5/21/2007	10:04:17	189	61.87	-0.026
5/21/2007	10:04:17	189.5	61.87	-0.024
5/21/2007	10:04:18	190	61.87	-0.024
5/21/2007	10:04:18	190.5	61.87	-0.024
5/21/2007	10:04:19	191	61.85	-0.024
5/21/2007	10:04:19	191.5	61.87	-0.026
5/21/2007	10:04:20	192	61.87	-0.024
5/21/2007	10:04:20	192.5	61.87	-0.024
5/21/2007	10:04:21	193	61.87	-0.026
5/21/2007	10:04:21	193.5	61.87	-0.024
5/21/2007	10:04:22	194	61.87	-0.026
5/21/2007	10:04:22	194.5	61.87	-0.022
5/21/2007	10:04:23	195	61.87	-0.026
5/21/2007	10:04:23	195.5	61.87	-0.024
5/21/2007	10:04:24	196	61.87	-0.026
5/21/2007	10:04:24	196.5	61.87	-0.026
5/21/2007	10:04:25	197	61.87	-0.026
5/21/2007	10:04:25	197.5	61.87	-0.026
5/21/2007	10:04:26	198	61.87	-0.024
5/21/2007	10:04:26	198.5	61.87	-0.026
5/21/2007	10:04:27	199	61.87	-0.026
5/21/2007	10:04:27	199.5	61.87	-0.024
5/21/2007	10:04:28	200	61.87	-0.024
5/21/2007	10:04:28	200.5	61.87	-0.024
5/21/2007	10:04:29	201	61.87	-0.026
5/21/2007	10:04:29	201.5	61.87	-0.026
5/21/2007	10:04:30	202	61.87	-0.024
5/21/2007	10:04:30	202.5	61.87	-0.024
5/21/2007	10:04:31	203	61.87	-0.024
5/21/2007	10:04:31	203.5	61.87	-0.024
5/21/2007	10:04:32	204	61.87	-0.024
5/21/2007	10:04:32	204.5	61.87	-0.026
5/21/2007	10:04:33	205	61.87	-0.024
5/21/2007	10:04:33	205.5	61.87	-0.024
5/21/2007	10:04:34	206	61.87	-0.024
5/21/2007	10:04:34	206.5	61.87	-0.024
5/21/2007	10:04:35	207	61.87	-0.024
5/21/2007	10:04:35	207.5	61.87	-0.024
5/21/2007	10:04:36	208	61.87	-0.024
5/21/2007	10:04:36	208.5	61.87	-0.024
5/21/2007	10:04:37	209	61.87	-0.024
5/21/2007	10:04:37	209.5	61.89	-0.023
5/21/2007	10:04:38	210	61.87	-0.024
5/21/2007	10:04:38	210.5	61.87	-0.024
5/21/2007	10:04:39	211	61.87	-0.024
5/21/2007	10:04:39	211.5	61.87	-0.026
5/21/2007	10:04:40	212	61.89	-0.023
5/21/2007	10:04:40	212.5	61.89	-0.025

5/21/2007	10:04:41	213	61.89	-0.023
5/21/2007	10:04:41	213.5	61.87	-0.024
5/21/2007	10:04:42	214	61.87	-0.024
5/21/2007	10:04:42	214.5	61.89	-0.023
5/21/2007	10:04:43	215	61.89	-0.023
5/21/2007	10:04:43	215.5	61.89	-0.023
5/21/2007	10:04:44	216	61.89	-0.023
5/21/2007	10:04:44	216.5	61.89	-0.023
5/21/2007	10:04:45	217	61.89	-0.023
5/21/2007	10:04:45	217.5	61.89	-0.023
5/21/2007	10:04:46	218	61.89	-0.023
5/21/2007	10:04:46	218.5	61.89	-0.023
5/21/2007	10:04:47	219	61.89	-0.023
5/21/2007	10:04:47	219.5	61.89	-0.025
5/21/2007	10:04:48	220	61.89	-0.023
5/21/2007	10:04:48	220.5	61.89	-0.025
5/21/2007	10:04:49	221	61.89	-0.025
5/21/2007	10:04:49	221.5	61.89	-0.023
5/21/2007	10:04:50	222	61.89	-0.023
5/21/2007	10:04:50	222.5	61.89	-0.023
5/21/2007	10:04:51	223	61.89	-0.023
5/21/2007	10:04:51	223.5	61.89	-0.023
5/21/2007	10:04:52	224	61.89	-0.023
5/21/2007	10:04:52	224.5	61.89	-0.025
5/21/2007	10:04:53	225	61.89	-0.023
5/21/2007	10:04:53	225.5	61.89	-0.023
5/21/2007	10:04:54	226	61.89	-0.023
5/21/2007	10:04:54	226.5	61.89	-0.023
5/21/2007	10:04:55	227	61.89	-0.023
5/21/2007	10:04:55	227.5	61.89	-0.023
5/21/2007	10:04:56	228	61.89	-0.023
5/21/2007	10:04:56	228.5	61.89	-0.023
5/21/2007	10:04:57	229	61.89	-0.023
5/21/2007	10:04:57	229.5	61.89	-0.023
5/21/2007	10:04:58	230	61.89	-0.023
5/21/2007	10:04:58	230.5	61.89	-0.023
5/21/2007	10:04:59	231	61.89	-0.023
5/21/2007	10:04:59	231.5	61.89	-0.023
5/21/2007	10:05:00	232	61.89	-0.023
5/21/2007	10:05:00	232.5	61.89	-0.023
5/21/2007	10:05:01	233	61.89	-0.023
5/21/2007	10:05:01	233.5	61.89	-0.023
5/21/2007	10:05:02	234	61.89	-0.023
5/21/2007	10:05:02	234.5	61.89	-0.023
5/21/2007	10:05:03	235	61.89	-0.023
5/21/2007	10:05:03	235.5	61.89	-0.023
5/21/2007	10:05:04	236	61.89	-0.023
5/21/2007	10:05:04	236.5	61.89	-0.023
5/21/2007	10:05:05	237	61.89	-0.023
5/21/2007	10:05:05	237.5	61.89	-0.023
5/21/2007	10:05:06	238	61.89	-0.023
5/21/2007	10:05:06	238.5	61.89	-0.023

5/21/2007	10:05:07	239	61.89	-0.023
5/21/2007	10:05:07	239.5	61.89	-0.023
5/21/2007	10:05:08	240	61.89	-0.023
5/21/2007	10:05:08	240.5	61.89	-0.023
5/21/2007	10:05:09	241	61.89	-0.023
5/21/2007	10:05:09	241.5	61.89	-0.023
5/21/2007	10:05:10	242	61.89	-0.023
5/21/2007	10:05:10	242.5	61.89	-0.023
5/21/2007	10:05:11	243	61.89	-0.023
5/21/2007	10:05:11	243.5	61.89	-0.023
5/21/2007	10:05:12	244	61.89	-0.023
5/21/2007	10:05:12	244.5	61.89	-0.025
5/21/2007	10:05:13	245	61.89	-0.023
5/21/2007	10:05:13	245.5	61.89	-0.023
5/21/2007	10:05:14	246	61.91	-0.023
5/21/2007	10:05:14	246.5	61.91	-0.023
5/21/2007	10:05:15	247	61.89	-0.023
5/21/2007	10:05:15	247.5	61.91	-0.023
5/21/2007	10:05:16	248	61.89	-0.023
5/21/2007	10:05:16	248.5	61.91	-0.023
5/21/2007	10:05:17	249	61.89	-0.023
5/21/2007	10:05:17	249.5	61.91	-0.023
5/21/2007	10:05:18	250	61.91	-0.023
5/21/2007	10:05:18	250.5	61.91	-0.023
5/21/2007	10:05:19	251	61.91	-0.023
5/21/2007	10:05:19	251.5	61.89	-0.023
5/21/2007	10:05:20	252	61.91	-0.023
5/21/2007	10:05:20	252.5	61.91	-0.023
5/21/2007	10:05:21	253	61.91	-0.023
5/21/2007	10:05:21	253.5	61.91	-0.023
5/21/2007	10:05:22	254	61.91	-0.023
5/21/2007	10:05:22	254.5	61.91	-0.023
5/21/2007	10:05:23	255	61.91	-0.023
5/21/2007	10:05:23	255.5	61.89	-0.023
5/21/2007	10:05:24	256	61.91	-0.023
5/21/2007	10:05:24	256.5	61.91	-0.023
5/21/2007	10:05:25	257	61.91	-0.023
5/21/2007	10:05:25	257.5	61.91	-0.023
5/21/2007	10:05:26	258	61.91	-0.023
5/21/2007	10:05:26	258.5	61.91	-0.023
5/21/2007	10:05:27	259	61.91	-0.023
5/21/2007	10:05:27	259.5	61.91	-0.023
5/21/2007	10:05:28	260	61.91	-0.023
5/21/2007	10:05:28	260.5	61.91	-0.023
5/21/2007	10:05:29	261	61.91	-0.023
5/21/2007	10:05:29	261.5	61.91	-0.023
5/21/2007	10:05:30	262	61.91	-0.023
5/21/2007	10:05:30	262.5	61.91	-0.023
5/21/2007	10:05:31	263	61.91	-0.023
5/21/2007	10:05:31	263.5	61.91	-0.023
5/21/2007	10:05:32	264	61.91	-0.023
5/21/2007	10:05:32	264.5	61.91	-0.023

5/21/2007	10:05:33	265	61.91	-0.023
5/21/2007	10:05:33	265.5	61.91	-0.023
5/21/2007	10:05:34	266	61.91	-0.023
5/21/2007	10:05:34	266.5	61.91	-0.023
5/21/2007	10:05:35	267	61.91	-0.025
5/21/2007	10:05:35	267.5	61.91	-0.023
5/21/2007	10:05:36	268	61.91	-0.023
5/21/2007	10:05:36	268.5	61.91	-0.023
5/21/2007	10:05:37	269	61.91	-0.023
5/21/2007	10:05:37	269.5	61.91	-0.023
5/21/2007	10:05:38	270	61.91	-0.021
5/21/2007	10:05:38	270.5	61.91	-0.023
5/21/2007	10:05:39	271	61.91	-0.023
5/21/2007	10:05:39	271.5	61.91	-0.021
5/21/2007	10:05:40	272	61.91	-0.021
5/21/2007	10:05:40	272.5	61.91	-0.023
5/21/2007	10:05:41	273	61.91	-0.021
5/21/2007	10:05:41	273.5	61.91	-0.023
5/21/2007	10:05:42	274	61.91	-0.021
5/21/2007	10:05:42	274.5	61.91	-0.021
5/21/2007	10:05:43	275	61.91	-0.023
5/21/2007	10:05:43	275.5	61.91	-0.021
5/21/2007	10:05:44	276	61.91	-0.023
5/21/2007	10:05:44	276.5	61.91	-0.021
5/21/2007	10:05:45	277	61.91	-0.023
5/21/2007	10:05:45	277.5	61.91	-0.023
5/21/2007	10:05:46	278	61.91	-0.023
5/21/2007	10:05:46	278.5	61.91	-0.023
5/21/2007	10:05:47	279	61.91	-0.021
5/21/2007	10:05:47	279.5	61.91	-0.023
5/21/2007	10:05:48	280	61.91	-0.021
5/21/2007	10:05:48	280.5	61.91	-0.021
5/21/2007	10:05:49	281	61.91	-0.023
5/21/2007	10:05:49	281.5	61.91	-0.023
5/21/2007	10:05:50	282	61.91	-0.023
5/21/2007	10:05:50	282.5	61.91	-0.023
5/21/2007	10:05:51	283	61.91	-0.021
5/21/2007	10:05:51	283.5	61.91	-0.023
5/21/2007	10:05:52	284	61.91	-0.021
5/21/2007	10:05:52	284.5	61.91	-0.023
5/21/2007	10:05:53	285	61.91	-0.021
5/21/2007	10:05:53	285.5	61.91	-0.023
5/21/2007	10:05:54	286	61.91	-0.023
5/21/2007	10:05:54	286.5	61.91	-0.023
5/21/2007	10:05:55	287	61.91	-0.023
5/21/2007	10:05:55	287.5	61.91	-0.023
5/21/2007	10:05:56	288	61.91	-0.021
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5/21/2007	10:05:57	289	61.91	-0.021
5/21/2007	10:05:57	289.5	61.91	-0.023
5/21/2007	10:05:58	290	61.91	-0.023
5/21/2007	10:05:58	290.5	61.91	-0.023

5/21/2007	10:05:59	291	61.91	-0.021
5/21/2007	10:05:59	291.5	61.91	-0.021
5/21/2007	10:06:00	292	61.91	-0.021
5/21/2007	10:06:00	292.5	61.91	-0.023
5/21/2007	10:06:01	293	61.91	-0.023
5/21/2007	10:06:01	293.5	61.91	-0.023
5/21/2007	10:06:02	294	61.91	-0.023
5/21/2007	10:06:02	294.5	61.91	-0.023
5/21/2007	10:06:03	295	61.91	-0.023
5/21/2007	10:06:03	295.5	61.91	-0.023
5/21/2007	10:06:04	296	61.91	-0.023
5/21/2007	10:06:04	296.5	61.91	-0.023
5/21/2007	10:06:05	297	61.91	-0.021
5/21/2007	10:06:05	297.5	61.91	-0.023
5/21/2007	10:06:06	298	61.91	-0.023
5/21/2007	10:06:06	298.5	61.91	-0.023
5/21/2007	10:06:07	299	61.91	-0.021
5/21/2007	10:06:07	299.5	61.91	-0.023
5/21/2007	10:06:08	300	61.94	-0.022
5/21/2007	10:06:08	300.5	61.91	-0.023
5/21/2007	10:06:09	301	61.91	-0.021
5/21/2007	10:06:09	301.5	61.94	-0.02
5/21/2007	10:06:10	302	61.91	-0.023
5/21/2007	10:06:10	302.5	61.91	-0.023
5/21/2007	10:06:11	303	61.91	-0.023
5/21/2007	10:06:11	303.5	61.91	-0.023
5/21/2007	10:06:12	304	61.91	-0.023
5/21/2007	10:06:12	304.5	61.91	-0.023
5/21/2007	10:06:13	305	61.91	-0.023
5/21/2007	10:06:13	305.5	61.91	-0.023
5/21/2007	10:06:14	306	61.91	-0.021
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5/21/2007	10:06:15	307	61.94	-0.022
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5/21/2007	10:06:16	308	61.91	-0.023
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5/21/2007	10:06:17	309	61.91	-0.023
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5/21/2007	10:06:18	310	61.94	-0.022
5/21/2007	10:06:18	310.5	61.91	-0.023
5/21/2007	10:06:19	311	61.91	-0.023
5/21/2007	10:06:19	311.5	61.94	-0.022
5/21/2007	10:06:20	312	61.94	-0.02
5/21/2007	10:06:20	312.5	61.91	-0.021
5/21/2007	10:06:21	313	61.91	-0.023
5/21/2007	10:06:21	313.5	61.94	-0.022
5/21/2007	10:06:22	314	61.94	-0.022
5/21/2007	10:06:22	314.5	61.94	-0.02
5/21/2007	10:06:23	315	61.91	-0.023
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5/21/2007	10:06:27	319	61.91	-0.023
5/21/2007	10:06:27	319.5	61.94	-0.022
5/21/2007	10:06:28	320	61.91	-0.023
5/21/2007	10:06:28	320.5	61.94	-0.022
5/21/2007	10:06:29	321	61.94	-0.022
5/21/2007	10:06:29	321.5	61.94	-0.02
5/21/2007	10:06:30	322	61.94	-0.022
5/21/2007	10:06:30	322.5	61.94	-0.022
5/21/2007	10:06:31	323	61.94	-0.02
5/21/2007	10:06:31	323.5	61.94	-0.022
5/21/2007	10:06:32	324	61.94	-0.022
5/21/2007	10:06:32	324.5	61.94	-0.022
5/21/2007	10:06:33	325	61.94	-0.022
5/21/2007	10:06:33	325.5	61.94	-0.022
5/21/2007	10:06:34	326	61.94	-0.022
5/21/2007	10:06:34	326.5	61.94	-0.022
5/21/2007	10:06:35	327	61.94	-0.022
5/21/2007	10:06:35	327.5	61.94	-0.022
5/21/2007	10:06:36	328	61.94	-0.02
5/21/2007	10:06:36	328.5	61.94	-0.022
5/21/2007	10:06:37	329	61.91	-0.023
5/21/2007	10:06:37	329.5	61.94	-0.022
5/21/2007	10:06:38	330	61.94	-0.024
5/21/2007	10:06:38	330.5	61.94	-0.024
5/21/2007	10:06:39	331	61.94	-0.026
5/21/2007	10:06:39	331.5	61.94	-0.026
5/21/2007	10:06:40	332	61.94	-0.026
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5/21/2007	10:06:41	333	61.94	-0.026
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5/21/2007	10:06:42	334	61.94	-0.026
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5/21/2007	10:06:44	336	61.94	-0.026
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5/21/2007	10:06:45	337	61.94	-0.028
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5/21/2007	10:06:52	344.5	61.94	-0.024
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5/21/2007	10:06:54	346	61.94	-0.024
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5/21/2007	10:07:00	352	61.94	-0.022
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5/21/2007	10:07:01	353	61.94	-0.022
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5/21/2007	10:07:02	354	61.94	-0.022
5/21/2007	10:07:02	354.5	61.94	-0.022
5/21/2007	10:07:03	355	61.94	-0.022
5/21/2007	10:07:03	355.5	61.94	-0.022
5/21/2007	10:07:04	356	61.94	-0.022
5/21/2007	10:07:04	356.5	61.94	-0.024
5/21/2007	10:07:05	357	61.94	-0.022
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5/21/2007	10:07:07	359.5	61.94	-0.022
5/21/2007	10:07:08	360	61.94	-0.022
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5/21/2007	10:07:22	374	61.94	-0.02
5/21/2007	10:07:22	374.5	61.94	-0.02
5/21/2007	10:07:23	375	61.94	-0.02
5/21/2007	10:07:23	375.5	61.94	-0.022
5/21/2007	10:07:24	376	61.94	-0.02
5/21/2007	10:07:24	376.5	61.94	-0.02
5/21/2007	10:07:25	377	61.94	-0.02
5/21/2007	10:07:25	377.5	61.94	-0.022
5/21/2007	10:07:26	378	61.94	-0.02
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5/21/2007	10:07:27	379	61.94	-0.02
5/21/2007	10:07:27	379.5	61.94	-0.022
5/21/2007	10:07:28	380	61.94	-0.02
5/21/2007	10:07:28	380.5	61.94	-0.02
5/21/2007	10:07:29	381	61.94	-0.02
5/21/2007	10:07:29	381.5	61.94	-0.02
5/21/2007	10:07:30	382	61.94	-0.02
5/21/2007	10:07:30	382.5	61.94	-0.02
5/21/2007	10:07:31	383	61.94	-0.022
5/21/2007	10:07:31	383.5	61.94	-0.022
5/21/2007	10:07:32	384	61.94	-0.02
5/21/2007	10:07:32	384.5	61.94	-0.022
5/21/2007	10:07:33	385	61.94	-0.02
5/21/2007	10:07:33	385.5	61.94	-0.02
5/21/2007	10:07:34	386	61.94	-0.02
5/21/2007	10:07:34	386.5	61.94	-0.02
5/21/2007	10:07:35	387	61.94	-0.02
5/21/2007	10:07:35	387.5	61.94	-0.02
5/21/2007	10:07:36	388	61.94	-0.02
5/21/2007	10:07:36	388.5	61.94	-0.02
5/21/2007	10:07:37	389	61.94	-0.02
5/21/2007	10:07:37	389.5	61.94	-0.022
5/21/2007	10:07:38	390	61.94	-0.02
5/21/2007	10:07:38	390.5	61.94	-0.02
5/21/2007	10:07:39	391	61.94	-0.022
5/21/2007	10:07:39	391.5	61.94	-0.02
5/21/2007	10:07:40	392	61.94	-0.02
5/21/2007	10:07:40	392.5	61.94	-0.02
5/21/2007	10:07:41	393	61.94	-0.02
5/21/2007	10:07:41	393.5	61.94	-0.02
5/21/2007	10:07:42	394	61.94	-0.02
5/21/2007	10:07:42	394.5	61.94	-0.02

5/21/2007	10:07:43	395	61.94	-0.02
5/21/2007	10:07:43	395.5	61.94	-0.02
5/21/2007	10:07:44	396	61.94	-0.02
5/21/2007	10:07:44	396.5	61.94	-0.02
5/21/2007	10:07:45	397	61.94	-0.02
5/21/2007	10:07:45	397.5	61.94	-0.02
5/21/2007	10:07:46	398	61.94	-0.02
5/21/2007	10:07:46	398.5	61.94	-0.022
5/21/2007	10:07:47	399	61.94	-0.02
5/21/2007	10:07:47	399.5	61.94	-0.02
5/21/2007	10:07:48	400	61.94	-0.02
5/21/2007	10:07:48	400.5	61.94	-0.018
5/21/2007	10:07:49	401	61.94	-0.02
5/21/2007	10:07:49	401.5	61.94	-0.02
5/21/2007	10:07:50	402	61.94	-0.02
5/21/2007	10:07:50	402.5	61.94	-0.02
5/21/2007	10:07:51	403	61.94	-0.02
5/21/2007	10:07:51	403.5	61.94	-0.022
5/21/2007	10:07:52	404	61.94	-0.02
5/21/2007	10:07:52	404.5	61.94	-0.02
5/21/2007	10:07:53	405	61.94	-0.02
5/21/2007	10:07:53	405.5	61.94	-0.02
5/21/2007	10:07:54	406	61.94	-0.02
5/21/2007	10:07:54	406.5	61.94	-0.02
5/21/2007	10:07:55	407	61.94	-0.02
5/21/2007	10:07:55	407.5	61.94	-0.02
5/21/2007	10:07:56	408	61.94	-0.02
5/21/2007	10:07:56	408.5	61.94	-0.02
5/21/2007	10:07:57	409	61.94	-0.02
5/21/2007	10:07:57	409.5	61.94	-0.02
5/21/2007	10:07:58	410	61.94	-0.02
5/21/2007	10:07:58	410.5	61.94	-0.02
5/21/2007	10:07:59	411	61.94	-0.022
5/21/2007	10:07:59	411.5	61.94	-0.02
5/21/2007	10:08:00	412	61.94	-0.02
5/21/2007	10:08:00	412.5	61.94	-0.02
5/21/2007	10:08:01	413	61.94	-0.022
5/21/2007	10:08:01	413.5	61.94	-0.022
5/21/2007	10:08:02	414	61.94	-0.022
5/21/2007	10:08:02	414.5	61.94	-0.02
5/21/2007	10:08:03	415	61.94	-0.02
5/21/2007	10:08:03	415.5	61.94	-0.022
5/21/2007	10:08:04	416	61.94	-0.02
5/21/2007	10:08:04	416.5	61.94	-0.02
5/21/2007	10:08:05	417	61.94	-0.02
5/21/2007	10:08:05	417.5	61.94	-0.02
5/21/2007	10:08:06	418	61.94	-0.022
5/21/2007	10:08:06	418.5	61.94	-0.02
5/21/2007	10:08:07	419	61.94	-0.02
5/21/2007	10:08:07	419.5	61.94	-0.02
5/21/2007	10:08:08	420	61.94	-0.02
5/21/2007	10:08:08	420.5	61.94	-0.022

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5/21/2007	10:08:09	421.5	61.94	-0.02
5/21/2007	10:08:10	422	61.94	-0.02
5/21/2007	10:08:10	422.5	61.94	-0.02
5/21/2007	10:08:11	423	61.94	-0.022
5/21/2007	10:08:11	423.5	61.94	-0.022
5/21/2007	10:08:12	424	61.94	-0.02
5/21/2007	10:08:12	424.5	61.94	-0.02
5/21/2007	10:08:13	425	61.94	-0.02
5/21/2007	10:08:13	425.5	61.94	-0.02
5/21/2007	10:08:14	426	61.94	-0.02
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5/21/2007	10:08:15	427.5	61.94	-0.02
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5/21/2007	10:08:17	429	61.94	-0.02
5/21/2007	10:08:17	429.5	61.94	-0.02
5/21/2007	10:08:18	430	61.94	-0.02
5/21/2007	10:08:18	430.5	61.94	-0.02
5/21/2007	10:08:19	431	61.94	-0.022
5/21/2007	10:08:19	431.5	61.94	-0.02
5/21/2007	10:08:20	432	61.94	-0.02
5/21/2007	10:08:20	432.5	61.94	-0.02
5/21/2007	10:08:21	433	61.94	-0.022
5/21/2007	10:08:21	433.5	61.94	-0.02
5/21/2007	10:08:22	434	61.94	-0.02
5/21/2007	10:08:22	434.5	61.94	-0.02
5/21/2007	10:08:23	435	61.94	-0.02
5/21/2007	10:08:23	435.5	61.94	-0.02
5/21/2007	10:08:24	436	61.94	-0.02
5/21/2007	10:08:24	436.5	61.94	-0.02
5/21/2007	10:08:25	437	61.94	-0.02
5/21/2007	10:08:25	437.5	61.94	-0.02
5/21/2007	10:08:26	438	61.94	-0.02
5/21/2007	10:08:26	438.5	61.94	-0.02
5/21/2007	10:08:27	439	61.94	-0.02
5/21/2007	10:08:27	439.5	61.94	-0.02
5/21/2007	10:08:28	440	61.94	-0.02
5/21/2007	10:08:28	440.5	61.94	-0.02
5/21/2007	10:08:29	441	61.94	-0.02
5/21/2007	10:08:29	441.5	61.94	-0.02
5/21/2007	10:08:30	442	61.94	-0.02
5/21/2007	10:08:30	442.5	61.94	-0.02
5/21/2007	10:08:31	443	61.94	-0.02
5/21/2007	10:08:31	443.5	61.94	-0.022
5/21/2007	10:08:32	444	61.94	-0.02
5/21/2007	10:08:32	444.5	61.94	-0.02
5/21/2007	10:08:33	445	61.94	-0.02
5/21/2007	10:08:33	445.5	61.94	-0.02
5/21/2007	10:08:34	446	61.94	-0.02
5/21/2007	10:08:34	446.5	61.94	-0.02

5/21/2007	10:08:35	447	61.94	-0.02
5/21/2007	10:08:35	447.5	61.94	-0.02
5/21/2007	10:08:36	448	61.94	-0.02
5/21/2007	10:08:36	448.5	61.94	-0.02
5/21/2007	10:08:37	449	61.94	-0.02
5/21/2007	10:08:37	449.5	61.94	-0.02
5/21/2007	10:08:38	450	61.94	-0.02
5/21/2007	10:08:38	450.5	61.94	-0.02
5/21/2007	10:08:39	451	61.94	-0.02
5/21/2007	10:08:39	451.5	61.94	-0.02
5/21/2007	10:08:40	452	61.94	-0.02
5/21/2007	10:08:40	452.5	61.94	-0.02
5/21/2007	10:08:41	453	61.94	-0.02
5/21/2007	10:08:41	453.5	61.94	-0.02
5/21/2007	10:08:42	454	61.94	-0.02
5/21/2007	10:08:42	454.5	61.94	-0.02
5/21/2007	10:08:43	455	61.94	-0.02
5/21/2007	10:08:43	455.5	61.94	-0.02
5/21/2007	10:08:44	456	61.94	-0.02
5/21/2007	10:08:44	456.5	61.94	-0.02
5/21/2007	10:08:45	457	61.94	-0.02
5/21/2007	10:08:45	457.5	61.94	-0.02
5/21/2007	10:08:46	458	61.94	-0.02
5/21/2007	10:08:46	458.5	61.94	-0.02
5/21/2007	10:08:47	459	61.94	-0.02
5/21/2007	10:08:47	459.5	61.94	-0.02

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:44:40
Report from file: ...\\SN12694 2007-05-21 101940 Test #8.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #8

Test defined on: 5/21/2007 10:18:54
Test started on: 5/21/2007 10:19:40
Test stopped on: 5/21/2007 10:31:12

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 1383

TOTAL DATA SAMPLES 1383

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 8.31 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/21/2007	10:19:40	0	61.6	0
5/21/2007	10:19:41	0.5	61.62	-0.011
5/21/2007	10:19:41	1	61.64	-0.014
5/21/2007	10:19:42	1.5	61.64	-0.014
5/21/2007	10:19:42	2	61.66	-0.014
5/21/2007	10:19:43	2.5	61.66	-0.016
5/21/2007	10:19:43	3	61.66	-0.016
5/21/2007	10:19:44	3.5	61.66	-0.018
5/21/2007	10:19:44	4	61.66	-0.016
5/21/2007	10:19:45	4.5	61.66	-0.018

5/21/2007	10:19:45	5	61.69	-0.017
5/21/2007	10:19:46	5.5	61.69	-0.017
5/21/2007	10:19:46	6	61.69	-0.017
5/21/2007	10:19:47	6.5	61.69	-0.017
5/21/2007	10:19:47	7	61.69	-0.017
5/21/2007	10:19:48	7.5	61.69	-0.017
5/21/2007	10:19:48	8	61.69	-0.017
5/21/2007	10:19:49	8.5	61.69	-0.017
5/21/2007	10:19:49	9	61.69	-0.017
5/21/2007	10:19:50	9.5	61.69	-0.017
5/21/2007	10:19:50	10	61.69	-0.017
5/21/2007	10:19:51	10.5	61.69	-0.017
5/21/2007	10:19:51	11	61.71	-0.016
5/21/2007	10:19:52	11.5	61.71	-0.016
5/21/2007	10:19:52	12	61.69	-0.017
5/21/2007	10:19:53	12.5	61.71	-0.016
5/21/2007	10:19:53	13	61.71	-0.016
5/21/2007	10:19:54	13.5	61.71	-0.016
5/21/2007	10:19:54	14	61.71	-0.016
5/21/2007	10:19:55	14.5	61.71	-0.016
5/21/2007	10:19:55	15	61.71	-0.016
5/21/2007	10:19:56	15.5	61.71	-0.016
5/21/2007	10:19:56	16	61.71	-0.016
5/21/2007	10:19:57	16.5	61.71	-0.016
5/21/2007	10:19:57	17	61.71	-0.016
5/21/2007	10:19:58	17.5	61.71	-0.016
5/21/2007	10:19:58	18	61.71	-0.018
5/21/2007	10:19:59	18.5	61.71	-0.018
5/21/2007	10:19:59	19	61.71	-0.016
5/21/2007	10:20:00	19.5	61.71	-0.016
5/21/2007	10:20:00	20	61.71	-0.018
5/21/2007	10:20:01	20.5	61.71	-0.016
5/21/2007	10:20:01	21	61.73	-0.016
5/21/2007	10:20:02	21.5	61.71	-0.016
5/21/2007	10:20:02	22	61.73	-0.016
5/21/2007	10:20:03	22.5	61.73	-0.016
5/21/2007	10:20:03	23	61.71	-0.018
5/21/2007	10:20:04	23.5	61.73	-0.018
5/21/2007	10:20:04	24	61.73	-0.016
5/21/2007	10:20:05	24.5	61.73	-0.016
5/21/2007	10:20:05	25	61.73	-0.018
5/21/2007	10:20:06	25.5	61.73	-0.018
5/21/2007	10:20:06	26	61.73	-0.018
5/21/2007	10:20:07	26.5	61.73	-0.018
5/21/2007	10:20:07	27	61.73	-0.018
5/21/2007	10:20:08	27.5	61.73	-0.018
5/21/2007	10:20:08	28	61.73	-0.018
5/21/2007	10:20:09	28.5	61.73	-0.018
5/21/2007	10:20:09	29	61.73	-0.018
5/21/2007	10:20:10	29.5	61.73	-0.018
5/21/2007	10:20:10	30	61.73	-0.018
5/21/2007	10:20:11	30.5	61.73	-0.016

5/21/2007	10:20:11	31	61.73	-0.016
5/21/2007	10:20:12	31.5	61.73	-0.018
5/21/2007	10:20:12	32	61.76	-0.017
5/21/2007	10:20:13	32.5	61.76	-0.017
5/21/2007	10:20:13	33	61.76	-0.017
5/21/2007	10:20:14	33.5	61.76	-0.017
5/21/2007	10:20:14	34	61.76	-0.015
5/21/2007	10:20:15	34.5	61.76	-0.017
5/21/2007	10:20:15	35	61.76	-0.017
5/21/2007	10:20:16	35.5	61.76	-0.017
5/21/2007	10:20:16	36	61.76	-0.017
5/21/2007	10:20:17	36.5	61.76	-0.017
5/21/2007	10:20:17	37	61.76	-0.017
5/21/2007	10:20:18	37.5	61.76	-0.017
5/21/2007	10:20:18	38	61.76	-0.017
5/21/2007	10:20:19	38.5	61.76	-0.017
5/21/2007	10:20:19	39	61.76	-0.017
5/21/2007	10:20:20	39.5	61.76	-0.017
5/21/2007	10:20:20	40	61.76	-0.017
5/21/2007	10:20:21	40.5	61.76	-0.017
5/21/2007	10:20:21	41	61.76	-0.017
5/21/2007	10:20:22	41.5	61.76	-0.017
5/21/2007	10:20:22	42	61.76	-0.017
5/21/2007	10:20:23	42.5	61.76	-0.017
5/21/2007	10:20:23	43	61.76	-0.019
5/21/2007	10:20:24	43.5	61.76	-0.019
5/21/2007	10:20:24	44	61.76	-0.017
5/21/2007	10:20:25	44.5	61.76	-0.017
5/21/2007	10:20:25	45	61.76	-0.017
5/21/2007	10:20:26	45.5	61.76	-0.017
5/21/2007	10:20:26	46	61.76	-0.017
5/21/2007	10:20:27	46.5	61.78	-0.017
5/21/2007	10:20:27	47	61.78	-0.017
5/21/2007	10:20:28	47.5	61.78	-0.017
5/21/2007	10:20:28	48	61.78	-0.017
5/21/2007	10:20:29	48.5	61.78	-0.017
5/21/2007	10:20:29	49	61.78	-0.017
5/21/2007	10:20:30	49.5	61.78	-0.017
5/21/2007	10:20:30	50	61.78	-0.017
5/21/2007	10:20:31	50.5	61.78	-0.017
5/21/2007	10:20:31	51	61.78	-0.017
5/21/2007	10:20:32	51.5	61.78	-0.017
5/21/2007	10:20:32	52	61.78	-0.017
5/21/2007	10:20:33	52.5	61.78	-0.017
5/21/2007	10:20:33	53	61.78	-0.017
5/21/2007	10:20:34	53.5	61.78	-0.019
5/21/2007	10:20:34	54	61.78	-0.019
5/21/2007	10:20:35	54.5	61.78	-0.017
5/21/2007	10:20:35	55	61.78	-0.017
5/21/2007	10:20:36	55.5	61.78	-0.017
5/21/2007	10:20:36	56	61.78	-0.017
5/21/2007	10:20:37	56.5	61.78	-0.019

5/21/2007	10:20:37	57	61.78	-0.017
5/21/2007	10:20:38	57.5	61.78	-0.017
5/21/2007	10:20:38	58	61.78	-0.017
5/21/2007	10:20:39	58.5	61.78	-0.017
5/21/2007	10:20:39	59	61.78	-0.017
5/21/2007	10:20:40	59.5	61.78	-0.017
5/21/2007	10:20:40	60	61.78	-0.017
5/21/2007	10:20:41	60.5	61.78	-0.017
5/21/2007	10:20:41	61	61.78	-0.017
5/21/2007	10:20:42	61.5	61.78	-0.017
5/21/2007	10:20:42	62	61.78	-0.017
5/21/2007	10:20:43	62.5	61.78	-0.017
5/21/2007	10:20:43	63	61.78	-0.017
5/21/2007	10:20:44	63.5	61.78	-0.017
5/21/2007	10:20:44	64	61.78	-0.017
5/21/2007	10:20:45	64.5	61.78	-0.019
5/21/2007	10:20:45	65	61.78	-0.019
5/21/2007	10:20:46	65.5	61.78	-0.017
5/21/2007	10:20:46	66	61.78	-0.019
5/21/2007	10:20:47	66.5	61.78	-0.017
5/21/2007	10:20:47	67	61.8	-0.018
5/21/2007	10:20:48	67.5	61.78	-0.022
5/21/2007	10:20:48	68	61.78	-0.024
5/21/2007	10:20:49	68.5	61.8	-0.187
5/21/2007	10:20:49	69	61.8	-0.396
5/21/2007	10:20:50	69.5	61.8	-0.459
5/21/2007	10:20:50	70	61.8	-0.474
5/21/2007	10:20:51	70.5	61.8	-0.448
5/21/2007	10:20:51	71	61.8	-0.517
5/21/2007	10:20:52	71.5	61.8	-0.49
5/21/2007	10:20:52	72	61.8	-0.417
5/21/2007	10:20:53	72.5	61.8	-0.164
5/21/2007	10:20:53	73	61.8	0.034
5/21/2007	10:20:54	73.5	61.8	-0.085
5/21/2007	10:20:54	74	61.8	-0.089
5/21/2007	10:20:55	74.5	61.8	-0.085
5/21/2007	10:20:55	75	61.8	-0.081
5/21/2007	10:20:56	75.5	61.8	-0.079
5/21/2007	10:20:56	76	61.8	-0.076
5/21/2007	10:20:57	76.5	61.8	-0.072
5/21/2007	10:20:57	77	61.8	-0.07
5/21/2007	10:20:58	77.5	61.8	-0.068
5/21/2007	10:20:58	78	61.8	-0.064
5/21/2007	10:20:59	78.5	61.8	-0.062
5/21/2007	10:20:59	79	61.8	-0.06
5/21/2007	10:21:00	79.5	61.8	-0.058
5/21/2007	10:21:00	80	61.8	-0.056
5/21/2007	10:21:01	80.5	61.8	-0.055
5/21/2007	10:21:01	81	61.8	-0.053
5/21/2007	10:21:02	81.5	61.8	-0.053
5/21/2007	10:21:02	82	61.8	-0.051
5/21/2007	10:21:03	82.5	61.8	-0.051

5/21/2007	10:21:03	83	61.8	-0.049
5/21/2007	10:21:04	83.5	61.8	-0.047
5/21/2007	10:21:04	84	61.8	-0.047
5/21/2007	10:21:05	84.5	61.8	-0.047
5/21/2007	10:21:05	85	61.8	-0.045
5/21/2007	10:21:06	85.5	61.8	-0.045
5/21/2007	10:21:06	86	61.8	-0.043
5/21/2007	10:21:07	86.5	61.8	-0.043
5/21/2007	10:21:07	87	61.8	-0.043
5/21/2007	10:21:08	87.5	61.8	-0.041
5/21/2007	10:21:08	88	61.8	-0.041
5/21/2007	10:21:09	88.5	61.8	-0.041
5/21/2007	10:21:09	89	61.8	-0.039
5/21/2007	10:21:10	89.5	61.8	-0.039
5/21/2007	10:21:10	90	61.8	-0.039
5/21/2007	10:21:11	90.5	61.8	-0.039
5/21/2007	10:21:11	91	61.8	-0.037
5/21/2007	10:21:12	91.5	61.8	-0.037
5/21/2007	10:21:12	92	61.8	-0.037
5/21/2007	10:21:13	92.5	61.8	-0.037
5/21/2007	10:21:13	93	61.8	-0.037
5/21/2007	10:21:14	93.5	61.8	-0.035
5/21/2007	10:21:14	94	61.8	-0.035
5/21/2007	10:21:15	94.5	61.82	-0.035
5/21/2007	10:21:15	95	61.8	-0.033
5/21/2007	10:21:16	95.5	61.8	-0.035
5/21/2007	10:21:16	96	61.8	-0.033
5/21/2007	10:21:17	96.5	61.8	-0.033
5/21/2007	10:21:17	97	61.8	-0.033
5/21/2007	10:21:18	97.5	61.82	-0.033
5/21/2007	10:21:18	98	61.8	-0.033
5/21/2007	10:21:19	98.5	61.82	-0.031
5/21/2007	10:21:19	99	61.8	-0.031
5/21/2007	10:21:20	99.5	61.8	-0.033
5/21/2007	10:21:20	100	61.8	-0.031
5/21/2007	10:21:21	100.5	61.82	-0.031
5/21/2007	10:21:21	101	61.82	-0.031
5/21/2007	10:21:22	101.5	61.8	-0.031
5/21/2007	10:21:22	102	61.82	-0.031
5/21/2007	10:21:23	102.5	61.8	-0.031
5/21/2007	10:21:23	103	61.82	-0.031
5/21/2007	10:21:24	103.5	61.82	-0.031
5/21/2007	10:21:24	104	61.82	-0.029
5/21/2007	10:21:25	104.5	61.82	-0.029
5/21/2007	10:21:25	105	61.82	-0.029
5/21/2007	10:21:26	105.5	61.82	-0.029
5/21/2007	10:21:26	106	61.82	-0.029
5/21/2007	10:21:27	106.5	61.82	-0.029
5/21/2007	10:21:27	107	61.82	-0.029
5/21/2007	10:21:28	107.5	61.82	-0.029
5/21/2007	10:21:28	108	61.82	-0.027
5/21/2007	10:21:29	108.5	61.82	-0.029

5/21/2007	10:21:29	109	61.82	-0.029
5/21/2007	10:21:30	109.5	61.82	-0.027
5/21/2007	10:21:30	110	61.82	-0.027
5/21/2007	10:21:31	110.5	61.82	-0.027
5/21/2007	10:21:31	111	61.82	-0.027
5/21/2007	10:21:32	111.5	61.82	-0.025
5/21/2007	10:21:32	112	61.82	-0.027
5/21/2007	10:21:33	112.5	61.82	-0.027
5/21/2007	10:21:33	113	61.82	-0.027
5/21/2007	10:21:34	113.5	61.82	-0.025
5/21/2007	10:21:34	114	61.82	-0.025
5/21/2007	10:21:35	114.5	61.82	-0.027
5/21/2007	10:21:35	115	61.82	-0.025
5/21/2007	10:21:36	115.5	61.82	-0.025
5/21/2007	10:21:36	116	61.82	-0.025
5/21/2007	10:21:37	116.5	61.82	-0.025
5/21/2007	10:21:37	117	61.82	-0.025
5/21/2007	10:21:38	117.5	61.82	-0.025
5/21/2007	10:21:38	118	61.82	-0.025
5/21/2007	10:21:39	118.5	61.82	-0.025
5/21/2007	10:21:39	119	61.82	-0.025
5/21/2007	10:21:40	119.5	61.82	-0.025
5/21/2007	10:21:40	120	61.82	-0.025
5/21/2007	10:21:41	120.5	61.82	-0.025
5/21/2007	10:21:41	121	61.82	-0.025
5/21/2007	10:21:42	121.5	61.82	-0.025
5/21/2007	10:21:42	122	61.82	-0.025
5/21/2007	10:21:43	122.5	61.82	-0.025
5/21/2007	10:21:43	123	61.82	-0.025
5/21/2007	10:21:44	123.5	61.82	-0.025
5/21/2007	10:21:44	124	61.82	-0.025
5/21/2007	10:21:45	124.5	61.82	-0.023
5/21/2007	10:21:45	125	61.82	-0.025
5/21/2007	10:21:46	125.5	61.82	-0.025
5/21/2007	10:21:46	126	61.82	-0.023
5/21/2007	10:21:47	126.5	61.82	-0.023
5/21/2007	10:21:47	127	61.82	-0.023
5/21/2007	10:21:48	127.5	61.82	-0.023
5/21/2007	10:21:48	128	61.82	-0.023
5/21/2007	10:21:49	128.5	61.82	-0.023
5/21/2007	10:21:49	129	61.82	-0.023
5/21/2007	10:21:50	129.5	61.82	-0.025
5/21/2007	10:21:50	130	61.82	-0.023
5/21/2007	10:21:51	130.5	61.82	-0.023
5/21/2007	10:21:51	131	61.85	-0.023
5/21/2007	10:21:52	131.5	61.82	-0.023
5/21/2007	10:21:52	132	61.82	-0.023
5/21/2007	10:21:53	132.5	61.85	-0.023
5/21/2007	10:21:53	133	61.82	-0.023
5/21/2007	10:21:54	133.5	61.85	-0.023
5/21/2007	10:21:54	134	61.82	-0.023
5/21/2007	10:21:55	134.5	61.85	-0.023

5/21/2007	10:21:55	135	61.85	-0.023
5/21/2007	10:21:56	135.5	61.85	-0.023
5/21/2007	10:21:56	136	61.85	-0.023
5/21/2007	10:21:57	136.5	61.85	-0.023
5/21/2007	10:21:57	137	61.85	-0.023
5/21/2007	10:21:58	137.5	61.85	-0.023
5/21/2007	10:21:58	138	61.85	-0.023
5/21/2007	10:21:59	138.5	61.85	-0.021
5/21/2007	10:21:59	139	61.85	-0.023
5/21/2007	10:22:00	139.5	61.85	-0.023
5/21/2007	10:22:00	140	61.85	-0.023
5/21/2007	10:22:01	140.5	61.85	-0.021
5/21/2007	10:22:01	141	61.85	-0.023
5/21/2007	10:22:02	141.5	61.85	-0.023
5/21/2007	10:22:02	142	61.85	-0.023
5/21/2007	10:22:03	142.5	61.85	-0.023
5/21/2007	10:22:03	143	61.85	-0.023
5/21/2007	10:22:04	143.5	61.85	-0.021
5/21/2007	10:22:04	144	61.85	-0.023
5/21/2007	10:22:05	144.5	61.85	-0.023
5/21/2007	10:22:05	145	61.85	-0.021
5/21/2007	10:22:06	145.5	61.85	-0.023
5/21/2007	10:22:06	146	61.85	-0.023
5/21/2007	10:22:07	146.5	61.85	-0.021
5/21/2007	10:22:07	147	61.85	-0.021
5/21/2007	10:22:08	147.5	61.85	-0.021
5/21/2007	10:22:08	148	61.85	-0.023
5/21/2007	10:22:09	148.5	61.85	-0.021
5/21/2007	10:22:09	149	61.85	-0.021
5/21/2007	10:22:10	149.5	61.85	-0.023
5/21/2007	10:22:10	150	61.85	-0.023
5/21/2007	10:22:11	150.5	61.85	-0.021
5/21/2007	10:22:11	151	61.85	-0.023
5/21/2007	10:22:12	151.5	61.85	-0.021
5/21/2007	10:22:12	152	61.85	-0.021
5/21/2007	10:22:13	152.5	61.85	-0.021
5/21/2007	10:22:13	153	61.85	-0.021
5/21/2007	10:22:14	153.5	61.85	-0.021
5/21/2007	10:22:14	154	61.85	-0.021
5/21/2007	10:22:15	154.5	61.85	-0.021
5/21/2007	10:22:15	155	61.85	-0.021
5/21/2007	10:22:16	155.5	61.87	-0.02
5/21/2007	10:22:16	156	61.85	-0.023
5/21/2007	10:22:17	156.5	61.85	-0.021
5/21/2007	10:22:17	157	61.85	-0.021
5/21/2007	10:22:18	157.5	61.85	-0.021
5/21/2007	10:22:18	158	61.87	-0.02
5/21/2007	10:22:19	158.5	61.85	-0.021
5/21/2007	10:22:19	159	61.85	-0.021
5/21/2007	10:22:20	159.5	61.85	-0.021
5/21/2007	10:22:20	160	61.85	-0.021
5/21/2007	10:22:21	160.5	61.87	-0.02

5/21/2007	10:22:21	161	61.87	-0.02
5/21/2007	10:22:22	161.5	61.87	-0.02
5/21/2007	10:22:22	162	61.85	-0.021
5/21/2007	10:22:23	162.5	61.87	-0.02
5/21/2007	10:22:23	163	61.85	-0.021
5/21/2007	10:22:24	163.5	61.87	-0.02
5/21/2007	10:22:24	164	61.87	-0.02
5/21/2007	10:22:25	164.5	61.87	-0.02
5/21/2007	10:22:25	165	61.87	-0.02
5/21/2007	10:22:26	165.5	61.87	-0.02
5/21/2007	10:22:26	166	61.87	-0.02
5/21/2007	10:22:27	166.5	61.87	-0.02
5/21/2007	10:22:27	167	61.87	-0.02
5/21/2007	10:22:28	167.5	61.87	-0.02
5/21/2007	10:22:28	168	61.87	-0.02
5/21/2007	10:22:29	168.5	61.87	-0.02
5/21/2007	10:22:29	169	61.87	-0.02
5/21/2007	10:22:30	169.5	61.87	-0.02
5/21/2007	10:22:30	170	61.87	-0.02
5/21/2007	10:22:31	170.5	61.87	-0.02
5/21/2007	10:22:31	171	61.87	-0.018
5/21/2007	10:22:32	171.5	61.87	-0.018
5/21/2007	10:22:32	172	61.87	-0.02
5/21/2007	10:22:33	172.5	61.87	-0.02
5/21/2007	10:22:33	173	61.87	-0.02
5/21/2007	10:22:34	173.5	61.87	-0.018
5/21/2007	10:22:34	174	61.87	-0.02
5/21/2007	10:22:35	174.5	61.87	-0.02
5/21/2007	10:22:35	175	61.87	-0.02
5/21/2007	10:22:36	175.5	61.87	-0.02
5/21/2007	10:22:36	176	61.87	-0.018
5/21/2007	10:22:37	176.5	61.87	-0.02
5/21/2007	10:22:37	177	61.87	-0.02
5/21/2007	10:22:38	177.5	61.87	-0.02
5/21/2007	10:22:38	178	61.87	-0.02
5/21/2007	10:22:39	178.5	61.87	-0.018
5/21/2007	10:22:39	179	61.87	-0.02
5/21/2007	10:22:40	179.5	61.87	-0.02
5/21/2007	10:22:40	180	61.87	-0.02
5/21/2007	10:22:41	180.5	61.87	-0.02
5/21/2007	10:22:41	181	61.87	-0.02
5/21/2007	10:22:42	181.5	61.87	-0.018
5/21/2007	10:22:42	182	61.87	-0.02
5/21/2007	10:22:43	182.5	61.87	-0.018
5/21/2007	10:22:43	183	61.87	-0.02
5/21/2007	10:22:44	183.5	61.87	-0.02
5/21/2007	10:22:44	184	61.87	-0.02
5/21/2007	10:22:45	184.5	61.87	-0.02
5/21/2007	10:22:45	185	61.87	-0.02
5/21/2007	10:22:46	185.5	61.87	-0.02
5/21/2007	10:22:46	186	61.87	-0.018
5/21/2007	10:22:47	186.5	61.87	-0.018

5/21/2007	10:22:47	187	61.87	-0.02
5/21/2007	10:22:48	187.5	61.87	-0.02
5/21/2007	10:22:48	188	61.87	-0.02
5/21/2007	10:22:49	188.5	61.87	-0.02
5/21/2007	10:22:49	189	61.87	-0.02
5/21/2007	10:22:50	189.5	61.87	-0.018
5/21/2007	10:22:50	190	61.87	-0.018
5/21/2007	10:22:51	190.5	61.87	-0.02
5/21/2007	10:22:51	191	61.87	-0.018
5/21/2007	10:22:52	191.5	61.87	-0.018
5/21/2007	10:22:52	192	61.87	-0.02
5/21/2007	10:22:53	192.5	61.87	-0.02
5/21/2007	10:22:53	193	61.87	-0.02
5/21/2007	10:22:54	193.5	61.87	-0.02
5/21/2007	10:22:54	194	61.87	-0.02
5/21/2007	10:22:55	194.5	61.89	-0.02
5/21/2007	10:22:55	195	61.87	-0.018
5/21/2007	10:22:56	195.5	61.89	-0.02
5/21/2007	10:22:56	196	61.89	-0.018
5/21/2007	10:22:57	196.5	61.87	-0.02
5/21/2007	10:22:57	197	61.87	-0.02
5/21/2007	10:22:58	197.5	61.87	-0.018
5/21/2007	10:22:58	198	61.87	-0.02
5/21/2007	10:22:59	198.5	61.89	-0.02
5/21/2007	10:22:59	199	61.89	-0.02
5/21/2007	10:23:00	199.5	61.87	-0.02
5/21/2007	10:23:00	200	61.89	-0.018
5/21/2007	10:23:01	200.5	61.89	-0.02
5/21/2007	10:23:01	201	61.87	-0.018
5/21/2007	10:23:02	201.5	61.87	-0.018
5/21/2007	10:23:02	202	61.89	-0.018
5/21/2007	10:23:03	202.5	61.89	-0.02
5/21/2007	10:23:03	203	61.89	-0.018
5/21/2007	10:23:04	203.5	61.87	-0.018
5/21/2007	10:23:04	204	61.89	-0.02
5/21/2007	10:23:05	204.5	61.87	-0.018
5/21/2007	10:23:05	205	61.89	-0.02
5/21/2007	10:23:06	205.5	61.89	-0.02
5/21/2007	10:23:06	206	61.87	-0.02
5/21/2007	10:23:07	206.5	61.89	-0.02
5/21/2007	10:23:07	207	61.89	-0.02
5/21/2007	10:23:08	207.5	61.89	-0.02
5/21/2007	10:23:08	208	61.89	-0.018
5/21/2007	10:23:09	208.5	61.89	-0.018
5/21/2007	10:23:09	209	61.89	-0.02
5/21/2007	10:23:10	209.5	61.89	-0.02
5/21/2007	10:23:10	210	61.89	-0.02
5/21/2007	10:23:11	210.5	61.89	-0.02
5/21/2007	10:23:11	211	61.89	-0.02
5/21/2007	10:23:12	211.5	61.89	-0.02
5/21/2007	10:23:12	212	61.89	-0.02
5/21/2007	10:23:13	212.5	61.89	-0.02

5/21/2007	10:23:13	213	61.89	-0.022
5/21/2007	10:23:14	213.5	61.89	-0.022
5/21/2007	10:23:14	214	61.89	-0.022
5/21/2007	10:23:15	214.5	61.89	-0.024
5/21/2007	10:23:15	215	61.89	-0.024
5/21/2007	10:23:16	215.5	61.89	-0.024
5/21/2007	10:23:16	216	61.89	-0.024
5/21/2007	10:23:17	216.5	61.89	-0.022
5/21/2007	10:23:17	217	61.89	-0.024
5/21/2007	10:23:18	217.5	61.89	-0.024
5/21/2007	10:23:18	218	61.89	-0.031
5/21/2007	10:23:19	218.5	61.89	-0.031
5/21/2007	10:23:19	219	61.89	-0.033
5/21/2007	10:23:20	219.5	61.89	-0.033
5/21/2007	10:23:20	220	61.89	-0.031
5/21/2007	10:23:21	220.5	61.89	-0.031
5/21/2007	10:23:21	221	61.89	-0.031
5/21/2007	10:23:22	221.5	61.89	-0.031
5/21/2007	10:23:22	222	61.89	-0.031
5/21/2007	10:23:23	222.5	61.89	-0.031
5/21/2007	10:23:23	223	61.89	-0.031
5/21/2007	10:23:24	223.5	61.89	-0.033
5/21/2007	10:23:24	224	61.89	-0.033
5/21/2007	10:23:25	224.5	61.89	-0.035
5/21/2007	10:23:25	225	61.89	-0.035
5/21/2007	10:23:26	225.5	61.89	-0.035
5/21/2007	10:23:26	226	61.89	-0.033
5/21/2007	10:23:27	226.5	61.89	-0.033
5/21/2007	10:23:27	227	61.89	-0.031
5/21/2007	10:23:28	227.5	61.89	-0.031
5/21/2007	10:23:28	228	61.89	-0.031
5/21/2007	10:23:29	228.5	61.89	-0.029
5/21/2007	10:23:29	229	61.89	-0.029
5/21/2007	10:23:30	229.5	61.89	-0.027
5/21/2007	10:23:30	230	61.89	-0.027
5/21/2007	10:23:31	230.5	61.89	-0.027
5/21/2007	10:23:31	231	61.89	-0.027
5/21/2007	10:23:32	231.5	61.89	-0.025
5/21/2007	10:23:32	232	61.89	-0.025
5/21/2007	10:23:33	232.5	61.89	-0.025
5/21/2007	10:23:33	233	61.89	-0.025
5/21/2007	10:23:34	233.5	61.89	-0.025
5/21/2007	10:23:34	234	61.89	-0.025
5/21/2007	10:23:35	234.5	61.89	-0.025
5/21/2007	10:23:35	235	61.89	-0.025
5/21/2007	10:23:36	235.5	61.89	-0.024
5/21/2007	10:23:36	236	61.89	-0.024
5/21/2007	10:23:37	236.5	61.89	-0.024
5/21/2007	10:23:37	237	61.89	-0.024
5/21/2007	10:23:38	237.5	61.89	-0.024
5/21/2007	10:23:38	238	61.89	-0.024
5/21/2007	10:23:39	238.5	61.89	-0.024

5/21/2007	10:23:39	239	61.89	-0.024
5/21/2007	10:23:40	239.5	61.89	-0.022
5/21/2007	10:23:40	240	61.89	-0.024
5/21/2007	10:23:41	240.5	61.89	-0.022
5/21/2007	10:23:41	241	61.89	-0.022
5/21/2007	10:23:42	241.5	61.89	-0.022
5/21/2007	10:23:42	242	61.89	-0.022
5/21/2007	10:23:43	242.5	61.89	-0.022
5/21/2007	10:23:43	243	61.89	-0.022
5/21/2007	10:23:44	243.5	61.89	-0.024
5/21/2007	10:23:44	244	61.89	-0.022
5/21/2007	10:23:45	244.5	61.89	-0.022
5/21/2007	10:23:45	245	61.89	-0.022
5/21/2007	10:23:46	245.5	61.89	-0.022
5/21/2007	10:23:46	246	61.89	-0.022
5/21/2007	10:23:47	246.5	61.89	-0.022
5/21/2007	10:23:47	247	61.89	-0.022
5/21/2007	10:23:48	247.5	61.89	-0.022
5/21/2007	10:23:48	248	61.89	-0.02
5/21/2007	10:23:49	248.5	61.89	-0.022
5/21/2007	10:23:49	249	61.89	-0.02
5/21/2007	10:23:50	249.5	61.89	-0.02
5/21/2007	10:23:50	250	61.89	-0.02
5/21/2007	10:23:51	250.5	61.89	-0.02
5/21/2007	10:23:51	251	61.89	-0.022
5/21/2007	10:23:52	251.5	61.89	-0.02
5/21/2007	10:23:52	252	61.89	-0.022
5/21/2007	10:23:53	252.5	61.89	-0.02
5/21/2007	10:23:53	253	61.89	-0.02
5/21/2007	10:23:54	253.5	61.89	-0.02
5/21/2007	10:23:54	254	61.89	-0.02
5/21/2007	10:23:55	254.5	61.89	-0.02
5/21/2007	10:23:55	255	61.89	-0.02
5/21/2007	10:23:56	255.5	61.89	-0.02
5/21/2007	10:23:56	256	61.89	-0.02
5/21/2007	10:23:57	256.5	61.89	-0.02
5/21/2007	10:23:57	257	61.89	-0.02
5/21/2007	10:23:58	257.5	61.89	-0.02
5/21/2007	10:23:58	258	61.89	-0.02
5/21/2007	10:23:59	258.5	61.89	-0.02
5/21/2007	10:23:59	259	61.89	-0.02
5/21/2007	10:24:00	259.5	61.89	-0.02
5/21/2007	10:24:00	260	61.89	-0.02
5/21/2007	10:24:01	260.5	61.89	-0.02
5/21/2007	10:24:01	261	61.89	-0.02
5/21/2007	10:24:02	261.5	61.89	-0.02
5/21/2007	10:24:02	262	61.89	-0.02
5/21/2007	10:24:03	262.5	61.89	-0.02
5/21/2007	10:24:03	263	61.89	-0.02
5/21/2007	10:24:04	263.5	61.89	-0.02
5/21/2007	10:24:04	264	61.89	-0.018
5/21/2007	10:24:05	264.5	61.89	-0.02

5/21/2007	10:24:05	265	61.89	-0.02
5/21/2007	10:24:06	265.5	61.89	-0.02
5/21/2007	10:24:06	266	61.89	-0.02
5/21/2007	10:24:07	266.5	61.89	-0.02
5/21/2007	10:24:07	267	61.89	-0.02
5/21/2007	10:24:08	267.5	61.89	-0.02
5/21/2007	10:24:08	268	61.89	-0.018
5/21/2007	10:24:09	268.5	61.89	-0.02
5/21/2007	10:24:09	269	61.89	-0.02
5/21/2007	10:24:10	269.5	61.89	-0.02
5/21/2007	10:24:10	270	61.89	-0.02
5/21/2007	10:24:11	270.5	61.89	-0.018
5/21/2007	10:24:11	271	61.89	-0.018
5/21/2007	10:24:12	271.5	61.89	-0.02
5/21/2007	10:24:12	272	61.89	-0.018
5/21/2007	10:24:13	272.5	61.89	-0.02
5/21/2007	10:24:13	273	61.89	-0.018
5/21/2007	10:24:14	273.5	61.89	-0.018
5/21/2007	10:24:14	274	61.89	-0.018
5/21/2007	10:24:15	274.5	61.89	-0.02
5/21/2007	10:24:15	275	61.89	-0.018
5/21/2007	10:24:16	275.5	61.89	-0.018
5/21/2007	10:24:16	276	61.89	-0.02
5/21/2007	10:24:17	276.5	61.89	-0.02
5/21/2007	10:24:17	277	61.89	-0.018
5/21/2007	10:24:18	277.5	61.89	-0.018
5/21/2007	10:24:18	278	61.89	-0.018
5/21/2007	10:24:19	278.5	61.89	-0.02
5/21/2007	10:24:19	279	61.89	-0.018
5/21/2007	10:24:20	279.5	61.89	-0.018
5/21/2007	10:24:20	280	61.89	-0.018
5/21/2007	10:24:21	280.5	61.89	-0.018
5/21/2007	10:24:21	281	61.89	-0.02
5/21/2007	10:24:22	281.5	61.89	-0.018
5/21/2007	10:24:22	282	61.89	-0.018
5/21/2007	10:24:23	282.5	61.89	-0.018
5/21/2007	10:24:23	283	61.89	-0.018
5/21/2007	10:24:24	283.5	61.89	-0.018
5/21/2007	10:24:24	284	61.89	-0.018
5/21/2007	10:24:25	284.5	61.89	-0.018
5/21/2007	10:24:25	285	61.89	-0.018
5/21/2007	10:24:26	285.5	61.89	-0.018
5/21/2007	10:24:26	286	61.89	-0.018
5/21/2007	10:24:27	286.5	61.89	-0.018
5/21/2007	10:24:27	287	61.89	-0.018
5/21/2007	10:24:28	287.5	61.89	-0.018
5/21/2007	10:24:28	288	61.89	-0.018
5/21/2007	10:24:29	288.5	61.89	-0.018
5/21/2007	10:24:29	289	61.89	-0.02
5/21/2007	10:24:30	289.5	61.89	-0.018
5/21/2007	10:24:30	290	61.89	-0.018
5/21/2007	10:24:31	290.5	61.89	-0.018

5/21/2007	10:24:31	291	61.89	-0.018
5/21/2007	10:24:32	291.5	61.89	-0.018
5/21/2007	10:24:32	292	61.89	-0.018
5/21/2007	10:24:33	292.5	61.89	-0.018
5/21/2007	10:24:33	293	61.89	-0.018
5/21/2007	10:24:34	293.5	61.89	-0.018
5/21/2007	10:24:34	294	61.89	-0.018
5/21/2007	10:24:35	294.5	61.89	-0.016
5/21/2007	10:24:35	295	61.89	-0.018
5/21/2007	10:24:36	295.5	61.89	-0.018
5/21/2007	10:24:36	296	61.89	-0.02
5/21/2007	10:24:37	296.5	61.89	-0.018
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5/21/2007	10:26:34	413.5	61.91	0.403
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5/21/2007	10:26:35	414.5	61.91	0.297
5/21/2007	10:26:35	415	61.89	0.258
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5/21/2007	10:26:38	417.5	61.91	0.121
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5/21/2007	10:26:39	418.5	61.91	0.086
5/21/2007	10:26:39	419	61.91	0.073
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5/21/2007	10:30:03	623	62.05	-0.02
5/21/2007	10:30:04	623.5	62.05	-0.02
5/21/2007	10:30:04	624	62.05	-0.018
5/21/2007	10:30:05	624.5	62.05	-0.018
5/21/2007	10:30:05	625	62.05	-0.02
5/21/2007	10:30:06	625.5	62.05	-0.02
5/21/2007	10:30:06	626	62.05	-0.018
5/21/2007	10:30:07	626.5	62.05	-0.02
5/21/2007	10:30:07	627	62.05	-0.02
5/21/2007	10:30:08	627.5	62.05	-0.02
5/21/2007	10:30:08	628	62.05	-0.02
5/21/2007	10:30:09	628.5	62.07	-0.019

5/21/2007	10:30:09	629	62.05	-0.018
5/21/2007	10:30:10	629.5	62.05	-0.02
5/21/2007	10:30:10	630	62.05	-0.018
5/21/2007	10:30:11	630.5	62.05	-0.02
5/21/2007	10:30:11	631	62.05	-0.02
5/21/2007	10:30:12	631.5	62.07	-0.019
5/21/2007	10:30:12	632	62.07	-0.019
5/21/2007	10:30:13	632.5	62.07	-0.019
5/21/2007	10:30:13	633	62.07	-0.019
5/21/2007	10:30:14	633.5	62.07	-0.019
5/21/2007	10:30:14	634	62.07	-0.019
5/21/2007	10:30:15	634.5	62.07	-0.019
5/21/2007	10:30:15	635	62.07	-0.019
5/21/2007	10:30:16	635.5	62.05	-0.02
5/21/2007	10:30:16	636	62.07	-0.019
5/21/2007	10:30:17	636.5	62.05	-0.02
5/21/2007	10:30:17	637	62.07	-0.017
5/21/2007	10:30:18	637.5	62.07	-0.019
5/21/2007	10:30:18	638	62.07	-0.019
5/21/2007	10:30:19	638.5	62.07	-0.017
5/21/2007	10:30:19	639	62.07	-0.019
5/21/2007	10:30:20	639.5	62.07	-0.017
5/21/2007	10:30:20	640	62.07	-0.017
5/21/2007	10:30:21	640.5	62.07	-0.019
5/21/2007	10:30:21	641	62.07	-0.019
5/21/2007	10:30:22	641.5	62.07	-0.019
5/21/2007	10:30:22	642	62.07	-0.017
5/21/2007	10:30:23	642.5	62.07	-0.019
5/21/2007	10:30:23	643	62.07	-0.017
5/21/2007	10:30:24	643.5	62.07	-0.019
5/21/2007	10:30:24	644	62.07	-0.019
5/21/2007	10:30:25	644.5	62.07	-0.017
5/21/2007	10:30:25	645	62.07	-0.019
5/21/2007	10:30:26	645.5	62.07	-0.019
5/21/2007	10:30:26	646	62.07	-0.019
5/21/2007	10:30:27	646.5	62.07	-0.019
5/21/2007	10:30:27	647	62.07	-0.017
5/21/2007	10:30:28	647.5	62.07	-0.017
5/21/2007	10:30:28	648	62.07	-0.019
5/21/2007	10:30:29	648.5	62.07	-0.019
5/21/2007	10:30:29	649	62.07	-0.019
5/21/2007	10:30:30	649.5	62.07	-0.019
5/21/2007	10:30:30	650	62.07	-0.019
5/21/2007	10:30:31	650.5	62.07	-0.017
5/21/2007	10:30:31	651	62.07	-0.019
5/21/2007	10:30:32	651.5	62.07	-0.017
5/21/2007	10:30:32	652	62.07	-0.019
5/21/2007	10:30:33	652.5	62.07	-0.019
5/21/2007	10:30:33	653	62.07	-0.017
5/21/2007	10:30:34	653.5	62.07	-0.017
5/21/2007	10:30:34	654	62.07	-0.019
5/21/2007	10:30:35	654.5	62.07	-0.019

5/21/2007	10:30:35	655	62.07	-0.019
5/21/2007	10:30:36	655.5	62.07	-0.019
5/21/2007	10:30:36	656	62.07	-0.019
5/21/2007	10:30:37	656.5	62.07	-0.019
5/21/2007	10:30:37	657	62.07	-0.017
5/21/2007	10:30:38	657.5	62.07	-0.017
5/21/2007	10:30:38	658	62.07	-0.019
5/21/2007	10:30:39	658.5	62.07	-0.019
5/21/2007	10:30:39	659	62.07	-0.019
5/21/2007	10:30:40	659.5	62.07	-0.019
5/21/2007	10:30:40	660	62.07	-0.019
5/21/2007	10:30:41	660.5	62.07	-0.019
5/21/2007	10:30:41	661	62.07	-0.019
5/21/2007	10:30:42	661.5	62.07	-0.019
5/21/2007	10:30:42	662	62.07	-0.019
5/21/2007	10:30:43	662.5	62.07	-0.019
5/21/2007	10:30:43	663	62.07	-0.019
5/21/2007	10:30:44	663.5	62.07	-0.019
5/21/2007	10:30:44	664	62.07	-0.019
5/21/2007	10:30:45	664.5	62.07	-0.019
5/21/2007	10:30:45	665	62.07	-0.019
5/21/2007	10:30:46	665.5	62.07	-0.019
5/21/2007	10:30:46	666	62.07	-0.019
5/21/2007	10:30:47	666.5	62.07	-0.019
5/21/2007	10:30:47	667	62.07	-0.019
5/21/2007	10:30:48	667.5	62.07	-0.017
5/21/2007	10:30:48	668	62.07	-0.019
5/21/2007	10:30:49	668.5	62.07	-0.019
5/21/2007	10:30:49	669	62.07	-0.019
5/21/2007	10:30:50	669.5	62.07	-0.019
5/21/2007	10:30:50	670	62.07	-0.019
5/21/2007	10:30:51	670.5	62.07	-0.019
5/21/2007	10:30:51	671	62.07	-0.017
5/21/2007	10:30:52	671.5	62.07	-0.017
5/21/2007	10:30:52	672	62.07	-0.017
5/21/2007	10:30:53	672.5	62.07	-0.019
5/21/2007	10:30:53	673	62.07	-0.019
5/21/2007	10:30:54	673.5	62.07	-0.019
5/21/2007	10:30:54	674	62.07	-0.019
5/21/2007	10:30:55	674.5	62.07	-0.019
5/21/2007	10:30:55	675	62.07	-0.019
5/21/2007	10:30:56	675.5	62.07	-0.019
5/21/2007	10:30:56	676	62.07	-0.019
5/21/2007	10:30:57	676.5	62.07	-0.019
5/21/2007	10:30:57	677	62.07	-0.019
5/21/2007	10:30:58	677.5	62.07	-0.019
5/21/2007	10:30:58	678	62.07	-0.019
5/21/2007	10:30:59	678.5	62.07	-0.019
5/21/2007	10:30:59	679	62.07	-0.019
5/21/2007	10:31:00	679.5	62.07	-0.019
5/21/2007	10:31:00	680	62.07	-0.019
5/21/2007	10:31:01	680.5	62.07	-0.019

5/21/2007	10:31:01	681	62.07	-0.019
5/21/2007	10:31:02	681.5	62.07	-0.019
5/21/2007	10:31:02	682	62.07	-0.019
5/21/2007	10:31:03	682.5	62.07	-0.017
5/21/2007	10:31:03	683	62.07	-0.019
5/21/2007	10:31:04	683.5	62.07	-0.019
5/21/2007	10:31:04	684	62.07	-0.019
5/21/2007	10:31:05	684.5	62.07	-0.019
5/21/2007	10:31:05	685	62.07	-0.019
5/21/2007	10:31:06	685.5	62.07	-0.019
5/21/2007	10:31:06	686	62.07	-0.019
5/21/2007	10:31:07	686.5	62.07	-0.019
5/21/2007	10:31:07	687	62.07	-0.019
5/21/2007	10:31:08	687.5	62.07	-0.019
5/21/2007	10:31:08	688	62.07	-0.019
5/21/2007	10:31:09	688.5	62.07	-0.019
5/21/2007	10:31:09	689	62.07	-0.019
5/21/2007	10:31:10	689.5	62.07	-0.019
5/21/2007	10:31:10	690	62.07	-0.019
5/21/2007	10:31:11	690.5	62.07	-0.019
5/21/2007	10:31:11	691	62.07	-0.019

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:57:18
 Report from file: ...\\SN12694 2007-05-21 095321 Test #15.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #15

Test defined on: 5/21/2007 9:41:09
 Test started on: 5/21/2007 9:53:21
 Test stopped on: 5/21/2007 9:59:21

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 719

TOTAL DATA SAMPLES 719

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 8.303 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/21/2007	9:53:21	0	61.51	0
5/21/2007	9:53:21	0.5	61.53	-0.011
5/21/2007	9:53:22	1	61.55	-0.014
5/21/2007	9:53:22	1.5	61.55	-0.016
5/21/2007	9:53:23	2	61.57	-0.018
5/21/2007	9:53:23	2.5	61.57	-0.018
5/21/2007	9:53:24	3	61.57	-0.019
5/21/2007	9:53:24	3.5	61.57	-0.019
5/21/2007	9:53:25	4	61.57	-0.019
5/21/2007	9:53:25	4.5	61.6	-0.019

5/21/2007	9:53:26	5	61.6	-0.019
5/21/2007	9:53:26	5.5	61.6	-0.019
5/21/2007	9:53:27	6	61.6	-0.021
5/21/2007	9:53:27	6.5	61.6	-0.019
5/21/2007	9:53:28	7	61.6	-0.019
5/21/2007	9:53:28	7.5	61.6	-0.019
5/21/2007	9:53:29	8	61.6	-0.019
5/21/2007	9:53:29	8.5	61.6	-0.019
5/21/2007	9:53:30	9	61.6	-0.017
5/21/2007	9:53:30	9.5	61.6	-0.017
5/21/2007	9:53:31	10	61.6	-0.017
5/21/2007	9:53:31	10.5	61.6	-0.017
5/21/2007	9:53:32	11	61.6	-0.017
5/21/2007	9:53:32	11.5	61.6	-0.017
5/21/2007	9:53:33	12	61.62	-0.016
5/21/2007	9:53:33	12.5	61.62	-0.016
5/21/2007	9:53:34	13	61.62	-0.016
5/21/2007	9:53:34	13.5	61.62	-0.016
5/21/2007	9:53:35	14	61.62	-0.016
5/21/2007	9:53:35	14.5	61.62	-0.016
5/21/2007	9:53:36	15	61.62	-0.016
5/21/2007	9:53:36	15.5	61.62	-0.016
5/21/2007	9:53:37	16	61.62	-0.016
5/21/2007	9:53:37	16.5	61.62	-0.016
5/21/2007	9:53:38	17	61.62	-0.016
5/21/2007	9:53:38	17.5	61.62	-0.016
5/21/2007	9:53:39	18	61.62	-0.016
5/21/2007	9:53:39	18.5	61.62	-0.016
5/21/2007	9:53:40	19	61.62	-0.016
5/21/2007	9:53:40	19.5	61.62	-0.016
5/21/2007	9:53:41	20	61.62	-0.016
5/21/2007	9:53:41	20.5	61.62	-0.016
5/21/2007	9:53:42	21	61.62	-0.016
5/21/2007	9:53:42	21.5	61.62	-0.016
5/21/2007	9:53:43	22	61.62	-0.016
5/21/2007	9:53:43	22.5	61.62	-0.016
5/21/2007	9:53:44	23	61.62	-0.016
5/21/2007	9:53:44	23.5	61.64	-0.016
5/21/2007	9:53:45	24	61.64	-0.018
5/21/2007	9:53:45	24.5	61.62	-0.018
5/21/2007	9:53:46	25	61.64	-0.016
5/21/2007	9:53:46	25.5	61.64	-0.016
5/21/2007	9:53:47	26	61.64	-0.018
5/21/2007	9:53:47	26.5	61.64	-0.018
5/21/2007	9:53:48	27	61.64	-0.016
5/21/2007	9:53:48	27.5	61.64	-0.018
5/21/2007	9:53:49	28	61.64	-0.018
5/21/2007	9:53:49	28.5	61.64	-0.018
5/21/2007	9:53:50	29	61.64	-0.018
5/21/2007	9:53:50	29.5	61.64	-0.018
5/21/2007	9:53:51	30	61.64	-0.018
5/21/2007	9:53:51	30.5	61.64	-0.018

5/21/2007	9:53:52	31	61.64	-0.02
5/21/2007	9:53:52	31.5	61.64	-0.018
5/21/2007	9:53:53	32	61.64	-0.018
5/21/2007	9:53:53	32.5	61.64	-0.02
5/21/2007	9:53:54	33	61.64	-0.02
5/21/2007	9:53:54	33.5	61.64	-0.018
5/21/2007	9:53:55	34	61.64	-0.018
5/21/2007	9:53:55	34.5	61.64	-0.018
5/21/2007	9:53:56	35	61.64	-0.018
5/21/2007	9:53:56	35.5	61.64	-0.02
5/21/2007	9:53:57	36	61.64	-0.02
5/21/2007	9:53:57	36.5	61.64	-0.02
5/21/2007	9:53:58	37	61.66	-0.019
5/21/2007	9:53:58	37.5	61.66	-0.019
5/21/2007	9:53:59	38	61.66	-0.017
5/21/2007	9:53:59	38.5	61.66	-0.017
5/21/2007	9:54:00	39	61.66	-0.017
5/21/2007	9:54:00	39.5	61.66	-0.017
5/21/2007	9:54:01	40	61.66	-0.017
5/21/2007	9:54:01	40.5	61.66	-0.017
5/21/2007	9:54:02	41	61.66	-0.017
5/21/2007	9:54:02	41.5	61.66	-0.017
5/21/2007	9:54:03	42	61.66	-0.017
5/21/2007	9:54:03	42.5	61.66	-0.017
5/21/2007	9:54:04	43	61.66	-0.017
5/21/2007	9:54:04	43.5	61.66	-0.017
5/21/2007	9:54:05	44	61.66	-0.017
5/21/2007	9:54:05	44.5	61.66	-0.017
5/21/2007	9:54:06	45	61.66	-0.017
5/21/2007	9:54:06	45.5	61.66	-0.015
5/21/2007	9:54:07	46	61.66	-0.017
5/21/2007	9:54:07	46.5	61.66	-0.017
5/21/2007	9:54:08	47	61.66	-0.017
5/21/2007	9:54:08	47.5	61.66	-0.017
5/21/2007	9:54:09	48	61.66	-0.015
5/21/2007	9:54:09	48.5	61.66	-0.015
5/21/2007	9:54:10	49	61.66	-0.015
5/21/2007	9:54:10	49.5	61.66	-0.015
5/21/2007	9:54:11	50	61.66	-0.015
5/21/2007	9:54:11	50.5	61.66	-0.015
5/21/2007	9:54:12	51	61.66	-0.015
5/21/2007	9:54:12	51.5	61.66	-0.017
5/21/2007	9:54:13	52	61.66	-0.017
5/21/2007	9:54:13	52.5	61.66	-0.015
5/21/2007	9:54:14	53	61.66	-0.015
5/21/2007	9:54:14	53.5	61.66	-0.017
5/21/2007	9:54:15	54	61.69	-0.015
5/21/2007	9:54:15	54.5	61.66	-0.015
5/21/2007	9:54:16	55	61.66	-0.015
5/21/2007	9:54:16	55.5	61.66	-0.015
5/21/2007	9:54:17	56	61.66	-0.017
5/21/2007	9:54:17	56.5	61.66	-0.015

5/21/2007	9:54:18	57	61.69	-0.015
5/21/2007	9:54:18	57.5	61.69	-0.017
5/21/2007	9:54:19	58	61.69	-0.017
5/21/2007	9:54:19	58.5	61.69	-0.017
5/21/2007	9:54:20	59	61.69	-0.015
5/21/2007	9:54:20	59.5	61.69	-0.017
5/21/2007	9:54:21	60	61.69	-0.015
5/21/2007	9:54:21	60.5	61.69	-0.015
5/21/2007	9:54:22	61	61.69	-0.017
5/21/2007	9:54:22	61.5	61.69	-0.017
5/21/2007	9:54:23	62	61.69	-0.015
5/21/2007	9:54:23	62.5	61.69	-0.015
5/21/2007	9:54:24	63	61.69	-0.015
5/21/2007	9:54:24	63.5	61.69	-0.015
5/21/2007	9:54:25	64	61.69	-0.015
5/21/2007	9:54:25	64.5	61.69	-0.015
5/21/2007	9:54:26	65	61.69	-0.015
5/21/2007	9:54:26	65.5	61.69	-0.015
5/21/2007	9:54:27	66	61.69	-0.015
5/21/2007	9:54:27	66.5	61.69	-0.015
5/21/2007	9:54:28	67	61.69	-0.015
5/21/2007	9:54:28	67.5	61.69	-0.015
5/21/2007	9:54:29	68	61.69	-0.015
5/21/2007	9:54:29	68.5	61.69	-0.015
5/21/2007	9:54:30	69	61.69	-0.015
5/21/2007	9:54:30	69.5	61.69	-0.015
5/21/2007	9:54:31	70	61.69	-0.015
5/21/2007	9:54:31	70.5	61.69	-0.015
5/21/2007	9:54:32	71	61.69	-0.015
5/21/2007	9:54:32	71.5	61.69	-0.015
5/21/2007	9:54:33	72	61.69	-0.017
5/21/2007	9:54:33	72.5	61.69	-0.017
5/21/2007	9:54:34	73	61.69	-0.017
5/21/2007	9:54:34	73.5	61.69	-0.017
5/21/2007	9:54:35	74	61.69	-0.015
5/21/2007	9:54:35	74.5	61.69	-0.015
5/21/2007	9:54:36	75	61.69	-0.015
5/21/2007	9:54:36	75.5	61.69	-0.015
5/21/2007	9:54:37	76	61.69	-0.015
5/21/2007	9:54:37	76.5	61.69	-0.015
5/21/2007	9:54:38	77	61.69	-0.015
5/21/2007	9:54:38	77.5	61.69	-0.015
5/21/2007	9:54:39	78	61.69	-0.015
5/21/2007	9:54:39	78.5	61.69	-0.015
5/21/2007	9:54:40	79	61.71	-0.014
5/21/2007	9:54:40	79.5	61.69	-0.015
5/21/2007	9:54:41	80	61.69	-0.015
5/21/2007	9:54:41	80.5	61.69	-0.015
5/21/2007	9:54:42	81	61.69	-0.017
5/21/2007	9:54:42	81.5	61.69	-0.017
5/21/2007	9:54:43	82	61.69	-0.015
5/21/2007	9:54:43	82.5	61.69	-0.015

5/21/2007	9:54:44	83	61.69	-0.017
5/21/2007	9:54:44	83.5	61.69	-0.015
5/21/2007	9:54:45	84	61.71	-0.014
5/21/2007	9:54:45	84.5	61.69	-0.015
5/21/2007	9:54:46	85	61.69	-0.015
5/21/2007	9:54:46	85.5	61.69	-0.015
5/21/2007	9:54:47	86	61.71	-0.014
5/21/2007	9:54:47	86.5	61.71	-0.016
5/21/2007	9:54:48	87	61.71	-0.018
5/21/2007	9:54:48	87.5	61.69	-0.019
5/21/2007	9:54:49	88	61.71	-0.016
5/21/2007	9:54:49	88.5	61.69	-0.017
5/21/2007	9:54:50	89	61.69	-0.017
5/21/2007	9:54:50	89.5	61.69	-0.017
5/21/2007	9:54:51	90	61.69	-0.017
5/21/2007	9:54:51	90.5	61.71	-0.016
5/21/2007	9:54:52	91	61.71	-0.455
5/21/2007	9:54:52	91.5	61.71	-0.442
5/21/2007	9:54:53	92	61.71	-0.689
5/21/2007	9:54:53	92.5	61.69	-0.684
5/21/2007	9:54:54	93	61.71	-0.354
5/21/2007	9:54:54	93.5	61.71	-0.653
5/21/2007	9:54:55	94	61.71	-0.369
5/21/2007	9:54:55	94.5	61.71	-0.235
5/21/2007	9:54:56	95	61.71	-0.342
5/21/2007	9:54:56	95.5	61.69	-0.381
5/21/2007	9:54:57	96	61.71	-0.287
5/21/2007	9:54:57	96.5	61.71	0.149
5/21/2007	9:54:58	97	61.71	-0.06
5/21/2007	9:54:58	97.5	61.71	-0.068
5/21/2007	9:54:59	98	61.71	-0.068
5/21/2007	9:54:59	98.5	61.71	-0.066
5/21/2007	9:55:00	99	61.71	-0.064
5/21/2007	9:55:00	99.5	61.71	-0.06
5/21/2007	9:55:01	100	61.71	-0.058
5/21/2007	9:55:01	100.5	61.71	-0.056
5/21/2007	9:55:02	101	61.71	-0.055
5/21/2007	9:55:02	101.5	61.71	-0.053
5/21/2007	9:55:03	102	61.71	-0.051
5/21/2007	9:55:03	102.5	61.71	-0.049
5/21/2007	9:55:04	103	61.71	-0.047
5/21/2007	9:55:04	103.5	61.71	-0.047
5/21/2007	9:55:05	104	61.71	-0.045
5/21/2007	9:55:05	104.5	61.71	-0.045
5/21/2007	9:55:06	105	61.71	-0.043
5/21/2007	9:55:06	105.5	61.71	-0.041
5/21/2007	9:55:07	106	61.71	-0.041
5/21/2007	9:55:07	106.5	61.71	-0.039
5/21/2007	9:55:08	107	61.71	-0.039
5/21/2007	9:55:08	107.5	61.71	-0.039
5/21/2007	9:55:09	108	61.71	-0.039
5/21/2007	9:55:09	108.5	61.71	-0.037

5/21/2007	9:55:10	109	61.71	-0.037
5/21/2007	9:55:10	109.5	61.71	-0.035
5/21/2007	9:55:11	110	61.71	-0.035
5/21/2007	9:55:11	110.5	61.71	-0.033
5/21/2007	9:55:12	111	61.71	-0.033
5/21/2007	9:55:12	111.5	61.71	-0.033
5/21/2007	9:55:13	112	61.71	-0.033
5/21/2007	9:55:13	112.5	61.71	-0.033
5/21/2007	9:55:14	113	61.71	-0.031
5/21/2007	9:55:14	113.5	61.71	-0.031
5/21/2007	9:55:15	114	61.71	-0.031
5/21/2007	9:55:15	114.5	61.71	-0.031
5/21/2007	9:55:16	115	61.71	-0.031
5/21/2007	9:55:16	115.5	61.71	-0.031
5/21/2007	9:55:17	116	61.71	-0.03
5/21/2007	9:55:17	116.5	61.71	-0.03
5/21/2007	9:55:18	117	61.71	-0.03
5/21/2007	9:55:18	117.5	61.71	-0.03
5/21/2007	9:55:19	118	61.71	-0.03
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5/21/2007	9:55:20	119	61.71	-0.03
5/21/2007	9:55:20	119.5	61.71	-0.03
5/21/2007	9:55:21	120	61.71	-0.028
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5/21/2007	9:55:22	121	61.71	-0.028
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5/21/2007	9:55:27	126	61.71	-0.026
5/21/2007	9:55:27	126.5	61.71	-0.026
5/21/2007	9:55:28	127	61.71	-0.024
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5/21/2007	9:55:29	128	61.71	-0.024
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5/21/2007	9:55:30	129	61.71	-0.024
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5/21/2007	9:55:33	132	61.71	-0.024
5/21/2007	9:55:33	132.5	61.71	-0.024
5/21/2007	9:55:34	133	61.71	-0.022
5/21/2007	9:55:34	133.5	61.71	-0.024
5/21/2007	9:55:35	134	61.71	-0.024
5/21/2007	9:55:35	134.5	61.71	-0.024

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5/21/2007	9:55:37	136	61.71	-0.022
5/21/2007	9:55:37	136.5	61.71	-0.022
5/21/2007	9:55:38	137	61.71	-0.022
5/21/2007	9:55:38	137.5	61.71	-0.022
5/21/2007	9:55:39	138	61.73	-0.021
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5/21/2007	9:55:40	139	61.71	-0.022
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5/21/2007	9:55:41	140	61.71	-0.022
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5/21/2007	9:55:42	141	61.71	-0.022
5/21/2007	9:55:42	141.5	61.73	-0.021
5/21/2007	9:55:43	142	61.71	-0.022
5/21/2007	9:55:43	142.5	61.71	-0.022
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5/21/2007	9:55:45	144	61.73	-0.021
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5/21/2007	9:55:49	148	61.71	-0.02
5/21/2007	9:55:49	148.5	61.73	-0.021
5/21/2007	9:55:50	149	61.73	-0.019
5/21/2007	9:55:50	149.5	61.71	-0.022
5/21/2007	9:55:51	150	61.73	-0.021
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5/21/2007	9:55:52	151	61.73	-0.021
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5/21/2007	9:55:54	153	61.73	-0.021
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5/21/2007	9:55:56	155	61.73	-0.021
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5/21/2007	9:55:57	156	61.73	-0.019
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5/21/2007	9:56:01	160	61.73	-0.019
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5/21/2007	9:56:02	161	61.73	-0.019
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5/21/2007	9:56:04	163	61.73	-0.019
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5/21/2007	9:56:06	165	61.73	-0.019
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5/21/2007	9:56:07	166	61.73	-0.019
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5/21/2007	9:56:08	167	61.73	-0.019
5/21/2007	9:56:08	167.5	61.73	-0.019
5/21/2007	9:56:09	168	61.73	-0.019
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5/21/2007	9:56:10	169	61.73	-0.019
5/21/2007	9:56:10	169.5	61.73	-0.018
5/21/2007	9:56:11	170	61.73	-0.018
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5/21/2007	9:56:12	171	61.73	-0.018
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5/21/2007	9:56:13	172	61.73	-0.018
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5/21/2007	9:56:14	173	61.73	-0.018
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5/21/2007	9:56:18	177	61.73	-0.019
5/21/2007	9:56:18	177.5	61.73	-0.018
5/21/2007	9:56:19	178	61.73	-0.018
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5/21/2007	9:56:21	180	61.73	-0.018
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5/21/2007	9:56:22	181	61.73	-0.018
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5/21/2007	9:56:23	182	61.73	-0.018
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5/21/2007	9:56:24	183	61.73	-0.018
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5/21/2007	9:56:25	184	61.73	-0.018
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5/21/2007	9:56:26	185	61.73	-0.018
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5/21/2007	9:56:27	186	61.73	-0.018
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5/21/2007	9:56:30	189	61.73	-0.018
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5/21/2007	9:56:31	190	61.73	-0.019
5/21/2007	9:56:31	190.5	61.73	-0.018
5/21/2007	9:56:32	191	61.73	-0.018
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5/21/2007	9:56:33	192	61.73	-0.018
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5/21/2007	9:56:34	193	61.73	-0.018
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5/21/2007	9:56:36	195	61.73	-0.018
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5/21/2007	9:56:37	196	61.73	-0.018
5/21/2007	9:56:37	196.5	61.73	-0.018
5/21/2007	9:56:38	197	61.73	-0.018
5/21/2007	9:56:38	197.5	61.73	-0.018
5/21/2007	9:56:39	198	61.73	-0.018
5/21/2007	9:56:39	198.5	61.73	-0.018
5/21/2007	9:56:40	199	61.73	-0.018
5/21/2007	9:56:40	199.5	61.73	-0.018
5/21/2007	9:56:41	200	61.73	-0.018
5/21/2007	9:56:41	200.5	61.73	-0.018
5/21/2007	9:56:42	201	61.73	-0.018
5/21/2007	9:56:42	201.5	61.73	-0.018
5/21/2007	9:56:43	202	61.73	-0.018
5/21/2007	9:56:43	202.5	61.73	-0.016
5/21/2007	9:56:44	203	61.73	-0.018
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5/21/2007	9:56:45	204	61.73	-0.018
5/21/2007	9:56:45	204.5	61.73	-0.018
5/21/2007	9:56:46	205	61.73	-0.018
5/21/2007	9:56:46	205.5	61.73	-0.018
5/21/2007	9:56:47	206	61.73	-0.018
5/21/2007	9:56:47	206.5	61.73	-0.019
5/21/2007	9:56:48	207	61.73	-0.018
5/21/2007	9:56:48	207.5	61.73	-0.019
5/21/2007	9:56:49	208	61.73	-0.018
5/21/2007	9:56:49	208.5	61.73	-0.018
5/21/2007	9:56:50	209	61.73	-0.018
5/21/2007	9:56:50	209.5	61.73	-0.018
5/21/2007	9:56:51	210	61.73	-0.018
5/21/2007	9:56:51	210.5	61.73	-0.018
5/21/2007	9:56:52	211	61.73	-0.018
5/21/2007	9:56:52	211.5	61.73	-0.018
5/21/2007	9:56:53	212	61.73	-0.018
5/21/2007	9:56:53	212.5	61.73	-0.018

5/21/2007	9:56:54	213	61.73	-0.018
5/21/2007	9:56:54	213.5	61.73	-0.018
5/21/2007	9:56:55	214	61.73	-0.016
5/21/2007	9:56:55	214.5	61.73	-0.018
5/21/2007	9:56:56	215	61.73	-0.018
5/21/2007	9:56:56	215.5	61.73	-0.018
5/21/2007	9:56:57	216	61.73	-0.018
5/21/2007	9:56:57	216.5	61.73	-0.018
5/21/2007	9:56:58	217	61.73	-0.018
5/21/2007	9:56:58	217.5	61.73	-0.018
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5/21/2007	9:57:00	219	61.73	-0.018
5/21/2007	9:57:00	219.5	61.73	-0.018
5/21/2007	9:57:01	220	61.73	-0.018
5/21/2007	9:57:01	220.5	61.73	-0.018
5/21/2007	9:57:02	221	61.73	-0.018
5/21/2007	9:57:02	221.5	61.73	-0.018
5/21/2007	9:57:03	222	61.73	-0.018
5/21/2007	9:57:03	222.5	61.73	-0.018
5/21/2007	9:57:04	223	61.73	-0.018
5/21/2007	9:57:04	223.5	61.73	-0.018
5/21/2007	9:57:05	224	61.73	-0.018
5/21/2007	9:57:05	224.5	61.73	-0.018
5/21/2007	9:57:06	225	61.73	-0.018
5/21/2007	9:57:06	225.5	61.73	-0.018
5/21/2007	9:57:07	226	61.73	-0.018
5/21/2007	9:57:07	226.5	61.73	-0.018
5/21/2007	9:57:08	227	61.73	-0.018
5/21/2007	9:57:08	227.5	61.73	-0.016
5/21/2007	9:57:09	228	61.73	-0.016
5/21/2007	9:57:09	228.5	61.73	-0.018
5/21/2007	9:57:10	229	61.73	-0.016
5/21/2007	9:57:10	229.5	61.73	-0.018
5/21/2007	9:57:11	230	61.73	-0.018
5/21/2007	9:57:11	230.5	61.73	-0.018
5/21/2007	9:57:12	231	61.73	-0.018
5/21/2007	9:57:12	231.5	61.73	-0.018
5/21/2007	9:57:13	232	61.73	-0.018
5/21/2007	9:57:13	232.5	61.73	-0.018
5/21/2007	9:57:14	233	61.73	-0.018
5/21/2007	9:57:14	233.5	61.73	-0.018
5/21/2007	9:57:15	234	61.73	-0.018
5/21/2007	9:57:15	234.5	61.73	-0.018
5/21/2007	9:57:16	235	61.73	-0.018
5/21/2007	9:57:16	235.5	61.73	-0.018
5/21/2007	9:57:17	236	61.76	-0.017
5/21/2007	9:57:17	236.5	61.73	-0.018
5/21/2007	9:57:18	237	61.73	-0.018
5/21/2007	9:57:18	237.5	61.73	-0.018
5/21/2007	9:57:19	238	61.73	-0.018
5/21/2007	9:57:19	238.5	61.73	-0.018

5/21/2007	9:57:20	239	61.73	-0.019
5/21/2007	9:57:20	239.5	61.73	-0.018
5/21/2007	9:57:21	240	61.73	-0.018
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5/21/2007	9:57:22	241	61.73	-0.018
5/21/2007	9:57:22	241.5	61.73	-0.018
5/21/2007	9:57:23	242	61.73	-0.018
5/21/2007	9:57:23	242.5	61.73	-0.018
5/21/2007	9:57:24	243	61.73	-0.018
5/21/2007	9:57:24	243.5	61.73	-0.018
5/21/2007	9:57:25	244	61.73	-0.018
5/21/2007	9:57:25	244.5	61.73	-0.018
5/21/2007	9:57:26	245	61.73	-0.018
5/21/2007	9:57:26	245.5	61.73	-0.018
5/21/2007	9:57:27	246	61.73	-0.018
5/21/2007	9:57:27	246.5	61.73	-0.018
5/21/2007	9:57:28	247	61.73	-0.018
5/21/2007	9:57:28	247.5	61.73	-0.018
5/21/2007	9:57:29	248	61.73	-0.018
5/21/2007	9:57:29	248.5	61.73	-0.018
5/21/2007	9:57:30	249	61.73	-0.018
5/21/2007	9:57:30	249.5	61.73	-0.018
5/21/2007	9:57:31	250	61.73	-0.018
5/21/2007	9:57:31	250.5	61.73	-0.018
5/21/2007	9:57:32	251	61.73	-0.016
5/21/2007	9:57:32	251.5	61.73	-0.016
5/21/2007	9:57:33	252	61.73	-0.018
5/21/2007	9:57:33	252.5	61.73	-0.018
5/21/2007	9:57:34	253	61.73	-0.018
5/21/2007	9:57:34	253.5	61.76	-0.017
5/21/2007	9:57:35	254	61.76	-0.017
5/21/2007	9:57:35	254.5	61.73	-0.018
5/21/2007	9:57:36	255	61.76	-0.017
5/21/2007	9:57:36	255.5	61.76	-0.017
5/21/2007	9:57:37	256	61.73	-0.018
5/21/2007	9:57:37	256.5	61.76	-0.017
5/21/2007	9:57:38	257	61.76	-0.015
5/21/2007	9:57:38	257.5	61.73	-0.018
5/21/2007	9:57:39	258	61.76	-0.017
5/21/2007	9:57:39	258.5	61.76	-0.015
5/21/2007	9:57:40	259	61.73	-0.018
5/21/2007	9:57:40	259.5	61.76	-0.017
5/21/2007	9:57:41	260	61.73	-0.018
5/21/2007	9:57:41	260.5	61.73	-0.018
5/21/2007	9:57:42	261	61.76	-0.015
5/21/2007	9:57:42	261.5	61.73	-0.016
5/21/2007	9:57:43	262	61.73	-0.016
5/21/2007	9:57:43	262.5	61.73	-0.016
5/21/2007	9:57:44	263	61.76	-0.017
5/21/2007	9:57:44	263.5	61.76	-0.015
5/21/2007	9:57:45	264	61.76	-0.017
5/21/2007	9:57:45	264.5	61.73	-0.018

5/21/2007	9:57:46	265	61.73	-0.018
5/21/2007	9:57:46	265.5	61.76	-0.015
5/21/2007	9:57:47	266	61.73	-0.016
5/21/2007	9:57:47	266.5	61.73	-0.018
5/21/2007	9:57:48	267	61.73	-0.018
5/21/2007	9:57:48	267.5	61.73	-0.016
5/21/2007	9:57:49	268	61.73	-0.016
5/21/2007	9:57:49	268.5	61.76	-0.017
5/21/2007	9:57:50	269	61.76	-0.015
5/21/2007	9:57:50	269.5	61.76	-0.015
5/21/2007	9:57:51	270	61.76	-0.017
5/21/2007	9:57:51	270.5	61.73	-0.018
5/21/2007	9:57:52	271	61.76	-0.015
5/21/2007	9:57:52	271.5	61.76	-0.017
5/21/2007	9:57:53	272	61.73	-0.018
5/21/2007	9:57:53	272.5	61.73	-0.018
5/21/2007	9:57:54	273	61.76	-0.017
5/21/2007	9:57:54	273.5	61.73	-0.018
5/21/2007	9:57:55	274	61.73	-0.016
5/21/2007	9:57:55	274.5	61.76	-0.015
5/21/2007	9:57:56	275	61.76	-0.015
5/21/2007	9:57:56	275.5	61.73	-0.018
5/21/2007	9:57:57	276	61.76	-0.017
5/21/2007	9:57:57	276.5	61.76	-0.017
5/21/2007	9:57:58	277	61.76	-0.015
5/21/2007	9:57:58	277.5	61.73	-0.016
5/21/2007	9:57:59	278	61.76	-0.015
5/21/2007	9:57:59	278.5	61.73	-0.016
5/21/2007	9:58:00	279	61.76	-0.017
5/21/2007	9:58:00	279.5	61.76	-0.017
5/21/2007	9:58:01	280	61.73	-0.016
5/21/2007	9:58:01	280.5	61.76	-0.017
5/21/2007	9:58:02	281	61.73	-0.018
5/21/2007	9:58:02	281.5	61.76	-0.015
5/21/2007	9:58:03	282	61.73	-0.018
5/21/2007	9:58:03	282.5	61.73	-0.016
5/21/2007	9:58:04	283	61.76	-0.017
5/21/2007	9:58:04	283.5	61.76	-0.015
5/21/2007	9:58:05	284	61.76	-0.015
5/21/2007	9:58:05	284.5	61.73	-0.018
5/21/2007	9:58:06	285	61.76	-0.017
5/21/2007	9:58:06	285.5	61.76	-0.015
5/21/2007	9:58:07	286	61.76	-0.017
5/21/2007	9:58:07	286.5	61.76	-0.017
5/21/2007	9:58:08	287	61.76	-0.017
5/21/2007	9:58:08	287.5	61.76	-0.017
5/21/2007	9:58:09	288	61.76	-0.015
5/21/2007	9:58:09	288.5	61.76	-0.017
5/21/2007	9:58:10	289	61.76	-0.017
5/21/2007	9:58:10	289.5	61.76	-0.017
5/21/2007	9:58:11	290	61.76	-0.017
5/21/2007	9:58:11	290.5	61.76	-0.017

5/21/2007	9:58:12	291	61.76	-0.017
5/21/2007	9:58:12	291.5	61.76	-0.017
5/21/2007	9:58:13	292	61.76	-0.017
5/21/2007	9:58:13	292.5	61.76	-0.017
5/21/2007	9:58:14	293	61.73	-0.016
5/21/2007	9:58:14	293.5	61.76	-0.017
5/21/2007	9:58:15	294	61.76	-0.015
5/21/2007	9:58:15	294.5	61.76	-0.015
5/21/2007	9:58:16	295	61.76	-0.017
5/21/2007	9:58:16	295.5	61.76	-0.015
5/21/2007	9:58:17	296	61.76	-0.017
5/21/2007	9:58:17	296.5	61.76	-0.015
5/21/2007	9:58:18	297	61.73	-0.018
5/21/2007	9:58:18	297.5	61.76	-0.017
5/21/2007	9:58:19	298	61.73	-0.018
5/21/2007	9:58:19	298.5	61.76	-0.017
5/21/2007	9:58:20	299	61.76	-0.017
5/21/2007	9:58:20	299.5	61.76	-0.017
5/21/2007	9:58:21	300	61.73	-0.018
5/21/2007	9:58:21	300.5	61.76	-0.017
5/21/2007	9:58:22	301	61.76	-0.017
5/21/2007	9:58:22	301.5	61.76	-0.017
5/21/2007	9:58:23	302	61.76	-0.017
5/21/2007	9:58:23	302.5	61.76	-0.017
5/21/2007	9:58:24	303	61.76	-0.017
5/21/2007	9:58:24	303.5	61.76	-0.017
5/21/2007	9:58:25	304	61.76	-0.015
5/21/2007	9:58:25	304.5	61.73	-0.018
5/21/2007	9:58:26	305	61.76	-0.015
5/21/2007	9:58:26	305.5	61.76	-0.017
5/21/2007	9:58:27	306	61.76	-0.017
5/21/2007	9:58:27	306.5	61.76	-0.017
5/21/2007	9:58:28	307	61.76	-0.017
5/21/2007	9:58:28	307.5	61.76	-0.017
5/21/2007	9:58:29	308	61.76	-0.017
5/21/2007	9:58:29	308.5	61.76	-0.015
5/21/2007	9:58:30	309	61.76	-0.017
5/21/2007	9:58:30	309.5	61.76	-0.017
5/21/2007	9:58:31	310	61.76	-0.017
5/21/2007	9:58:31	310.5	61.76	-0.017
5/21/2007	9:58:32	311	61.76	-0.017
5/21/2007	9:58:32	311.5	61.76	-0.017
5/21/2007	9:58:33	312	61.76	-0.017
5/21/2007	9:58:33	312.5	61.76	-0.015
5/21/2007	9:58:34	313	61.76	-0.017
5/21/2007	9:58:34	313.5	61.76	-0.015
5/21/2007	9:58:35	314	61.76	-0.017
5/21/2007	9:58:35	314.5	61.76	-0.017
5/21/2007	9:58:36	315	61.76	-0.021
5/21/2007	9:58:36	315.5	61.76	-0.025
5/21/2007	9:58:37	316	61.76	-0.025
5/21/2007	9:58:37	316.5	61.76	-0.027

5/21/2007	9:58:38	317	61.76	-0.027
5/21/2007	9:58:38	317.5	61.76	-0.027
5/21/2007	9:58:39	318	61.73	-0.027
5/21/2007	9:58:39	318.5	61.76	-0.027
5/21/2007	9:58:40	319	61.76	-0.027
5/21/2007	9:58:40	319.5	61.76	-0.025
5/21/2007	9:58:41	320	61.76	-0.025
5/21/2007	9:58:41	320.5	61.76	-0.025
5/21/2007	9:58:42	321	61.73	-0.023
5/21/2007	9:58:42	321.5	61.76	-0.023
5/21/2007	9:58:43	322	61.76	-0.023
5/21/2007	9:58:43	322.5	61.76	-0.023
5/21/2007	9:58:44	323	61.76	-0.023
5/21/2007	9:58:44	323.5	61.73	-0.021
5/21/2007	9:58:45	324	61.76	-0.021
5/21/2007	9:58:45	324.5	61.76	-0.021
5/21/2007	9:58:46	325	61.76	-0.021
5/21/2007	9:58:46	325.5	61.76	-0.021
5/21/2007	9:58:47	326	61.76	-0.019
5/21/2007	9:58:47	326.5	61.76	-0.019
5/21/2007	9:58:48	327	61.76	-0.019
5/21/2007	9:58:48	327.5	61.76	-0.019
5/21/2007	9:58:49	328	61.76	-0.019
5/21/2007	9:58:49	328.5	61.76	-0.019
5/21/2007	9:58:50	329	61.76	-0.019
5/21/2007	9:58:50	329.5	61.76	-0.019
5/21/2007	9:58:51	330	61.76	-0.019
5/21/2007	9:58:51	330.5	61.76	-0.019
5/21/2007	9:58:52	331	61.76	-0.019
5/21/2007	9:58:52	331.5	61.76	-0.019
5/21/2007	9:58:53	332	61.76	-0.019
5/21/2007	9:58:53	332.5	61.76	-0.019
5/21/2007	9:58:54	333	61.76	-0.019
5/21/2007	9:58:54	333.5	61.76	-0.017
5/21/2007	9:58:55	334	61.76	-0.019
5/21/2007	9:58:55	334.5	61.76	-0.017
5/21/2007	9:58:56	335	61.76	-0.017
5/21/2007	9:58:56	335.5	61.76	-0.019
5/21/2007	9:58:57	336	61.73	-0.018
5/21/2007	9:58:57	336.5	61.76	-0.019
5/21/2007	9:58:58	337	61.76	-0.019
5/21/2007	9:58:58	337.5	61.76	-0.017
5/21/2007	9:58:59	338	61.76	-0.017
5/21/2007	9:58:59	338.5	61.76	-0.017
5/21/2007	9:59:00	339	61.76	-0.017
5/21/2007	9:59:00	339.5	61.76	-0.017
5/21/2007	9:59:01	340	61.76	-0.017
5/21/2007	9:59:01	340.5	61.73	-0.018
5/21/2007	9:59:02	341	61.73	-0.018
5/21/2007	9:59:02	341.5	61.76	-0.017
5/21/2007	9:59:03	342	61.76	-0.019
5/21/2007	9:59:03	342.5	61.73	-0.018

5/21/2007	9:59:04	343	61.73	-0.018
5/21/2007	9:59:04	343.5	61.73	-0.018
5/21/2007	9:59:05	344	61.76	-0.017
5/21/2007	9:59:05	344.5	61.76	-0.019
5/21/2007	9:59:06	345	61.76	-0.017
5/21/2007	9:59:06	345.5	61.73	-0.018
5/21/2007	9:59:07	346	61.73	-0.018
5/21/2007	9:59:07	346.5	61.76	-0.017
5/21/2007	9:59:08	347	61.76	-0.017
5/21/2007	9:59:08	347.5	61.76	-0.017
5/21/2007	9:59:09	348	61.76	-0.017
5/21/2007	9:59:09	348.5	61.76	-0.017
5/21/2007	9:59:10	349	61.76	-0.017
5/21/2007	9:59:10	349.5	61.76	-0.017
5/21/2007	9:59:11	350	61.76	-0.017
5/21/2007	9:59:11	350.5	61.73	-0.018
5/21/2007	9:59:12	351	61.76	-0.017
5/21/2007	9:59:12	351.5	61.76	-0.017
5/21/2007	9:59:13	352	61.73	-0.018
5/21/2007	9:59:13	352.5	61.76	-0.017
5/21/2007	9:59:14	353	61.76	-0.017
5/21/2007	9:59:14	353.5	61.76	-0.017
5/21/2007	9:59:15	354	61.76	-0.017
5/21/2007	9:59:15	354.5	61.76	-0.019
5/21/2007	9:59:16	355	61.76	-0.017
5/21/2007	9:59:16	355.5	61.76	-0.017
5/21/2007	9:59:17	356	61.73	-0.018
5/21/2007	9:59:17	356.5	61.76	-0.017
5/21/2007	9:59:18	357	61.76	-0.017
5/21/2007	9:59:18	357.5	61.76	-0.017
5/21/2007	9:59:19	358	61.76	-0.017
5/21/2007	9:59:19	358.5	61.76	-0.017
5/21/2007	9:59:20	359	61.76	-0.017

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:36:40
Report from file: ...\\SN12694 2007-05-20 114522 Test #4.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #4

Test defined on: 5/20/2007 11:45:16
Test started on: 5/20/2007 11:45:22
Test stopped on: 5/20/2007 11:56:22

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 1321

TOTAL DATA SAMPLES 1321

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 9.2 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	11:45:22	0	58.9	0
5/20/2007	11:45:22	0.5	58.93	-0.011
5/20/2007	11:45:23	1	58.95	-0.012
5/20/2007	11:45:23	1.5	58.95	-0.014
5/20/2007	11:45:24	2	58.95	-0.016
5/20/2007	11:45:24	2.5	58.97	-0.016
5/20/2007	11:45:25	3	58.97	-0.018
5/20/2007	11:45:25	3.5	58.97	-0.016
5/20/2007	11:45:26	4	58.97	-0.016
5/20/2007	11:45:26	4.5	58.97	-0.016

5/20/2007	11:45:27	5	58.97	-0.018
5/20/2007	11:45:27	5.5	58.97	-0.018
5/20/2007	11:45:28	6	58.97	-0.018
5/20/2007	11:45:28	6.5	59	-0.017
5/20/2007	11:45:29	7	59	-0.017
5/20/2007	11:45:29	7.5	59	-0.017
5/20/2007	11:45:30	8	59	-0.017
5/20/2007	11:45:30	8.5	59	-0.017
5/20/2007	11:45:31	9	59	-0.017
5/20/2007	11:45:31	9.5	59	-0.019
5/20/2007	11:45:32	10	59	-0.019
5/20/2007	11:45:32	10.5	59	-0.017
5/20/2007	11:45:33	11	59	-0.019
5/20/2007	11:45:33	11.5	59	-0.019
5/20/2007	11:45:34	12	59	-0.017
5/20/2007	11:45:34	12.5	59	-0.017
5/20/2007	11:45:35	13	59	-0.017
5/20/2007	11:45:35	13.5	59	-0.017
5/20/2007	11:45:36	14	59	-0.017
5/20/2007	11:45:36	14.5	59	-0.017
5/20/2007	11:45:37	15	59	-0.015
5/20/2007	11:45:37	15.5	59	-0.017
5/20/2007	11:45:38	16	59	-0.015
5/20/2007	11:45:38	16.5	59	-0.015
5/20/2007	11:45:39	17	59.02	-0.015
5/20/2007	11:45:39	17.5	59.02	-0.015
5/20/2007	11:45:40	18	59.02	-0.015
5/20/2007	11:45:40	18.5	59.02	-0.015
5/20/2007	11:45:41	19	59.02	-0.015
5/20/2007	11:45:41	19.5	59.02	-0.015
5/20/2007	11:45:42	20	59.02	-0.015
5/20/2007	11:45:42	20.5	59.02	-0.015
5/20/2007	11:45:43	21	59.02	-0.015
5/20/2007	11:45:43	21.5	59.02	-0.013
5/20/2007	11:45:44	22	59.02	-0.015
5/20/2007	11:45:44	22.5	59.02	-0.015
5/20/2007	11:45:45	23	59.02	-0.013
5/20/2007	11:45:45	23.5	59.02	-0.015
5/20/2007	11:45:46	24	59.02	-0.015
5/20/2007	11:45:46	24.5	59.02	-0.013
5/20/2007	11:45:47	25	59.02	-0.013
5/20/2007	11:45:47	25.5	59.02	-0.015
5/20/2007	11:45:48	26	59.02	-0.013
5/20/2007	11:45:48	26.5	59.02	-0.013
5/20/2007	11:45:49	27	59.02	-0.013
5/20/2007	11:45:49	27.5	59.02	-0.015
5/20/2007	11:45:50	28	59.02	-0.013
5/20/2007	11:45:50	28.5	59.02	-0.013
5/20/2007	11:45:51	29	59.02	-0.013
5/20/2007	11:45:51	29.5	59.02	-0.015
5/20/2007	11:45:52	30	59.02	-0.015
5/20/2007	11:45:52	30.5	59.02	-0.015

5/20/2007	11:45:53	31	59.02	-0.013
5/20/2007	11:45:53	31.5	59.04	0.577
5/20/2007	11:45:54	32	59.04	0.542
5/20/2007	11:45:54	32.5	59.02	0.377
5/20/2007	11:45:55	33	59.04	0.184
5/20/2007	11:45:55	33.5	59.04	0.095
5/20/2007	11:45:56	34	59.04	0.059
5/20/2007	11:45:56	34.5	59.04	0.04
5/20/2007	11:45:57	35	59.04	0.03
5/20/2007	11:45:57	35.5	59.04	0.022
5/20/2007	11:45:58	36	59.04	0.015
5/20/2007	11:45:58	36.5	59.04	0.011
5/20/2007	11:45:59	37	59.04	0.007
5/20/2007	11:45:59	37.5	59.04	0.001
5/20/2007	11:46:00	38	59.04	-0.001
5/20/2007	11:46:00	38.5	59.04	-0.004
5/20/2007	11:46:01	39	59.04	-0.006
5/20/2007	11:46:01	39.5	59.04	-0.008
5/20/2007	11:46:02	40	59.04	-0.008
5/20/2007	11:46:02	40.5	59.04	-0.01
5/20/2007	11:46:03	41	59.04	-0.012
5/20/2007	11:46:03	41.5	59.04	-0.012
5/20/2007	11:46:04	42	59.04	-0.014
5/20/2007	11:46:04	42.5	59.04	-0.014
5/20/2007	11:46:05	43	59.04	-0.016
5/20/2007	11:46:05	43.5	59.04	-0.016
5/20/2007	11:46:06	44	59.04	-0.016
5/20/2007	11:46:06	44.5	59.04	-0.018
5/20/2007	11:46:07	45	59.04	-0.018
5/20/2007	11:46:07	45.5	59.04	-0.018
5/20/2007	11:46:08	46	59.04	-0.018
5/20/2007	11:46:08	46.5	59.04	-0.02
5/20/2007	11:46:09	47	59.04	-0.02
5/20/2007	11:46:09	47.5	59.04	-0.018
5/20/2007	11:46:10	48	59.04	-0.02
5/20/2007	11:46:10	48.5	59.04	-0.02
5/20/2007	11:46:11	49	59.04	-0.02
5/20/2007	11:46:11	49.5	59.04	-0.02
5/20/2007	11:46:12	50	59.04	-0.02
5/20/2007	11:46:12	50.5	59.04	-0.02
5/20/2007	11:46:13	51	59.04	-0.02
5/20/2007	11:46:13	51.5	59.04	-0.02
5/20/2007	11:46:14	52	59.04	-0.02
5/20/2007	11:46:14	52.5	59.06	-0.019
5/20/2007	11:46:15	53	59.04	-0.022
5/20/2007	11:46:15	53.5	59.04	-0.02
5/20/2007	11:46:16	54	59.06	-0.019
5/20/2007	11:46:16	54.5	59.06	-0.021
5/20/2007	11:46:17	55	59.06	-0.021
5/20/2007	11:46:17	55.5	59.04	-0.02
5/20/2007	11:46:18	56	59.06	-0.019
5/20/2007	11:46:18	56.5	59.06	-0.019

5/20/2007	11:46:19	57	59.06	-0.019
5/20/2007	11:46:19	57.5	59.06	-0.019
5/20/2007	11:46:20	58	59.06	-0.019
5/20/2007	11:46:20	58.5	59.06	-0.019
5/20/2007	11:46:21	59	59.06	-0.021
5/20/2007	11:46:21	59.5	59.06	-0.019
5/20/2007	11:46:22	60	59.06	-0.019
5/20/2007	11:46:22	60.5	59.06	-0.019
5/20/2007	11:46:23	61	59.06	-0.019
5/20/2007	11:46:23	61.5	59.06	-0.019
5/20/2007	11:46:24	62	59.06	-0.019
5/20/2007	11:46:24	62.5	59.06	-0.019
5/20/2007	11:46:25	63	59.06	-0.019
5/20/2007	11:46:25	63.5	59.06	-0.019
5/20/2007	11:46:26	64	59.06	-0.021
5/20/2007	11:46:26	64.5	59.06	-0.019
5/20/2007	11:46:27	65	59.06	-0.019
5/20/2007	11:46:27	65.5	59.06	-0.019
5/20/2007	11:46:28	66	59.06	-0.019
5/20/2007	11:46:28	66.5	59.06	-0.019
5/20/2007	11:46:29	67	59.06	-0.019
5/20/2007	11:46:29	67.5	59.06	-0.019
5/20/2007	11:46:30	68	59.06	-0.019
5/20/2007	11:46:30	68.5	59.06	-0.019
5/20/2007	11:46:31	69	59.06	-0.019
5/20/2007	11:46:31	69.5	59.06	-0.019
5/20/2007	11:46:32	70	59.06	-0.019
5/20/2007	11:46:32	70.5	59.06	-0.021
5/20/2007	11:46:33	71	59.06	-0.019
5/20/2007	11:46:33	71.5	59.06	-0.019
5/20/2007	11:46:34	72	59.06	-0.019
5/20/2007	11:46:34	72.5	59.06	-0.019
5/20/2007	11:46:35	73	59.06	-0.019
5/20/2007	11:46:35	73.5	59.06	-0.019
5/20/2007	11:46:36	74	59.06	-0.019
5/20/2007	11:46:36	74.5	59.06	-0.019
5/20/2007	11:46:37	75	59.06	-0.019
5/20/2007	11:46:37	75.5	59.06	-0.019
5/20/2007	11:46:38	76	59.06	-0.019
5/20/2007	11:46:38	76.5	59.06	-0.019
5/20/2007	11:46:39	77	59.06	-0.019
5/20/2007	11:46:39	77.5	59.06	-0.019
5/20/2007	11:46:40	78	59.06	-0.019
5/20/2007	11:46:40	78.5	59.06	-0.019
5/20/2007	11:46:41	79	59.06	-0.019
5/20/2007	11:46:41	79.5	59.06	-0.019
5/20/2007	11:46:42	80	59.06	-0.019
5/20/2007	11:46:42	80.5	59.06	-0.019
5/20/2007	11:46:43	81	59.06	-0.019
5/20/2007	11:46:43	81.5	59.06	-0.019
5/20/2007	11:46:44	82	59.06	-0.019
5/20/2007	11:46:44	82.5	59.06	-0.019

5/20/2007	11:46:45	83	59.06	-0.019
5/20/2007	11:46:45	83.5	59.06	-0.019
5/20/2007	11:46:46	84	59.06	-0.019
5/20/2007	11:46:46	84.5	59.06	-0.019
5/20/2007	11:46:47	85	59.06	-0.019
5/20/2007	11:46:47	85.5	59.06	-0.019
5/20/2007	11:46:48	86	59.06	-0.019
5/20/2007	11:46:48	86.5	59.06	-0.017
5/20/2007	11:46:49	87	59.06	-0.019
5/20/2007	11:46:49	87.5	59.06	-0.019
5/20/2007	11:46:50	88	59.06	-0.019
5/20/2007	11:46:50	88.5	59.06	-0.019
5/20/2007	11:46:51	89	59.06	-0.019
5/20/2007	11:46:51	89.5	59.06	-0.017
5/20/2007	11:46:52	90	59.06	-0.017
5/20/2007	11:46:52	90.5	59.06	-0.019
5/20/2007	11:46:53	91	59.06	-0.017
5/20/2007	11:46:53	91.5	59.06	-0.019
5/20/2007	11:46:54	92	59.06	-0.017
5/20/2007	11:46:54	92.5	59.06	-0.019
5/20/2007	11:46:55	93	59.06	-0.017
5/20/2007	11:46:55	93.5	59.06	-0.017
5/20/2007	11:46:56	94	59.06	-0.019
5/20/2007	11:46:56	94.5	59.06	-0.019
5/20/2007	11:46:57	95	59.06	-0.019
5/20/2007	11:46:57	95.5	59.06	-0.017
5/20/2007	11:46:58	96	59.06	-0.019
5/20/2007	11:46:58	96.5	59.06	-0.017
5/20/2007	11:46:59	97	59.06	-0.019
5/20/2007	11:46:59	97.5	59.06	-0.019
5/20/2007	11:47:00	98	59.06	-0.019
5/20/2007	11:47:00	98.5	59.06	-0.017
5/20/2007	11:47:01	99	59.06	-0.019
5/20/2007	11:47:01	99.5	59.06	-0.019
5/20/2007	11:47:02	100	59.09	-0.017
5/20/2007	11:47:02	100.5	59.06	-0.017
5/20/2007	11:47:03	101	59.06	-0.019
5/20/2007	11:47:03	101.5	59.06	-0.017
5/20/2007	11:47:04	102	59.06	-0.019
5/20/2007	11:47:04	102.5	59.06	-0.019
5/20/2007	11:47:05	103	59.06	-0.019
5/20/2007	11:47:05	103.5	59.06	-0.019
5/20/2007	11:47:06	104	59.06	-0.019
5/20/2007	11:47:06	104.5	59.06	-0.019
5/20/2007	11:47:07	105	59.06	-0.019
5/20/2007	11:47:07	105.5	59.06	-0.019
5/20/2007	11:47:08	106	59.06	-0.017
5/20/2007	11:47:08	106.5	59.06	-0.019
5/20/2007	11:47:09	107	59.06	-0.017
5/20/2007	11:47:09	107.5	59.06	-0.017
5/20/2007	11:47:10	108	59.06	-0.017
5/20/2007	11:47:10	108.5	59.06	-0.017

5/20/2007	11:47:11	109	59.06	-0.019
5/20/2007	11:47:11	109.5	59.06	-0.017
5/20/2007	11:47:12	110	59.06	-0.019
5/20/2007	11:47:12	110.5	59.06	-0.019
5/20/2007	11:47:13	111	59.06	-0.017
5/20/2007	11:47:13	111.5	59.06	-0.017
5/20/2007	11:47:14	112	59.06	-0.019
5/20/2007	11:47:14	112.5	59.06	-0.019
5/20/2007	11:47:15	113	59.06	-0.017
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5/20/2007	11:47:16	114	59.06	-0.019
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5/20/2007	11:47:17	115	59.06	-0.019
5/20/2007	11:47:17	115.5	59.06	-0.017
5/20/2007	11:47:18	116	59.06	-0.019
5/20/2007	11:47:18	116.5	59.06	-0.017
5/20/2007	11:47:19	117	59.06	-0.017
5/20/2007	11:47:19	117.5	59.06	-0.017
5/20/2007	11:47:20	118	59.06	-0.019
5/20/2007	11:47:20	118.5	59.06	-0.019
5/20/2007	11:47:21	119	59.06	-0.017
5/20/2007	11:47:21	119.5	59.06	-0.017
5/20/2007	11:47:22	120	59.06	-0.017
5/20/2007	11:47:22	120.5	59.06	-0.019
5/20/2007	11:47:23	121	59.06	-0.017
5/20/2007	11:47:23	121.5	59.06	-0.017
5/20/2007	11:47:24	122	59.06	-0.017
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5/20/2007	11:47:25	123	59.06	-0.017
5/20/2007	11:47:25	123.5	59.06	-0.017
5/20/2007	11:47:26	124	59.06	-0.017
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5/20/2007	11:47:27	125	59.09	-0.017
5/20/2007	11:47:27	125.5	59.06	-0.017
5/20/2007	11:47:28	126	59.06	-0.017
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5/20/2007	11:47:29	127	59.06	-0.017
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5/20/2007	11:47:30	128	59.06	-0.017
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5/20/2007	11:47:31	129	59.06	-0.017
5/20/2007	11:47:31	129.5	59.06	-0.017
5/20/2007	11:47:32	130	59.06	-0.017
5/20/2007	11:47:32	130.5	59.06	-0.017
5/20/2007	11:47:33	131	59.06	-0.017
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5/20/2007	11:47:34	132	59.06	-0.017
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5/20/2007	11:47:35	133	59.06	-0.017
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5/20/2007	11:47:36	134	59.06	-0.017
5/20/2007	11:47:36	134.5	59.06	-0.017

5/20/2007	11:47:37	135	59.09	-0.017
5/20/2007	11:47:37	135.5	59.06	-0.017
5/20/2007	11:47:38	136	59.06	-0.015
5/20/2007	11:47:38	136.5	59.06	-0.017
5/20/2007	11:47:39	137	59.06	-0.017
5/20/2007	11:47:39	137.5	59.06	-0.017
5/20/2007	11:47:40	138	59.06	-0.017
5/20/2007	11:47:40	138.5	59.06	-0.017
5/20/2007	11:47:41	139	59.06	-0.015
5/20/2007	11:47:41	139.5	59.06	-0.017
5/20/2007	11:47:42	140	59.06	-0.017
5/20/2007	11:47:42	140.5	59.06	-0.017
5/20/2007	11:47:43	141	59.06	-0.017
5/20/2007	11:47:43	141.5	59.06	-0.017
5/20/2007	11:47:44	142	59.06	-0.015
5/20/2007	11:47:44	142.5	59.06	-0.017
5/20/2007	11:47:45	143	59.09	-0.017
5/20/2007	11:47:45	143.5	59.09	-0.017
5/20/2007	11:47:46	144	59.06	-0.017
5/20/2007	11:47:46	144.5	59.06	-0.017
5/20/2007	11:47:47	145	59.06	-0.017
5/20/2007	11:47:47	145.5	59.06	-0.017
5/20/2007	11:47:48	146	59.09	-0.017
5/20/2007	11:47:48	146.5	59.06	-0.017
5/20/2007	11:47:49	147	59.06	-0.017
5/20/2007	11:47:49	147.5	59.06	-0.017
5/20/2007	11:47:50	148	59.06	-0.017
5/20/2007	11:47:50	148.5	59.06	-0.017
5/20/2007	11:47:51	149	59.06	-0.017
5/20/2007	11:47:51	149.5	59.06	-0.017
5/20/2007	11:47:52	150	59.06	-0.019
5/20/2007	11:47:52	150.5	59.06	-0.017
5/20/2007	11:47:53	151	59.06	-0.019
5/20/2007	11:47:53	151.5	59.06	-0.017
5/20/2007	11:47:54	152	59.06	-0.017
5/20/2007	11:47:54	152.5	59.06	-0.017
5/20/2007	11:47:55	153	59.06	-0.017
5/20/2007	11:47:55	153.5	59.06	-0.017
5/20/2007	11:47:56	154	59.06	-0.017
5/20/2007	11:47:56	154.5	59.09	-0.017
5/20/2007	11:47:57	155	59.06	-0.017
5/20/2007	11:47:57	155.5	59.06	-0.017
5/20/2007	11:47:58	156	59.06	-0.017
5/20/2007	11:47:58	156.5	59.06	-0.017
5/20/2007	11:47:59	157	59.06	-0.017
5/20/2007	11:47:59	157.5	59.06	-0.017
5/20/2007	11:48:00	158	59.06	-0.017
5/20/2007	11:48:00	158.5	59.06	-0.017
5/20/2007	11:48:01	159	59.06	-0.017
5/20/2007	11:48:01	159.5	59.06	-0.017
5/20/2007	11:48:02	160	59.06	-0.017
5/20/2007	11:48:02	160.5	59.06	-0.017

5/20/2007	11:48:03	161	59.09	-0.017
5/20/2007	11:48:03	161.5	59.09	-0.017
5/20/2007	11:48:04	162	59.06	-0.017
5/20/2007	11:48:04	162.5	59.06	-0.017
5/20/2007	11:48:05	163	59.09	-0.017
5/20/2007	11:48:05	163.5	59.06	-0.017
5/20/2007	11:48:06	164	59.06	-0.017
5/20/2007	11:48:06	164.5	59.06	-0.017
5/20/2007	11:48:07	165	59.06	-0.017
5/20/2007	11:48:07	165.5	59.06	-0.017
5/20/2007	11:48:08	166	59.06	-0.017
5/20/2007	11:48:08	166.5	59.06	-0.017
5/20/2007	11:48:09	167	59.09	-0.017
5/20/2007	11:48:09	167.5	59.06	-0.017
5/20/2007	11:48:10	168	59.06	-0.017
5/20/2007	11:48:10	168.5	59.06	-0.017
5/20/2007	11:48:11	169	59.06	-0.017
5/20/2007	11:48:11	169.5	59.06	-0.017
5/20/2007	11:48:12	170	59.06	-0.017
5/20/2007	11:48:12	170.5	59.06	-0.015
5/20/2007	11:48:13	171	59.06	-0.017
5/20/2007	11:48:13	171.5	59.09	-0.017
5/20/2007	11:48:14	172	59.06	-0.017
5/20/2007	11:48:14	172.5	59.06	-0.017
5/20/2007	11:48:15	173	59.06	-0.017
5/20/2007	11:48:15	173.5	59.09	-0.017
5/20/2007	11:48:16	174	59.06	-0.017
5/20/2007	11:48:16	174.5	59.06	-0.015
5/20/2007	11:48:17	175	59.06	-0.017
5/20/2007	11:48:17	175.5	59.06	-0.015
5/20/2007	11:48:18	176	59.09	-0.017
5/20/2007	11:48:18	176.5	59.09	-0.017
5/20/2007	11:48:19	177	59.06	-0.017
5/20/2007	11:48:19	177.5	59.06	-0.015
5/20/2007	11:48:20	178	59.09	-0.017
5/20/2007	11:48:20	178.5	59.09	-0.017
5/20/2007	11:48:21	179	59.06	-0.017
5/20/2007	11:48:21	179.5	59.06	-0.017
5/20/2007	11:48:22	180	59.06	-0.017
5/20/2007	11:48:22	180.5	59.06	-0.015
5/20/2007	11:48:23	181	59.06	-0.015
5/20/2007	11:48:23	181.5	59.06	-0.017
5/20/2007	11:48:24	182	59.06	-0.017
5/20/2007	11:48:24	182.5	59.06	-0.017
5/20/2007	11:48:25	183	59.06	-0.017
5/20/2007	11:48:25	183.5	59.09	-0.017
5/20/2007	11:48:26	184	59.06	-0.015
5/20/2007	11:48:26	184.5	59.06	-0.015
5/20/2007	11:48:27	185	59.06	-0.017
5/20/2007	11:48:27	185.5	59.09	-0.015
5/20/2007	11:48:28	186	59.09	-0.017
5/20/2007	11:48:28	186.5	59.09	-0.015

5/20/2007	11:48:29	187	59.09	-0.017
5/20/2007	11:48:29	187.5	59.06	-0.017
5/20/2007	11:48:30	188	59.06	-0.015
5/20/2007	11:48:30	188.5	59.09	-0.015
5/20/2007	11:48:31	189	59.06	-0.015
5/20/2007	11:48:31	189.5	59.06	-0.015
5/20/2007	11:48:32	190	59.09	-0.015
5/20/2007	11:48:32	190.5	59.06	-0.015
5/20/2007	11:48:33	191	59.06	-0.015
5/20/2007	11:48:33	191.5	59.06	-0.015
5/20/2007	11:48:34	192	59.06	-0.015
5/20/2007	11:48:34	192.5	59.06	-0.015
5/20/2007	11:48:35	193	59.06	-0.015
5/20/2007	11:48:35	193.5	59.09	-0.015
5/20/2007	11:48:36	194	59.09	-0.015
5/20/2007	11:48:36	194.5	59.09	-0.015
5/20/2007	11:48:37	195	59.09	-0.017
5/20/2007	11:48:37	195.5	59.09	-0.015
5/20/2007	11:48:38	196	59.06	-0.015
5/20/2007	11:48:38	196.5	59.06	-0.015
5/20/2007	11:48:39	197	59.09	-0.015
5/20/2007	11:48:39	197.5	59.09	-0.015
5/20/2007	11:48:40	198	59.09	-0.015
5/20/2007	11:48:40	198.5	59.06	-0.015
5/20/2007	11:48:41	199	59.06	-0.015
5/20/2007	11:48:41	199.5	59.06	-0.015
5/20/2007	11:48:42	200	59.09	-0.015
5/20/2007	11:48:42	200.5	59.06	-0.015
5/20/2007	11:48:43	201	59.06	-0.015
5/20/2007	11:48:43	201.5	59.09	-0.015
5/20/2007	11:48:44	202	59.06	-0.015
5/20/2007	11:48:44	202.5	59.06	-0.015
5/20/2007	11:48:45	203	59.06	-0.015
5/20/2007	11:48:45	203.5	59.06	-0.015
5/20/2007	11:48:46	204	59.06	-0.015
5/20/2007	11:48:46	204.5	59.06	-0.015
5/20/2007	11:48:47	205	59.09	-0.015
5/20/2007	11:48:47	205.5	59.06	-0.015
5/20/2007	11:48:48	206	59.06	-0.015
5/20/2007	11:48:48	206.5	59.09	-0.015
5/20/2007	11:48:49	207	59.09	-0.015
5/20/2007	11:48:49	207.5	59.09	-0.015
5/20/2007	11:48:50	208	59.09	-0.015
5/20/2007	11:48:50	208.5	59.06	-0.015
5/20/2007	11:48:51	209	59.06	-0.015
5/20/2007	11:48:51	209.5	59.09	-0.015
5/20/2007	11:48:52	210	59.06	-0.015
5/20/2007	11:48:52	210.5	59.09	-0.015
5/20/2007	11:48:53	211	59.09	-0.015
5/20/2007	11:48:53	211.5	59.06	-0.015
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5/20/2007	11:48:57	215	59.06	-0.015
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5/20/2007	11:48:59	217	59.09	-0.015
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5/20/2007	11:49:00	218	59.09	-0.015
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5/20/2007	11:49:01	219	59.09	-0.015
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5/20/2007	11:49:02	220	59.09	-0.015
5/20/2007	11:49:02	220.5	59.06	-0.017
5/20/2007	11:49:03	221	59.09	-0.015
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5/20/2007	11:49:04	222	59.06	-0.015
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5/20/2007	11:49:05	223	59.09	-0.015
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5/20/2007	11:49:06	224	59.09	-0.015
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5/20/2007	11:49:07	225	59.06	-0.015
5/20/2007	11:49:07	225.5	59.06	-0.015
5/20/2007	11:49:08	226	59.06	-0.015
5/20/2007	11:49:08	226.5	59.09	-0.015
5/20/2007	11:49:09	227	59.06	-0.017
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5/20/2007	11:49:11	229.5	59.09	-0.015
5/20/2007	11:49:12	230	59.09	-0.015
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5/20/2007	11:49:18	236.5	59.06	-0.017
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5/20/2007	11:49:44	262	59.06	-0.017
5/20/2007	11:49:44	262.5	59.09	-0.015
5/20/2007	11:49:45	263	59.06	-0.015
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5/20/2007	11:49:49	267	59.09	-0.015
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5/20/2007	11:50:11	289	59.09	-0.015
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5/20/2007	11:50:12	290.5	59.06	-0.015

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5/20/2007	11:50:18	296	59.06	-0.013
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5/20/2007	11:50:19	297	59.09	-0.013
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5/20/2007	11:50:28	306	59.09	-0.013
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5/20/2007	11:50:32	310	59.09	-0.013
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5/20/2007	11:50:36	314	59.09	-0.013
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5/20/2007	11:50:42	320	59.06	-0.013
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5/20/2007	11:50:43	321	59.09	-0.013
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5/20/2007	11:50:45	323	59.09	-0.013
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5/20/2007	11:50:49	327	59.06	-0.013
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5/20/2007	11:50:57	335	59.06	-0.013
5/20/2007	11:50:57	335.5	59.09	-0.013
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5/20/2007	11:50:59	337	59.09	-0.013
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5/20/2007	11:51:01	339	59.09	-0.013
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5/20/2007	11:51:02	340	59.09	-0.013
5/20/2007	11:51:02	340.5	59.09	-0.013
5/20/2007	11:51:03	341	59.09	-0.013
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5/20/2007	11:51:04	342	59.09	-0.013
5/20/2007	11:51:04	342.5	59.09	-0.013

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5/20/2007	11:51:06	344	59.09	-0.013
5/20/2007	11:51:06	344.5	59.09	-0.013
5/20/2007	11:51:07	345	59.09	-0.013
5/20/2007	11:51:07	345.5	59.09	-0.013
5/20/2007	11:51:08	346	59.09	-0.013
5/20/2007	11:51:08	346.5	59.09	-0.013
5/20/2007	11:51:09	347	59.09	-0.013
5/20/2007	11:51:09	347.5	59.09	-0.013
5/20/2007	11:51:10	348	59.09	-0.013
5/20/2007	11:51:10	348.5	59.09	-0.013
5/20/2007	11:51:11	349	59.09	-0.015
5/20/2007	11:51:11	349.5	59.09	-0.013
5/20/2007	11:51:12	350	59.09	-0.013
5/20/2007	11:51:12	350.5	59.09	-0.015
5/20/2007	11:51:13	351	59.09	-0.013
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5/20/2007	11:51:14	352	59.09	-0.013
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5/20/2007	11:51:17	355	59.09	-0.013
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5/20/2007	11:51:18	356	59.09	-0.013
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5/20/2007	11:51:19	357	59.09	-0.013
5/20/2007	11:51:19	357.5	59.09	-0.013
5/20/2007	11:51:20	358	59.09	-0.013
5/20/2007	11:51:20	358.5	59.09	-0.013
5/20/2007	11:51:21	359	59.09	-0.013
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5/20/2007	11:51:22	360	59.09	-0.013
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5/20/2007	11:51:23	361	59.09	-0.013
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5/20/2007	11:51:24	362	59.09	-0.013
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5/20/2007	11:51:25	363	59.09	-0.013
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5/20/2007	11:51:26	364	59.09	-0.013
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5/20/2007	11:51:27	365	59.06	-0.013
5/20/2007	11:51:27	365.5	59.09	-0.013
5/20/2007	11:51:28	366	59.09	-0.013
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5/20/2007	11:51:29	367	59.09	-0.013
5/20/2007	11:51:29	367.5	59.09	-0.013
5/20/2007	11:51:30	368	59.09	-0.013
5/20/2007	11:51:30	368.5	59.09	-0.013

5/20/2007	11:51:31	369	59.09	-0.013
5/20/2007	11:51:31	369.5	59.09	-0.015
5/20/2007	11:51:32	370	59.09	-0.013
5/20/2007	11:51:32	370.5	59.09	-0.013
5/20/2007	11:51:33	371	59.09	-0.013
5/20/2007	11:51:33	371.5	59.09	-0.013
5/20/2007	11:51:34	372	59.09	-0.013
5/20/2007	11:51:34	372.5	59.09	-0.013
5/20/2007	11:51:35	373	59.09	-0.013
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5/20/2007	11:54:18	536	59.09	-0.017
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5/20/2007	11:54:19	537	59.09	-0.015
5/20/2007	11:54:19	537.5	59.09	-0.017
5/20/2007	11:54:20	538	59.09	-0.017
5/20/2007	11:54:20	538.5	59.09	-0.017
5/20/2007	11:54:21	539	59.09	-0.015
5/20/2007	11:54:21	539.5	59.09	-0.017
5/20/2007	11:54:22	540	59.09	-0.017
5/20/2007	11:54:22	540.5	59.09	-0.015
5/20/2007	11:54:23	541	59.09	-0.017
5/20/2007	11:54:23	541.5	59.09	-0.017
5/20/2007	11:54:24	542	59.09	-0.017
5/20/2007	11:54:24	542.5	59.09	-0.017
5/20/2007	11:54:25	543	59.09	-0.017
5/20/2007	11:54:25	543.5	59.09	-0.017
5/20/2007	11:54:26	544	59.09	-0.017
5/20/2007	11:54:26	544.5	59.09	-0.015
5/20/2007	11:54:27	545	59.09	-0.017
5/20/2007	11:54:27	545.5	59.09	-0.015
5/20/2007	11:54:28	546	59.09	-0.017
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5/20/2007	11:54:29	547	59.09	-0.017
5/20/2007	11:54:29	547.5	59.09	-0.017
5/20/2007	11:54:30	548	59.09	-0.015
5/20/2007	11:54:30	548.5	59.09	-0.017
5/20/2007	11:54:31	549	59.09	-0.017
5/20/2007	11:54:31	549.5	59.09	-0.015
5/20/2007	11:54:32	550	59.09	-0.017
5/20/2007	11:54:32	550.5	59.09	-0.015

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5/20/2007	11:54:33	551.5	59.09	-0.017
5/20/2007	11:54:34	552	59.09	-0.015
5/20/2007	11:54:34	552.5	59.09	-0.015
5/20/2007	11:54:35	553	59.09	-0.017
5/20/2007	11:54:35	553.5	59.09	-0.015
5/20/2007	11:54:36	554	59.09	-0.015
5/20/2007	11:54:36	554.5	59.09	-0.015
5/20/2007	11:54:37	555	59.09	-0.015
5/20/2007	11:54:37	555.5	59.09	-0.015
5/20/2007	11:54:38	556	59.09	-0.015
5/20/2007	11:54:38	556.5	59.09	-0.015
5/20/2007	11:54:39	557	59.09	-0.015
5/20/2007	11:54:39	557.5	59.09	-0.015
5/20/2007	11:54:40	558	59.09	-0.015
5/20/2007	11:54:40	558.5	59.09	-0.015
5/20/2007	11:54:41	559	59.09	-0.015
5/20/2007	11:54:41	559.5	59.09	-0.015
5/20/2007	11:54:42	560	59.09	-0.015
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5/20/2007	11:54:43	561	59.09	-0.015
5/20/2007	11:54:43	561.5	59.09	-0.015
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5/20/2007	11:54:45	563.5	59.09	-0.015
5/20/2007	11:54:46	564	59.09	-0.015
5/20/2007	11:54:46	564.5	59.09	-0.015
5/20/2007	11:54:47	565	59.09	-0.015
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5/20/2007	11:54:48	566	59.09	-0.015
5/20/2007	11:54:48	566.5	59.09	-0.015
5/20/2007	11:54:49	567	59.09	-0.015
5/20/2007	11:54:49	567.5	59.09	-0.015
5/20/2007	11:54:50	568	59.09	-0.015
5/20/2007	11:54:50	568.5	59.09	-0.015
5/20/2007	11:54:51	569	59.09	-0.017
5/20/2007	11:54:51	569.5	59.09	-0.015
5/20/2007	11:54:52	570	59.09	-0.015
5/20/2007	11:54:52	570.5	59.09	-0.015
5/20/2007	11:54:53	571	59.09	-0.015
5/20/2007	11:54:53	571.5	59.09	-0.015
5/20/2007	11:54:54	572	59.09	-0.015
5/20/2007	11:54:54	572.5	59.09	-0.015
5/20/2007	11:54:55	573	59.09	-0.015
5/20/2007	11:54:55	573.5	59.09	-0.015
5/20/2007	11:54:56	574	59.09	-0.015
5/20/2007	11:54:56	574.5	59.09	-0.015
5/20/2007	11:54:57	575	59.09	-0.015
5/20/2007	11:54:57	575.5	59.09	-0.015
5/20/2007	11:54:58	576	59.09	-0.015
5/20/2007	11:54:58	576.5	59.09	-0.015

5/20/2007	11:54:59	577	59.09	-0.017
5/20/2007	11:54:59	577.5	59.09	-0.015
5/20/2007	11:55:00	578	59.09	-0.015
5/20/2007	11:55:00	578.5	59.09	-0.015
5/20/2007	11:55:01	579	59.09	-0.015
5/20/2007	11:55:01	579.5	59.09	-0.015
5/20/2007	11:55:02	580	59.09	-0.015
5/20/2007	11:55:02	580.5	59.09	-0.015
5/20/2007	11:55:03	581	59.09	-0.015
5/20/2007	11:55:03	581.5	59.09	-0.015
5/20/2007	11:55:04	582	59.09	-0.015
5/20/2007	11:55:04	582.5	59.09	-0.015
5/20/2007	11:55:05	583	59.09	-0.015
5/20/2007	11:55:05	583.5	59.09	-0.015
5/20/2007	11:55:06	584	59.06	-0.015
5/20/2007	11:55:06	584.5	59.09	-0.015
5/20/2007	11:55:07	585	59.09	-0.015
5/20/2007	11:55:07	585.5	59.09	-0.015
5/20/2007	11:55:08	586	59.09	-0.015
5/20/2007	11:55:08	586.5	59.09	-0.015
5/20/2007	11:55:09	587	59.09	-0.015
5/20/2007	11:55:09	587.5	59.09	-0.015
5/20/2007	11:55:10	588	59.09	-0.015
5/20/2007	11:55:10	588.5	59.09	-0.015
5/20/2007	11:55:11	589	59.09	-0.015
5/20/2007	11:55:11	589.5	59.09	-0.015
5/20/2007	11:55:12	590	59.09	-0.015
5/20/2007	11:55:12	590.5	59.09	-0.015
5/20/2007	11:55:13	591	59.09	-0.015
5/20/2007	11:55:13	591.5	59.09	-0.015
5/20/2007	11:55:14	592	59.09	-0.015
5/20/2007	11:55:14	592.5	59.09	-0.015
5/20/2007	11:55:15	593	59.09	-0.015
5/20/2007	11:55:15	593.5	59.09	-0.015
5/20/2007	11:55:16	594	59.09	-0.015
5/20/2007	11:55:16	594.5	59.09	-0.015
5/20/2007	11:55:17	595	59.09	-0.015
5/20/2007	11:55:17	595.5	59.09	-0.015
5/20/2007	11:55:18	596	59.09	-0.017
5/20/2007	11:55:18	596.5	59.09	-0.015
5/20/2007	11:55:19	597	59.09	-0.015
5/20/2007	11:55:19	597.5	59.09	-0.015
5/20/2007	11:55:20	598	59.09	-0.015
5/20/2007	11:55:20	598.5	59.09	-0.015
5/20/2007	11:55:21	599	59.09	-0.015
5/20/2007	11:55:21	599.5	59.09	-0.015
5/20/2007	11:55:22	600	59.09	-0.015
5/20/2007	11:55:22	600.5	59.09	-0.015
5/20/2007	11:55:23	601	59.09	-0.015
5/20/2007	11:55:23	601.5	59.09	-0.015
5/20/2007	11:55:24	602	59.09	-0.015
5/20/2007	11:55:24	602.5	59.09	-0.015

5/20/2007	11:55:25	603	59.09	-0.015
5/20/2007	11:55:25	603.5	59.09	-0.013
5/20/2007	11:55:26	604	59.09	-0.013
5/20/2007	11:55:26	604.5	59.09	-0.013
5/20/2007	11:55:27	605	59.09	-0.013
5/20/2007	11:55:27	605.5	59.09	-0.013
5/20/2007	11:55:28	606	59.09	-0.015
5/20/2007	11:55:28	606.5	59.09	-0.013
5/20/2007	11:55:29	607	59.09	-0.013
5/20/2007	11:55:29	607.5	59.09	-0.013
5/20/2007	11:55:30	608	59.06	-0.013
5/20/2007	11:55:30	608.5	59.09	-0.011
5/20/2007	11:55:31	609	59.09	-0.013
5/20/2007	11:55:31	609.5	59.09	-0.013
5/20/2007	11:55:32	610	59.09	-0.013
5/20/2007	11:55:32	610.5	59.09	-0.013
5/20/2007	11:55:33	611	59.09	-0.013
5/20/2007	11:55:33	611.5	59.09	-0.013
5/20/2007	11:55:34	612	59.09	-0.013
5/20/2007	11:55:34	612.5	59.09	-0.013
5/20/2007	11:55:35	613	59.09	-0.013
5/20/2007	11:55:35	613.5	59.09	-0.013
5/20/2007	11:55:36	614	59.09	-0.013
5/20/2007	11:55:36	614.5	59.09	-0.013
5/20/2007	11:55:37	615	59.09	-0.013
5/20/2007	11:55:37	615.5	59.09	-0.013
5/20/2007	11:55:38	616	59.09	-0.013
5/20/2007	11:55:38	616.5	59.09	-0.013
5/20/2007	11:55:39	617	59.09	-0.013
5/20/2007	11:55:39	617.5	59.09	-0.013
5/20/2007	11:55:40	618	59.09	-0.013
5/20/2007	11:55:40	618.5	59.09	-0.015
5/20/2007	11:55:41	619	59.09	-0.013
5/20/2007	11:55:41	619.5	59.09	-0.013
5/20/2007	11:55:42	620	59.09	-0.015
5/20/2007	11:55:42	620.5	59.09	-0.015
5/20/2007	11:55:43	621	59.09	-0.015
5/20/2007	11:55:43	621.5	59.09	-0.013
5/20/2007	11:55:44	622	59.09	-0.015
5/20/2007	11:55:44	622.5	59.09	-0.015
5/20/2007	11:55:45	623	59.09	-0.015
5/20/2007	11:55:45	623.5	59.09	-0.013
5/20/2007	11:55:46	624	59.09	-0.015
5/20/2007	11:55:46	624.5	59.09	-0.015
5/20/2007	11:55:47	625	59.09	-0.015
5/20/2007	11:55:47	625.5	59.09	-0.013
5/20/2007	11:55:48	626	59.09	-0.015
5/20/2007	11:55:48	626.5	59.09	-0.015
5/20/2007	11:55:49	627	59.09	-0.015
5/20/2007	11:55:49	627.5	59.09	-0.013
5/20/2007	11:55:50	628	59.09	-0.013
5/20/2007	11:55:50	628.5	59.09	-0.015

5/20/2007	11:55:51	629	59.09	-0.013
5/20/2007	11:55:51	629.5	59.09	-0.013
5/20/2007	11:55:52	630	59.09	-0.015
5/20/2007	11:55:52	630.5	59.09	-0.013
5/20/2007	11:55:53	631	59.09	-0.013
5/20/2007	11:55:53	631.5	59.09	-0.015
5/20/2007	11:55:54	632	59.09	-0.015
5/20/2007	11:55:54	632.5	59.09	-0.013
5/20/2007	11:55:55	633	59.09	-0.013
5/20/2007	11:55:55	633.5	59.09	-0.013
5/20/2007	11:55:56	634	59.09	-0.013
5/20/2007	11:55:56	634.5	59.09	-0.013
5/20/2007	11:55:57	635	59.09	-0.013
5/20/2007	11:55:57	635.5	59.09	-0.013
5/20/2007	11:55:58	636	59.09	-0.013
5/20/2007	11:55:58	636.5	59.09	-0.013
5/20/2007	11:55:59	637	59.09	-0.013
5/20/2007	11:55:59	637.5	59.09	-0.013
5/20/2007	11:56:00	638	59.09	-0.013
5/20/2007	11:56:00	638.5	59.09	-0.013
5/20/2007	11:56:01	639	59.09	-0.013
5/20/2007	11:56:01	639.5	59.09	-0.013
5/20/2007	11:56:02	640	59.09	-0.013
5/20/2007	11:56:02	640.5	59.09	-0.013
5/20/2007	11:56:03	641	59.09	-0.013
5/20/2007	11:56:03	641.5	59.09	-0.013
5/20/2007	11:56:04	642	59.09	-0.015
5/20/2007	11:56:04	642.5	59.09	-0.015
5/20/2007	11:56:05	643	59.09	-0.015
5/20/2007	11:56:05	643.5	59.09	-0.015
5/20/2007	11:56:06	644	59.09	-0.013
5/20/2007	11:56:06	644.5	59.09	-0.015
5/20/2007	11:56:07	645	59.09	-0.013
5/20/2007	11:56:07	645.5	59.09	-0.013
5/20/2007	11:56:08	646	59.09	-0.015
5/20/2007	11:56:08	646.5	59.09	-0.013
5/20/2007	11:56:09	647	59.09	-0.015
5/20/2007	11:56:09	647.5	59.09	-0.013
5/20/2007	11:56:10	648	59.09	-0.015
5/20/2007	11:56:10	648.5	59.09	-0.015
5/20/2007	11:56:11	649	59.09	-0.013
5/20/2007	11:56:11	649.5	59.09	-0.013
5/20/2007	11:56:12	650	59.09	-0.013
5/20/2007	11:56:12	650.5	59.09	-0.013
5/20/2007	11:56:13	651	59.09	-0.013
5/20/2007	11:56:13	651.5	59.09	-0.013
5/20/2007	11:56:14	652	59.09	-0.013
5/20/2007	11:56:14	652.5	59.09	-0.013
5/20/2007	11:56:15	653	59.09	-0.013
5/20/2007	11:56:15	653.5	59.09	-0.013
5/20/2007	11:56:16	654	59.09	-0.013
5/20/2007	11:56:16	654.5	59.09	-0.013

5/20/2007	11:56:17	655	59.09	-0.015
5/20/2007	11:56:17	655.5	59.09	-0.013
5/20/2007	11:56:18	656	59.09	-0.013
5/20/2007	11:56:18	656.5	59.09	-0.013
5/20/2007	11:56:19	657	59.09	-0.013
5/20/2007	11:56:19	657.5	59.09	-0.013
5/20/2007	11:56:20	658	59.09	-0.013
5/20/2007	11:56:20	658.5	59.09	-0.013
5/20/2007	11:56:21	659	59.09	-0.015
5/20/2007	11:56:21	659.5	59.09	-0.015
5/20/2007	11:56:22	660	59.09	-0.015

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:30:42
Report from file: ...\\SN12694 2007-05-20 110948 Test #2.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #2

Test defined on: 5/20/2007 11:09:43
Test started on: 5/20/2007 11:09:48
Test stopped on: 5/20/2007 11:14:36

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 575

TOTAL DATA SAMPLES 575

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 9.188 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	11:09:48	0	58.86	0
5/20/2007	11:09:48	0.5	58.88	-0.009
5/20/2007	11:09:49	1	58.9	-0.012
5/20/2007	11:09:49	1.5	58.9	-0.014
5/20/2007	11:09:50	2	58.93	-0.014
5/20/2007	11:09:50	2.5	58.93	-0.016
5/20/2007	11:09:51	3	58.93	-0.016
5/20/2007	11:09:51	3.5	58.93	-0.016
5/20/2007	11:09:52	4	58.95	-0.015
5/20/2007	11:09:52	4.5	58.93	-0.018

5/20/2007	11:09:53	5	58.95	-0.017
5/20/2007	11:09:53	5.5	58.95	-0.017
5/20/2007	11:09:54	6	58.95	-0.015
5/20/2007	11:09:54	6.5	58.95	-0.017
5/20/2007	11:09:55	7	58.95	-0.017
5/20/2007	11:09:55	7.5	58.95	-0.017
5/20/2007	11:09:56	8	58.95	-0.017
5/20/2007	11:09:56	8.5	58.95	-0.017
5/20/2007	11:09:57	9	58.95	-0.019
5/20/2007	11:09:57	9.5	58.95	-0.017
5/20/2007	11:09:58	10	58.95	-0.017
5/20/2007	11:09:58	10.5	58.95	-0.017
5/20/2007	11:09:59	11	58.95	-0.017
5/20/2007	11:09:59	11.5	58.95	-0.017
5/20/2007	11:10:00	12	58.95	-0.017
5/20/2007	11:10:00	12.5	58.95	-0.019
5/20/2007	11:10:01	13	58.97	-0.016
5/20/2007	11:10:01	13.5	58.97	-0.018
5/20/2007	11:10:02	14	58.97	-0.018
5/20/2007	11:10:02	14.5	58.97	-0.016
5/20/2007	11:10:03	15	58.97	-0.016
5/20/2007	11:10:03	15.5	58.97	-0.016
5/20/2007	11:10:04	16	58.97	-0.016
5/20/2007	11:10:04	16.5	58.97	-0.016
5/20/2007	11:10:05	17	58.97	-0.018
5/20/2007	11:10:05	17.5	58.97	-0.016
5/20/2007	11:10:06	18	58.97	-0.018
5/20/2007	11:10:06	18.5	58.97	-0.018
5/20/2007	11:10:07	19	58.97	-0.018
5/20/2007	11:10:07	19.5	58.97	-0.016
5/20/2007	11:10:08	20	58.97	-0.018
5/20/2007	11:10:08	20.5	58.97	-0.018
5/20/2007	11:10:09	21	58.97	-0.018
5/20/2007	11:10:09	21.5	58.97	-0.018
5/20/2007	11:10:10	22	58.97	-0.018
5/20/2007	11:10:10	22.5	58.97	-0.018
5/20/2007	11:10:11	23	58.97	-0.018
5/20/2007	11:10:11	23.5	58.97	-0.018
5/20/2007	11:10:12	24	59	-0.016
5/20/2007	11:10:12	24.5	59	-0.018
5/20/2007	11:10:13	25	59	-0.018
5/20/2007	11:10:13	25.5	59	-0.018
5/20/2007	11:10:14	26	59	-0.018
5/20/2007	11:10:14	26.5	59	-0.016
5/20/2007	11:10:15	27	59	-0.018
5/20/2007	11:10:15	27.5	59	-0.018
5/20/2007	11:10:16	28	59	-0.018
5/20/2007	11:10:16	28.5	59	-0.016
5/20/2007	11:10:17	29	59	-0.018
5/20/2007	11:10:17	29.5	59	-0.016
5/20/2007	11:10:18	30	59	-0.016
5/20/2007	11:10:18	30.5	59	-0.018

5/20/2007	11:10:19	31	59	-0.016
5/20/2007	11:10:19	31.5	59	-0.018
5/20/2007	11:10:20	32	59	-0.016
5/20/2007	11:10:20	32.5	59	-0.018
5/20/2007	11:10:21	33	59	-0.018
5/20/2007	11:10:21	33.5	59	-0.018
5/20/2007	11:10:22	34	59	-0.018
5/20/2007	11:10:22	34.5	59.02	-0.017
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5/20/2007	11:10:24	36	59	-0.018
5/20/2007	11:10:24	36.5	59.02	-0.017
5/20/2007	11:10:25	37	59.02	-0.017
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5/20/2007	11:10:29	41	59.02	-0.017
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5/20/2007	11:10:51	63.5	59.04	-0.017
5/20/2007	11:10:52	64	59.04	0.081
5/20/2007	11:10:52	64.5	59.04	0.549
5/20/2007	11:10:53	65	59.04	0.541
5/20/2007	11:10:53	65.5	59.04	0.244
5/20/2007	11:10:54	66	59.04	0.098
5/20/2007	11:10:54	66.5	59.04	0.05
5/20/2007	11:10:55	67	59.04	0.033
5/20/2007	11:10:55	67.5	59.04	0.024
5/20/2007	11:10:56	68	59.04	0.014
5/20/2007	11:10:56	68.5	59.04	0.008
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5/20/2007	11:11:23	95	59.06	-0.024
5/20/2007	11:11:23	95.5	59.06	-0.026
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5/20/2007	11:11:33	105	59.06	-0.026
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5/20/2007	11:11:34	106	59.06	-0.026
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5/20/2007	11:12:34	166	59.06	-0.022
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5/20/2007	11:12:40	172	59.06	-0.022
5/20/2007	11:12:40	172.5	59.06	-0.024
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5/20/2007	11:12:42	174	59.06	-0.022
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5/20/2007	11:12:43	175	59.06	-0.022
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5/20/2007	11:12:44	176	59.06	-0.022
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5/20/2007	11:12:45	177	59.06	-0.022
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5/20/2007	11:12:52	184	59.06	-0.022
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5/20/2007	11:12:57	189	59.06	-0.024
5/20/2007	11:12:57	189.5	59.06	-0.022
5/20/2007	11:12:58	190	59.06	-0.022
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5/20/2007	11:13:00	192.5	59.06	-0.024
5/20/2007	11:13:01	193	59.06	-0.022
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5/20/2007	11:13:02	194	59.06	-0.022
5/20/2007	11:13:02	194.5	59.06	-0.022
5/20/2007	11:13:03	195	59.06	-0.022
5/20/2007	11:13:03	195.5	59.06	-0.022
5/20/2007	11:13:04	196	59.06	-0.022
5/20/2007	11:13:04	196.5	59.06	-0.022
5/20/2007	11:13:05	197	59.06	-0.022
5/20/2007	11:13:05	197.5	59.06	-0.022
5/20/2007	11:13:06	198	59.06	-0.022
5/20/2007	11:13:06	198.5	59.06	-0.02
5/20/2007	11:13:07	199	59.06	-0.022
5/20/2007	11:13:07	199.5	59.06	-0.022
5/20/2007	11:13:08	200	59.06	-0.022
5/20/2007	11:13:08	200.5	59.06	-0.022
5/20/2007	11:13:09	201	59.06	-0.022
5/20/2007	11:13:09	201.5	59.06	-0.02
5/20/2007	11:13:10	202	59.06	-0.022
5/20/2007	11:13:10	202.5	59.06	-0.022
5/20/2007	11:13:11	203	59.06	-0.022
5/20/2007	11:13:11	203.5	59.06	-0.022
5/20/2007	11:13:12	204	59.06	-0.02
5/20/2007	11:13:12	204.5	59.06	-0.02
5/20/2007	11:13:13	205	59.06	-0.02
5/20/2007	11:13:13	205.5	59.06	-0.022
5/20/2007	11:13:14	206	59.06	-0.02
5/20/2007	11:13:14	206.5	59.06	-0.022
5/20/2007	11:13:15	207	59.06	-0.02
5/20/2007	11:13:15	207.5	59.06	-0.02
5/20/2007	11:13:16	208	59.09	-0.019
5/20/2007	11:13:16	208.5	59.06	-0.02
5/20/2007	11:13:17	209	59.06	-0.022
5/20/2007	11:13:17	209.5	59.06	-0.022
5/20/2007	11:13:18	210	59.06	-0.02
5/20/2007	11:13:18	210.5	59.06	-0.022
5/20/2007	11:13:19	211	59.06	-0.022
5/20/2007	11:13:19	211.5	59.06	-0.02
5/20/2007	11:13:20	212	59.06	-0.02
5/20/2007	11:13:20	212.5	59.06	-0.022

5/20/2007	11:13:21	213	59.06	-0.022
5/20/2007	11:13:21	213.5	59.06	-0.022
5/20/2007	11:13:22	214	59.06	-0.02
5/20/2007	11:13:22	214.5	59.06	-0.02
5/20/2007	11:13:23	215	59.06	-0.022
5/20/2007	11:13:23	215.5	59.06	-0.02
5/20/2007	11:13:24	216	59.09	-0.019
5/20/2007	11:13:24	216.5	59.06	-0.02
5/20/2007	11:13:25	217	59.06	-0.02
5/20/2007	11:13:25	217.5	59.06	-0.02
5/20/2007	11:13:26	218	59.06	-0.02
5/20/2007	11:13:26	218.5	59.06	-0.02
5/20/2007	11:13:27	219	59.06	-0.02
5/20/2007	11:13:27	219.5	59.06	-0.02
5/20/2007	11:13:28	220	59.06	-0.02
5/20/2007	11:13:28	220.5	59.06	-0.022
5/20/2007	11:13:29	221	59.09	-0.021
5/20/2007	11:13:29	221.5	59.06	-0.022
5/20/2007	11:13:30	222	59.06	-0.022
5/20/2007	11:13:30	222.5	59.06	-0.02
5/20/2007	11:13:31	223	59.06	-0.022
5/20/2007	11:13:31	223.5	59.06	-0.02
5/20/2007	11:13:32	224	59.06	-0.022
5/20/2007	11:13:32	224.5	59.06	-0.02
5/20/2007	11:13:33	225	59.06	-0.02
5/20/2007	11:13:33	225.5	59.06	-0.02
5/20/2007	11:13:34	226	59.06	-0.02
5/20/2007	11:13:34	226.5	59.06	-0.02
5/20/2007	11:13:35	227	59.06	-0.02
5/20/2007	11:13:35	227.5	59.06	-0.022
5/20/2007	11:13:36	228	59.06	-0.02
5/20/2007	11:13:36	228.5	59.06	-0.02
5/20/2007	11:13:37	229	59.06	-0.02
5/20/2007	11:13:37	229.5	59.06	-0.02
5/20/2007	11:13:38	230	59.06	-0.02
5/20/2007	11:13:38	230.5	59.06	-0.022
5/20/2007	11:13:39	231	59.06	-0.02
5/20/2007	11:13:39	231.5	59.09	-0.019
5/20/2007	11:13:40	232	59.09	-0.019
5/20/2007	11:13:40	232.5	59.06	-0.02
5/20/2007	11:13:41	233	59.06	-0.022
5/20/2007	11:13:41	233.5	59.06	-0.02
5/20/2007	11:13:42	234	59.09	-0.019
5/20/2007	11:13:42	234.5	59.06	-0.02
5/20/2007	11:13:43	235	59.09	-0.019
5/20/2007	11:13:43	235.5	59.06	-0.022
5/20/2007	11:13:44	236	59.06	-0.02
5/20/2007	11:13:44	236.5	59.09	-0.019
5/20/2007	11:13:45	237	59.09	-0.019
5/20/2007	11:13:45	237.5	59.09	-0.019
5/20/2007	11:13:46	238	59.09	-0.019
5/20/2007	11:13:46	238.5	59.09	-0.019

5/20/2007	11:13:47	239	59.09	-0.019
5/20/2007	11:13:47	239.5	59.09	-0.019
5/20/2007	11:13:48	240	59.06	-0.02
5/20/2007	11:13:48	240.5	59.09	-0.019
5/20/2007	11:13:49	241	59.06	-0.02
5/20/2007	11:13:49	241.5	59.06	-0.02
5/20/2007	11:13:50	242	59.06	-0.02
5/20/2007	11:13:50	242.5	59.06	-0.02
5/20/2007	11:13:51	243	59.09	-0.019
5/20/2007	11:13:51	243.5	59.06	-0.02
5/20/2007	11:13:52	244	59.06	-0.02
5/20/2007	11:13:52	244.5	59.09	-0.019
5/20/2007	11:13:53	245	59.09	-0.019
5/20/2007	11:13:53	245.5	59.09	-0.019
5/20/2007	11:13:54	246	59.09	-0.019
5/20/2007	11:13:54	246.5	59.09	-0.019
5/20/2007	11:13:55	247	59.09	-0.019
5/20/2007	11:13:55	247.5	59.09	-0.019
5/20/2007	11:13:56	248	59.06	-0.02
5/20/2007	11:13:56	248.5	59.06	-0.02
5/20/2007	11:13:57	249	59.06	-0.02
5/20/2007	11:13:57	249.5	59.06	-0.02
5/20/2007	11:13:58	250	59.09	-0.019
5/20/2007	11:13:58	250.5	59.09	-0.019
5/20/2007	11:13:59	251	59.09	-0.019
5/20/2007	11:13:59	251.5	59.09	-0.019
5/20/2007	11:14:00	252	59.09	-0.019
5/20/2007	11:14:00	252.5	59.09	-0.019
5/20/2007	11:14:01	253	59.06	-0.02
5/20/2007	11:14:01	253.5	59.09	-0.019
5/20/2007	11:14:02	254	59.06	-0.02
5/20/2007	11:14:02	254.5	59.09	-0.019
5/20/2007	11:14:03	255	59.06	-0.02
5/20/2007	11:14:03	255.5	59.06	-0.022
5/20/2007	11:14:04	256	59.09	-0.019
5/20/2007	11:14:04	256.5	59.09	-0.019
5/20/2007	11:14:05	257	59.09	-0.019
5/20/2007	11:14:05	257.5	59.06	-0.02
5/20/2007	11:14:06	258	59.06	-0.02
5/20/2007	11:14:06	258.5	59.06	-0.02
5/20/2007	11:14:07	259	59.09	-0.019
5/20/2007	11:14:07	259.5	59.06	-0.02
5/20/2007	11:14:08	260	59.06	-0.02
5/20/2007	11:14:08	260.5	59.06	-0.02
5/20/2007	11:14:09	261	59.09	-0.019
5/20/2007	11:14:09	261.5	59.06	-0.02
5/20/2007	11:14:10	262	59.06	-0.02
5/20/2007	11:14:10	262.5	59.09	-0.019
5/20/2007	11:14:11	263	59.06	-0.02
5/20/2007	11:14:11	263.5	59.06	-0.02
5/20/2007	11:14:12	264	59.06	-0.022
5/20/2007	11:14:12	264.5	59.09	-0.019

5/20/2007	11:14:13	265	59.06	-0.022
5/20/2007	11:14:13	265.5	59.06	-0.022
5/20/2007	11:14:14	266	59.06	-0.02
5/20/2007	11:14:14	266.5	59.09	-0.021
5/20/2007	11:14:15	267	59.06	-0.022
5/20/2007	11:14:15	267.5	59.09	-0.021
5/20/2007	11:14:16	268	59.09	-0.021
5/20/2007	11:14:16	268.5	59.09	-0.021
5/20/2007	11:14:17	269	59.09	-0.019
5/20/2007	11:14:17	269.5	59.09	-0.019
5/20/2007	11:14:18	270	59.09	-0.019
5/20/2007	11:14:18	270.5	59.09	-0.019
5/20/2007	11:14:19	271	59.09	-0.021
5/20/2007	11:14:19	271.5	59.09	-0.019
5/20/2007	11:14:20	272	59.06	-0.02
5/20/2007	11:14:20	272.5	59.09	-0.019
5/20/2007	11:14:21	273	59.06	-0.02
5/20/2007	11:14:21	273.5	59.09	-0.019
5/20/2007	11:14:22	274	59.09	-0.019
5/20/2007	11:14:22	274.5	59.06	-0.02
5/20/2007	11:14:23	275	59.06	-0.02
5/20/2007	11:14:23	275.5	59.09	-0.019
5/20/2007	11:14:24	276	59.06	-0.02
5/20/2007	11:14:24	276.5	59.09	-0.019
5/20/2007	11:14:25	277	59.06	-0.02
5/20/2007	11:14:25	277.5	59.09	-0.019
5/20/2007	11:14:26	278	59.09	-0.019
5/20/2007	11:14:26	278.5	59.06	-0.02
5/20/2007	11:14:27	279	59.09	-0.019
5/20/2007	11:14:27	279.5	59.09	-0.019
5/20/2007	11:14:28	280	59.09	-0.019
5/20/2007	11:14:28	280.5	59.09	-0.021
5/20/2007	11:14:29	281	59.09	-0.019
5/20/2007	11:14:29	281.5	59.09	-0.019
5/20/2007	11:14:30	282	59.09	-0.019
5/20/2007	11:14:30	282.5	59.09	-0.019
5/20/2007	11:14:31	283	59.09	-0.019
5/20/2007	11:14:31	283.5	59.09	-0.019
5/20/2007	11:14:32	284	59.09	-0.019
5/20/2007	11:14:32	284.5	59.06	-0.02
5/20/2007	11:14:33	285	59.09	-0.019
5/20/2007	11:14:33	285.5	59.06	-0.02
5/20/2007	11:14:34	286	59.09	-0.021
5/20/2007	11:14:34	286.5	59.09	-0.019
5/20/2007	11:14:35	287	59.06	-0.02

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:34:22
 Report from file: ...\\SN12694 2007-05-20 112003 Test #3.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #3

Test defined on: 5/20/2007 11:19:53
 Test started on: 5/20/2007 11:20:03
 Test stopped on: 5/20/2007 11:44:16

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 2906

TOTAL DATA SAMPLES 2906

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 9.19 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	11:20:03	0	58.79	0
5/20/2007	11:20:03	0.5	58.84	-0.01
5/20/2007	11:20:04	1	58.84	-0.012
5/20/2007	11:20:04	1.5	58.86	-0.014
5/20/2007	11:20:05	2	58.86	-0.014
5/20/2007	11:20:05	2.5	58.86	-0.016
5/20/2007	11:20:06	3	58.88	-0.015
5/20/2007	11:20:06	3.5	58.88	-0.015
5/20/2007	11:20:07	4	58.88	-0.017
5/20/2007	11:20:07	4.5	58.88	-0.017

5/20/2007	11:20:08	5	58.88	-0.017
5/20/2007	11:20:08	5.5	58.88	-0.017
5/20/2007	11:20:09	6	58.88	-0.019
5/20/2007	11:20:09	6.5	58.88	-0.017
5/20/2007	11:20:10	7	58.88	-0.017
5/20/2007	11:20:10	7.5	58.9	-0.016
5/20/2007	11:20:11	8	58.88	-0.019
5/20/2007	11:20:11	8.5	58.9	-0.018
5/20/2007	11:20:12	9	58.9	-0.018
5/20/2007	11:20:12	9.5	58.9	-0.016
5/20/2007	11:20:13	10	58.9	-0.016
5/20/2007	11:20:13	10.5	58.9	-0.018
5/20/2007	11:20:14	11	58.9	-0.018
5/20/2007	11:20:14	11.5	58.9	-0.018
5/20/2007	11:20:15	12	58.9	-0.018
5/20/2007	11:20:15	12.5	58.9	-0.018
5/20/2007	11:20:16	13	58.9	-0.018
5/20/2007	11:20:16	13.5	58.9	-0.018
5/20/2007	11:20:17	14	58.9	-0.018
5/20/2007	11:20:17	14.5	58.9	-0.018
5/20/2007	11:20:18	15	58.9	-0.018
5/20/2007	11:20:18	15.5	58.9	-0.018
5/20/2007	11:20:19	16	58.9	-0.018
5/20/2007	11:20:19	16.5	58.9	-0.018
5/20/2007	11:20:20	17	58.9	-0.018
5/20/2007	11:20:20	17.5	58.93	-0.018
5/20/2007	11:20:21	18	58.93	-0.018
5/20/2007	11:20:21	18.5	58.93	-0.018
5/20/2007	11:20:22	19	58.93	-0.018
5/20/2007	11:20:22	19.5	58.93	-0.018
5/20/2007	11:20:23	20	58.93	-0.018
5/20/2007	11:20:23	20.5	58.93	-0.018
5/20/2007	11:20:24	21	58.93	-0.018
5/20/2007	11:20:24	21.5	58.93	-0.018
5/20/2007	11:20:25	22	58.93	-0.018
5/20/2007	11:20:25	22.5	58.93	-0.018
5/20/2007	11:20:26	23	58.93	-0.02
5/20/2007	11:20:26	23.5	58.93	-0.018
5/20/2007	11:20:27	24	58.93	-0.018
5/20/2007	11:20:27	24.5	58.93	-0.018
5/20/2007	11:20:28	25	58.93	-0.02
5/20/2007	11:20:28	25.5	58.93	-0.02
5/20/2007	11:20:29	26	58.93	-0.02
5/20/2007	11:20:29	26.5	58.93	-0.02
5/20/2007	11:20:30	27	58.93	-0.018
5/20/2007	11:20:30	27.5	58.93	-0.018
5/20/2007	11:20:31	28	58.95	-0.019
5/20/2007	11:20:31	28.5	58.95	-0.025
5/20/2007	11:20:32	29	58.95	-0.025
5/20/2007	11:20:32	29.5	58.95	-0.027
5/20/2007	11:20:33	30	58.95	-0.027
5/20/2007	11:20:33	30.5	58.95	-0.027

5/20/2007	11:20:34	31	58.95	-0.029
5/20/2007	11:20:34	31.5	58.95	-0.029
5/20/2007	11:20:35	32	58.95	-0.029
5/20/2007	11:20:35	32.5	58.95	-0.031
5/20/2007	11:20:36	33	58.95	-0.033
5/20/2007	11:20:36	33.5	58.95	-0.125
5/20/2007	11:20:37	34	58.95	-0.284
5/20/2007	11:20:37	34.5	58.95	-0.337
5/20/2007	11:20:38	35	58.95	-0.224
5/20/2007	11:20:38	35.5	58.95	-0.426
5/20/2007	11:20:39	36	58.95	-0.284
5/20/2007	11:20:39	36.5	58.95	-0.023
5/20/2007	11:20:40	37	58.95	-0.075
5/20/2007	11:20:40	37.5	58.95	-0.084
5/20/2007	11:20:41	38	58.95	-0.075
5/20/2007	11:20:41	38.5	58.95	-0.063
5/20/2007	11:20:42	39	58.97	-0.055
5/20/2007	11:20:42	39.5	58.95	-0.052
5/20/2007	11:20:43	40	58.97	-0.049
5/20/2007	11:20:43	40.5	58.97	-0.047
5/20/2007	11:20:44	41	58.97	-0.047
5/20/2007	11:20:44	41.5	58.97	-0.045
5/20/2007	11:20:45	42	58.97	-0.044
5/20/2007	11:20:45	42.5	58.97	-0.044
5/20/2007	11:20:46	43	58.97	-0.042
5/20/2007	11:20:46	43.5	58.97	-0.042
5/20/2007	11:20:47	44	58.97	-0.04
5/20/2007	11:20:47	44.5	58.97	-0.04
5/20/2007	11:20:48	45	58.97	-0.04
5/20/2007	11:20:48	45.5	58.97	-0.04
5/20/2007	11:20:49	46	58.97	-0.038
5/20/2007	11:20:49	46.5	58.97	-0.038
5/20/2007	11:20:50	47	58.97	-0.038
5/20/2007	11:20:50	47.5	58.97	-0.036
5/20/2007	11:20:51	48	58.97	-0.038
5/20/2007	11:20:51	48.5	58.97	-0.038
5/20/2007	11:20:52	49	58.97	-0.036
5/20/2007	11:20:52	49.5	58.97	-0.036
5/20/2007	11:20:53	50	58.97	-0.036
5/20/2007	11:20:53	50.5	58.97	-0.036
5/20/2007	11:20:54	51	58.97	-0.036
5/20/2007	11:20:54	51.5	58.97	-0.034
5/20/2007	11:20:55	52	58.97	-0.036
5/20/2007	11:20:55	52.5	58.97	-0.034
5/20/2007	11:20:56	53	58.97	-0.034
5/20/2007	11:20:56	53.5	58.97	-0.034
5/20/2007	11:20:57	54	58.97	-0.034
5/20/2007	11:20:57	54.5	58.97	-0.036
5/20/2007	11:20:58	55	58.97	-0.034
5/20/2007	11:20:58	55.5	58.97	-0.034
5/20/2007	11:20:59	56	59	-0.033
5/20/2007	11:20:59	56.5	59	-0.033

5/20/2007	11:21:00	57	59	-0.033
5/20/2007	11:21:00	57.5	58.97	-0.034
5/20/2007	11:21:01	58	59	-0.033
5/20/2007	11:21:01	58.5	59	-0.033
5/20/2007	11:21:02	59	59	-0.033
5/20/2007	11:21:02	59.5	59	-0.035
5/20/2007	11:21:03	60	59	-0.033
5/20/2007	11:21:03	60.5	59	-0.033
5/20/2007	11:21:04	61	59	-0.033
5/20/2007	11:21:04	61.5	59	-0.033
5/20/2007	11:21:05	62	59	-0.033
5/20/2007	11:21:05	62.5	59	-0.033
5/20/2007	11:21:06	63	59	-0.033
5/20/2007	11:21:06	63.5	59	-0.035
5/20/2007	11:21:07	64	59	-0.033
5/20/2007	11:21:07	64.5	59	-0.033
5/20/2007	11:21:08	65	59	-0.033
5/20/2007	11:21:08	65.5	59	-0.033
5/20/2007	11:21:09	66	59	-0.033
5/20/2007	11:21:09	66.5	59	-0.033
5/20/2007	11:21:10	67	59	-0.033
5/20/2007	11:21:10	67.5	59	-0.031
5/20/2007	11:21:11	68	59	-0.033
5/20/2007	11:21:11	68.5	59	-0.033
5/20/2007	11:21:12	69	59	-0.033
5/20/2007	11:21:12	69.5	59	-0.033
5/20/2007	11:21:13	70	59	-0.033
5/20/2007	11:21:13	70.5	59	-0.033
5/20/2007	11:21:14	71	59	-0.031
5/20/2007	11:21:14	71.5	59	-0.033
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5/20/2007	11:21:15	72.5	59	-0.033
5/20/2007	11:21:16	73	59	-0.031
5/20/2007	11:21:16	73.5	59	-0.031
5/20/2007	11:21:17	74	59	-0.033
5/20/2007	11:21:17	74.5	59	-0.033
5/20/2007	11:21:18	75	59.02	-0.033
5/20/2007	11:21:18	75.5	59	-0.033
5/20/2007	11:21:19	76	59	-0.031
5/20/2007	11:21:19	76.5	59	-0.031
5/20/2007	11:21:20	77	59.02	-0.031
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5/20/2007	11:21:21	78	59	-0.031
5/20/2007	11:21:21	78.5	59.02	-0.031
5/20/2007	11:21:22	79	59.02	-0.031
5/20/2007	11:21:22	79.5	59.02	-0.031
5/20/2007	11:21:23	80	59.02	-0.031
5/20/2007	11:21:23	80.5	59.02	-0.031
5/20/2007	11:21:24	81	59.02	-0.031
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5/20/2007	11:21:25	82	59.02	-0.031
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5/20/2007	11:21:27	84	59.02	-0.031
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5/20/2007	11:21:28	85	59.02	-0.031
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5/20/2007	11:21:31	88	59.02	-0.031
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5/20/2007	11:21:32	89	59.02	-0.031
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5/20/2007	11:21:33	90	59.02	-0.031
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5/20/2007	11:21:34	91	59.02	-0.031
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5/20/2007	11:21:36	93	59.02	-0.031
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5/20/2007	11:21:37	94	59.02	-0.031
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5/20/2007	11:21:39	96	59.02	-0.031
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5/20/2007	11:21:40	97	59.02	-0.031
5/20/2007	11:21:40	97.5	59.02	-0.029
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5/20/2007	11:21:45	102	59.02	-0.029
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5/20/2007	11:21:47	104.5	59.02	-0.031
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5/20/2007	11:21:48	105.5	59.02	-0.029
5/20/2007	11:21:49	106	59.02	-0.029
5/20/2007	11:21:49	106.5	59.02	-0.029
5/20/2007	11:21:50	107	59.02	-0.029
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5/20/2007	11:21:59	116	59.04	-0.03
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5/20/2007	11:22:07	124.5	59.04	-0.028
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5/20/2007	11:22:10	127	59.04	-0.028
5/20/2007	11:22:10	127.5	59.04	-0.027
5/20/2007	11:22:11	128	59.04	-0.028
5/20/2007	11:22:11	128.5	59.04	-0.028
5/20/2007	11:22:12	129	59.04	-0.028
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5/20/2007	11:22:13	130	59.04	-0.027
5/20/2007	11:22:13	130.5	59.04	-0.028
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5/20/2007	11:22:21	138	59.04	-0.028
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5/20/2007	11:22:22	139	59.04	-0.028
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5/20/2007	11:22:25	142.5	59.04	-0.027
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5/20/2007	11:22:33	150	59.04	-0.028
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5/20/2007	11:22:34	151	59.04	-0.027
5/20/2007	11:22:34	151.5	59.04	-0.027
5/20/2007	11:22:35	152	59.04	-0.027
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5/20/2007	11:22:40	157	59.06	-0.026
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5/20/2007	11:22:42	159	59.04	-0.027
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5/20/2007	11:22:43	160.5	59.04	-0.027

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5/20/2007	11:22:47	164	59.04	-0.027
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5/20/2007	11:22:48	165	59.04	-0.027
5/20/2007	11:22:48	165.5	59.06	-0.028
5/20/2007	11:22:49	166	59.04	-0.028
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5/20/2007	11:22:50	167	59.04	-0.027
5/20/2007	11:22:50	167.5	59.04	-0.028
5/20/2007	11:22:51	168	59.04	-0.028
5/20/2007	11:22:51	168.5	59.06	-0.026
5/20/2007	11:22:52	169	59.04	-0.028
5/20/2007	11:22:52	169.5	59.06	-0.028
5/20/2007	11:22:53	170	59.06	-0.028
5/20/2007	11:22:53	170.5	59.04	-0.027
5/20/2007	11:22:54	171	59.06	-0.026
5/20/2007	11:22:54	171.5	59.06	-0.026
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5/20/2007	11:22:55	172.5	59.06	-0.028
5/20/2007	11:22:56	173	59.06	-0.028
5/20/2007	11:22:56	173.5	59.06	-0.026
5/20/2007	11:22:57	174	59.06	-0.028
5/20/2007	11:22:57	174.5	59.06	-0.028
5/20/2007	11:22:58	175	59.06	-0.028
5/20/2007	11:22:58	175.5	59.06	-0.028
5/20/2007	11:22:59	176	59.06	-0.028
5/20/2007	11:22:59	176.5	59.04	-0.028
5/20/2007	11:23:00	177	59.04	-0.028
5/20/2007	11:23:00	177.5	59.06	-0.028
5/20/2007	11:23:01	178	59.06	-0.028
5/20/2007	11:23:01	178.5	59.06	-0.026
5/20/2007	11:23:02	179	59.06	-0.028
5/20/2007	11:23:02	179.5	59.06	-0.028
5/20/2007	11:23:03	180	59.06	-0.028
5/20/2007	11:23:03	180.5	59.06	-0.028
5/20/2007	11:23:04	181	59.06	-0.028
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5/20/2007	11:23:05	182	59.06	-0.028
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5/20/2007	11:23:06	183	59.06	-0.028
5/20/2007	11:23:06	183.5	59.06	-0.028
5/20/2007	11:23:07	184	59.06	-0.026
5/20/2007	11:23:07	184.5	59.06	-0.026
5/20/2007	11:23:08	185	59.06	-0.026
5/20/2007	11:23:08	185.5	59.06	-0.026
5/20/2007	11:23:09	186	59.06	-0.026
5/20/2007	11:23:09	186.5	59.06	-0.028

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5/20/2007	11:23:11	188	59.06	-0.028
5/20/2007	11:23:11	188.5	59.06	-0.026
5/20/2007	11:23:12	189	59.06	-0.028
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5/20/2007	11:23:13	190	59.06	-0.028
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5/20/2007	11:23:14	191	59.06	-0.028
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5/20/2007	11:23:17	194.5	59.06	-0.026
5/20/2007	11:23:18	195	59.06	-0.028
5/20/2007	11:23:18	195.5	59.06	-0.028
5/20/2007	11:23:19	196	59.06	-0.028
5/20/2007	11:23:19	196.5	59.06	-0.026
5/20/2007	11:23:20	197	59.06	-0.026
5/20/2007	11:23:20	197.5	59.06	-0.026
5/20/2007	11:23:21	198	59.06	-0.024
5/20/2007	11:23:21	198.5	59.06	-0.028
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5/20/2007	11:23:25	202.5	59.06	-0.026
5/20/2007	11:23:26	203	59.06	-0.026
5/20/2007	11:23:26	203.5	59.06	-0.028
5/20/2007	11:23:27	204	59.06	-0.026
5/20/2007	11:23:27	204.5	59.06	-0.026
5/20/2007	11:23:28	205	59.06	-0.026
5/20/2007	11:23:28	205.5	59.06	-0.026
5/20/2007	11:23:29	206	59.06	-0.026
5/20/2007	11:23:29	206.5	59.06	-0.026
5/20/2007	11:23:30	207	59.06	-0.026
5/20/2007	11:23:30	207.5	59.06	-0.026
5/20/2007	11:23:31	208	59.06	-0.026
5/20/2007	11:23:31	208.5	59.06	-0.026
5/20/2007	11:23:32	209	59.06	-0.026
5/20/2007	11:23:32	209.5	59.06	-0.026
5/20/2007	11:23:33	210	59.06	-0.026
5/20/2007	11:23:33	210.5	59.06	-0.026
5/20/2007	11:23:34	211	59.06	-0.026
5/20/2007	11:23:34	211.5	59.06	-0.026
5/20/2007	11:23:35	212	59.06	-0.026
5/20/2007	11:23:35	212.5	59.06	-0.026

5/20/2007	11:23:36	213	59.06	-0.028
5/20/2007	11:23:36	213.5	59.06	-0.026
5/20/2007	11:23:37	214	59.06	-0.026
5/20/2007	11:23:37	214.5	59.06	-0.028
5/20/2007	11:23:38	215	59.06	-0.028
5/20/2007	11:23:38	215.5	59.06	-0.026
5/20/2007	11:23:39	216	59.06	-0.026
5/20/2007	11:23:39	216.5	59.06	-0.026
5/20/2007	11:23:40	217	59.06	-0.026
5/20/2007	11:23:40	217.5	59.06	-0.026
5/20/2007	11:23:41	218	59.06	-0.026
5/20/2007	11:23:41	218.5	59.06	-0.026
5/20/2007	11:23:42	219	59.06	-0.026
5/20/2007	11:23:42	219.5	59.06	-0.028
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5/20/2007	11:23:44	221	59.06	-0.026
5/20/2007	11:23:44	221.5	59.06	-0.026
5/20/2007	11:23:45	222	59.06	-0.028
5/20/2007	11:23:45	222.5	59.06	-0.028
5/20/2007	11:23:46	223	59.06	-0.026
5/20/2007	11:23:46	223.5	59.06	-0.026
5/20/2007	11:23:47	224	59.06	-0.026
5/20/2007	11:23:47	224.5	59.06	-0.028
5/20/2007	11:23:48	225	59.06	-0.026
5/20/2007	11:23:48	225.5	59.06	-0.026
5/20/2007	11:23:49	226	59.06	-0.026
5/20/2007	11:23:49	226.5	59.06	-0.026
5/20/2007	11:23:50	227	59.06	-0.026
5/20/2007	11:23:50	227.5	59.06	-0.026
5/20/2007	11:23:51	228	59.06	-0.026
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5/20/2007	11:26:11	368.5	59.09	-0.024

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5/20/2007	11:26:29	386	59.09	-0.025
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5/20/2007	11:26:32	389	59.09	-0.025
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5/20/2007	11:31:58	715.5	59.09	-0.025
5/20/2007	11:31:59	716	59.09	-0.025
5/20/2007	11:31:59	716.5	59.09	-0.025
5/20/2007	11:32:00	717	59.09	-0.025
5/20/2007	11:32:00	717.5	59.09	-0.025
5/20/2007	11:32:01	718	59.11	-0.025
5/20/2007	11:32:01	718.5	59.09	-0.025
5/20/2007	11:32:02	719	59.09	-0.025
5/20/2007	11:32:02	719.5	59.09	-0.025
5/20/2007	11:32:03	720	59.09	-0.025
5/20/2007	11:32:03	720.5	59.09	-0.025
5/20/2007	11:32:04	721	59.09	-0.025
5/20/2007	11:32:04	721.5	59.09	-0.025
5/20/2007	11:32:05	722	59.09	-0.025
5/20/2007	11:32:05	722.5	59.09	-0.025
5/20/2007	11:32:06	723	59.11	-0.025
5/20/2007	11:32:06	723.5	59.11	-0.025
5/20/2007	11:32:07	724	59.11	-0.025
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5/20/2007	11:32:10	727	59.09	-0.025
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5/20/2007	11:32:11	728	59.09	-0.025
5/20/2007	11:32:11	728.5	59.11	-0.025
5/20/2007	11:32:12	729	59.11	-0.025
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5/20/2007	11:32:13	730	59.09	-0.025
5/20/2007	11:32:13	730.5	59.09	-0.025
5/20/2007	11:32:14	731	59.09	-0.025
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5/20/2007	11:32:15	732	59.09	-0.025
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5/20/2007	11:32:17	734	59.09	-0.025
5/20/2007	11:32:17	734.5	59.11	-0.027
5/20/2007	11:32:18	735	59.09	-0.025
5/20/2007	11:32:18	735.5	59.09	-0.025
5/20/2007	11:32:19	736	59.09	-0.027
5/20/2007	11:32:19	736.5	59.09	-0.027
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5/20/2007	11:32:21	738	59.09	-0.025
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5/20/2007	11:32:22	739	59.09	-0.025
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5/20/2007	11:32:29	746	59.11	-0.025
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5/20/2007	11:32:31	748	59.11	-0.025
5/20/2007	11:32:31	748.5	59.09	-0.025
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5/20/2007	11:32:41	758.5	59.11	-0.027

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5/20/2007	11:32:46	763	59.11	-0.025
5/20/2007	11:32:46	763.5	59.11	-0.025
5/20/2007	11:32:47	764	59.09	-0.025
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5/20/2007	11:32:48	765	59.09	-0.025
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5/20/2007	11:32:49	766	59.09	-0.025
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5/20/2007	11:32:50	767	59.11	-0.025
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5/20/2007	11:32:51	768	59.09	-0.027
5/20/2007	11:32:51	768.5	59.09	-0.025
5/20/2007	11:32:52	769	59.11	-0.025
5/20/2007	11:32:52	769.5	59.09	-0.027
5/20/2007	11:32:53	770	59.11	-0.027
5/20/2007	11:32:53	770.5	59.11	-0.027
5/20/2007	11:32:54	771	59.09	-0.025
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5/20/2007	11:32:56	773	59.11	-0.025
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5/20/2007	11:32:57	774	59.11	-0.027
5/20/2007	11:32:57	774.5	59.09	-0.025
5/20/2007	11:32:58	775	59.09	-0.025
5/20/2007	11:32:58	775.5	59.09	-0.027
5/20/2007	11:32:59	776	59.09	-0.027
5/20/2007	11:32:59	776.5	59.11	-0.025
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5/20/2007	11:33:00	777.5	59.09	-0.027
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5/20/2007	11:33:02	779	59.09	-0.025
5/20/2007	11:33:02	779.5	59.09	-0.025
5/20/2007	11:33:03	780	59.11	-0.025
5/20/2007	11:33:03	780.5	59.09	-0.025
5/20/2007	11:33:04	781	59.11	-0.027
5/20/2007	11:33:04	781.5	59.09	-0.025
5/20/2007	11:33:05	782	59.11	-0.025
5/20/2007	11:33:05	782.5	59.11	-0.027
5/20/2007	11:33:06	783	59.11	-0.025
5/20/2007	11:33:06	783.5	59.11	-0.025
5/20/2007	11:33:07	784	59.11	-0.025
5/20/2007	11:33:07	784.5	59.11	-0.025

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5/20/2007	11:33:16	793.5	59.09	-0.025
5/20/2007	11:33:17	794	59.11	-0.027
5/20/2007	11:33:17	794.5	59.09	-0.025
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5/20/2007	11:33:28	805.5	59.09	-0.025
5/20/2007	11:33:29	806	59.11	-0.025
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5/20/2007	11:33:32	809	59.11	-0.025
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5/20/2007	11:33:33	810	59.11	-0.025
5/20/2007	11:33:33	810.5	59.11	-0.025

5/20/2007	11:33:34	811	59.09	-0.025
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5/20/2007	11:33:35	812	59.09	-0.025
5/20/2007	11:33:35	812.5	59.09	-0.025
5/20/2007	11:33:36	813	59.11	-0.025
5/20/2007	11:33:36	813.5	59.11	-0.027
5/20/2007	11:33:37	814	59.11	-0.025
5/20/2007	11:33:37	814.5	59.09	-0.025
5/20/2007	11:33:38	815	59.11	-0.025
5/20/2007	11:33:38	815.5	59.11	-0.025
5/20/2007	11:33:39	816	59.11	-0.023
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5/20/2007	11:33:40	817	59.11	-0.025
5/20/2007	11:33:40	817.5	59.11	-0.025
5/20/2007	11:33:41	818	59.11	-0.023
5/20/2007	11:33:41	818.5	59.09	-0.025
5/20/2007	11:33:42	819	59.09	-0.025
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5/20/2007	11:33:43	820	59.11	-0.025
5/20/2007	11:33:43	820.5	59.09	-0.025
5/20/2007	11:33:44	821	59.11	-0.025
5/20/2007	11:33:44	821.5	59.11	-0.023
5/20/2007	11:33:45	822	59.11	-0.025
5/20/2007	11:33:45	822.5	59.11	-0.025
5/20/2007	11:33:46	823	59.11	-0.025
5/20/2007	11:33:46	823.5	59.11	-0.025
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5/20/2007	11:33:48	825.5	59.11	-0.025
5/20/2007	11:33:49	826	59.11	-0.025
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5/20/2007	11:33:51	828.5	59.09	-0.025
5/20/2007	11:33:52	829	59.11	-0.025
5/20/2007	11:33:52	829.5	59.09	-0.025
5/20/2007	11:33:53	830	59.11	-0.025
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5/20/2007	11:33:57	834	59.09	-0.025
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5/20/2007	11:33:58	835	59.11	-0.025
5/20/2007	11:33:58	835.5	59.11	-0.025
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5/20/2007	11:33:59	836.5	59.11	-0.025

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5/20/2007	11:34:02	839	59.11	-0.023
5/20/2007	11:34:02	839.5	59.11	-0.025
5/20/2007	11:34:03	840	59.11	-0.025
5/20/2007	11:34:03	840.5	59.11	-0.025
5/20/2007	11:34:04	841	59.11	-0.025
5/20/2007	11:34:04	841.5	59.11	-0.023
5/20/2007	11:34:05	842	59.11	-0.025
5/20/2007	11:34:05	842.5	59.11	-0.023
5/20/2007	11:34:06	843	59.11	-0.023
5/20/2007	11:34:06	843.5	59.09	-0.024
5/20/2007	11:34:07	844	59.11	-0.025
5/20/2007	11:34:07	844.5	59.11	-0.023
5/20/2007	11:34:08	845	59.11	-0.023
5/20/2007	11:34:08	845.5	59.11	-0.025
5/20/2007	11:34:09	846	59.11	-0.025
5/20/2007	11:34:09	846.5	59.11	-0.025
5/20/2007	11:34:10	847	59.11	-0.025
5/20/2007	11:34:10	847.5	59.11	-0.025
5/20/2007	11:34:11	848	59.11	-0.025
5/20/2007	11:34:11	848.5	59.11	-0.025
5/20/2007	11:34:12	849	59.11	-0.025
5/20/2007	11:34:12	849.5	59.11	-0.025
5/20/2007	11:34:13	850	59.09	-0.025
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5/20/2007	11:34:14	851	59.11	-0.025
5/20/2007	11:34:14	851.5	59.11	-0.025
5/20/2007	11:34:15	852	59.09	-0.025
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5/20/2007	11:34:16	853	59.11	-0.025
5/20/2007	11:34:16	853.5	59.09	-0.025
5/20/2007	11:34:17	854	59.11	-0.027
5/20/2007	11:34:17	854.5	59.11	-0.027
5/20/2007	11:34:18	855	59.09	-0.027
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5/20/2007	11:34:19	856	59.11	-0.027
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5/20/2007	11:34:20	857	59.11	-0.027
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5/20/2007	11:34:21	858	59.11	-0.027
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5/20/2007	11:34:22	859	59.11	-0.027
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5/20/2007	11:34:23	860	59.11	-0.027
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5/20/2007	11:34:24	861	59.11	-0.027
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5/20/2007	11:34:25	862	59.11	-0.027
5/20/2007	11:34:25	862.5	59.11	-0.027

5/20/2007	11:34:26	863	59.11	-0.027
5/20/2007	11:34:26	863.5	59.11	-0.027
5/20/2007	11:34:27	864	59.11	-0.027
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5/20/2007	11:34:28	865	59.11	-0.027
5/20/2007	11:34:28	865.5	59.11	-0.027
5/20/2007	11:34:29	866	59.11	-0.027
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5/20/2007	11:34:30	867	59.11	-0.027
5/20/2007	11:34:30	867.5	59.11	-0.027
5/20/2007	11:34:31	868	59.11	-0.027
5/20/2007	11:34:31	868.5	59.09	-0.027
5/20/2007	11:34:32	869	59.09	-0.027
5/20/2007	11:34:32	869.5	59.11	-0.027
5/20/2007	11:34:33	870	59.11	-0.027
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5/20/2007	11:34:35	872	59.11	-0.027
5/20/2007	11:34:35	872.5	59.11	-0.027
5/20/2007	11:34:36	873	59.11	-0.027
5/20/2007	11:34:36	873.5	59.11	-0.027
5/20/2007	11:34:37	874	59.09	-0.027
5/20/2007	11:34:37	874.5	59.09	-0.027
5/20/2007	11:34:38	875	59.11	-0.027
5/20/2007	11:34:38	875.5	59.11	-0.027
5/20/2007	11:34:39	876	59.11	-0.027
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5/20/2007	11:42:32	1349	59.11	-0.023
5/20/2007	11:42:32	1349.5	59.11	-0.023
5/20/2007	11:42:33	1350	59.11	-0.023
5/20/2007	11:42:33	1350.5	59.11	-0.023
5/20/2007	11:42:34	1351	59.11	-0.023
5/20/2007	11:42:34	1351.5	59.11	-0.023
5/20/2007	11:42:35	1352	59.11	-0.023
5/20/2007	11:42:35	1352.5	59.11	-0.023
5/20/2007	11:42:36	1353	59.11	-0.023
5/20/2007	11:42:36	1353.5	59.09	-0.024
5/20/2007	11:42:37	1354	59.11	-0.023
5/20/2007	11:42:37	1354.5	59.11	-0.023
5/20/2007	11:42:38	1355	59.11	-0.023
5/20/2007	11:42:38	1355.5	59.11	-0.023
5/20/2007	11:42:39	1356	59.09	-0.024
5/20/2007	11:42:39	1356.5	59.11	-0.023

5/20/2007	11:42:40	1357	59.11	-0.023
5/20/2007	11:42:40	1357.5	59.11	-0.023
5/20/2007	11:42:41	1358	59.11	-0.023
5/20/2007	11:42:41	1358.5	59.11	-0.025
5/20/2007	11:42:42	1359	59.11	-0.023
5/20/2007	11:42:42	1359.5	59.11	-0.023
5/20/2007	11:42:43	1360	59.11	-0.023
5/20/2007	11:42:43	1360.5	59.11	-0.023
5/20/2007	11:42:44	1361	59.11	-0.023
5/20/2007	11:42:44	1361.5	59.11	-0.023
5/20/2007	11:42:45	1362	59.09	-0.022
5/20/2007	11:42:45	1362.5	59.11	-0.023
5/20/2007	11:42:46	1363	59.11	-0.021
5/20/2007	11:42:46	1363.5	59.11	-0.021
5/20/2007	11:42:47	1364	59.11	-0.023
5/20/2007	11:42:47	1364.5	59.11	-0.023
5/20/2007	11:42:48	1365	59.11	-0.023
5/20/2007	11:42:48	1365.5	59.11	-0.021
5/20/2007	11:42:49	1366	59.11	-0.023
5/20/2007	11:42:49	1366.5	59.11	-0.021
5/20/2007	11:42:50	1367	59.11	-0.023
5/20/2007	11:42:50	1367.5	59.11	-0.021
5/20/2007	11:42:51	1368	59.11	-0.023
5/20/2007	11:42:51	1368.5	59.11	-0.021
5/20/2007	11:42:52	1369	59.11	-0.023
5/20/2007	11:42:52	1369.5	59.11	-0.021
5/20/2007	11:42:53	1370	59.11	-0.023
5/20/2007	11:42:53	1370.5	59.11	-0.021
5/20/2007	11:42:54	1371	59.11	-0.023
5/20/2007	11:42:54	1371.5	59.11	-0.023
5/20/2007	11:42:55	1372	59.11	-0.023
5/20/2007	11:42:55	1372.5	59.11	-0.023
5/20/2007	11:42:56	1373	59.11	-0.023
5/20/2007	11:42:56	1373.5	59.11	-0.023
5/20/2007	11:42:57	1374	59.11	-0.023
5/20/2007	11:42:57	1374.5	59.11	-0.023
5/20/2007	11:42:58	1375	59.11	-0.021
5/20/2007	11:42:58	1375.5	59.09	-0.024
5/20/2007	11:42:59	1376	59.11	-0.023
5/20/2007	11:42:59	1376.5	59.11	-0.023
5/20/2007	11:43:00	1377	59.11	-0.023
5/20/2007	11:43:00	1377.5	59.11	-0.023
5/20/2007	11:43:01	1378	59.11	-0.023
5/20/2007	11:43:01	1378.5	59.09	-0.022
5/20/2007	11:43:02	1379	59.11	-0.023
5/20/2007	11:43:02	1379.5	59.11	-0.023
5/20/2007	11:43:03	1380	59.11	-0.023
5/20/2007	11:43:03	1380.5	59.11	-0.023
5/20/2007	11:43:04	1381	59.11	-0.023
5/20/2007	11:43:04	1381.5	59.11	-0.023
5/20/2007	11:43:05	1382	59.11	-0.023
5/20/2007	11:43:05	1382.5	59.11	-0.023

5/20/2007	11:43:06	1383	59.11	-0.023
5/20/2007	11:43:06	1383.5	59.11	-0.023
5/20/2007	11:43:07	1384	59.11	-0.023
5/20/2007	11:43:07	1384.5	59.11	-0.023
5/20/2007	11:43:08	1385	59.11	-0.023
5/20/2007	11:43:08	1385.5	59.11	-0.023
5/20/2007	11:43:09	1386	59.11	-0.023
5/20/2007	11:43:09	1386.5	59.11	-0.023
5/20/2007	11:43:10	1387	59.11	-0.023
5/20/2007	11:43:10	1387.5	59.11	-0.023
5/20/2007	11:43:11	1388	59.11	-0.023
5/20/2007	11:43:11	1388.5	59.11	-0.023
5/20/2007	11:43:12	1389	59.11	-0.023
5/20/2007	11:43:12	1389.5	59.11	-0.023
5/20/2007	11:43:13	1390	59.11	-0.023
5/20/2007	11:43:13	1390.5	59.11	-0.023
5/20/2007	11:43:14	1391	59.11	-0.023
5/20/2007	11:43:14	1391.5	59.11	-0.023
5/20/2007	11:43:15	1392	59.11	-0.023
5/20/2007	11:43:15	1392.5	59.11	-0.023
5/20/2007	11:43:16	1393	59.11	-0.023
5/20/2007	11:43:16	1393.5	59.11	-0.023
5/20/2007	11:43:17	1394	59.11	-0.023
5/20/2007	11:43:17	1394.5	59.11	-0.023
5/20/2007	11:43:18	1395	59.11	-0.023
5/20/2007	11:43:18	1395.5	59.11	-0.021
5/20/2007	11:43:19	1396	59.11	-0.023
5/20/2007	11:43:19	1396.5	59.11	-0.021
5/20/2007	11:43:20	1397	59.11	-0.021
5/20/2007	11:43:20	1397.5	59.11	-0.023
5/20/2007	11:43:21	1398	59.11	-0.023
5/20/2007	11:43:21	1398.5	59.11	-0.023
5/20/2007	11:43:22	1399	59.11	-0.023
5/20/2007	11:43:22	1399.5	59.11	-0.023
5/20/2007	11:43:23	1400	59.11	-0.023
5/20/2007	11:43:23	1400.5	59.11	-0.023
5/20/2007	11:43:24	1401	59.11	-0.023
5/20/2007	11:43:24	1401.5	59.11	-0.023
5/20/2007	11:43:25	1402	59.11	-0.023
5/20/2007	11:43:25	1402.5	59.11	-0.023
5/20/2007	11:43:26	1403	59.11	-0.023
5/20/2007	11:43:26	1403.5	59.11	-0.023
5/20/2007	11:43:27	1404	59.11	-0.023
5/20/2007	11:43:27	1404.5	59.11	-0.023
5/20/2007	11:43:28	1405	59.11	-0.023
5/20/2007	11:43:28	1405.5	59.11	-0.023
5/20/2007	11:43:29	1406	59.11	-0.023
5/20/2007	11:43:29	1406.5	59.11	-0.021
5/20/2007	11:43:30	1407	59.11	-0.021
5/20/2007	11:43:30	1407.5	59.11	-0.021
5/20/2007	11:43:31	1408	59.11	-0.023
5/20/2007	11:43:31	1408.5	59.11	-0.023

5/20/2007	11:43:32	1409	59.11	-0.023
5/20/2007	11:43:32	1409.5	59.11	-0.023
5/20/2007	11:43:33	1410	59.11	-0.023
5/20/2007	11:43:33	1410.5	59.11	-0.023
5/20/2007	11:43:34	1411	59.11	-0.023
5/20/2007	11:43:34	1411.5	59.11	-0.023
5/20/2007	11:43:35	1412	59.11	-0.023
5/20/2007	11:43:35	1412.5	59.11	-0.021
5/20/2007	11:43:36	1413	59.11	-0.023
5/20/2007	11:43:36	1413.5	59.11	-0.023
5/20/2007	11:43:37	1414	59.11	-0.023
5/20/2007	11:43:37	1414.5	59.11	-0.023
5/20/2007	11:43:38	1415	59.11	-0.023
5/20/2007	11:43:38	1415.5	59.11	-0.021
5/20/2007	11:43:39	1416	59.11	-0.023
5/20/2007	11:43:39	1416.5	59.11	-0.023
5/20/2007	11:43:40	1417	59.11	-0.023
5/20/2007	11:43:40	1417.5	59.11	-0.023
5/20/2007	11:43:41	1418	59.11	-0.023
5/20/2007	11:43:41	1418.5	59.11	-0.023
5/20/2007	11:43:42	1419	59.11	-0.021
5/20/2007	11:43:42	1419.5	59.11	-0.023
5/20/2007	11:43:43	1420	59.11	-0.023
5/20/2007	11:43:43	1420.5	59.11	-0.023
5/20/2007	11:43:44	1421	59.11	-0.023
5/20/2007	11:43:44	1421.5	59.11	-0.023
5/20/2007	11:43:45	1422	59.11	-0.023
5/20/2007	11:43:45	1422.5	59.11	-0.023
5/20/2007	11:43:46	1423	59.11	-0.023
5/20/2007	11:43:46	1423.5	59.11	-0.023
5/20/2007	11:43:47	1424	59.11	-0.023
5/20/2007	11:43:47	1424.5	59.11	-0.023
5/20/2007	11:43:48	1425	59.11	-0.023
5/20/2007	11:43:48	1425.5	59.11	-0.023
5/20/2007	11:43:49	1426	59.11	-0.023
5/20/2007	11:43:49	1426.5	59.11	-0.023
5/20/2007	11:43:50	1427	59.11	-0.023
5/20/2007	11:43:50	1427.5	59.11	-0.023
5/20/2007	11:43:51	1428	59.11	-0.023
5/20/2007	11:43:51	1428.5	59.11	-0.023
5/20/2007	11:43:52	1429	59.11	-0.023
5/20/2007	11:43:52	1429.5	59.11	-0.023
5/20/2007	11:43:53	1430	59.11	-0.023
5/20/2007	11:43:53	1430.5	59.11	-0.023
5/20/2007	11:43:54	1431	59.11	-0.023
5/20/2007	11:43:54	1431.5	59.11	-0.023
5/20/2007	11:43:55	1432	59.11	-0.021
5/20/2007	11:43:55	1432.5	59.11	-0.023
5/20/2007	11:43:56	1433	59.11	-0.023
5/20/2007	11:43:56	1433.5	59.11	-0.021
5/20/2007	11:43:57	1434	59.11	-0.023
5/20/2007	11:43:57	1434.5	59.11	-0.023

5/20/2007	11:43:58	1435	59.11	-0.023
5/20/2007	11:43:58	1435.5	59.11	-0.023
5/20/2007	11:43:59	1436	59.11	-0.023
5/20/2007	11:43:59	1436.5	59.11	-0.023
5/20/2007	11:44:00	1437	59.11	-0.023
5/20/2007	11:44:00	1437.5	59.11	-0.023
5/20/2007	11:44:01	1438	59.11	-0.023
5/20/2007	11:44:01	1438.5	59.11	-0.023
5/20/2007	11:44:02	1439	59.11	-0.023
5/20/2007	11:44:02	1439.5	59.11	-0.023
5/20/2007	11:44:03	1440	59.11	-0.023
5/20/2007	11:44:03	1440.5	59.11	-0.023
5/20/2007	11:44:04	1441	59.11	-0.023
5/20/2007	11:44:04	1441.5	59.11	-0.023
5/20/2007	11:44:05	1442	59.11	-0.023
5/20/2007	11:44:05	1442.5	59.11	-0.023
5/20/2007	11:44:06	1443	59.11	-0.023
5/20/2007	11:44:06	1443.5	59.11	-0.023
5/20/2007	11:44:07	1444	59.11	-0.023
5/20/2007	11:44:07	1444.5	59.11	-0.025
5/20/2007	11:44:08	1445	59.11	-0.023
5/20/2007	11:44:08	1445.5	59.11	-0.023
5/20/2007	11:44:09	1446	59.11	-0.023
5/20/2007	11:44:09	1446.5	59.11	-0.023
5/20/2007	11:44:10	1447	59.11	-0.023
5/20/2007	11:44:10	1447.5	59.11	-0.023
5/20/2007	11:44:11	1448	59.11	-0.023
5/20/2007	11:44:11	1448.5	59.11	-0.023
5/20/2007	11:44:12	1449	59.11	-0.023
5/20/2007	11:44:12	1449.5	59.11	-0.023
5/20/2007	11:44:13	1450	59.11	-0.023
5/20/2007	11:44:13	1450.5	59.11	-0.023
5/20/2007	11:44:14	1451	59.11	-0.023
5/20/2007	11:44:14	1451.5	59.11	-0.023
5/20/2007	11:44:15	1452	59.11	-0.023
5/20/2007	11:44:15	1452.5	59.11	-0.023

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:09:27
Report from file: ...\\SN12694 2007-05-20 105647 Test #1.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #1

Test defined on: 5/20/2007 10:50:42
Test started on: 5/20/2007 10:56:47
Test stopped on: 5/20/2007 11:07:22

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 1270

TOTAL DATA SAMPLES 1270

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 9.171 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	10:56:47	0	58.86	0
5/20/2007	10:56:47	0.5	58.88	-0.015
5/20/2007	10:56:48	1	58.9	-0.018
5/20/2007	10:56:48	1.5	58.9	-0.02
5/20/2007	10:56:49	2	58.9	-0.022
5/20/2007	10:56:49	2.5	58.93	-0.021
5/20/2007	10:56:50	3	58.93	-0.023
5/20/2007	10:56:50	3.5	58.93	-0.021
5/20/2007	10:56:51	4	58.93	-0.023
5/20/2007	10:56:51	4.5	58.93	-0.025

5/20/2007	10:56:52	5	58.93	-0.023
5/20/2007	10:56:52	5.5	58.93	-0.023
5/20/2007	10:56:53	6	58.93	-0.023
5/20/2007	10:56:53	6.5	58.95	-0.025
5/20/2007	10:56:54	7	58.95	-0.023
5/20/2007	10:56:54	7.5	58.95	-0.025
5/20/2007	10:56:55	8	58.95	-0.025
5/20/2007	10:56:55	8.5	58.95	-0.025
5/20/2007	10:56:56	9	58.95	-0.025
5/20/2007	10:56:56	9.5	58.95	-0.025
5/20/2007	10:56:57	10	58.95	-0.025
5/20/2007	10:56:57	10.5	58.95	-0.025
5/20/2007	10:56:58	11	58.95	-0.025
5/20/2007	10:56:58	11.5	58.95	-0.025
5/20/2007	10:56:59	12	58.95	-0.027
5/20/2007	10:56:59	12.5	58.95	-0.027
5/20/2007	10:57:00	13	58.95	-0.027
5/20/2007	10:57:00	13.5	58.95	-0.027
5/20/2007	10:57:01	14	58.95	-0.03
5/20/2007	10:57:01	14.5	58.95	-0.027
5/20/2007	10:57:02	15	58.95	-0.025
5/20/2007	10:57:02	15.5	58.97	-0.028
5/20/2007	10:57:03	16	58.97	-0.026
5/20/2007	10:57:03	16.5	58.97	-0.026
5/20/2007	10:57:04	17	58.97	-0.026
5/20/2007	10:57:04	17.5	58.97	-0.026
5/20/2007	10:57:05	18	58.97	-0.028
5/20/2007	10:57:05	18.5	58.97	-0.026
5/20/2007	10:57:06	19	58.97	-0.026
5/20/2007	10:57:06	19.5	58.97	-0.026
5/20/2007	10:57:07	20	58.97	-0.026
5/20/2007	10:57:07	20.5	58.97	-0.026
5/20/2007	10:57:08	21	58.97	-0.026
5/20/2007	10:57:08	21.5	58.97	-0.026
5/20/2007	10:57:09	22	58.97	-0.024
5/20/2007	10:57:09	22.5	58.97	-0.026
5/20/2007	10:57:10	23	58.97	-0.026
5/20/2007	10:57:10	23.5	58.97	-0.026
5/20/2007	10:57:11	24	58.97	-0.026
5/20/2007	10:57:11	24.5	58.97	-0.026
5/20/2007	10:57:12	25	59	-0.025
5/20/2007	10:57:12	25.5	59	-0.025
5/20/2007	10:57:13	26	59	-0.025
5/20/2007	10:57:13	26.5	59	-0.024
5/20/2007	10:57:14	27	59	-0.024
5/20/2007	10:57:14	27.5	59	-0.025
5/20/2007	10:57:15	28	59	-0.024
5/20/2007	10:57:15	28.5	59	-0.025
5/20/2007	10:57:16	29	59	-0.025
5/20/2007	10:57:16	29.5	59	-0.025
5/20/2007	10:57:17	30	59	-0.025
5/20/2007	10:57:17	30.5	59	-0.025

5/20/2007	10:57:18	31	59	-0.025
5/20/2007	10:57:18	31.5	59	-0.024
5/20/2007	10:57:19	32	59	-0.025
5/20/2007	10:57:19	32.5	59	-0.025
5/20/2007	10:57:20	33	59	-0.024
5/20/2007	10:57:20	33.5	59	-0.024
5/20/2007	10:57:21	34	59	-0.024
5/20/2007	10:57:21	34.5	59	-0.025
5/20/2007	10:57:22	35	59	-0.025
5/20/2007	10:57:22	35.5	59	-0.025
5/20/2007	10:57:23	36	59	-0.027
5/20/2007	10:57:23	36.5	59	-0.025
5/20/2007	10:57:24	37	59	-0.027
5/20/2007	10:57:24	37.5	59	-0.025
5/20/2007	10:57:25	38	59.02	-0.025
5/20/2007	10:57:25	38.5	59.02	-0.023
5/20/2007	10:57:26	39	59.02	-0.023
5/20/2007	10:57:26	39.5	59.02	-0.023
5/20/2007	10:57:27	40	59.02	-0.025
5/20/2007	10:57:27	40.5	59.02	-0.023
5/20/2007	10:57:28	41	59.02	-0.023
5/20/2007	10:57:28	41.5	59.02	-0.023
5/20/2007	10:57:29	42	59.02	-0.033
5/20/2007	10:57:29	42.5	59.02	-0.046
5/20/2007	10:57:30	43	59.02	-0.029
5/20/2007	10:57:30	43.5	59.02	-0.025
5/20/2007	10:57:31	44	59.02	-0.025
5/20/2007	10:57:31	44.5	59.02	-0.025
5/20/2007	10:57:32	45	59.02	-0.023
5/20/2007	10:57:32	45.5	59.02	-0.023
5/20/2007	10:57:33	46	59.02	-0.023
5/20/2007	10:57:33	46.5	59.02	-0.023
5/20/2007	10:57:34	47	59.02	-0.025
5/20/2007	10:57:34	47.5	59.02	-0.025
5/20/2007	10:57:35	48	59.02	-0.025
5/20/2007	10:57:35	48.5	59.02	-0.025
5/20/2007	10:57:36	49	59.02	-0.023
5/20/2007	10:57:36	49.5	59.02	-0.023
5/20/2007	10:57:37	50	59.02	-0.023
5/20/2007	10:57:37	50.5	59.02	-0.023
5/20/2007	10:57:38	51	59.02	-0.023
5/20/2007	10:57:38	51.5	59.02	-0.025
5/20/2007	10:57:39	52	59.02	-0.023
5/20/2007	10:57:39	52.5	59.02	-0.023
5/20/2007	10:57:40	53	59.02	-0.023
5/20/2007	10:57:40	53.5	59.02	-0.023
5/20/2007	10:57:41	54	59.04	-0.022
5/20/2007	10:57:41	54.5	59.04	-0.022
5/20/2007	10:57:42	55	59.04	-0.022
5/20/2007	10:57:42	55.5	59.02	-0.023
5/20/2007	10:57:43	56	59.04	-0.022
5/20/2007	10:57:43	56.5	59.04	-0.022

5/20/2007	10:57:44	57	59.04	-0.022
5/20/2007	10:57:44	57.5	59.04	-0.022
5/20/2007	10:57:45	58	59.04	-0.022
5/20/2007	10:57:45	58.5	59.04	-0.024
5/20/2007	10:57:46	59	59.04	-0.022
5/20/2007	10:57:46	59.5	59.04	-0.022
5/20/2007	10:57:47	60	59.04	-0.022
5/20/2007	10:57:47	60.5	59.04	-0.024
5/20/2007	10:57:48	61	59.04	-0.022
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5/20/2007	10:57:49	62	59.04	-0.022
5/20/2007	10:57:49	62.5	59.04	-0.024
5/20/2007	10:57:50	63	59.04	-0.024
5/20/2007	10:57:50	63.5	59.04	-0.022
5/20/2007	10:57:51	64	59.04	-0.022
5/20/2007	10:57:51	64.5	59.04	-0.022
5/20/2007	10:57:52	65	59.04	-0.024
5/20/2007	10:57:52	65.5	59.04	-0.024
5/20/2007	10:57:53	66	59.04	-0.024
5/20/2007	10:57:53	66.5	59.04	-0.024
5/20/2007	10:57:54	67	59.04	-0.024
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5/20/2007	10:57:55	68	59.04	-0.024
5/20/2007	10:57:55	68.5	59.04	-0.022
5/20/2007	10:57:56	69	59.04	-0.024
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5/20/2007	10:57:57	70	59.04	-0.024
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5/20/2007	10:57:58	71	59.04	-0.024
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5/20/2007	10:57:59	72	59.04	-0.024
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5/20/2007	10:58:02	75.5	59.06	-0.022
5/20/2007	10:58:03	76	59.06	-0.024
5/20/2007	10:58:03	76.5	59.06	-0.022
5/20/2007	10:58:04	77	59.06	-0.024
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5/20/2007	10:58:05	78.5	59.06	-0.022
5/20/2007	10:58:06	79	59.06	-0.022
5/20/2007	10:58:06	79.5	59.06	-0.024
5/20/2007	10:58:07	80	59.06	-0.024
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5/20/2007	10:58:08	81	59.06	-0.024
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5/20/2007	10:58:09	82.5	59.06	-0.022

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5/20/2007	10:58:17	90	59.06	-0.022
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5/20/2007	10:58:18	91	59.06	-0.022
5/20/2007	10:58:18	91.5	59.06	-0.022
5/20/2007	10:58:19	92	59.06	-0.022
5/20/2007	10:58:19	92.5	59.06	-0.024
5/20/2007	10:58:20	93	59.06	-0.022
5/20/2007	10:58:20	93.5	59.06	-0.022
5/20/2007	10:58:21	94	59.06	-0.024
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5/20/2007	10:58:22	95	59.06	-0.02
5/20/2007	10:58:22	95.5	59.06	-0.024
5/20/2007	10:58:23	96	59.06	-0.022
5/20/2007	10:58:23	96.5	59.06	-0.022
5/20/2007	10:58:24	97	59.06	-0.024
5/20/2007	10:58:24	97.5	59.06	-0.024
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5/20/2007	10:58:27	100	59.06	-0.022
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5/20/2007	10:58:30	103	59.06	-0.022
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5/20/2007	10:58:31	104	59.06	-0.022
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5/20/2007	10:58:32	105	59.06	-0.022
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5/20/2007	10:58:33	106	59.06	-0.022
5/20/2007	10:58:33	106.5	59.06	-0.022
5/20/2007	10:58:34	107	59.09	-0.021
5/20/2007	10:58:34	107.5	59.06	-0.022
5/20/2007	10:58:35	108	59.06	-0.022
5/20/2007	10:58:35	108.5	59.06	-0.022

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5/20/2007	10:58:37	110.5	59.06	-0.024
5/20/2007	10:58:38	111	59.06	-0.024
5/20/2007	10:58:38	111.5	59.09	-0.021
5/20/2007	10:58:39	112	59.06	-0.024
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5/20/2007	10:58:40	113	59.06	-0.024
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5/20/2007	10:58:41	114	59.09	-0.023
5/20/2007	10:58:41	114.5	59.06	-0.024
5/20/2007	10:58:42	115	59.09	-0.023
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5/20/2007	10:58:43	116	59.09	-0.023
5/20/2007	10:58:43	116.5	59.06	-0.024
5/20/2007	10:58:44	117	59.09	-0.023
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5/20/2007	10:58:45	118	59.09	-0.023
5/20/2007	10:58:45	118.5	59.09	-0.021
5/20/2007	10:58:46	119	59.09	-0.023
5/20/2007	10:58:46	119.5	59.09	-0.023
5/20/2007	10:58:47	120	59.09	-0.023
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5/20/2007	10:58:58	131	59.09	-0.023
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5/20/2007	10:59:00	133	59.09	-0.023
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5/20/2007	10:59:03	136	59.09	-0.023
5/20/2007	10:59:03	136.5	59.09	-0.023
5/20/2007	10:59:04	137	59.09	-0.023
5/20/2007	10:59:04	137.5	59.09	-0.023
5/20/2007	10:59:05	138	59.09	-0.023
5/20/2007	10:59:05	138.5	59.09	-0.023
5/20/2007	10:59:06	139	59.09	-0.021
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5/20/2007	10:59:08	141	59.09	-0.023
5/20/2007	10:59:08	141.5	59.09	-0.023
5/20/2007	10:59:09	142	59.09	-0.023
5/20/2007	10:59:09	142.5	59.09	-0.023
5/20/2007	10:59:10	143	59.09	-0.021
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5/20/2007	10:59:11	144	59.09	-0.023
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5/20/2007	10:59:13	146	59.09	-0.023
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5/20/2007	10:59:14	147	59.09	-0.023
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5/20/2007	10:59:15	148	59.09	-0.023
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5/20/2007	10:59:16	149	59.09	-0.023
5/20/2007	10:59:16	149.5	59.09	-0.023
5/20/2007	10:59:17	150	59.09	-0.021
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5/20/2007	10:59:18	151	59.09	-0.021
5/20/2007	10:59:18	151.5	59.09	-0.023
5/20/2007	10:59:19	152	59.09	-0.021
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5/20/2007	10:59:22	155	59.09	-0.023
5/20/2007	10:59:22	155.5	59.09	-0.023
5/20/2007	10:59:23	156	59.09	-0.021
5/20/2007	10:59:23	156.5	59.09	-0.023
5/20/2007	10:59:24	157	59.09	-0.023
5/20/2007	10:59:24	157.5	59.09	-0.021
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5/20/2007	10:59:25	158.5	59.09	-0.023
5/20/2007	10:59:26	159	59.09	-0.023
5/20/2007	10:59:26	159.5	59.09	-0.023
5/20/2007	10:59:27	160	59.09	-0.023
5/20/2007	10:59:27	160.5	59.09	-0.023

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5/20/2007	10:59:30	163	59.09	-0.023
5/20/2007	10:59:30	163.5	59.09	-0.023
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5/20/2007	10:59:32	165	59.09	-0.023
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5/20/2007	10:59:33	166	59.09	-0.023
5/20/2007	10:59:33	166.5	59.09	-0.023
5/20/2007	10:59:34	167	59.09	-0.021
5/20/2007	10:59:34	167.5	59.09	-0.021
5/20/2007	10:59:35	168	59.09	-0.023
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5/20/2007	10:59:37	170.5	59.09	-0.023
5/20/2007	10:59:38	171	59.09	-0.023
5/20/2007	10:59:38	171.5	59.09	-0.023
5/20/2007	10:59:39	172	59.09	-0.023
5/20/2007	10:59:39	172.5	59.09	-0.023
5/20/2007	10:59:40	173	59.09	-0.023
5/20/2007	10:59:40	173.5	59.09	-0.023
5/20/2007	10:59:41	174	59.09	-0.023
5/20/2007	10:59:41	174.5	59.09	-0.023
5/20/2007	10:59:42	175	59.11	-0.023
5/20/2007	10:59:42	175.5	59.09	-0.023
5/20/2007	10:59:43	176	59.09	-0.021
5/20/2007	10:59:43	176.5	59.09	-0.021
5/20/2007	10:59:44	177	59.09	-0.021
5/20/2007	10:59:44	177.5	59.09	-0.027
5/20/2007	10:59:45	178	59.09	-0.044
5/20/2007	10:59:45	178.5	59.09	-0.042
5/20/2007	10:59:46	179	59.09	-0.025
5/20/2007	10:59:46	179.5	59.09	-0.023
5/20/2007	10:59:47	180	59.11	-0.025
5/20/2007	10:59:47	180.5	59.09	-0.033
5/20/2007	10:59:48	181	59.11	-0.025
5/20/2007	10:59:48	181.5	59.09	-0.029
5/20/2007	10:59:49	182	59.11	-0.03
5/20/2007	10:59:49	182.5	59.11	-0.027
5/20/2007	10:59:50	183	59.11	-0.023
5/20/2007	10:59:50	183.5	59.11	-0.023
5/20/2007	10:59:51	184	59.09	-0.023
5/20/2007	10:59:51	184.5	59.11	-0.023
5/20/2007	10:59:52	185	59.09	-0.023
5/20/2007	10:59:52	185.5	59.11	-0.027
5/20/2007	10:59:53	186	59.09	-0.025
5/20/2007	10:59:53	186.5	59.09	-0.029

5/20/2007	10:59:54	187	59.11	-0.027
5/20/2007	10:59:54	187.5	59.09	-0.025
5/20/2007	10:59:55	188	59.09	-0.023
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5/20/2007	10:59:56	189	59.11	-0.023
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5/20/2007	10:59:57	190	59.11	-0.023
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5/20/2007	10:59:58	191.5	59.11	-0.023
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5/20/2007	11:00:01	194.5	59.11	-0.023
5/20/2007	11:00:02	195	59.11	-0.021
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5/20/2007	11:00:03	196	59.11	-0.028
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5/20/2007	11:00:05	198	59.11	-0.023
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5/20/2007	11:00:06	199	59.09	-0.029
5/20/2007	11:00:06	199.5	59.11	-0.025
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5/20/2007	11:00:08	201	59.09	-0.023
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5/20/2007	11:00:10	203.5	59.11	-0.023
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5/20/2007	11:00:12	205.5	59.11	-0.025
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5/20/2007	11:00:13	206.5	59.11	-0.005
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5/20/2007	11:00:14	207.5	59.11	-0.027
5/20/2007	11:00:15	208	59.11	-0.027
5/20/2007	11:00:15	208.5	59.11	-0.025
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5/20/2007	11:00:16	209.5	59.11	-0.023
5/20/2007	11:00:17	210	59.11	-0.023
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5/20/2007	11:00:18	211.5	59.11	-0.023
5/20/2007	11:00:19	212	59.11	-0.023
5/20/2007	11:00:19	212.5	59.11	-0.028

5/20/2007	11:00:20	213	59.11	-0.027
5/20/2007	11:00:20	213.5	59.11	-0.023
5/20/2007	11:00:21	214	59.11	-0.023
5/20/2007	11:00:21	214.5	59.09	-0.023
5/20/2007	11:00:22	215	59.11	-0.023
5/20/2007	11:00:22	215.5	59.11	-0.023
5/20/2007	11:00:23	216	59.11	-0.023
5/20/2007	11:00:23	216.5	59.11	-0.023
5/20/2007	11:00:24	217	59.11	-0.023
5/20/2007	11:00:24	217.5	59.11	-0.023
5/20/2007	11:00:25	218	59.11	-0.023
5/20/2007	11:00:25	218.5	59.09	-0.023
5/20/2007	11:00:26	219	59.11	-0.023
5/20/2007	11:00:26	219.5	59.11	-0.023
5/20/2007	11:00:27	220	59.11	-0.021
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5/20/2007	11:00:28	221	59.11	-0.023
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5/20/2007	11:00:30	223	59.11	-0.023
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5/20/2007	11:00:31	224	59.11	-0.023
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5/20/2007	11:00:32	225	59.11	-0.025
5/20/2007	11:00:32	225.5	59.11	-0.023
5/20/2007	11:00:33	226	59.11	-0.023
5/20/2007	11:00:33	226.5	59.11	-0.028
5/20/2007	11:00:34	227	59.11	-0.027
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5/20/2007	11:00:35	228	59.11	-0.023
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5/20/2007	11:00:36	229	59.11	-0.023
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5/20/2007	11:00:37	230	59.11	-0.025
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5/20/2007	11:00:44	237.5	59.11	-0.027
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5/20/2007	11:00:45	238.5	59.11	-0.028

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5/20/2007	11:00:48	241	59.11	-0.023
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5/20/2007	11:00:53	246	59.11	-0.023
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5/20/2007	11:00:55	248.5	59.11	-0.027
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5/20/2007	11:01:05	258	59.11	-0.023
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5/20/2007	11:01:06	259	59.11	-0.023
5/20/2007	11:01:06	259.5	59.11	-0.025
5/20/2007	11:01:07	260	59.11	-0.028
5/20/2007	11:01:07	260.5	59.11	-0.025
5/20/2007	11:01:08	261	59.11	-0.023
5/20/2007	11:01:08	261.5	59.11	-0.023
5/20/2007	11:01:09	262	59.11	-0.023
5/20/2007	11:01:09	262.5	59.11	-0.023
5/20/2007	11:01:10	263	59.11	-0.027
5/20/2007	11:01:10	263.5	59.11	-0.025
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5/20/2007	11:01:23	276	59.11	-0.105
5/20/2007	11:01:23	276.5	59.11	-0.105
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5/20/2007	11:01:37	290.5	59.11	-0.034

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5/20/2007	11:01:39	292.5	59.11	-0.034
5/20/2007	11:01:40	293	59.11	-0.032
5/20/2007	11:01:40	293.5	59.11	-0.032
5/20/2007	11:01:41	294	59.11	-0.034
5/20/2007	11:01:41	294.5	59.11	-0.032
5/20/2007	11:01:42	295	59.11	-0.032
5/20/2007	11:01:42	295.5	59.11	-0.032
5/20/2007	11:01:43	296	59.11	-0.032
5/20/2007	11:01:43	296.5	59.11	-0.034
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5/20/2007	11:01:44	297.5	59.11	0.131
5/20/2007	11:01:45	298	59.11	0.044
5/20/2007	11:01:45	298.5	59.11	0.016
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5/20/2007	11:01:47	300.5	59.11	-0.028
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5/20/2007	11:01:50	303.5	59.11	-0.03
5/20/2007	11:01:51	304	59.11	-0.032
5/20/2007	11:01:51	304.5	59.11	-0.03
5/20/2007	11:01:52	305	59.11	-0.032
5/20/2007	11:01:52	305.5	59.11	-0.032
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5/20/2007	11:01:53	306.5	59.11	-0.032
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5/20/2007	11:01:55	308	59.11	-0.032
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5/20/2007	11:02:00	313.5	59.11	-0.032
5/20/2007	11:02:01	314	59.11	-0.032
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5/20/2007	11:02:03	316.5	59.11	-0.032

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5/20/2007	11:02:11	324.5	59.11	-0.034
5/20/2007	11:02:12	325	59.11	-0.032
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5/20/2007	11:02:13	326	59.11	-0.032
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5/20/2007	11:02:14	327	59.11	-0.032
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5/20/2007	11:02:27	340	59.11	-0.03
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5/20/2007	11:02:28	341	59.11	-0.03
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5/20/2007	11:02:37	350	59.11	-0.032
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5/20/2007	11:02:58	371	59.11	-0.032
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5/20/2007	11:02:59	372	59.11	-0.032
5/20/2007	11:02:59	372.5	59.11	-0.032
5/20/2007	11:03:00	373	59.11	-0.032
5/20/2007	11:03:00	373.5	59.11	-0.032
5/20/2007	11:03:01	374	59.11	-0.032
5/20/2007	11:03:01	374.5	59.11	-0.032
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5/20/2007	11:03:08	381	59.11	-0.032
5/20/2007	11:03:08	381.5	59.11	-0.03
5/20/2007	11:03:09	382	59.11	-0.032
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5/20/2007	11:03:10	383	59.11	-0.032
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5/20/2007	11:03:14	387	59.11	-0.03
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5/20/2007	11:03:15	388	59.11	-0.032
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5/20/2007	11:05:43	536.5	59.11	-0.034
5/20/2007	11:05:44	537	59.11	-0.034
5/20/2007	11:05:44	537.5	59.11	-0.034
5/20/2007	11:05:45	538	59.11	-0.034
5/20/2007	11:05:45	538.5	59.11	-0.034
5/20/2007	11:05:46	539	59.11	-0.034
5/20/2007	11:05:46	539.5	59.11	-0.034
5/20/2007	11:05:47	540	59.11	-0.034
5/20/2007	11:05:47	540.5	59.11	-0.034
5/20/2007	11:05:48	541	59.11	-0.034
5/20/2007	11:05:48	541.5	59.11	-0.034
5/20/2007	11:05:49	542	59.11	-0.034
5/20/2007	11:05:49	542.5	59.11	-0.034
5/20/2007	11:05:50	543	59.11	-0.034
5/20/2007	11:05:50	543.5	59.11	-0.034
5/20/2007	11:05:51	544	59.11	-0.034
5/20/2007	11:05:51	544.5	59.11	-0.034
5/20/2007	11:05:52	545	59.11	-0.034
5/20/2007	11:05:52	545.5	59.11	-0.034
5/20/2007	11:05:53	546	59.11	-0.034
5/20/2007	11:05:53	546.5	59.11	-0.034
5/20/2007	11:05:54	547	59.11	-0.032
5/20/2007	11:05:54	547.5	59.11	-0.034
5/20/2007	11:05:55	548	59.11	-0.032
5/20/2007	11:05:55	548.5	59.11	-0.034
5/20/2007	11:05:56	549	59.11	-0.034
5/20/2007	11:05:56	549.5	59.11	-0.034
5/20/2007	11:05:57	550	59.11	-0.034
5/20/2007	11:05:57	550.5	59.11	-0.034

5/20/2007	11:05:58	551	59.11	-0.034
5/20/2007	11:05:58	551.5	59.11	-0.032
5/20/2007	11:05:59	552	59.11	-0.034
5/20/2007	11:05:59	552.5	59.11	-0.034
5/20/2007	11:06:00	553	59.11	-0.032
5/20/2007	11:06:00	553.5	59.11	-0.034
5/20/2007	11:06:01	554	59.11	-0.034
5/20/2007	11:06:01	554.5	59.11	-0.034
5/20/2007	11:06:02	555	59.11	-0.034
5/20/2007	11:06:02	555.5	59.11	-0.034
5/20/2007	11:06:03	556	59.11	-0.034
5/20/2007	11:06:03	556.5	59.11	-0.032
5/20/2007	11:06:04	557	59.11	-0.032
5/20/2007	11:06:04	557.5	59.11	-0.032
5/20/2007	11:06:05	558	59.11	-0.034
5/20/2007	11:06:05	558.5	59.11	-0.032
5/20/2007	11:06:06	559	59.11	-0.034
5/20/2007	11:06:06	559.5	59.11	-0.034
5/20/2007	11:06:07	560	59.11	-0.034
5/20/2007	11:06:07	560.5	59.11	-0.032
5/20/2007	11:06:08	561	59.11	-0.032
5/20/2007	11:06:08	561.5	59.11	-0.034
5/20/2007	11:06:09	562	59.11	-0.034
5/20/2007	11:06:09	562.5	59.11	-0.032
5/20/2007	11:06:10	563	59.11	-0.034
5/20/2007	11:06:10	563.5	59.11	-0.034
5/20/2007	11:06:11	564	59.11	-0.032
5/20/2007	11:06:11	564.5	59.11	-0.032
5/20/2007	11:06:12	565	59.11	-0.034
5/20/2007	11:06:12	565.5	59.11	-0.032
5/20/2007	11:06:13	566	59.11	-0.032
5/20/2007	11:06:13	566.5	59.11	-0.032
5/20/2007	11:06:14	567	59.11	-0.034
5/20/2007	11:06:14	567.5	59.11	-0.032
5/20/2007	11:06:15	568	59.11	-0.032
5/20/2007	11:06:15	568.5	59.11	-0.032
5/20/2007	11:06:16	569	59.11	-0.032
5/20/2007	11:06:16	569.5	59.11	-0.032
5/20/2007	11:06:17	570	59.11	-0.032
5/20/2007	11:06:17	570.5	59.11	-0.028
5/20/2007	11:06:18	571	59.11	-0.034
5/20/2007	11:06:18	571.5	59.11	-0.032
5/20/2007	11:06:19	572	59.11	-0.032
5/20/2007	11:06:19	572.5	59.11	-0.032
5/20/2007	11:06:20	573	59.11	-0.032
5/20/2007	11:06:20	573.5	59.11	-0.032
5/20/2007	11:06:21	574	59.11	-0.03
5/20/2007	11:06:21	574.5	59.11	-0.032
5/20/2007	11:06:22	575	59.11	-0.032
5/20/2007	11:06:22	575.5	59.11	-0.032
5/20/2007	11:06:23	576	59.11	-0.032
5/20/2007	11:06:23	576.5	59.11	-0.032

5/20/2007	11:06:24	577	59.11	-0.032
5/20/2007	11:06:24	577.5	59.11	-0.032
5/20/2007	11:06:25	578	59.11	-0.032
5/20/2007	11:06:25	578.5	59.11	-0.032
5/20/2007	11:06:26	579	59.11	-0.032
5/20/2007	11:06:26	579.5	59.11	-0.032
5/20/2007	11:06:27	580	59.11	-0.032
5/20/2007	11:06:27	580.5	59.11	-0.032
5/20/2007	11:06:28	581	59.11	-0.032
5/20/2007	11:06:28	581.5	59.11	-0.032
5/20/2007	11:06:29	582	59.11	-0.032
5/20/2007	11:06:29	582.5	59.11	-0.032
5/20/2007	11:06:30	583	59.11	-0.034
5/20/2007	11:06:30	583.5	59.11	-0.032
5/20/2007	11:06:31	584	59.11	-0.034
5/20/2007	11:06:31	584.5	59.11	-0.032
5/20/2007	11:06:32	585	59.11	-0.034
5/20/2007	11:06:32	585.5	59.11	-0.032
5/20/2007	11:06:33	586	59.11	-0.034
5/20/2007	11:06:33	586.5	59.11	-0.034
5/20/2007	11:06:34	587	59.11	-0.032
5/20/2007	11:06:34	587.5	59.11	-0.034
5/20/2007	11:06:35	588	59.11	-0.034
5/20/2007	11:06:35	588.5	59.11	-0.032
5/20/2007	11:06:36	589	59.11	-0.032
5/20/2007	11:06:36	589.5	59.11	-0.034
5/20/2007	11:06:37	590	59.11	-0.034
5/20/2007	11:06:37	590.5	59.11	-0.034
5/20/2007	11:06:38	591	59.11	-0.034
5/20/2007	11:06:38	591.5	59.11	-0.034
5/20/2007	11:06:39	592	59.11	-0.034
5/20/2007	11:06:39	592.5	59.11	-0.034
5/20/2007	11:06:40	593	59.11	-0.034
5/20/2007	11:06:40	593.5	59.11	-0.034
5/20/2007	11:06:41	594	59.11	-0.034
5/20/2007	11:06:41	594.5	59.11	-0.034
5/20/2007	11:06:42	595	59.11	-0.034
5/20/2007	11:06:42	595.5	59.11	-0.034
5/20/2007	11:06:43	596	59.11	-0.034
5/20/2007	11:06:43	596.5	59.11	-0.034
5/20/2007	11:06:44	597	59.11	-0.032
5/20/2007	11:06:44	597.5	59.11	-0.034
5/20/2007	11:06:45	598	59.11	-0.032
5/20/2007	11:06:45	598.5	59.11	-0.032
5/20/2007	11:06:46	599	59.11	-0.03
5/20/2007	11:06:46	599.5	59.11	-0.032
5/20/2007	11:06:47	600	59.11	-0.03
5/20/2007	11:06:47	600.5	59.11	-0.03
5/20/2007	11:06:48	601	59.11	-0.03
5/20/2007	11:06:48	601.5	59.11	-0.03
5/20/2007	11:06:49	602	59.11	-0.03
5/20/2007	11:06:49	602.5	59.11	-0.03

5/20/2007	11:06:50	603	59.11	-0.03
5/20/2007	11:06:50	603.5	59.11	-0.03
5/20/2007	11:06:51	604	59.11	-0.03
5/20/2007	11:06:51	604.5	59.11	-0.03
5/20/2007	11:06:52	605	59.11	-0.03
5/20/2007	11:06:52	605.5	59.11	-0.03
5/20/2007	11:06:53	606	59.11	-0.03
5/20/2007	11:06:53	606.5	59.11	-0.03
5/20/2007	11:06:54	607	59.11	-0.03
5/20/2007	11:06:54	607.5	59.11	-0.03
5/20/2007	11:06:55	608	59.11	-0.03
5/20/2007	11:06:55	608.5	59.11	-0.03
5/20/2007	11:06:56	609	59.11	-0.03
5/20/2007	11:06:56	609.5	59.11	-0.03
5/20/2007	11:06:57	610	59.11	-0.03
5/20/2007	11:06:57	610.5	59.11	-0.03
5/20/2007	11:06:58	611	59.11	-0.03
5/20/2007	11:06:58	611.5	59.11	-0.03
5/20/2007	11:06:59	612	59.11	-0.03
5/20/2007	11:06:59	612.5	59.11	-0.03
5/20/2007	11:07:00	613	59.11	-0.03
5/20/2007	11:07:00	613.5	59.11	-0.03
5/20/2007	11:07:01	614	59.11	-0.03
5/20/2007	11:07:01	614.5	59.11	-0.03
5/20/2007	11:07:02	615	59.11	-0.03
5/20/2007	11:07:02	615.5	59.11	-0.03
5/20/2007	11:07:03	616	59.11	-0.03
5/20/2007	11:07:03	616.5	59.11	-0.03
5/20/2007	11:07:04	617	59.11	-0.03
5/20/2007	11:07:04	617.5	59.11	-0.03
5/20/2007	11:07:05	618	59.11	-0.03
5/20/2007	11:07:05	618.5	59.11	-0.03
5/20/2007	11:07:06	619	59.11	-0.03
5/20/2007	11:07:06	619.5	59.11	-0.03
5/20/2007	11:07:07	620	59.11	-0.03
5/20/2007	11:07:07	620.5	59.11	-0.03
5/20/2007	11:07:08	621	59.11	-0.03
5/20/2007	11:07:08	621.5	59.11	-0.03
5/20/2007	11:07:09	622	59.11	-0.03
5/20/2007	11:07:09	622.5	59.11	-0.03
5/20/2007	11:07:10	623	59.11	-0.03
5/20/2007	11:07:10	623.5	59.11	-0.028
5/20/2007	11:07:11	624	59.11	-0.03
5/20/2007	11:07:11	624.5	59.11	-0.03
5/20/2007	11:07:12	625	59.11	-0.03
5/20/2007	11:07:12	625.5	59.11	-0.03
5/20/2007	11:07:13	626	59.11	-0.032
5/20/2007	11:07:13	626.5	59.11	-0.03
5/20/2007	11:07:14	627	59.11	-0.03
5/20/2007	11:07:14	627.5	59.11	-0.03
5/20/2007	11:07:15	628	59.11	-0.03
5/20/2007	11:07:15	628.5	59.11	-0.032

5/20/2007	11:07:16	629	59.11	-0.03
5/20/2007	11:07:16	629.5	59.11	-0.032
5/20/2007	11:07:17	630	59.11	-0.03
5/20/2007	11:07:17	630.5	59.11	-0.03
5/20/2007	11:07:18	631	59.11	-0.032
5/20/2007	11:07:18	631.5	59.11	-0.03
5/20/2007	11:07:19	632	59.11	-0.03
5/20/2007	11:07:19	632.5	59.11	-0.03
5/20/2007	11:07:20	633	59.11	-0.03
5/20/2007	11:07:20	633.5	59.11	-0.03
5/20/2007	11:07:21	634	59.11	-0.032
5/20/2007	11:07:21	634.5	59.11	-0.032

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:49:46
 Report from file: ...\\SN12694 2007-05-20 134122 Test #10.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #10

Test defined on: 5/20/2007 13:41:15
 Test started on: 5/20/2007 13:41:22
 Test stopped on: 5/20/2007 13:47:51

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 779

TOTAL DATA SAMPLES 779

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 14.245 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	13:41:22	0	61.08	0
5/20/2007	13:41:22	0.5	61.1	-0.013
5/20/2007	13:41:23	1	61.12	-0.014
5/20/2007	13:41:23	1.5	61.12	-0.016
5/20/2007	13:41:24	2	61.12	-0.018
5/20/2007	13:41:24	2.5	61.14	-0.019
5/20/2007	13:41:25	3	61.14	-0.019
5/20/2007	13:41:25	3.5	61.14	-0.019
5/20/2007	13:41:26	4	61.14	-0.019
5/20/2007	13:41:26	4.5	61.14	-0.019

5/20/2007	13:41:27	5	61.14	-0.019
5/20/2007	13:41:27	5.5	61.14	-0.019
5/20/2007	13:41:28	6	61.14	-0.019
5/20/2007	13:41:28	6.5	61.14	-0.021
5/20/2007	13:41:29	7	61.14	-0.021
5/20/2007	13:41:29	7.5	61.14	-0.019
5/20/2007	13:41:30	8	61.14	-0.019
5/20/2007	13:41:30	8.5	61.14	-0.021
5/20/2007	13:41:31	9	61.14	-0.019
5/20/2007	13:41:31	9.5	61.14	-0.019
5/20/2007	13:41:32	10	61.14	-0.019
5/20/2007	13:41:32	10.5	61.14	-0.019
5/20/2007	13:41:33	11	61.17	-0.019
5/20/2007	13:41:33	11.5	61.17	-0.019
5/20/2007	13:41:34	12	61.14	-0.019
5/20/2007	13:41:34	12.5	61.14	-0.019
5/20/2007	13:41:35	13	61.14	-0.021
5/20/2007	13:41:35	13.5	61.17	-0.019
5/20/2007	13:41:36	14	61.17	-0.021
5/20/2007	13:41:36	14.5	61.17	-0.019
5/20/2007	13:41:37	15	61.17	-0.021
5/20/2007	13:41:37	15.5	61.17	-0.021
5/20/2007	13:41:38	16	61.17	-0.019
5/20/2007	13:41:38	16.5	61.17	-0.021
5/20/2007	13:41:39	17	61.17	-0.021
5/20/2007	13:41:39	17.5	61.17	-0.021
5/20/2007	13:41:40	18	61.17	-0.019
5/20/2007	13:41:40	18.5	61.17	-0.021
5/20/2007	13:41:41	19	61.17	-0.021
5/20/2007	13:41:41	19.5	61.17	-0.019
5/20/2007	13:41:42	20	61.17	-0.019
5/20/2007	13:41:42	20.5	61.17	-0.019
5/20/2007	13:41:43	21	61.17	-0.019
5/20/2007	13:41:43	21.5	61.17	-0.019
5/20/2007	13:41:44	22	61.17	-0.011
5/20/2007	13:41:44	22.5	61.17	-0.019
5/20/2007	13:41:45	23	61.17	-0.021
5/20/2007	13:41:45	23.5	61.17	-0.021
5/20/2007	13:41:46	24	61.17	-0.021
5/20/2007	13:41:46	24.5	61.17	-0.021
5/20/2007	13:41:47	25	61.17	-0.021
5/20/2007	13:41:47	25.5	61.17	-0.019
5/20/2007	13:41:48	26	61.17	0.018
5/20/2007	13:41:48	26.5	61.17	0.543
5/20/2007	13:41:49	27	61.17	0.407
5/20/2007	13:41:49	27.5	61.17	0.416
5/20/2007	13:41:50	28	61.17	0.75
5/20/2007	13:41:50	28.5	61.17	0.516
5/20/2007	13:41:51	29	61.17	0.608
5/20/2007	13:41:51	29.5	61.19	0.29
5/20/2007	13:41:52	30	61.19	0.185
5/20/2007	13:41:52	30.5	61.17	0.2

5/20/2007	13:41:53	31	61.19	-0.039
5/20/2007	13:41:53	31.5	61.17	-0.109
5/20/2007	13:41:54	32	61.17	-0.099
5/20/2007	13:41:54	32.5	61.19	-0.072
5/20/2007	13:41:55	33	61.19	-0.059
5/20/2007	13:41:55	33.5	61.19	-0.053
5/20/2007	13:41:56	34	61.19	-0.055
5/20/2007	13:41:56	34.5	61.19	-0.045
5/20/2007	13:41:57	35	61.19	-0.043
5/20/2007	13:41:57	35.5	61.19	-0.041
5/20/2007	13:41:58	36	61.19	-0.041
5/20/2007	13:41:58	36.5	61.19	-0.041
5/20/2007	13:41:59	37	61.19	-0.041
5/20/2007	13:41:59	37.5	61.19	-0.041
5/20/2007	13:42:00	38	61.19	-0.039
5/20/2007	13:42:00	38.5	61.19	-0.053
5/20/2007	13:42:01	39	61.19	-0.045
5/20/2007	13:42:01	39.5	61.19	-0.039
5/20/2007	13:42:02	40	61.19	-0.039
5/20/2007	13:42:02	40.5	61.19	-0.039
5/20/2007	13:42:03	41	61.19	-0.039
5/20/2007	13:42:03	41.5	61.19	-0.043
5/20/2007	13:42:04	42	61.19	-0.041
5/20/2007	13:42:04	42.5	61.19	-0.039
5/20/2007	13:42:05	43	61.19	-0.039
5/20/2007	13:42:05	43.5	61.19	-0.041
5/20/2007	13:42:06	44	61.19	-0.039
5/20/2007	13:42:06	44.5	61.19	-0.041
5/20/2007	13:42:07	45	61.19	-0.041
5/20/2007	13:42:07	45.5	61.19	-0.041
5/20/2007	13:42:08	46	61.19	-0.041
5/20/2007	13:42:08	46.5	61.19	-0.041
5/20/2007	13:42:09	47	61.19	-0.041
5/20/2007	13:42:09	47.5	61.19	-0.039
5/20/2007	13:42:10	48	61.19	-0.039
5/20/2007	13:42:10	48.5	61.19	-0.041
5/20/2007	13:42:11	49	61.19	-0.041
5/20/2007	13:42:11	49.5	61.19	-0.041
5/20/2007	13:42:12	50	61.19	-0.041
5/20/2007	13:42:12	50.5	61.19	-0.041
5/20/2007	13:42:13	51	61.19	-0.041
5/20/2007	13:42:13	51.5	61.19	-0.041
5/20/2007	13:42:14	52	61.19	-0.041
5/20/2007	13:42:14	52.5	61.21	-0.041
5/20/2007	13:42:15	53	61.19	-0.041
5/20/2007	13:42:15	53.5	61.19	-0.041
5/20/2007	13:42:16	54	61.19	-0.041
5/20/2007	13:42:16	54.5	61.19	-0.041
5/20/2007	13:42:17	55	61.21	-0.039
5/20/2007	13:42:17	55.5	61.21	-0.041
5/20/2007	13:42:18	56	61.21	-0.041
5/20/2007	13:42:18	56.5	61.21	-0.041

5/20/2007	13:42:19	57	61.21	-0.041
5/20/2007	13:42:19	57.5	61.21	-0.041
5/20/2007	13:42:20	58	61.21	-0.041
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5/20/2007	13:42:21	59	61.21	-0.041
5/20/2007	13:42:21	59.5	61.21	-0.041
5/20/2007	13:42:22	60	61.21	-0.041
5/20/2007	13:42:22	60.5	61.21	-0.039
5/20/2007	13:42:23	61	61.21	-0.041
5/20/2007	13:42:23	61.5	61.21	-0.041
5/20/2007	13:42:24	62	61.21	-0.041
5/20/2007	13:42:24	62.5	61.21	-0.041
5/20/2007	13:42:25	63	61.21	-0.041
5/20/2007	13:42:25	63.5	61.21	-0.041
5/20/2007	13:42:26	64	61.21	-0.041
5/20/2007	13:42:26	64.5	61.21	-0.041
5/20/2007	13:42:27	65	61.21	-0.041
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5/20/2007	13:42:28	66	61.21	-0.041
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5/20/2007	13:42:29	67	61.21	-0.041
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5/20/2007	13:42:30	68	61.21	-0.041
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5/20/2007	13:42:31	69	61.21	-0.041
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5/20/2007	13:42:34	72	61.21	-0.041
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5/20/2007	13:42:35	73	61.21	-0.041
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5/20/2007	13:42:37	75	61.21	-0.041
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5/20/2007	13:42:38	76	61.21	-0.041
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5/20/2007	13:42:39	77	61.21	-0.041
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5/20/2007	13:42:40	78	61.21	-0.041
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5/20/2007	13:42:41	79	61.21	-0.041
5/20/2007	13:42:41	79.5	61.21	-0.041
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5/20/2007	13:42:44	82.5	61.21	-0.041

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5/20/2007	13:42:47	85	61.21	-0.041
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5/20/2007	13:42:52	90	61.24	-0.04
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5/20/2007	13:42:57	95	61.24	-0.04
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5/20/2007	13:43:06	104	61.24	-0.04
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5/20/2007	13:43:09	107	61.24	-0.04
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5/20/2007	13:43:10	108	61.24	-0.04
5/20/2007	13:43:10	108.5	61.24	-0.04

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5/20/2007	13:44:49	207	61.24	-0.04
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5/20/2007	13:44:51	209	61.24	-0.04
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5/20/2007	13:44:52	210	61.26	-0.04
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5/20/2007	13:44:56	214	61.26	-0.04
5/20/2007	13:44:56	214.5	61.26	-0.04
5/20/2007	13:44:57	215	61.26	-0.04
5/20/2007	13:44:57	215.5	61.26	-0.04
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5/20/2007	13:44:59	217	61.24	-0.04
5/20/2007	13:44:59	217.5	61.26	-0.04
5/20/2007	13:45:00	218	61.24	-0.038
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5/20/2007	13:45:01	219	61.24	-0.038
5/20/2007	13:45:01	219.5	61.24	-0.038
5/20/2007	13:45:02	220	61.26	-0.038
5/20/2007	13:45:02	220.5	61.24	-0.038
5/20/2007	13:45:03	221	61.24	-0.04
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5/20/2007	13:45:04	222	61.26	-0.038
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5/20/2007	13:45:05	223	61.24	-0.038
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5/20/2007	13:45:06	224	61.24	-0.038
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5/20/2007	13:45:07	225	61.26	-0.038
5/20/2007	13:45:07	225.5	61.26	-0.038
5/20/2007	13:45:08	226	61.24	-0.038
5/20/2007	13:45:08	226.5	61.26	-0.038
5/20/2007	13:45:09	227	61.26	-0.038
5/20/2007	13:45:09	227.5	61.24	-0.038
5/20/2007	13:45:10	228	61.24	-0.04
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5/20/2007	13:45:11	229	61.24	-0.038
5/20/2007	13:45:11	229.5	61.26	-0.038
5/20/2007	13:45:12	230	61.26	-0.038
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5/20/2007	13:45:13	231	61.26	-0.04
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5/20/2007	13:45:14	232	61.24	-0.038
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5/20/2007	13:46:57	335	61.26	-0.04
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5/20/2007	13:47:04	342	61.26	-0.04
5/20/2007	13:47:04	342.5	61.26	-0.04

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5/20/2007	13:47:06	344.5	61.26	-0.04
5/20/2007	13:47:07	345	61.26	-0.04
5/20/2007	13:47:07	345.5	61.26	-0.04
5/20/2007	13:47:08	346	61.26	-0.04
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5/20/2007	13:47:36	374.5	61.26	-0.04
5/20/2007	13:47:37	375	61.26	-0.04
5/20/2007	13:47:37	375.5	61.26	-0.038
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5/20/2007	13:47:41	379	61.26	-0.04
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5/20/2007	13:47:43	381	61.26	-0.04
5/20/2007	13:47:43	381.5	61.26	-0.04
5/20/2007	13:47:44	382	61.26	-0.04
5/20/2007	13:47:44	382.5	61.26	-0.04
5/20/2007	13:47:45	383	61.26	-0.04
5/20/2007	13:47:45	383.5	61.26	-0.04
5/20/2007	13:47:46	384	61.26	-0.04
5/20/2007	13:47:46	384.5	61.26	-0.04
5/20/2007	13:47:47	385	61.26	-0.04
5/20/2007	13:47:47	385.5	61.26	-0.04
5/20/2007	13:47:48	386	61.26	-0.04
5/20/2007	13:47:48	386.5	61.26	-0.04
5/20/2007	13:47:49	387	61.26	-0.04
5/20/2007	13:47:49	387.5	61.26	-0.04
5/20/2007	13:47:50	388	61.26	-0.04
5/20/2007	13:47:50	388.5	61.26	-0.04
5/20/2007	13:47:51	389	61.26	-0.04

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:40:07
Report from file: ...\\SN12694 2007-05-20 130959 Test #6.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #6

Test defined on: 5/20/2007 13:09:41
Test started on: 5/20/2007 13:09:59
Test stopped on: 5/20/2007 13:15:31

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 663

TOTAL DATA SAMPLES 663

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 14.142 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	13:09:59	0	61.05	0
5/20/2007	13:10:00	0.5	61.08	-0.011
5/20/2007	13:10:00	1	61.1	-0.014
5/20/2007	13:10:01	1.5	61.1	-0.016
5/20/2007	13:10:01	2	61.12	-0.016
5/20/2007	13:10:02	2.5	61.12	-0.018
5/20/2007	13:10:02	3	61.12	-0.018
5/20/2007	13:10:03	3.5	61.12	-0.018
5/20/2007	13:10:03	4	61.12	-0.018
5/20/2007	13:10:04	4.5	61.12	-0.018

5/20/2007	13:10:04	5	61.12	-0.019
5/20/2007	13:10:05	5.5	61.12	-0.019
5/20/2007	13:10:05	6	61.14	-0.019
5/20/2007	13:10:06	6.5	61.14	-0.019
5/20/2007	13:10:06	7	61.14	-0.019
5/20/2007	13:10:07	7.5	61.14	-0.019
5/20/2007	13:10:07	8	61.14	-0.019
5/20/2007	13:10:08	8.5	61.14	-0.019
5/20/2007	13:10:08	9	61.14	-0.019
5/20/2007	13:10:09	9.5	61.14	-0.019
5/20/2007	13:10:09	10	61.14	-0.019
5/20/2007	13:10:10	10.5	61.14	-0.019
5/20/2007	13:10:10	11	61.14	-0.019
5/20/2007	13:10:11	11.5	61.14	-0.019
5/20/2007	13:10:11	12	61.14	-0.019
5/20/2007	13:10:12	12.5	61.14	-0.019
5/20/2007	13:10:12	13	61.14	-0.019
5/20/2007	13:10:13	13.5	61.14	-0.019
5/20/2007	13:10:13	14	61.14	-0.021
5/20/2007	13:10:14	14.5	61.14	-0.019
5/20/2007	13:10:14	15	61.14	-0.019
5/20/2007	13:10:15	15.5	61.14	-0.021
5/20/2007	13:10:15	16	61.14	-0.019
5/20/2007	13:10:16	16.5	61.14	-0.019
5/20/2007	13:10:16	17	61.14	-0.019
5/20/2007	13:10:17	17.5	61.14	-0.019
5/20/2007	13:10:17	18	61.14	-0.019
5/20/2007	13:10:18	18.5	61.14	-0.021
5/20/2007	13:10:18	19	61.14	-0.021
5/20/2007	13:10:19	19.5	61.14	-0.019
5/20/2007	13:10:19	20	61.14	-0.019
5/20/2007	13:10:20	20.5	61.14	-0.019
5/20/2007	13:10:20	21	61.17	-0.018
5/20/2007	13:10:21	21.5	61.14	-0.019
5/20/2007	13:10:21	22	61.17	-0.018
5/20/2007	13:10:22	22.5	61.17	-0.018
5/20/2007	13:10:22	23	61.17	-0.018
5/20/2007	13:10:23	23.5	61.17	-0.018
5/20/2007	13:10:23	24	61.17	-0.018
5/20/2007	13:10:24	24.5	61.17	-0.018
5/20/2007	13:10:24	25	61.17	-0.02
5/20/2007	13:10:25	25.5	61.17	-0.018
5/20/2007	13:10:25	26	61.17	-0.018
5/20/2007	13:10:26	26.5	61.17	-0.018
5/20/2007	13:10:26	27	61.17	-0.018
5/20/2007	13:10:27	27.5	61.17	-0.018
5/20/2007	13:10:27	28	61.17	-0.018
5/20/2007	13:10:28	28.5	61.17	-0.018
5/20/2007	13:10:28	29	61.17	-0.018
5/20/2007	13:10:29	29.5	61.17	-0.02
5/20/2007	13:10:29	30	61.17	-0.018
5/20/2007	13:10:30	30.5	61.17	-0.018

5/20/2007	13:10:30	31	61.17	-0.018
5/20/2007	13:10:31	31.5	61.17	-0.018
5/20/2007	13:10:31	32	61.17	-0.018
5/20/2007	13:10:32	32.5	61.17	-0.02
5/20/2007	13:10:32	33	61.17	-0.018
5/20/2007	13:10:33	33.5	61.17	-0.018
5/20/2007	13:10:33	34	61.17	-0.018
5/20/2007	13:10:34	34.5	61.17	-0.018
5/20/2007	13:10:34	35	61.17	-0.018
5/20/2007	13:10:35	35.5	61.17	-0.018
5/20/2007	13:10:35	36	61.17	-0.018
5/20/2007	13:10:36	36.5	61.17	-0.018
5/20/2007	13:10:36	37	61.17	-0.018
5/20/2007	13:10:37	37.5	61.17	-0.018
5/20/2007	13:10:37	38	61.17	-0.018
5/20/2007	13:10:38	38.5	61.17	-0.02
5/20/2007	13:10:38	39	61.17	-0.018
5/20/2007	13:10:39	39.5	61.17	-0.018
5/20/2007	13:10:39	40	61.17	-0.018
5/20/2007	13:10:40	40.5	61.17	-0.018
5/20/2007	13:10:40	41	61.17	-0.018
5/20/2007	13:10:41	41.5	61.17	-0.018
5/20/2007	13:10:41	42	61.17	-0.018
5/20/2007	13:10:42	42.5	61.17	-0.018
5/20/2007	13:10:42	43	61.17	-0.018
5/20/2007	13:10:43	43.5	61.19	-0.02
5/20/2007	13:10:43	44	61.19	-0.018
5/20/2007	13:10:44	44.5	61.19	-0.018
5/20/2007	13:10:44	45	61.19	-0.018
5/20/2007	13:10:45	45.5	61.19	-0.018
5/20/2007	13:10:45	46	61.19	-0.018
5/20/2007	13:10:46	46.5	61.19	-0.018
5/20/2007	13:10:46	47	61.19	-0.02
5/20/2007	13:10:47	47.5	61.19	-0.02
5/20/2007	13:10:47	48	61.19	-0.018
5/20/2007	13:10:48	48.5	61.19	-0.018
5/20/2007	13:10:48	49	61.19	-0.018
5/20/2007	13:10:49	49.5	61.19	-0.018
5/20/2007	13:10:49	50	61.19	-0.018
5/20/2007	13:10:50	50.5	61.19	-0.018
5/20/2007	13:10:50	51	61.19	-0.018
5/20/2007	13:10:51	51.5	61.19	-0.018
5/20/2007	13:10:51	52	61.19	-0.018
5/20/2007	13:10:52	52.5	61.19	0.009
5/20/2007	13:10:52	53	61.19	0.389
5/20/2007	13:10:53	53.5	61.19	0.183
5/20/2007	13:10:53	54	61.19	0.523
5/20/2007	13:10:54	54.5	61.19	0.341
5/20/2007	13:10:54	55	61.19	0.107
5/20/2007	13:10:55	55.5	61.19	0.051
5/20/2007	13:10:55	56	61.19	0.028
5/20/2007	13:10:56	56.5	61.19	0.015

5/20/2007	13:10:56	57	61.19	0.003
5/20/2007	13:10:57	57.5	61.19	-0.01
5/20/2007	13:10:57	58	61.19	-0.018
5/20/2007	13:10:58	58.5	61.19	-0.022
5/20/2007	13:10:58	59	61.19	-0.025
5/20/2007	13:10:59	59.5	61.19	-0.029
5/20/2007	13:10:59	60	61.19	-0.035
5/20/2007	13:11:00	60.5	61.19	-0.037
5/20/2007	13:11:00	61	61.19	-0.039
5/20/2007	13:11:01	61.5	61.19	-0.039
5/20/2007	13:11:01	62	61.19	-0.039
5/20/2007	13:11:02	62.5	61.19	-0.041
5/20/2007	13:11:02	63	61.19	-0.043
5/20/2007	13:11:03	63.5	61.19	-0.041
5/20/2007	13:11:03	64	61.19	-0.041
5/20/2007	13:11:04	64.5	61.19	-0.041
5/20/2007	13:11:04	65	61.19	-0.041
5/20/2007	13:11:05	65.5	61.19	-0.043
5/20/2007	13:11:05	66	61.19	-0.043
5/20/2007	13:11:06	66.5	61.19	-0.043
5/20/2007	13:11:06	67	61.19	-0.043
5/20/2007	13:11:07	67.5	61.19	-0.043
5/20/2007	13:11:07	68	61.19	-0.043
5/20/2007	13:11:08	68.5	61.19	-0.043
5/20/2007	13:11:08	69	61.19	-0.043
5/20/2007	13:11:09	69.5	61.19	-0.043
5/20/2007	13:11:09	70	61.19	-0.045
5/20/2007	13:11:10	70.5	61.19	-0.043
5/20/2007	13:11:10	71	61.19	-0.043
5/20/2007	13:11:11	71.5	61.19	-0.043
5/20/2007	13:11:11	72	61.19	-0.043
5/20/2007	13:11:12	72.5	61.21	-0.042
5/20/2007	13:11:12	73	61.19	-0.043
5/20/2007	13:11:13	73.5	61.21	-0.042
5/20/2007	13:11:13	74	61.19	-0.043
5/20/2007	13:11:14	74.5	61.21	-0.042
5/20/2007	13:11:14	75	61.19	-0.043
5/20/2007	13:11:15	75.5	61.21	-0.042
5/20/2007	13:11:15	76	61.19	-0.043
5/20/2007	13:11:16	76.5	61.21	-0.042
5/20/2007	13:11:16	77	61.19	-0.043
5/20/2007	13:11:17	77.5	61.21	-0.042
5/20/2007	13:11:17	78	61.21	-0.042
5/20/2007	13:11:18	78.5	61.19	-0.043
5/20/2007	13:11:18	79	61.21	-0.042
5/20/2007	13:11:19	79.5	61.21	-0.042
5/20/2007	13:11:19	80	61.21	-0.04
5/20/2007	13:11:20	80.5	61.21	-0.04
5/20/2007	13:11:20	81	61.21	-0.04
5/20/2007	13:11:21	81.5	61.21	-0.04
5/20/2007	13:11:21	82	61.21	-0.04
5/20/2007	13:11:22	82.5	61.21	-0.042

5/20/2007	13:11:22	83	61.21	-0.04
5/20/2007	13:11:23	83.5	61.21	-0.04
5/20/2007	13:11:23	84	61.21	-0.04
5/20/2007	13:11:24	84.5	61.21	-0.04
5/20/2007	13:11:24	85	61.21	-0.04
5/20/2007	13:11:25	85.5	61.21	-0.04
5/20/2007	13:11:25	86	61.21	-0.038
5/20/2007	13:11:26	86.5	61.21	-0.04
5/20/2007	13:11:26	87	61.21	-0.038
5/20/2007	13:11:27	87.5	61.21	-0.04
5/20/2007	13:11:27	88	61.21	-0.04
5/20/2007	13:11:28	88.5	61.21	-0.04
5/20/2007	13:11:28	89	61.21	-0.04
5/20/2007	13:11:29	89.5	61.21	-0.038
5/20/2007	13:11:29	90	61.21	-0.038
5/20/2007	13:11:30	90.5	61.21	-0.038
5/20/2007	13:11:30	91	61.21	-0.038
5/20/2007	13:11:31	91.5	61.21	-0.038
5/20/2007	13:11:31	92	61.21	-0.038
5/20/2007	13:11:32	92.5	61.21	-0.038
5/20/2007	13:11:32	93	61.21	-0.038
5/20/2007	13:11:33	93.5	61.21	-0.038
5/20/2007	13:11:33	94	61.21	-0.038
5/20/2007	13:11:34	94.5	61.21	-0.038
5/20/2007	13:11:34	95	61.21	-0.038
5/20/2007	13:11:35	95.5	61.21	-0.038
5/20/2007	13:11:35	96	61.21	-0.038
5/20/2007	13:11:36	96.5	61.21	-0.038
5/20/2007	13:11:36	97	61.21	-0.038
5/20/2007	13:11:37	97.5	61.21	-0.038
5/20/2007	13:11:37	98	61.21	-0.038
5/20/2007	13:11:38	98.5	61.21	-0.038
5/20/2007	13:11:38	99	61.21	-0.038
5/20/2007	13:11:39	99.5	61.21	-0.038
5/20/2007	13:11:39	100	61.21	-0.038
5/20/2007	13:11:40	100.5	61.21	-0.038
5/20/2007	13:11:40	101	61.21	-0.038
5/20/2007	13:11:41	101.5	61.21	-0.038
5/20/2007	13:11:41	102	61.21	-0.038
5/20/2007	13:11:42	102.5	61.21	-0.038
5/20/2007	13:11:42	103	61.21	-0.038
5/20/2007	13:11:43	103.5	61.21	-0.038
5/20/2007	13:11:43	104	61.21	-0.038
5/20/2007	13:11:44	104.5	61.21	-0.038
5/20/2007	13:11:44	105	61.21	-0.04
5/20/2007	13:11:45	105.5	61.21	-0.038
5/20/2007	13:11:45	106	61.21	-0.038
5/20/2007	13:11:46	106.5	61.21	-0.038
5/20/2007	13:11:46	107	61.21	-0.038
5/20/2007	13:11:47	107.5	61.21	-0.038
5/20/2007	13:11:47	108	61.21	-0.038
5/20/2007	13:11:48	108.5	61.21	-0.038

5/20/2007	13:11:48	109	61.21	-0.038
5/20/2007	13:11:49	109.5	61.21	-0.038
5/20/2007	13:11:49	110	61.21	-0.038
5/20/2007	13:11:50	110.5	61.21	-0.038
5/20/2007	13:11:50	111	61.21	-0.038
5/20/2007	13:11:51	111.5	61.21	-0.038
5/20/2007	13:11:51	112	61.21	-0.038
5/20/2007	13:11:52	112.5	61.21	-0.038
5/20/2007	13:11:52	113	61.21	-0.038
5/20/2007	13:11:53	113.5	61.21	-0.038
5/20/2007	13:11:53	114	61.21	-0.04
5/20/2007	13:11:54	114.5	61.21	-0.038
5/20/2007	13:11:54	115	61.21	-0.038
5/20/2007	13:11:55	115.5	61.21	-0.038
5/20/2007	13:11:55	116	61.21	-0.038
5/20/2007	13:11:56	116.5	61.21	-0.038
5/20/2007	13:11:56	117	61.21	-0.038
5/20/2007	13:11:57	117.5	61.21	-0.038
5/20/2007	13:11:57	118	61.21	-0.038
5/20/2007	13:11:58	118.5	61.21	-0.038
5/20/2007	13:11:58	119	61.21	-0.038
5/20/2007	13:11:59	119.5	61.21	-0.04
5/20/2007	13:11:59	120	61.21	-0.038
5/20/2007	13:12:00	120.5	61.21	-0.038
5/20/2007	13:12:00	121	61.21	-0.038
5/20/2007	13:12:01	121.5	61.21	-0.038
5/20/2007	13:12:01	122	61.24	-0.038
5/20/2007	13:12:02	122.5	61.21	-0.038
5/20/2007	13:12:02	123	61.21	-0.038
5/20/2007	13:12:03	123.5	61.21	-0.038
5/20/2007	13:12:03	124	61.21	-0.038
5/20/2007	13:12:04	124.5	61.21	-0.038
5/20/2007	13:12:04	125	61.21	-0.038
5/20/2007	13:12:05	125.5	61.21	-0.038
5/20/2007	13:12:05	126	61.21	-0.038
5/20/2007	13:12:06	126.5	61.21	-0.038
5/20/2007	13:12:06	127	61.21	-0.038
5/20/2007	13:12:07	127.5	61.21	-0.038
5/20/2007	13:12:07	128	61.21	-0.038
5/20/2007	13:12:08	128.5	61.21	-0.038
5/20/2007	13:12:08	129	61.21	-0.038
5/20/2007	13:12:09	129.5	61.21	-0.038
5/20/2007	13:12:09	130	61.21	-0.038
5/20/2007	13:12:10	130.5	61.21	-0.038
5/20/2007	13:12:10	131	61.21	-0.038
5/20/2007	13:12:11	131.5	61.21	-0.038
5/20/2007	13:12:11	132	61.21	-0.038
5/20/2007	13:12:12	132.5	61.21	-0.038
5/20/2007	13:12:12	133	61.21	-0.038
5/20/2007	13:12:13	133.5	61.21	-0.036
5/20/2007	13:12:13	134	61.21	-0.038
5/20/2007	13:12:14	134.5	61.21	-0.038

5/20/2007	13:12:14	135	61.21	-0.038
5/20/2007	13:12:15	135.5	61.21	-0.038
5/20/2007	13:12:15	136	61.21	-0.038
5/20/2007	13:12:16	136.5	61.21	-0.038
5/20/2007	13:12:16	137	61.21	-0.038
5/20/2007	13:12:17	137.5	61.21	-0.038
5/20/2007	13:12:17	138	61.21	-0.038
5/20/2007	13:12:18	138.5	61.21	-0.04
5/20/2007	13:12:18	139	61.21	-0.038
5/20/2007	13:12:19	139.5	61.21	-0.038
5/20/2007	13:12:19	140	61.21	-0.038
5/20/2007	13:12:20	140.5	61.21	-0.038
5/20/2007	13:12:20	141	61.21	-0.038
5/20/2007	13:12:21	141.5	61.21	-0.038
5/20/2007	13:12:21	142	61.21	-0.038
5/20/2007	13:12:22	142.5	61.21	-0.04
5/20/2007	13:12:22	143	61.21	-0.038
5/20/2007	13:12:23	143.5	61.21	-0.038
5/20/2007	13:12:23	144	61.21	-0.038
5/20/2007	13:12:24	144.5	61.21	-0.038
5/20/2007	13:12:24	145	61.21	-0.038
5/20/2007	13:12:25	145.5	61.21	-0.038
5/20/2007	13:12:25	146	61.21	-0.038
5/20/2007	13:12:26	146.5	61.21	-0.038
5/20/2007	13:12:26	147	61.21	-0.038
5/20/2007	13:12:27	147.5	61.21	-0.038
5/20/2007	13:12:27	148	61.21	-0.038
5/20/2007	13:12:28	148.5	61.21	-0.04
5/20/2007	13:12:28	149	61.21	-0.038
5/20/2007	13:12:29	149.5	61.21	-0.038
5/20/2007	13:12:29	150	61.21	-0.038
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5/20/2007	13:15:11	312	61.21	-0.033
5/20/2007	13:15:12	312.5	61.21	-0.033
5/20/2007	13:15:12	313	61.21	-0.033
5/20/2007	13:15:13	313.5	61.21	-0.033
5/20/2007	13:15:13	314	61.21	-0.033
5/20/2007	13:15:14	314.5	61.21	-0.033
5/20/2007	13:15:14	315	61.21	-0.033
5/20/2007	13:15:15	315.5	61.21	-0.033
5/20/2007	13:15:15	316	61.21	-0.033
5/20/2007	13:15:16	316.5	61.21	-0.034

5/20/2007	13:15:16	317	61.21	-0.034
5/20/2007	13:15:17	317.5	61.21	-0.034
5/20/2007	13:15:17	318	61.21	-0.034
5/20/2007	13:15:18	318.5	61.21	-0.034
5/20/2007	13:15:18	319	61.21	-0.034
5/20/2007	13:15:19	319.5	61.21	-0.034
5/20/2007	13:15:19	320	61.21	-0.034
5/20/2007	13:15:20	320.5	61.21	-0.034
5/20/2007	13:15:20	321	61.21	-0.034
5/20/2007	13:15:21	321.5	61.21	-0.034
5/20/2007	13:15:21	322	61.21	-0.034
5/20/2007	13:15:22	322.5	61.21	-0.034
5/20/2007	13:15:22	323	61.21	-0.034
5/20/2007	13:15:23	323.5	61.21	-0.034
5/20/2007	13:15:23	324	61.21	-0.034
5/20/2007	13:15:24	324.5	61.21	-0.034
5/20/2007	13:15:24	325	61.21	-0.033
5/20/2007	13:15:25	325.5	61.21	-0.033
5/20/2007	13:15:25	326	61.21	-0.034
5/20/2007	13:15:26	326.5	61.21	-0.033
5/20/2007	13:15:26	327	61.21	-0.034
5/20/2007	13:15:27	327.5	61.21	-0.033
5/20/2007	13:15:27	328	61.21	-0.034
5/20/2007	13:15:28	328.5	61.21	-0.033
5/20/2007	13:15:28	329	61.21	-0.033
5/20/2007	13:15:29	329.5	61.21	-0.033
5/20/2007	13:15:29	330	61.21	-0.033
5/20/2007	13:15:30	330.5	61.21	-0.033
5/20/2007	13:15:30	331	61.21	-0.034

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:47:29
 Report from file: ...\\SN12694 2007-05-20 133600 Test #9.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #9

Test defined on: 5/20/2007 13:34:13
 Test started on: 5/20/2007 13:36:00
 Test stopped on: 5/20/2007 13:40:41

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 562

TOTAL DATA SAMPLES 562

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 14.236 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	13:36:00	0	60.99	0
5/20/2007	13:36:01	0.5	61.03	-0.012
5/20/2007	13:36:01	1	61.03	-0.016
5/20/2007	13:36:02	1.5	61.05	-0.018
5/20/2007	13:36:02	2	61.05	-0.018
5/20/2007	13:36:03	2.5	61.05	-0.019
5/20/2007	13:36:03	3	61.05	-0.019
5/20/2007	13:36:04	3.5	61.08	-0.019
5/20/2007	13:36:04	4	61.08	-0.019
5/20/2007	13:36:05	4.5	61.08	-0.019

5/20/2007	13:36:05	5	61.08	-0.021
5/20/2007	13:36:06	5.5	61.08	-0.021
5/20/2007	13:36:06	6	61.08	-0.019
5/20/2007	13:36:07	6.5	61.08	-0.021
5/20/2007	13:36:07	7	61.08	-0.019
5/20/2007	13:36:08	7.5	61.08	-0.021
5/20/2007	13:36:08	8	61.08	-0.021
5/20/2007	13:36:09	8.5	61.1	-0.02
5/20/2007	13:36:09	9	61.08	-0.021
5/20/2007	13:36:10	9.5	61.1	-0.02
5/20/2007	13:36:10	10	61.1	-0.018
5/20/2007	13:36:11	10.5	61.1	-0.02
5/20/2007	13:36:11	11	61.1	-0.022
5/20/2007	13:36:12	11.5	61.1	-0.022
5/20/2007	13:36:12	12	61.1	-0.02
5/20/2007	13:36:13	12.5	61.1	-0.02
5/20/2007	13:36:13	13	61.1	-0.02
5/20/2007	13:36:14	13.5	61.1	-0.02
5/20/2007	13:36:14	14	61.1	-0.02
5/20/2007	13:36:15	14.5	61.1	-0.02
5/20/2007	13:36:15	15	61.1	-0.02
5/20/2007	13:36:16	15.5	61.1	-0.02
5/20/2007	13:36:16	16	61.1	-0.02
5/20/2007	13:36:17	16.5	61.1	-0.02
5/20/2007	13:36:17	17	61.1	-0.02
5/20/2007	13:36:18	17.5	61.1	-0.02
5/20/2007	13:36:18	18	61.1	-0.02
5/20/2007	13:36:19	18.5	61.1	-0.02
5/20/2007	13:36:19	19	61.1	-0.02
5/20/2007	13:36:20	19.5	61.12	-0.022
5/20/2007	13:36:20	20	61.1	-0.022
5/20/2007	13:36:21	20.5	61.12	-0.022
5/20/2007	13:36:21	21	61.12	-0.022
5/20/2007	13:36:22	21.5	61.12	-0.022
5/20/2007	13:36:22	22	61.12	-0.02
5/20/2007	13:36:23	22.5	61.12	-0.02
5/20/2007	13:36:23	23	61.12	-0.02
5/20/2007	13:36:24	23.5	61.12	-0.022
5/20/2007	13:36:24	24	61.12	-0.02
5/20/2007	13:36:25	24.5	61.12	-0.022
5/20/2007	13:36:25	25	61.12	-0.02
5/20/2007	13:36:26	25.5	61.12	-0.02
5/20/2007	13:36:26	26	61.12	-0.022
5/20/2007	13:36:27	26.5	61.12	-0.022
5/20/2007	13:36:27	27	61.12	-0.025
5/20/2007	13:36:28	27.5	61.12	-0.022
5/20/2007	13:36:28	28	61.12	-0.022
5/20/2007	13:36:29	28.5	61.12	-0.066
5/20/2007	13:36:29	29	61.12	-0.227
5/20/2007	13:36:30	29.5	61.12	-0.209
5/20/2007	13:36:30	30	61.12	-0.171
5/20/2007	13:36:31	30.5	61.12	-0.137

5/20/2007	13:36:31	31	61.14	-0.136
5/20/2007	13:36:32	31.5	61.12	-0.098
5/20/2007	13:36:32	32	61.14	-0.157
5/20/2007	13:36:33	32.5	61.14	-0.117
5/20/2007	13:36:33	33	61.14	-0.142
5/20/2007	13:36:34	33.5	61.14	-0.176
5/20/2007	13:36:34	34	61.14	0.035
5/20/2007	13:36:35	34.5	61.14	-0.029
5/20/2007	13:36:35	35	61.14	-0.054
5/20/2007	13:36:36	35.5	61.14	-0.073
5/20/2007	13:36:36	36	61.14	-0.034
5/20/2007	13:36:37	36.5	61.14	0.013
5/20/2007	13:36:37	37	61.14	-0.086
5/20/2007	13:36:38	37.5	61.14	0.025
5/20/2007	13:36:38	38	61.14	-0.082
5/20/2007	13:36:39	38.5	61.14	-0.04
5/20/2007	13:36:39	39	61.14	-0.033
5/20/2007	13:36:40	39.5	61.14	-0.034
5/20/2007	13:36:40	40	61.14	-0.036
5/20/2007	13:36:41	40.5	61.14	-0.033
5/20/2007	13:36:41	41	61.14	-0.034
5/20/2007	13:36:42	41.5	61.14	-0.061
5/20/2007	13:36:42	42	61.14	-0.017
5/20/2007	13:36:43	42.5	61.14	-0.034
5/20/2007	13:36:43	43	61.14	-0.034
5/20/2007	13:36:44	43.5	61.14	-0.033
5/20/2007	13:36:44	44	61.14	-0.031
5/20/2007	13:36:45	44.5	61.14	-0.031
5/20/2007	13:36:45	45	61.14	-0.031
5/20/2007	13:36:46	45.5	61.17	-0.03
5/20/2007	13:36:46	46	61.14	-0.031
5/20/2007	13:36:47	46.5	61.17	-0.03
5/20/2007	13:36:47	47	61.17	-0.028
5/20/2007	13:36:48	47.5	61.17	-0.028
5/20/2007	13:36:48	48	61.17	-0.028
5/20/2007	13:36:49	48.5	61.17	-0.028
5/20/2007	13:36:49	49	61.17	-0.028
5/20/2007	13:36:50	49.5	61.17	-0.028
5/20/2007	13:36:50	50	61.17	-0.028
5/20/2007	13:36:51	50.5	61.17	-0.03
5/20/2007	13:36:51	51	61.17	-0.028
5/20/2007	13:36:52	51.5	61.17	-0.028
5/20/2007	13:36:52	52	61.17	-0.028
5/20/2007	13:36:53	52.5	61.17	-0.028
5/20/2007	13:36:53	53	61.17	-0.028
5/20/2007	13:36:54	53.5	61.17	-0.028
5/20/2007	13:36:54	54	61.17	-0.028
5/20/2007	13:36:55	54.5	61.17	-0.028
5/20/2007	13:36:55	55	61.17	-0.026
5/20/2007	13:36:56	55.5	61.17	-0.028
5/20/2007	13:36:56	56	61.17	-0.028
5/20/2007	13:36:57	56.5	61.17	-0.026

5/20/2007	13:36:57	57	61.17	-0.028
5/20/2007	13:36:58	57.5	61.17	-0.026
5/20/2007	13:36:58	58	61.17	-0.028
5/20/2007	13:36:59	58.5	61.17	-0.028
5/20/2007	13:36:59	59	61.17	-0.028
5/20/2007	13:37:00	59.5	61.17	-0.028
5/20/2007	13:37:00	60	61.17	-0.028
5/20/2007	13:37:01	60.5	61.17	-0.026
5/20/2007	13:37:01	61	61.17	-0.028
5/20/2007	13:37:02	61.5	61.17	-0.028
5/20/2007	13:37:02	62	61.17	-0.028
5/20/2007	13:37:03	62.5	61.17	-0.028
5/20/2007	13:37:03	63	61.17	-0.028
5/20/2007	13:37:04	63.5	61.17	-0.028
5/20/2007	13:37:04	64	61.17	-0.028
5/20/2007	13:37:05	64.5	61.19	-0.028
5/20/2007	13:37:05	65	61.17	-0.028
5/20/2007	13:37:06	65.5	61.17	-0.028
5/20/2007	13:37:06	66	61.17	-0.028
5/20/2007	13:37:07	66.5	61.19	-0.028
5/20/2007	13:37:07	67	61.17	-0.028
5/20/2007	13:37:08	67.5	61.19	-0.028
5/20/2007	13:37:08	68	61.19	-0.028
5/20/2007	13:37:09	68.5	61.17	-0.028
5/20/2007	13:37:09	69	61.17	-0.028
5/20/2007	13:37:10	69.5	61.19	-0.028
5/20/2007	13:37:10	70	61.19	-0.028
5/20/2007	13:37:11	70.5	61.19	-0.028
5/20/2007	13:37:11	71	61.19	-0.028
5/20/2007	13:37:12	71.5	61.19	-0.028
5/20/2007	13:37:12	72	61.19	-0.028
5/20/2007	13:37:13	72.5	61.19	-0.028
5/20/2007	13:37:13	73	61.19	-0.028
5/20/2007	13:37:14	73.5	61.19	-0.028
5/20/2007	13:37:14	74	61.19	-0.028
5/20/2007	13:37:15	74.5	61.19	-0.028
5/20/2007	13:37:15	75	61.19	-0.028
5/20/2007	13:37:16	75.5	61.19	-0.028
5/20/2007	13:37:16	76	61.19	-0.028
5/20/2007	13:37:17	76.5	61.19	-0.028
5/20/2007	13:37:17	77	61.19	-0.028
5/20/2007	13:37:18	77.5	61.19	-0.028
5/20/2007	13:37:18	78	61.19	-0.028
5/20/2007	13:37:19	78.5	61.19	-0.026
5/20/2007	13:37:19	79	61.19	-0.026
5/20/2007	13:37:20	79.5	61.19	-0.026
5/20/2007	13:37:20	80	61.19	-0.026
5/20/2007	13:37:21	80.5	61.19	-0.026
5/20/2007	13:37:21	81	61.19	-0.026
5/20/2007	13:37:22	81.5	61.19	-0.028
5/20/2007	13:37:22	82	61.19	-0.028
5/20/2007	13:37:23	82.5	61.19	-0.026

5/20/2007	13:37:23	83	61.19	-0.026
5/20/2007	13:37:24	83.5	61.19	-0.026
5/20/2007	13:37:24	84	61.19	-0.028
5/20/2007	13:37:25	84.5	61.19	-0.026
5/20/2007	13:37:25	85	61.19	-0.026
5/20/2007	13:37:26	85.5	61.19	-0.026
5/20/2007	13:37:26	86	61.19	-0.026
5/20/2007	13:37:27	86.5	61.19	-0.026
5/20/2007	13:37:27	87	61.19	-0.026
5/20/2007	13:37:28	87.5	61.19	-0.026
5/20/2007	13:37:28	88	61.19	-0.026
5/20/2007	13:37:29	88.5	61.19	-0.026
5/20/2007	13:37:29	89	61.19	-0.026
5/20/2007	13:37:30	89.5	61.19	-0.026
5/20/2007	13:37:30	90	61.19	-0.026
5/20/2007	13:37:31	90.5	61.19	-0.026
5/20/2007	13:37:31	91	61.19	-0.026
5/20/2007	13:37:32	91.5	61.19	-0.026
5/20/2007	13:37:32	92	61.19	-0.026
5/20/2007	13:37:33	92.5	61.19	-0.024
5/20/2007	13:37:33	93	61.19	-0.026
5/20/2007	13:37:34	93.5	61.19	-0.024
5/20/2007	13:37:34	94	61.19	-0.026
5/20/2007	13:37:35	94.5	61.19	-0.026
5/20/2007	13:37:35	95	61.19	-0.024
5/20/2007	13:37:36	95.5	61.19	-0.024
5/20/2007	13:37:36	96	61.19	-0.024
5/20/2007	13:37:37	96.5	61.19	-0.024
5/20/2007	13:37:37	97	61.19	-0.026
5/20/2007	13:37:38	97.5	61.19	-0.024
5/20/2007	13:37:38	98	61.19	-0.026
5/20/2007	13:37:39	98.5	61.19	-0.097
5/20/2007	13:37:39	99	61.19	-0.16
5/20/2007	13:37:40	99.5	61.19	-0.171
5/20/2007	13:37:40	100	61.21	-0.148
5/20/2007	13:37:41	100.5	61.19	0.183
5/20/2007	13:37:41	101	61.19	-0.129
5/20/2007	13:37:42	101.5	61.19	-0.058
5/20/2007	13:37:42	102	61.21	-0.042
5/20/2007	13:37:43	102.5	61.19	-0.039
5/20/2007	13:37:43	103	61.19	-0.039
5/20/2007	13:37:44	103.5	61.21	-0.035
5/20/2007	13:37:44	104	61.19	-0.035
5/20/2007	13:37:45	104.5	61.19	-0.035
5/20/2007	13:37:45	105	61.19	-0.033
5/20/2007	13:37:46	105.5	61.19	-0.033
5/20/2007	13:37:46	106	61.19	-0.033
5/20/2007	13:37:47	106.5	61.19	-0.031
5/20/2007	13:37:47	107	61.19	-0.033
5/20/2007	13:37:48	107.5	61.21	-0.031
5/20/2007	13:37:48	108	61.19	-0.031
5/20/2007	13:37:49	108.5	61.21	-0.031

5/20/2007	13:37:49	109	61.21	-0.029
5/20/2007	13:37:50	109.5	61.21	-0.031
5/20/2007	13:37:50	110	61.21	-0.031
5/20/2007	13:37:51	110.5	61.21	-0.029
5/20/2007	13:37:51	111	61.21	-0.031
5/20/2007	13:37:52	111.5	61.21	-0.029
5/20/2007	13:37:52	112	61.21	-0.029
5/20/2007	13:37:53	112.5	61.21	-0.029
5/20/2007	13:37:53	113	61.19	-0.03
5/20/2007	13:37:54	113.5	61.21	-0.029
5/20/2007	13:37:54	114	61.21	-0.029
5/20/2007	13:37:55	114.5	61.21	-0.027
5/20/2007	13:37:55	115	61.21	-0.029
5/20/2007	13:37:56	115.5	61.21	-0.029
5/20/2007	13:37:56	116	61.21	-0.029
5/20/2007	13:37:57	116.5	61.21	-0.027
5/20/2007	13:37:57	117	61.21	-0.029
5/20/2007	13:37:58	117.5	61.21	-0.029
5/20/2007	13:37:58	118	61.21	-0.027
5/20/2007	13:37:59	118.5	61.21	-0.029
5/20/2007	13:37:59	119	61.21	-0.029
5/20/2007	13:38:00	119.5	61.21	-0.029
5/20/2007	13:38:00	120	61.21	-0.027
5/20/2007	13:38:01	120.5	61.21	-0.029
5/20/2007	13:38:01	121	61.21	-0.029
5/20/2007	13:38:02	121.5	61.21	-0.027
5/20/2007	13:38:02	122	61.21	-0.027
5/20/2007	13:38:03	122.5	61.21	-0.027
5/20/2007	13:38:03	123	61.21	-0.027
5/20/2007	13:38:04	123.5	61.21	-0.027
5/20/2007	13:38:04	124	61.21	-0.029
5/20/2007	13:38:05	124.5	61.21	-0.029
5/20/2007	13:38:05	125	61.21	-0.027
5/20/2007	13:38:06	125.5	61.21	-0.027
5/20/2007	13:38:06	126	61.21	-0.027
5/20/2007	13:38:07	126.5	61.21	-0.027
5/20/2007	13:38:07	127	61.21	-0.027
5/20/2007	13:38:08	127.5	61.21	-0.027
5/20/2007	13:38:08	128	61.21	-0.027
5/20/2007	13:38:09	128.5	61.21	-0.027
5/20/2007	13:38:09	129	61.21	-0.027
5/20/2007	13:38:10	129.5	61.21	-0.027
5/20/2007	13:38:10	130	61.21	-0.027
5/20/2007	13:38:11	130.5	61.21	-0.027
5/20/2007	13:38:11	131	61.21	-0.027
5/20/2007	13:38:12	131.5	61.21	-0.027
5/20/2007	13:38:12	132	61.21	-0.027
5/20/2007	13:38:13	132.5	61.21	-0.027
5/20/2007	13:38:13	133	61.21	-0.029
5/20/2007	13:38:14	133.5	61.21	-0.027
5/20/2007	13:38:14	134	61.21	-0.027
5/20/2007	13:38:15	134.5	61.21	-0.027

5/20/2007	13:38:15	135	61.21	-0.029
5/20/2007	13:38:16	135.5	61.21	-0.029
5/20/2007	13:38:16	136	61.21	-0.027
5/20/2007	13:38:17	136.5	61.21	-0.027
5/20/2007	13:38:17	137	61.21	-0.027
5/20/2007	13:38:18	137.5	61.21	-0.027
5/20/2007	13:38:18	138	61.21	-0.029
5/20/2007	13:38:19	138.5	61.21	-0.027
5/20/2007	13:38:19	139	61.21	-0.027
5/20/2007	13:38:20	139.5	61.21	-0.027
5/20/2007	13:38:20	140	61.21	-0.027
5/20/2007	13:38:21	140.5	61.21	-0.027
5/20/2007	13:38:21	141	61.21	-0.027
5/20/2007	13:38:22	141.5	61.21	-0.027
5/20/2007	13:38:22	142	61.21	-0.027
5/20/2007	13:38:23	142.5	61.21	-0.027
5/20/2007	13:38:23	143	61.21	-0.027
5/20/2007	13:38:24	143.5	61.21	-0.027
5/20/2007	13:38:24	144	61.21	-0.027
5/20/2007	13:38:25	144.5	61.21	-0.027
5/20/2007	13:38:25	145	61.21	-0.027
5/20/2007	13:38:26	145.5	61.21	-0.027
5/20/2007	13:38:26	146	61.21	-0.027
5/20/2007	13:38:27	146.5	61.21	-0.027
5/20/2007	13:38:27	147	61.21	-0.027
5/20/2007	13:38:28	147.5	61.21	-0.027
5/20/2007	13:38:28	148	61.21	-0.029
5/20/2007	13:38:29	148.5	61.21	-0.029
5/20/2007	13:38:29	149	61.21	-0.027
5/20/2007	13:38:30	149.5	61.21	-0.027
5/20/2007	13:38:30	150	61.21	-0.027
5/20/2007	13:38:31	150.5	61.21	-0.027
5/20/2007	13:38:31	151	61.21	-0.029
5/20/2007	13:38:32	151.5	61.21	-0.027
5/20/2007	13:38:32	152	61.21	-0.027
5/20/2007	13:38:33	152.5	61.24	-0.027
5/20/2007	13:38:33	153	61.21	-0.027
5/20/2007	13:38:34	153.5	61.21	-0.027
5/20/2007	13:38:34	154	61.21	-0.027
5/20/2007	13:38:35	154.5	61.21	-0.027
5/20/2007	13:38:35	155	61.21	-0.027
5/20/2007	13:38:36	155.5	61.21	-0.027
5/20/2007	13:38:36	156	61.21	-0.027
5/20/2007	13:38:37	156.5	61.21	-0.027
5/20/2007	13:38:37	157	61.21	-0.027
5/20/2007	13:38:38	157.5	61.21	-0.027
5/20/2007	13:38:38	158	61.21	-0.027
5/20/2007	13:38:39	158.5	61.21	-0.027
5/20/2007	13:38:39	159	61.21	-0.027
5/20/2007	13:38:40	159.5	61.21	-0.027
5/20/2007	13:38:40	160	61.21	-0.027
5/20/2007	13:38:41	160.5	61.21	-0.027

5/20/2007	13:38:41	161	61.21	-0.027
5/20/2007	13:38:42	161.5	61.21	-0.027
5/20/2007	13:38:42	162	61.21	-0.027
5/20/2007	13:38:43	162.5	61.21	-0.027
5/20/2007	13:38:43	163	61.21	-0.025
5/20/2007	13:38:44	163.5	61.21	-0.025
5/20/2007	13:38:44	164	61.21	-0.027
5/20/2007	13:38:45	164.5	61.21	-0.027
5/20/2007	13:38:45	165	61.21	-0.027
5/20/2007	13:38:46	165.5	61.21	-0.027
5/20/2007	13:38:46	166	61.21	-0.027
5/20/2007	13:38:47	166.5	61.21	-0.027
5/20/2007	13:38:47	167	61.21	-0.027
5/20/2007	13:38:48	167.5	61.21	-0.027
5/20/2007	13:38:48	168	61.21	-0.027
5/20/2007	13:38:49	168.5	61.21	-0.027
5/20/2007	13:38:49	169	61.21	-0.027
5/20/2007	13:38:50	169.5	61.21	-0.027
5/20/2007	13:38:50	170	61.21	-0.027
5/20/2007	13:38:51	170.5	61.21	-0.027
5/20/2007	13:38:51	171	61.21	-0.027
5/20/2007	13:38:52	171.5	61.21	-0.027
5/20/2007	13:38:52	172	61.21	-0.027
5/20/2007	13:38:53	172.5	61.21	-0.027
5/20/2007	13:38:53	173	61.21	-0.027
5/20/2007	13:38:54	173.5	61.21	-0.025
5/20/2007	13:38:54	174	61.21	-0.027
5/20/2007	13:38:55	174.5	61.21	-0.027
5/20/2007	13:38:55	175	61.21	-0.027
5/20/2007	13:38:56	175.5	61.21	-0.027
5/20/2007	13:38:56	176	61.21	-0.027
5/20/2007	13:38:57	176.5	61.24	-0.027
5/20/2007	13:38:57	177	61.21	-0.027
5/20/2007	13:38:58	177.5	61.21	-0.027
5/20/2007	13:38:58	178	61.21	-0.029
5/20/2007	13:38:59	178.5	61.21	-0.027
5/20/2007	13:38:59	179	61.21	-0.027
5/20/2007	13:39:00	179.5	61.21	-0.027
5/20/2007	13:39:00	180	61.21	-0.027
5/20/2007	13:39:01	180.5	61.24	-0.027
5/20/2007	13:39:01	181	61.21	-0.027
5/20/2007	13:39:02	181.5	61.21	-0.027
5/20/2007	13:39:02	182	61.21	-0.027
5/20/2007	13:39:03	182.5	61.21	-0.027
5/20/2007	13:39:03	183	61.21	-0.027
5/20/2007	13:39:04	183.5	61.21	-0.025
5/20/2007	13:39:04	184	61.21	-0.025
5/20/2007	13:39:05	184.5	61.21	-0.025
5/20/2007	13:39:05	185	61.21	-0.025
5/20/2007	13:39:06	185.5	61.21	-0.025
5/20/2007	13:39:06	186	61.24	-0.025
5/20/2007	13:39:07	186.5	61.24	-0.027

5/20/2007	13:39:07	187	61.21	-0.027
5/20/2007	13:39:08	187.5	61.24	-0.025
5/20/2007	13:39:08	188	61.24	-0.025
5/20/2007	13:39:09	188.5	61.21	-0.025
5/20/2007	13:39:09	189	61.24	-0.027
5/20/2007	13:39:10	189.5	61.21	-0.027
5/20/2007	13:39:10	190	61.21	-0.025
5/20/2007	13:39:11	190.5	61.21	-0.027
5/20/2007	13:39:11	191	61.24	-0.027
5/20/2007	13:39:12	191.5	61.24	-0.027
5/20/2007	13:39:12	192	61.21	-0.027
5/20/2007	13:39:13	192.5	61.21	-0.027
5/20/2007	13:39:13	193	61.21	-0.027
5/20/2007	13:39:14	193.5	61.24	-0.028
5/20/2007	13:39:14	194	61.24	-0.027
5/20/2007	13:39:15	194.5	61.21	-0.027
5/20/2007	13:39:15	195	61.24	-0.028
5/20/2007	13:39:16	195.5	61.21	-0.027
5/20/2007	13:39:16	196	61.24	-0.027
5/20/2007	13:39:17	196.5	61.21	-0.027
5/20/2007	13:39:17	197	61.21	-0.027
5/20/2007	13:39:18	197.5	61.24	-0.028
5/20/2007	13:39:18	198	61.21	-0.027
5/20/2007	13:39:19	198.5	61.24	-0.027
5/20/2007	13:39:19	199	61.21	-0.027
5/20/2007	13:39:20	199.5	61.24	-0.027
5/20/2007	13:39:20	200	61.21	-0.027
5/20/2007	13:39:21	200.5	61.21	-0.029
5/20/2007	13:39:21	201	61.24	-0.028
5/20/2007	13:39:22	201.5	61.24	-0.028
5/20/2007	13:39:22	202	61.21	-0.029
5/20/2007	13:39:23	202.5	61.24	-0.028
5/20/2007	13:39:23	203	61.21	-0.029
5/20/2007	13:39:24	203.5	61.21	-0.029
5/20/2007	13:39:24	204	61.21	-0.029
5/20/2007	13:39:25	204.5	61.21	-0.029
5/20/2007	13:39:25	205	61.24	-0.028
5/20/2007	13:39:26	205.5	61.21	-0.029
5/20/2007	13:39:26	206	61.24	-0.028
5/20/2007	13:39:27	206.5	61.24	-0.028
5/20/2007	13:39:27	207	61.24	-0.028
5/20/2007	13:39:28	207.5	61.24	-0.027
5/20/2007	13:39:28	208	61.24	-0.028
5/20/2007	13:39:29	208.5	61.24	-0.027
5/20/2007	13:39:29	209	61.24	-0.027
5/20/2007	13:39:30	209.5	61.24	-0.025
5/20/2007	13:39:30	210	61.21	-0.027
5/20/2007	13:39:31	210.5	61.24	-0.025
5/20/2007	13:39:31	211	61.24	-0.025
5/20/2007	13:39:32	211.5	61.24	-0.025
5/20/2007	13:39:32	212	61.24	-0.025
5/20/2007	13:39:33	212.5	61.24	-0.025

5/20/2007	13:39:33	213	61.24	-0.025
5/20/2007	13:39:34	213.5	61.24	-0.025
5/20/2007	13:39:34	214	61.24	-0.025
5/20/2007	13:39:35	214.5	61.24	-0.025
5/20/2007	13:39:35	215	61.24	-0.025
5/20/2007	13:39:36	215.5	61.24	-0.025
5/20/2007	13:39:36	216	61.21	-0.025
5/20/2007	13:39:37	216.5	61.24	-0.025
5/20/2007	13:39:37	217	61.24	-0.025
5/20/2007	13:39:38	217.5	61.24	-0.027
5/20/2007	13:39:38	218	61.24	-0.027
5/20/2007	13:39:39	218.5	61.24	-0.027
5/20/2007	13:39:39	219	61.24	-0.027
5/20/2007	13:39:40	219.5	61.24	-0.027
5/20/2007	13:39:40	220	61.24	-0.027
5/20/2007	13:39:41	220.5	61.24	-0.027
5/20/2007	13:39:41	221	61.24	-0.027
5/20/2007	13:39:42	221.5	61.24	-0.027
5/20/2007	13:39:42	222	61.24	-0.027
5/20/2007	13:39:43	222.5	61.21	-0.027
5/20/2007	13:39:43	223	61.21	-0.027
5/20/2007	13:39:44	223.5	61.21	-0.027
5/20/2007	13:39:44	224	61.24	-0.027
5/20/2007	13:39:45	224.5	61.24	-0.027
5/20/2007	13:39:45	225	61.24	-0.027
5/20/2007	13:39:46	225.5	61.24	-0.027
5/20/2007	13:39:46	226	61.24	-0.027
5/20/2007	13:39:47	226.5	61.24	-0.027
5/20/2007	13:39:47	227	61.24	-0.027
5/20/2007	13:39:48	227.5	61.24	-0.027
5/20/2007	13:39:48	228	61.24	-0.027
5/20/2007	13:39:49	228.5	61.24	-0.027
5/20/2007	13:39:49	229	61.24	-0.027
5/20/2007	13:39:50	229.5	61.24	-0.028
5/20/2007	13:39:50	230	61.24	-0.027
5/20/2007	13:39:51	230.5	61.21	-0.029
5/20/2007	13:39:51	231	61.24	-0.027
5/20/2007	13:39:52	231.5	61.24	-0.027
5/20/2007	13:39:52	232	61.24	-0.027
5/20/2007	13:39:53	232.5	61.24	-0.027
5/20/2007	13:39:53	233	61.24	-0.027
5/20/2007	13:39:54	233.5	61.24	-0.028
5/20/2007	13:39:54	234	61.24	-0.027
5/20/2007	13:39:55	234.5	61.24	-0.027
5/20/2007	13:39:55	235	61.24	-0.027
5/20/2007	13:39:56	235.5	61.24	-0.027
5/20/2007	13:39:56	236	61.24	-0.027
5/20/2007	13:39:57	236.5	61.24	-0.027
5/20/2007	13:39:57	237	61.24	-0.027
5/20/2007	13:39:58	237.5	61.24	-0.027
5/20/2007	13:39:58	238	61.24	-0.027
5/20/2007	13:39:59	238.5	61.24	-0.027

5/20/2007	13:39:59	239	61.24	-0.027
5/20/2007	13:40:00	239.5	61.24	-0.027
5/20/2007	13:40:00	240	61.24	-0.027
5/20/2007	13:40:01	240.5	61.24	-0.028
5/20/2007	13:40:01	241	61.24	-0.027
5/20/2007	13:40:02	241.5	61.24	-0.027
5/20/2007	13:40:02	242	61.24	-0.027
5/20/2007	13:40:03	242.5	61.24	-0.027
5/20/2007	13:40:03	243	61.24	-0.028
5/20/2007	13:40:04	243.5	61.24	-0.027
5/20/2007	13:40:04	244	61.24	-0.027
5/20/2007	13:40:05	244.5	61.24	-0.027
5/20/2007	13:40:05	245	61.24	-0.027
5/20/2007	13:40:06	245.5	61.24	-0.027
5/20/2007	13:40:06	246	61.24	-0.027
5/20/2007	13:40:07	246.5	61.24	-0.027
5/20/2007	13:40:07	247	61.24	-0.027
5/20/2007	13:40:08	247.5	61.24	-0.027
5/20/2007	13:40:08	248	61.24	-0.027
5/20/2007	13:40:09	248.5	61.24	-0.027
5/20/2007	13:40:09	249	61.24	-0.027
5/20/2007	13:40:10	249.5	61.24	-0.027
5/20/2007	13:40:10	250	61.24	-0.027
5/20/2007	13:40:11	250.5	61.24	-0.027
5/20/2007	13:40:11	251	61.24	-0.027
5/20/2007	13:40:12	251.5	61.24	-0.027
5/20/2007	13:40:12	252	61.24	-0.027
5/20/2007	13:40:13	252.5	61.24	-0.027
5/20/2007	13:40:13	253	61.24	-0.027
5/20/2007	13:40:14	253.5	61.24	-0.028
5/20/2007	13:40:14	254	61.24	-0.028
5/20/2007	13:40:15	254.5	61.24	-0.028
5/20/2007	13:40:15	255	61.24	-0.028
5/20/2007	13:40:16	255.5	61.24	-0.028
5/20/2007	13:40:16	256	61.24	-0.028
5/20/2007	13:40:17	256.5	61.24	-0.028
5/20/2007	13:40:17	257	61.24	-0.027
5/20/2007	13:40:18	257.5	61.24	-0.028
5/20/2007	13:40:18	258	61.24	-0.028
5/20/2007	13:40:19	258.5	61.24	-0.027
5/20/2007	13:40:19	259	61.24	-0.027
5/20/2007	13:40:20	259.5	61.24	-0.028
5/20/2007	13:40:20	260	61.24	-0.028
5/20/2007	13:40:21	260.5	61.24	-0.028
5/20/2007	13:40:21	261	61.24	-0.028
5/20/2007	13:40:22	261.5	61.24	-0.028
5/20/2007	13:40:22	262	61.24	-0.027
5/20/2007	13:40:23	262.5	61.24	-0.027
5/20/2007	13:40:23	263	61.24	-0.027
5/20/2007	13:40:24	263.5	61.24	-0.027
5/20/2007	13:40:24	264	61.24	-0.027
5/20/2007	13:40:25	264.5	61.24	-0.027

5/20/2007	13:40:25	265	61.24	-0.027
5/20/2007	13:40:26	265.5	61.24	-0.027
5/20/2007	13:40:26	266	61.24	-0.027
5/20/2007	13:40:27	266.5	61.24	-0.027
5/20/2007	13:40:27	267	61.24	-0.027
5/20/2007	13:40:28	267.5	61.24	-0.027
5/20/2007	13:40:28	268	61.24	-0.027
5/20/2007	13:40:29	268.5	61.24	-0.027
5/20/2007	13:40:29	269	61.24	-0.027
5/20/2007	13:40:30	269.5	61.24	-0.028
5/20/2007	13:40:30	270	61.24	-0.027
5/20/2007	13:40:31	270.5	61.24	-0.027
5/20/2007	13:40:31	271	61.24	-0.027
5/20/2007	13:40:32	271.5	61.24	-0.028
5/20/2007	13:40:32	272	61.24	-0.027
5/20/2007	13:40:33	272.5	61.24	-0.027
5/20/2007	13:40:33	273	61.24	-0.027
5/20/2007	13:40:34	273.5	61.24	-0.027
5/20/2007	13:40:34	274	61.24	-0.027
5/20/2007	13:40:35	274.5	61.24	-0.027
5/20/2007	13:40:35	275	61.24	-0.028
5/20/2007	13:40:36	275.5	61.24	-0.028
5/20/2007	13:40:36	276	61.24	-0.027
5/20/2007	13:40:37	276.5	61.24	-0.028
5/20/2007	13:40:37	277	61.24	-0.027
5/20/2007	13:40:38	277.5	61.24	-0.027
5/20/2007	13:40:38	278	61.24	-0.027
5/20/2007	13:40:39	278.5	61.24	-0.027
5/20/2007	13:40:39	279	61.24	-0.027
5/20/2007	13:40:40	279.5	61.24	-0.027
5/20/2007	13:40:40	280	61.24	-0.027
5/20/2007	13:40:41	280.5	61.24	-0.027

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:42:33
 Report from file: ...\\SN12694 2007-05-20 131740 Test #7.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #7

Test defined on: 5/20/2007 13:16:21
 Test started on: 5/20/2007 13:17:40
 Test stopped on: 5/20/2007 13:24:52

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 865

TOTAL DATA SAMPLES 865

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 14.156 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	13:17:40	0	60.96	0
5/20/2007	13:17:40	0.5	61.01	-0.012
5/20/2007	13:17:41	1	61.01	-0.014
5/20/2007	13:17:41	1.5	61.03	-0.016
5/20/2007	13:17:42	2	61.03	-0.018
5/20/2007	13:17:42	2.5	61.03	-0.018
5/20/2007	13:17:43	3	61.05	-0.017
5/20/2007	13:17:43	3.5	61.05	-0.019
5/20/2007	13:17:44	4	61.05	-0.019
5/20/2007	13:17:44	4.5	61.05	-0.019

5/20/2007	13:17:45	5	61.05	-0.019
5/20/2007	13:17:45	5.5	61.05	-0.019
5/20/2007	13:17:46	6	61.05	-0.019
5/20/2007	13:17:46	6.5	61.05	-0.019
5/20/2007	13:17:47	7	61.05	-0.019
5/20/2007	13:17:47	7.5	61.05	-0.019
5/20/2007	13:17:48	8	61.05	-0.019
5/20/2007	13:17:48	8.5	61.08	-0.018
5/20/2007	13:17:49	9	61.08	-0.018
5/20/2007	13:17:49	9.5	61.08	-0.018
5/20/2007	13:17:50	10	61.08	-0.02
5/20/2007	13:17:50	10.5	61.08	-0.018
5/20/2007	13:17:51	11	61.08	-0.02
5/20/2007	13:17:51	11.5	61.08	-0.018
5/20/2007	13:17:52	12	61.08	-0.02
5/20/2007	13:17:52	12.5	61.08	-0.02
5/20/2007	13:17:53	13	61.08	-0.02
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5/20/2007	13:17:58	18	61.08	-0.02
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5/20/2007	13:18:56	76.5	61.17	-0.031
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5/20/2007	13:19:51	131.5	61.19	-0.027
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5/20/2007	13:20:01	141.5	61.19	-0.027
5/20/2007	13:20:02	142	61.19	-0.029
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5/20/2007	13:20:03	143.5	61.19	-0.029
5/20/2007	13:20:04	144	61.19	-0.029
5/20/2007	13:20:04	144.5	61.19	-0.027
5/20/2007	13:20:05	145	61.19	-0.029
5/20/2007	13:20:05	145.5	61.19	-0.029
5/20/2007	13:20:06	146	61.19	-0.027
5/20/2007	13:20:06	146.5	61.17	-0.03
5/20/2007	13:20:07	147	61.19	-0.027
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5/20/2007	13:20:08	148	61.19	-0.029
5/20/2007	13:20:08	148.5	61.19	-0.029
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5/20/2007	13:20:16	156.5	61.19	-0.029
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5/20/2007	13:20:17	157.5	61.19	-0.027
5/20/2007	13:20:18	158	61.19	-0.027
5/20/2007	13:20:18	158.5	61.19	-0.027
5/20/2007	13:20:19	159	61.19	-0.027
5/20/2007	13:20:19	159.5	61.19	-0.027
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5/20/2007	13:20:20	160.5	61.19	-0.029

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5/20/2007	13:20:22	162	61.19	-0.025
5/20/2007	13:20:22	162.5	61.19	-0.027
5/20/2007	13:20:23	163	61.19	-0.027
5/20/2007	13:20:23	163.5	61.19	-0.027
5/20/2007	13:20:24	164	61.19	-0.027
5/20/2007	13:20:24	164.5	61.19	-0.027
5/20/2007	13:20:25	165	61.19	-0.027
5/20/2007	13:20:25	165.5	61.17	-0.028
5/20/2007	13:20:26	166	61.19	-0.027
5/20/2007	13:20:26	166.5	61.19	-0.027
5/20/2007	13:20:27	167	61.19	-0.025
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5/20/2007	13:20:35	175	61.19	-0.027
5/20/2007	13:20:35	175.5	61.19	-0.027
5/20/2007	13:20:36	176	61.17	-0.026
5/20/2007	13:20:36	176.5	61.19	-0.025
5/20/2007	13:20:37	177	61.19	-0.025
5/20/2007	13:20:37	177.5	61.19	-0.027
5/20/2007	13:20:38	178	61.19	-0.027
5/20/2007	13:20:38	178.5	61.19	-0.027
5/20/2007	13:20:39	179	61.19	-0.027
5/20/2007	13:20:39	179.5	61.19	-0.027
5/20/2007	13:20:40	180	61.19	-0.025
5/20/2007	13:20:40	180.5	61.17	-0.026
5/20/2007	13:20:41	181	61.19	-0.027
5/20/2007	13:20:41	181.5	61.19	-0.025
5/20/2007	13:20:42	182	61.19	-0.027
5/20/2007	13:20:42	182.5	61.17	-0.028
5/20/2007	13:20:43	183	61.19	-0.025
5/20/2007	13:20:43	183.5	61.17	-0.026
5/20/2007	13:20:44	184	61.19	-0.025
5/20/2007	13:20:44	184.5	61.19	-0.025
5/20/2007	13:20:45	185	61.19	-0.025
5/20/2007	13:20:45	185.5	61.19	-0.025
5/20/2007	13:20:46	186	61.17	-0.028
5/20/2007	13:20:46	186.5	61.19	-0.025

5/20/2007	13:20:47	187	61.19	-0.027
5/20/2007	13:20:47	187.5	61.19	-0.025
5/20/2007	13:20:48	188	61.19	-0.025
5/20/2007	13:20:48	188.5	61.19	-0.025
5/20/2007	13:20:49	189	61.19	-0.025
5/20/2007	13:20:49	189.5	61.19	-0.025
5/20/2007	13:20:50	190	61.19	-0.025
5/20/2007	13:20:50	190.5	61.19	-0.025
5/20/2007	13:20:51	191	61.19	-0.027
5/20/2007	13:20:51	191.5	61.19	-0.025
5/20/2007	13:20:52	192	61.19	-0.025
5/20/2007	13:20:52	192.5	61.19	-0.025
5/20/2007	13:20:53	193	61.19	-0.025
5/20/2007	13:20:53	193.5	61.19	-0.025
5/20/2007	13:20:54	194	61.19	-0.025
5/20/2007	13:20:54	194.5	61.19	-0.025
5/20/2007	13:20:55	195	61.19	-0.025
5/20/2007	13:20:55	195.5	61.19	-0.025
5/20/2007	13:20:56	196	61.19	-0.025
5/20/2007	13:20:56	196.5	61.19	-0.025
5/20/2007	13:20:57	197	61.19	-0.025
5/20/2007	13:20:57	197.5	61.19	-0.025
5/20/2007	13:20:58	198	61.19	-0.025
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5/20/2007	13:20:59	199	61.19	-0.025
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5/20/2007	13:21:00	200	61.19	-0.025
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5/20/2007	13:21:01	201	61.19	-0.025
5/20/2007	13:21:01	201.5	61.19	-0.025
5/20/2007	13:21:02	202	61.19	-0.025
5/20/2007	13:21:02	202.5	61.17	-0.026
5/20/2007	13:21:03	203	61.17	-0.026
5/20/2007	13:21:03	203.5	61.17	-0.024
5/20/2007	13:21:04	204	61.19	-0.025
5/20/2007	13:21:04	204.5	61.19	-0.025
5/20/2007	13:21:05	205	61.19	-0.025
5/20/2007	13:21:05	205.5	61.19	-0.025
5/20/2007	13:21:06	206	61.19	-0.025
5/20/2007	13:21:06	206.5	61.19	-0.025
5/20/2007	13:21:07	207	61.19	-0.025
5/20/2007	13:21:07	207.5	61.19	-0.025
5/20/2007	13:21:08	208	61.17	-0.026
5/20/2007	13:21:08	208.5	61.19	-0.023
5/20/2007	13:21:09	209	61.17	-0.026
5/20/2007	13:21:09	209.5	61.19	-0.025
5/20/2007	13:21:10	210	61.19	-0.025
5/20/2007	13:21:10	210.5	61.19	-0.025
5/20/2007	13:21:11	211	61.19	-0.025
5/20/2007	13:21:11	211.5	61.19	-0.025
5/20/2007	13:21:12	212	61.19	-0.025
5/20/2007	13:21:12	212.5	61.19	-0.025

5/20/2007	13:21:13	213	61.19	-0.025
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5/20/2007	13:21:14	214	61.19	-0.025
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5/20/2007	13:21:15	215	61.19	-0.025
5/20/2007	13:21:15	215.5	61.19	-0.025
5/20/2007	13:21:16	216	61.19	-0.025
5/20/2007	13:21:16	216.5	61.19	-0.025
5/20/2007	13:21:17	217	61.19	-0.025
5/20/2007	13:21:17	217.5	61.19	-0.025
5/20/2007	13:21:18	218	61.19	-0.025
5/20/2007	13:21:18	218.5	61.17	-0.026
5/20/2007	13:21:19	219	61.19	-0.025
5/20/2007	13:21:19	219.5	61.19	-0.025
5/20/2007	13:21:20	220	61.19	-0.025
5/20/2007	13:21:20	220.5	61.19	-0.025
5/20/2007	13:21:21	221	61.19	-0.025
5/20/2007	13:21:21	221.5	61.19	-0.025
5/20/2007	13:21:22	222	61.19	-0.025
5/20/2007	13:21:22	222.5	61.19	-0.025
5/20/2007	13:21:23	223	61.19	-0.023
5/20/2007	13:21:23	223.5	61.19	-0.025
5/20/2007	13:21:24	224	61.19	-0.025
5/20/2007	13:21:24	224.5	61.19	-0.025
5/20/2007	13:21:25	225	61.19	-0.025
5/20/2007	13:21:25	225.5	61.19	-0.025
5/20/2007	13:21:26	226	61.19	-0.025
5/20/2007	13:21:26	226.5	61.19	-0.025
5/20/2007	13:21:27	227	61.17	-0.026
5/20/2007	13:21:27	227.5	61.17	-0.026
5/20/2007	13:21:28	228	61.19	-0.025
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5/20/2007	13:21:29	229	61.19	-0.025
5/20/2007	13:21:29	229.5	61.17	-0.026
5/20/2007	13:21:30	230	61.17	-0.026
5/20/2007	13:21:30	230.5	61.19	-0.025
5/20/2007	13:21:31	231	61.19	-0.025
5/20/2007	13:21:31	231.5	61.19	-0.025
5/20/2007	13:21:32	232	61.19	-0.025
5/20/2007	13:21:32	232.5	61.17	-0.026
5/20/2007	13:21:33	233	61.19	-0.025
5/20/2007	13:21:33	233.5	61.19	-0.025
5/20/2007	13:21:34	234	61.17	-0.026
5/20/2007	13:21:34	234.5	61.19	-0.025
5/20/2007	13:21:35	235	61.19	-0.023
5/20/2007	13:21:35	235.5	61.19	-0.025
5/20/2007	13:21:36	236	61.19	-0.025
5/20/2007	13:21:36	236.5	61.17	-0.026
5/20/2007	13:21:37	237	61.17	-0.026
5/20/2007	13:21:37	237.5	61.19	-0.025
5/20/2007	13:21:38	238	61.19	-0.025
5/20/2007	13:21:38	238.5	61.19	-0.025

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5/20/2007	13:21:39	239.5	61.19	-0.025
5/20/2007	13:21:40	240	61.19	-0.023
5/20/2007	13:21:40	240.5	61.19	-0.023
5/20/2007	13:21:41	241	61.19	-0.023
5/20/2007	13:21:41	241.5	61.19	-0.023
5/20/2007	13:21:42	242	61.17	-0.024
5/20/2007	13:21:42	242.5	61.19	-0.023
5/20/2007	13:21:43	243	61.19	-0.023
5/20/2007	13:21:43	243.5	61.19	-0.023
5/20/2007	13:21:44	244	61.19	-0.023
5/20/2007	13:21:44	244.5	61.19	-0.025
5/20/2007	13:21:45	245	61.19	-0.023
5/20/2007	13:21:45	245.5	61.19	-0.023
5/20/2007	13:21:46	246	61.19	-0.023
5/20/2007	13:21:46	246.5	61.19	-0.023
5/20/2007	13:21:47	247	61.17	-0.026
5/20/2007	13:21:47	247.5	61.19	-0.025
5/20/2007	13:21:48	248	61.19	-0.023
5/20/2007	13:21:48	248.5	61.19	-0.023
5/20/2007	13:21:49	249	61.19	-0.023
5/20/2007	13:21:49	249.5	61.17	-0.024
5/20/2007	13:21:50	250	61.19	-0.023
5/20/2007	13:21:50	250.5	61.19	-0.023
5/20/2007	13:21:51	251	61.19	-0.023
5/20/2007	13:21:51	251.5	61.19	-0.023
5/20/2007	13:21:52	252	61.19	-0.023
5/20/2007	13:21:52	252.5	61.17	-0.024
5/20/2007	13:21:53	253	61.19	-0.025
5/20/2007	13:21:53	253.5	61.17	-0.024
5/20/2007	13:21:54	254	61.19	-0.023
5/20/2007	13:21:54	254.5	61.17	-0.024
5/20/2007	13:21:55	255	61.17	-0.024
5/20/2007	13:21:55	255.5	61.17	-0.024
5/20/2007	13:21:56	256	61.19	-0.025
5/20/2007	13:21:56	256.5	61.19	-0.025
5/20/2007	13:21:57	257	61.19	-0.025
5/20/2007	13:21:57	257.5	61.19	-0.025
5/20/2007	13:21:58	258	61.19	-0.025
5/20/2007	13:21:58	258.5	61.19	-0.025
5/20/2007	13:21:59	259	61.17	-0.026
5/20/2007	13:21:59	259.5	61.19	-0.025
5/20/2007	13:22:00	260	61.19	-0.025
5/20/2007	13:22:00	260.5	61.19	-0.025
5/20/2007	13:22:01	261	61.19	-0.025
5/20/2007	13:22:01	261.5	61.19	-0.025
5/20/2007	13:22:02	262	61.19	-0.025
5/20/2007	13:22:02	262.5	61.19	-0.025
5/20/2007	13:22:03	263	61.19	-0.025
5/20/2007	13:22:03	263.5	61.19	-0.025
5/20/2007	13:22:04	264	61.19	-0.025
5/20/2007	13:22:04	264.5	61.17	-0.026

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5/20/2007	13:22:05	265.5	61.17	-0.026
5/20/2007	13:22:06	266	61.19	-0.025
5/20/2007	13:22:06	266.5	61.19	-0.025
5/20/2007	13:22:07	267	61.19	-0.025
5/20/2007	13:22:07	267.5	61.17	-0.024
5/20/2007	13:22:08	268	61.19	-0.023
5/20/2007	13:22:08	268.5	61.19	-0.023
5/20/2007	13:22:09	269	61.19	-0.023
5/20/2007	13:22:09	269.5	61.19	-0.023
5/20/2007	13:22:10	270	61.19	-0.023
5/20/2007	13:22:10	270.5	61.19	-0.023
5/20/2007	13:22:11	271	61.19	-0.023
5/20/2007	13:22:11	271.5	61.19	-0.023
5/20/2007	13:22:12	272	61.19	-0.023
5/20/2007	13:22:12	272.5	61.19	-0.025
5/20/2007	13:22:13	273	61.19	-0.023
5/20/2007	13:22:13	273.5	61.19	-0.025
5/20/2007	13:22:14	274	61.19	-0.023
5/20/2007	13:22:14	274.5	61.19	-0.023
5/20/2007	13:22:15	275	61.19	-0.023
5/20/2007	13:22:15	275.5	61.19	-0.025
5/20/2007	13:22:16	276	61.19	-0.025
5/20/2007	13:22:16	276.5	61.19	-0.025
5/20/2007	13:22:17	277	61.19	-0.025
5/20/2007	13:22:17	277.5	61.19	-0.025
5/20/2007	13:22:18	278	61.19	-0.025
5/20/2007	13:22:18	278.5	61.19	-0.025
5/20/2007	13:22:19	279	61.19	-0.025
5/20/2007	13:22:19	279.5	61.19	-0.025
5/20/2007	13:22:20	280	61.19	-0.025
5/20/2007	13:22:20	280.5	61.19	-0.025
5/20/2007	13:22:21	281	61.19	-0.025
5/20/2007	13:22:21	281.5	61.19	-0.025
5/20/2007	13:22:22	282	61.19	-0.025
5/20/2007	13:22:22	282.5	61.19	-0.025
5/20/2007	13:22:23	283	61.19	-0.025
5/20/2007	13:22:23	283.5	61.19	-0.023
5/20/2007	13:22:24	284	61.19	-0.025
5/20/2007	13:22:24	284.5	61.19	-0.023
5/20/2007	13:22:25	285	61.19	-0.025
5/20/2007	13:22:25	285.5	61.19	-0.025
5/20/2007	13:22:26	286	61.19	-0.023
5/20/2007	13:22:26	286.5	61.19	-0.025
5/20/2007	13:22:27	287	61.19	-0.025
5/20/2007	13:22:27	287.5	61.19	-0.023
5/20/2007	13:22:28	288	61.19	-0.023
5/20/2007	13:22:28	288.5	61.19	-0.023
5/20/2007	13:22:29	289	61.19	-0.023
5/20/2007	13:22:29	289.5	61.19	-0.025
5/20/2007	13:22:30	290	61.19	-0.025
5/20/2007	13:22:30	290.5	61.19	-0.023

5/20/2007	13:22:31	291	61.19	-0.023
5/20/2007	13:22:31	291.5	61.19	-0.023
5/20/2007	13:22:32	292	61.19	-0.025
5/20/2007	13:22:32	292.5	61.19	-0.025
5/20/2007	13:22:33	293	61.19	-0.025
5/20/2007	13:22:33	293.5	61.19	-0.025
5/20/2007	13:22:34	294	61.19	-0.025
5/20/2007	13:22:34	294.5	61.19	-0.025
5/20/2007	13:22:35	295	61.19	-0.023
5/20/2007	13:22:35	295.5	61.19	-0.023
5/20/2007	13:22:36	296	61.19	-0.023
5/20/2007	13:22:36	296.5	61.19	-0.025
5/20/2007	13:22:37	297	61.19	-0.023
5/20/2007	13:22:37	297.5	61.19	-0.023
5/20/2007	13:22:38	298	61.19	-0.023
5/20/2007	13:22:38	298.5	61.19	-0.023
5/20/2007	13:22:39	299	61.19	-0.023
5/20/2007	13:22:39	299.5	61.19	-0.023
5/20/2007	13:22:40	300	61.19	-0.023
5/20/2007	13:22:40	300.5	61.19	-0.023
5/20/2007	13:22:41	301	61.19	-0.023
5/20/2007	13:22:41	301.5	61.19	-0.023
5/20/2007	13:22:42	302	61.19	-0.023
5/20/2007	13:22:42	302.5	61.19	-0.023
5/20/2007	13:22:43	303	61.17	-0.024
5/20/2007	13:22:43	303.5	61.19	-0.023
5/20/2007	13:22:44	304	61.19	-0.023
5/20/2007	13:22:44	304.5	61.19	-0.023
5/20/2007	13:22:45	305	61.19	-0.023
5/20/2007	13:22:45	305.5	61.19	-0.021
5/20/2007	13:22:46	306	61.19	-0.021
5/20/2007	13:22:46	306.5	61.19	-0.023
5/20/2007	13:22:47	307	61.19	-0.021
5/20/2007	13:22:47	307.5	61.19	-0.021
5/20/2007	13:22:48	308	61.19	-0.023
5/20/2007	13:22:48	308.5	61.19	-0.021
5/20/2007	13:22:49	309	61.19	-0.023
5/20/2007	13:22:49	309.5	61.19	-0.023
5/20/2007	13:22:50	310	61.19	-0.023
5/20/2007	13:22:50	310.5	61.19	-0.023
5/20/2007	13:22:51	311	61.19	-0.023
5/20/2007	13:22:51	311.5	61.19	-0.023
5/20/2007	13:22:52	312	61.19	-0.023
5/20/2007	13:22:52	312.5	61.19	-0.023
5/20/2007	13:22:53	313	61.19	-0.023
5/20/2007	13:22:53	313.5	61.19	-0.023
5/20/2007	13:22:54	314	61.19	-0.023
5/20/2007	13:22:54	314.5	61.19	-0.023
5/20/2007	13:22:55	315	61.19	-0.023
5/20/2007	13:22:55	315.5	61.19	-0.023
5/20/2007	13:22:56	316	61.19	-0.025
5/20/2007	13:22:56	316.5	61.19	-0.025

5/20/2007	13:22:57	317	61.19	-0.025
5/20/2007	13:22:57	317.5	61.19	-0.025
5/20/2007	13:22:58	318	61.19	-0.023
5/20/2007	13:22:58	318.5	61.19	-0.025
5/20/2007	13:22:59	319	61.19	-0.023
5/20/2007	13:22:59	319.5	61.19	-0.023
5/20/2007	13:23:00	320	61.19	-0.025
5/20/2007	13:23:00	320.5	61.19	-0.023
5/20/2007	13:23:01	321	61.19	-0.025
5/20/2007	13:23:01	321.5	61.19	-0.025
5/20/2007	13:23:02	322	61.19	-0.023
5/20/2007	13:23:02	322.5	61.19	-0.025
5/20/2007	13:23:03	323	61.19	-0.025
5/20/2007	13:23:03	323.5	61.19	-0.025
5/20/2007	13:23:04	324	61.19	-0.023
5/20/2007	13:23:04	324.5	61.19	-0.025
5/20/2007	13:23:05	325	61.19	-0.025
5/20/2007	13:23:05	325.5	61.19	-0.023
5/20/2007	13:23:06	326	61.19	-0.025
5/20/2007	13:23:06	326.5	61.19	-0.023
5/20/2007	13:23:07	327	61.19	-0.025
5/20/2007	13:23:07	327.5	61.19	-0.023
5/20/2007	13:23:08	328	61.19	-0.025
5/20/2007	13:23:08	328.5	61.19	-0.023
5/20/2007	13:23:09	329	61.19	-0.025
5/20/2007	13:23:09	329.5	61.19	-0.023
5/20/2007	13:23:10	330	61.19	-0.025
5/20/2007	13:23:10	330.5	61.19	-0.023
5/20/2007	13:23:11	331	61.19	-0.025
5/20/2007	13:23:11	331.5	61.19	-0.025
5/20/2007	13:23:12	332	61.19	-0.023
5/20/2007	13:23:12	332.5	61.19	-0.023
5/20/2007	13:23:13	333	61.19	-0.023
5/20/2007	13:23:13	333.5	61.19	-0.023
5/20/2007	13:23:14	334	61.19	-0.023
5/20/2007	13:23:14	334.5	61.19	-0.025
5/20/2007	13:23:15	335	61.19	-0.025
5/20/2007	13:23:15	335.5	61.19	-0.023
5/20/2007	13:23:16	336	61.19	-0.023
5/20/2007	13:23:16	336.5	61.19	-0.023
5/20/2007	13:23:17	337	61.19	-0.023
5/20/2007	13:23:17	337.5	61.19	-0.023
5/20/2007	13:23:18	338	61.19	-0.023
5/20/2007	13:23:18	338.5	61.19	-0.023
5/20/2007	13:23:19	339	61.19	-0.023
5/20/2007	13:23:19	339.5	61.19	-0.023
5/20/2007	13:23:20	340	61.19	-0.023
5/20/2007	13:23:20	340.5	61.19	-0.023
5/20/2007	13:23:21	341	61.19	-0.023
5/20/2007	13:23:21	341.5	61.19	-0.023
5/20/2007	13:23:22	342	61.19	-0.023
5/20/2007	13:23:22	342.5	61.19	-0.023

5/20/2007	13:23:23	343	61.19	-0.023
5/20/2007	13:23:23	343.5	61.19	-0.023
5/20/2007	13:23:24	344	61.19	-0.023
5/20/2007	13:23:24	344.5	61.19	-0.025
5/20/2007	13:23:25	345	61.19	-0.023
5/20/2007	13:23:25	345.5	61.19	-0.025
5/20/2007	13:23:26	346	61.19	-0.025
5/20/2007	13:23:26	346.5	61.19	-0.023
5/20/2007	13:23:27	347	61.19	-0.023
5/20/2007	13:23:27	347.5	61.19	-0.023
5/20/2007	13:23:28	348	61.19	-0.023
5/20/2007	13:23:28	348.5	61.19	-0.025
5/20/2007	13:23:29	349	61.19	-0.025
5/20/2007	13:23:29	349.5	61.19	-0.023
5/20/2007	13:23:30	350	61.19	-0.025
5/20/2007	13:23:30	350.5	61.19	-0.023
5/20/2007	13:23:31	351	61.19	-0.025
5/20/2007	13:23:31	351.5	61.19	-0.023
5/20/2007	13:23:32	352	61.19	-0.025
5/20/2007	13:23:32	352.5	61.19	-0.025
5/20/2007	13:23:33	353	61.19	-0.023
5/20/2007	13:23:33	353.5	61.19	-0.025
5/20/2007	13:23:34	354	61.19	-0.023
5/20/2007	13:23:34	354.5	61.19	-0.023
5/20/2007	13:23:35	355	61.19	-0.023
5/20/2007	13:23:35	355.5	61.19	-0.023
5/20/2007	13:23:36	356	61.19	-0.023
5/20/2007	13:23:36	356.5	61.19	-0.023
5/20/2007	13:23:37	357	61.19	-0.023
5/20/2007	13:23:37	357.5	61.19	-0.023
5/20/2007	13:23:38	358	61.19	-0.023
5/20/2007	13:23:38	358.5	61.19	-0.023
5/20/2007	13:23:39	359	61.19	-0.023
5/20/2007	13:23:39	359.5	61.19	-0.023
5/20/2007	13:23:40	360	61.19	-0.023
5/20/2007	13:23:40	360.5	61.19	-0.023
5/20/2007	13:23:41	361	61.19	-0.023
5/20/2007	13:23:41	361.5	61.19	-0.023
5/20/2007	13:23:42	362	61.19	-0.023
5/20/2007	13:23:42	362.5	61.19	-0.023
5/20/2007	13:23:43	363	61.19	-0.023
5/20/2007	13:23:43	363.5	61.19	-0.023
5/20/2007	13:23:44	364	61.19	-0.023
5/20/2007	13:23:44	364.5	61.19	-0.023
5/20/2007	13:23:45	365	61.19	-0.023
5/20/2007	13:23:45	365.5	61.19	-0.023
5/20/2007	13:23:46	366	61.19	-0.023
5/20/2007	13:23:46	366.5	61.19	-0.023
5/20/2007	13:23:47	367	61.19	-0.023
5/20/2007	13:23:47	367.5	61.19	-0.023
5/20/2007	13:23:48	368	61.19	-0.023
5/20/2007	13:23:48	368.5	61.19	-0.023

5/20/2007	13:23:49	369	61.19	-0.023
5/20/2007	13:23:49	369.5	61.19	-0.023
5/20/2007	13:23:50	370	61.19	-0.023
5/20/2007	13:23:50	370.5	61.19	-0.023
5/20/2007	13:23:51	371	61.19	-0.023
5/20/2007	13:23:51	371.5	61.19	-0.023
5/20/2007	13:23:52	372	61.19	-0.023
5/20/2007	13:23:52	372.5	61.19	-0.023
5/20/2007	13:23:53	373	61.19	-0.023
5/20/2007	13:23:53	373.5	61.19	-0.023
5/20/2007	13:23:54	374	61.19	-0.023
5/20/2007	13:23:54	374.5	61.19	-0.025
5/20/2007	13:23:55	375	61.19	-0.023
5/20/2007	13:23:55	375.5	61.19	-0.023
5/20/2007	13:23:56	376	61.19	-0.023
5/20/2007	13:23:56	376.5	61.19	-0.023
5/20/2007	13:23:57	377	61.19	-0.025
5/20/2007	13:23:57	377.5	61.19	-0.025
5/20/2007	13:23:58	378	61.19	-0.023
5/20/2007	13:23:58	378.5	61.19	-0.025
5/20/2007	13:23:59	379	61.19	-0.025
5/20/2007	13:23:59	379.5	61.19	-0.025
5/20/2007	13:24:00	380	61.19	-0.025
5/20/2007	13:24:00	380.5	61.19	-0.025
5/20/2007	13:24:01	381	61.19	-0.025
5/20/2007	13:24:01	381.5	61.19	-0.025
5/20/2007	13:24:02	382	61.19	-0.025
5/20/2007	13:24:02	382.5	61.19	-0.025
5/20/2007	13:24:03	383	61.19	-0.025
5/20/2007	13:24:03	383.5	61.19	-0.025
5/20/2007	13:24:04	384	61.19	-0.025
5/20/2007	13:24:04	384.5	61.19	-0.027
5/20/2007	13:24:05	385	61.19	-0.023
5/20/2007	13:24:05	385.5	61.19	-0.025
5/20/2007	13:24:06	386	61.19	-0.023
5/20/2007	13:24:06	386.5	61.19	-0.025
5/20/2007	13:24:07	387	61.19	-0.025
5/20/2007	13:24:07	387.5	61.19	-0.025
5/20/2007	13:24:08	388	61.19	-0.025
5/20/2007	13:24:08	388.5	61.19	-0.025
5/20/2007	13:24:09	389	61.19	-0.025
5/20/2007	13:24:09	389.5	61.19	-0.025
5/20/2007	13:24:10	390	61.19	-0.025
5/20/2007	13:24:10	390.5	61.19	-0.025
5/20/2007	13:24:11	391	61.19	-0.023
5/20/2007	13:24:11	391.5	61.19	-0.025
5/20/2007	13:24:12	392	61.19	-0.025
5/20/2007	13:24:12	392.5	61.19	-0.025
5/20/2007	13:24:13	393	61.19	-0.025
5/20/2007	13:24:13	393.5	61.19	-0.025
5/20/2007	13:24:14	394	61.19	-0.023
5/20/2007	13:24:14	394.5	61.19	-0.023

5/20/2007	13:24:15	395	61.19	-0.023
5/20/2007	13:24:15	395.5	61.19	-0.023
5/20/2007	13:24:16	396	61.19	-0.025
5/20/2007	13:24:16	396.5	61.19	-0.023
5/20/2007	13:24:17	397	61.19	-0.023
5/20/2007	13:24:17	397.5	61.19	-0.025
5/20/2007	13:24:18	398	61.19	-0.023
5/20/2007	13:24:18	398.5	61.19	-0.023
5/20/2007	13:24:19	399	61.19	-0.023
5/20/2007	13:24:19	399.5	61.19	-0.023
5/20/2007	13:24:20	400	61.19	-0.023
5/20/2007	13:24:20	400.5	61.19	-0.025
5/20/2007	13:24:21	401	61.19	-0.023
5/20/2007	13:24:21	401.5	61.19	-0.023
5/20/2007	13:24:22	402	61.19	-0.025
5/20/2007	13:24:22	402.5	61.19	-0.023
5/20/2007	13:24:23	403	61.19	-0.023
5/20/2007	13:24:23	403.5	61.19	-0.025
5/20/2007	13:24:24	404	61.19	-0.023
5/20/2007	13:24:24	404.5	61.19	-0.023
5/20/2007	13:24:25	405	61.19	-0.023
5/20/2007	13:24:25	405.5	61.19	-0.023
5/20/2007	13:24:26	406	61.19	-0.023
5/20/2007	13:24:26	406.5	61.19	-0.023
5/20/2007	13:24:27	407	61.19	-0.025
5/20/2007	13:24:27	407.5	61.19	-0.023
5/20/2007	13:24:28	408	61.19	-0.023
5/20/2007	13:24:28	408.5	61.19	-0.023
5/20/2007	13:24:29	409	61.19	-0.023
5/20/2007	13:24:29	409.5	61.19	-0.023
5/20/2007	13:24:30	410	61.19	-0.023
5/20/2007	13:24:30	410.5	61.19	-0.023
5/20/2007	13:24:31	411	61.19	-0.023
5/20/2007	13:24:31	411.5	61.19	-0.023
5/20/2007	13:24:32	412	61.19	-0.023
5/20/2007	13:24:32	412.5	61.19	-0.023
5/20/2007	13:24:33	413	61.19	-0.023
5/20/2007	13:24:33	413.5	61.19	-0.023
5/20/2007	13:24:34	414	61.19	-0.025
5/20/2007	13:24:34	414.5	61.19	-0.023
5/20/2007	13:24:35	415	61.19	-0.023
5/20/2007	13:24:35	415.5	61.19	-0.023
5/20/2007	13:24:36	416	61.19	-0.023
5/20/2007	13:24:36	416.5	61.19	-0.023
5/20/2007	13:24:37	417	61.19	-0.023
5/20/2007	13:24:37	417.5	61.19	-0.023
5/20/2007	13:24:38	418	61.19	-0.023
5/20/2007	13:24:38	418.5	61.19	-0.023
5/20/2007	13:24:39	419	61.19	-0.023
5/20/2007	13:24:39	419.5	61.19	-0.023
5/20/2007	13:24:40	420	61.19	-0.023
5/20/2007	13:24:40	420.5	61.19	-0.023

5/20/2007	13:24:41	421	61.19	-0.023
5/20/2007	13:24:41	421.5	61.19	-0.025
5/20/2007	13:24:42	422	61.19	-0.023
5/20/2007	13:24:42	422.5	61.19	-0.023
5/20/2007	13:24:43	423	61.19	-0.023
5/20/2007	13:24:43	423.5	61.19	-0.023
5/20/2007	13:24:44	424	61.19	-0.025
5/20/2007	13:24:44	424.5	61.19	-0.023
5/20/2007	13:24:45	425	61.19	-0.023
5/20/2007	13:24:45	425.5	61.19	-0.023
5/20/2007	13:24:46	426	61.19	-0.023
5/20/2007	13:24:46	426.5	61.19	-0.023
5/20/2007	13:24:47	427	61.19	-0.023
5/20/2007	13:24:47	427.5	61.19	-0.023
5/20/2007	13:24:48	428	61.19	-0.023
5/20/2007	13:24:48	428.5	61.19	-0.023
5/20/2007	13:24:49	429	61.19	-0.023
5/20/2007	13:24:49	429.5	61.19	-0.023
5/20/2007	13:24:50	430	61.19	-0.023
5/20/2007	13:24:50	430.5	61.19	-0.023
5/20/2007	13:24:51	431	61.19	-0.023
5/20/2007	13:24:51	431.5	61.19	-0.023
5/20/2007	13:24:52	432	61.19	-0.023

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:38:25
 Report from file: ...\\SN12694 2007-05-20 130422 Test #5.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #5

Test defined on: 5/20/2007 13:04:12
 Test started on: 5/20/2007 13:04:22
 Test stopped on: 5/20/2007 13:09:19

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 594

TOTAL DATA SAMPLES 594

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 14.137 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	13:04:22	0	60.96	0
5/20/2007	13:04:22	0.5	60.96	-0.015
5/20/2007	13:04:23	1	60.99	-0.021
5/20/2007	13:04:23	1.5	61.01	-0.022
5/20/2007	13:04:24	2	61.01	-0.024
5/20/2007	13:04:24	2.5	61.01	-0.024
5/20/2007	13:04:25	3	61.01	-0.024
5/20/2007	13:04:25	3.5	61.03	-0.023
5/20/2007	13:04:26	4	61.03	-0.025
5/20/2007	13:04:26	4.5	61.03	-0.025

5/20/2007	13:04:27	5	61.03	-0.025
5/20/2007	13:04:27	5.5	61.03	-0.025
5/20/2007	13:04:28	6	61.03	-0.025
5/20/2007	13:04:28	6.5	61.03	-0.027
5/20/2007	13:04:29	7	61.03	-0.025
5/20/2007	13:04:29	7.5	61.05	-0.025
5/20/2007	13:04:30	8	61.05	-0.025
5/20/2007	13:04:30	8.5	61.05	-0.025
5/20/2007	13:04:31	9	61.05	-0.027
5/20/2007	13:04:31	9.5	61.05	-0.027
5/20/2007	13:04:32	10	61.05	-0.027
5/20/2007	13:04:32	10.5	61.05	-0.027
5/20/2007	13:04:33	11	61.05	-0.027
5/20/2007	13:04:33	11.5	61.05	-0.025
5/20/2007	13:04:34	12	61.05	-0.027
5/20/2007	13:04:34	12.5	61.05	-0.027
5/20/2007	13:04:35	13	61.05	-0.027
5/20/2007	13:04:35	13.5	61.05	-0.027
5/20/2007	13:04:36	14	61.05	-0.027
5/20/2007	13:04:36	14.5	61.05	-0.027
5/20/2007	13:04:37	15	61.05	-0.027
5/20/2007	13:04:37	15.5	61.05	-0.027
5/20/2007	13:04:38	16	61.05	-0.027
5/20/2007	13:04:38	16.5	61.05	-0.027
5/20/2007	13:04:39	17	61.05	-0.027
5/20/2007	13:04:39	17.5	61.05	-0.027
5/20/2007	13:04:40	18	61.08	-0.026
5/20/2007	13:04:40	18.5	61.08	-0.026
5/20/2007	13:04:41	19	61.08	-0.026
5/20/2007	13:04:41	19.5	61.08	-0.026
5/20/2007	13:04:42	20	61.08	-0.026
5/20/2007	13:04:42	20.5	61.08	-0.026
5/20/2007	13:04:43	21	61.08	-0.026
5/20/2007	13:04:43	21.5	61.08	-0.026
5/20/2007	13:04:44	22	61.08	-0.026
5/20/2007	13:04:44	22.5	61.08	-0.026
5/20/2007	13:04:45	23	61.08	-0.026
5/20/2007	13:04:45	23.5	61.08	-0.028
5/20/2007	13:04:46	24	61.08	-0.026
5/20/2007	13:04:46	24.5	61.08	-0.026
5/20/2007	13:04:47	25	61.08	-0.026
5/20/2007	13:04:47	25.5	61.08	-0.026
5/20/2007	13:04:48	26	61.08	-0.026
5/20/2007	13:04:48	26.5	61.08	-0.026
5/20/2007	13:04:49	27	61.1	-0.025
5/20/2007	13:04:49	27.5	61.08	-0.028
5/20/2007	13:04:50	28	61.1	-0.025
5/20/2007	13:04:50	28.5	61.1	-0.025
5/20/2007	13:04:51	29	61.1	-0.025
5/20/2007	13:04:51	29.5	61.1	-0.025
5/20/2007	13:04:52	30	61.1	-0.025
5/20/2007	13:04:52	30.5	61.1	-0.025

5/20/2007	13:04:53	31	61.1	-0.025
5/20/2007	13:04:53	31.5	61.1	-0.025
5/20/2007	13:04:54	32	61.1	-0.025
5/20/2007	13:04:54	32.5	61.1	-0.025
5/20/2007	13:04:55	33	61.1	-0.025
5/20/2007	13:04:55	33.5	61.1	-0.025
5/20/2007	13:04:56	34	61.1	-0.025
5/20/2007	13:04:56	34.5	61.1	-0.025
5/20/2007	13:04:57	35	61.1	-0.027
5/20/2007	13:04:57	35.5	61.1	-0.027
5/20/2007	13:04:58	36	61.1	-0.025
5/20/2007	13:04:58	36.5	61.1	-0.025
5/20/2007	13:04:59	37	61.1	-0.025
5/20/2007	13:04:59	37.5	61.1	-0.025
5/20/2007	13:05:00	38	61.1	-0.025
5/20/2007	13:05:00	38.5	61.1	-0.027
5/20/2007	13:05:01	39	61.12	-0.025
5/20/2007	13:05:01	39.5	61.12	-0.027
5/20/2007	13:05:02	40	61.12	-0.025
5/20/2007	13:05:02	40.5	61.12	-0.027
5/20/2007	13:05:03	41	61.12	-0.025
5/20/2007	13:05:03	41.5	61.12	-0.025
5/20/2007	13:05:04	42	61.12	-0.025
5/20/2007	13:05:04	42.5	61.12	-0.025
5/20/2007	13:05:05	43	61.12	-0.027
5/20/2007	13:05:05	43.5	61.12	-0.025
5/20/2007	13:05:06	44	61.12	-0.025
5/20/2007	13:05:06	44.5	61.12	-0.025
5/20/2007	13:05:07	45	61.12	-0.025
5/20/2007	13:05:07	45.5	61.12	-0.027
5/20/2007	13:05:08	46	61.12	-0.027
5/20/2007	13:05:08	46.5	61.12	-0.027
5/20/2007	13:05:09	47	61.12	-0.025
5/20/2007	13:05:09	47.5	61.12	-0.027
5/20/2007	13:05:10	48	61.12	-0.025
5/20/2007	13:05:10	48.5	61.12	-0.025
5/20/2007	13:05:11	49	61.12	-0.027
5/20/2007	13:05:11	49.5	61.12	-0.027
5/20/2007	13:05:12	50	61.12	-0.025
5/20/2007	13:05:12	50.5	61.12	-0.027
5/20/2007	13:05:13	51	61.12	-0.027
5/20/2007	13:05:13	51.5	61.12	-0.025
5/20/2007	13:05:14	52	61.12	-0.027
5/20/2007	13:05:14	52.5	61.12	-0.027
5/20/2007	13:05:15	53	61.12	-0.027
5/20/2007	13:05:15	53.5	61.12	-0.025
5/20/2007	13:05:16	54	61.14	-0.026
5/20/2007	13:05:16	54.5	61.12	-0.025
5/20/2007	13:05:17	55	61.14	-0.026
5/20/2007	13:05:17	55.5	61.14	-0.024
5/20/2007	13:05:18	56	61.12	-0.025
5/20/2007	13:05:18	56.5	61.14	-0.024

5/20/2007	13:05:19	57	61.14	-0.024
5/20/2007	13:05:19	57.5	61.14	-0.024
5/20/2007	13:05:20	58	61.14	-0.024
5/20/2007	13:05:20	58.5	61.14	-0.024
5/20/2007	13:05:21	59	61.14	-0.024
5/20/2007	13:05:21	59.5	61.14	-0.024
5/20/2007	13:05:22	60	61.14	-0.024
5/20/2007	13:05:22	60.5	61.14	-0.024
5/20/2007	13:05:23	61	61.14	-0.024
5/20/2007	13:05:23	61.5	61.14	-0.024
5/20/2007	13:05:24	62	61.14	-0.024
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5/20/2007	13:05:33	71	61.14	-0.024
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5/20/2007	13:08:06	224	61.21	-0.025
5/20/2007	13:08:06	224.5	61.21	-0.027
5/20/2007	13:08:07	225	61.21	-0.027
5/20/2007	13:08:07	225.5	61.21	-0.025
5/20/2007	13:08:08	226	61.21	-0.027
5/20/2007	13:08:08	226.5	61.21	-0.027
5/20/2007	13:08:09	227	61.21	-0.025
5/20/2007	13:08:09	227.5	61.21	-0.025
5/20/2007	13:08:10	228	61.21	-0.027
5/20/2007	13:08:10	228.5	61.21	-0.027
5/20/2007	13:08:11	229	61.21	-0.025
5/20/2007	13:08:11	229.5	61.21	-0.027
5/20/2007	13:08:12	230	61.21	-0.027
5/20/2007	13:08:12	230.5	61.21	-0.025
5/20/2007	13:08:13	231	61.21	-0.025
5/20/2007	13:08:13	231.5	61.21	-0.025
5/20/2007	13:08:14	232	61.21	-0.025
5/20/2007	13:08:14	232.5	61.21	-0.025
5/20/2007	13:08:15	233	61.21	-0.027
5/20/2007	13:08:15	233.5	61.21	-0.025
5/20/2007	13:08:16	234	61.21	-0.025
5/20/2007	13:08:16	234.5	61.21	-0.025
5/20/2007	13:08:17	235	61.21	-0.027
5/20/2007	13:08:17	235.5	61.21	-0.027
5/20/2007	13:08:18	236	61.21	-0.025
5/20/2007	13:08:18	236.5	61.21	-0.025
5/20/2007	13:08:19	237	61.21	-0.025
5/20/2007	13:08:19	237.5	61.21	-0.027
5/20/2007	13:08:20	238	61.21	-0.025
5/20/2007	13:08:20	238.5	61.21	-0.025

5/20/2007	13:08:21	239	61.21	-0.025
5/20/2007	13:08:21	239.5	61.21	-0.025
5/20/2007	13:08:22	240	61.21	-0.027
5/20/2007	13:08:22	240.5	61.21	-0.025
5/20/2007	13:08:23	241	61.21	-0.027
5/20/2007	13:08:23	241.5	61.21	-0.027
5/20/2007	13:08:24	242	61.21	-0.025
5/20/2007	13:08:24	242.5	61.21	-0.027
5/20/2007	13:08:25	243	61.21	-0.025
5/20/2007	13:08:25	243.5	61.21	-0.027
5/20/2007	13:08:26	244	61.21	-0.027
5/20/2007	13:08:26	244.5	61.21	-0.025
5/20/2007	13:08:27	245	61.21	-0.027
5/20/2007	13:08:27	245.5	61.21	-0.027
5/20/2007	13:08:28	246	61.21	-0.027
5/20/2007	13:08:28	246.5	61.21	-0.027
5/20/2007	13:08:29	247	61.21	-0.027
5/20/2007	13:08:29	247.5	61.21	-0.027
5/20/2007	13:08:30	248	61.21	-0.025
5/20/2007	13:08:30	248.5	61.21	-0.025
5/20/2007	13:08:31	249	61.21	-0.025
5/20/2007	13:08:31	249.5	61.21	-0.027
5/20/2007	13:08:32	250	61.21	-0.027
5/20/2007	13:08:32	250.5	61.21	-0.025
5/20/2007	13:08:33	251	61.21	-0.025
5/20/2007	13:08:33	251.5	61.21	-0.025
5/20/2007	13:08:34	252	61.21	-0.025
5/20/2007	13:08:34	252.5	61.21	-0.027
5/20/2007	13:08:35	253	61.21	-0.027
5/20/2007	13:08:35	253.5	61.21	-0.025
5/20/2007	13:08:36	254	61.21	-0.025
5/20/2007	13:08:36	254.5	61.21	-0.025
5/20/2007	13:08:37	255	61.21	-0.025
5/20/2007	13:08:37	255.5	61.21	-0.025
5/20/2007	13:08:38	256	61.21	-0.027
5/20/2007	13:08:38	256.5	61.21	-0.025
5/20/2007	13:08:39	257	61.21	-0.027
5/20/2007	13:08:39	257.5	61.21	-0.025
5/20/2007	13:08:40	258	61.21	-0.025
5/20/2007	13:08:40	258.5	61.21	-0.025
5/20/2007	13:08:41	259	61.21	-0.025
5/20/2007	13:08:41	259.5	61.21	-0.025
5/20/2007	13:08:42	260	61.21	-0.025
5/20/2007	13:08:42	260.5	61.21	-0.027
5/20/2007	13:08:43	261	61.21	-0.025
5/20/2007	13:08:43	261.5	61.21	-0.027
5/20/2007	13:08:44	262	61.21	-0.025
5/20/2007	13:08:44	262.5	61.21	-0.025
5/20/2007	13:08:45	263	61.21	-0.025
5/20/2007	13:08:45	263.5	61.21	-0.025
5/20/2007	13:08:46	264	61.21	-0.025
5/20/2007	13:08:46	264.5	61.21	-0.027

5/20/2007	13:08:47	265	61.21	-0.025
5/20/2007	13:08:47	265.5	61.21	-0.027
5/20/2007	13:08:48	266	61.21	-0.025
5/20/2007	13:08:48	266.5	61.21	-0.027
5/20/2007	13:08:49	267	61.21	-0.025
5/20/2007	13:08:49	267.5	61.21	-0.027
5/20/2007	13:08:50	268	61.21	-0.025
5/20/2007	13:08:50	268.5	61.21	-0.025
5/20/2007	13:08:51	269	61.21	-0.027
5/20/2007	13:08:51	269.5	61.21	-0.025
5/20/2007	13:08:52	270	61.21	-0.027
5/20/2007	13:08:52	270.5	61.21	-0.025
5/20/2007	13:08:53	271	61.21	-0.025
5/20/2007	13:08:53	271.5	61.21	-0.027
5/20/2007	13:08:54	272	61.21	-0.025
5/20/2007	13:08:54	272.5	61.21	-0.025
5/20/2007	13:08:55	273	61.21	-0.025
5/20/2007	13:08:55	273.5	61.21	-0.027
5/20/2007	13:08:56	274	61.21	-0.027
5/20/2007	13:08:56	274.5	61.21	-0.027
5/20/2007	13:08:57	275	61.21	-0.025
5/20/2007	13:08:57	275.5	61.21	-0.027
5/20/2007	13:08:58	276	61.21	-0.027
5/20/2007	13:08:58	276.5	61.21	-0.027
5/20/2007	13:08:59	277	61.21	-0.027
5/20/2007	13:08:59	277.5	61.21	-0.027
5/20/2007	13:09:00	278	61.21	-0.027
5/20/2007	13:09:00	278.5	61.21	-0.027
5/20/2007	13:09:01	279	61.21	-0.025
5/20/2007	13:09:01	279.5	61.21	-0.027
5/20/2007	13:09:02	280	61.21	-0.027
5/20/2007	13:09:02	280.5	61.21	-0.027
5/20/2007	13:09:03	281	61.21	-0.027
5/20/2007	13:09:03	281.5	61.21	-0.025
5/20/2007	13:09:04	282	61.21	-0.027
5/20/2007	13:09:04	282.5	61.21	-0.027
5/20/2007	13:09:05	283	61.21	-0.027
5/20/2007	13:09:05	283.5	61.21	-0.027
5/20/2007	13:09:06	284	61.21	-0.025
5/20/2007	13:09:06	284.5	61.21	-0.027
5/20/2007	13:09:07	285	61.21	-0.027
5/20/2007	13:09:07	285.5	61.21	-0.027
5/20/2007	13:09:08	286	61.21	-0.027
5/20/2007	13:09:08	286.5	61.21	-0.027
5/20/2007	13:09:09	287	61.21	-0.027
5/20/2007	13:09:09	287.5	61.21	-0.027
5/20/2007	13:09:10	288	61.21	-0.027
5/20/2007	13:09:10	288.5	61.21	-0.025
5/20/2007	13:09:11	289	61.21	-0.027
5/20/2007	13:09:11	289.5	61.21	-0.027
5/20/2007	13:09:12	290	61.21	-0.025
5/20/2007	13:09:12	290.5	61.21	-0.027

5/20/2007	13:09:13	291	61.21	-0.025
5/20/2007	13:09:13	291.5	61.21	-0.027
5/20/2007	13:09:14	292	61.21	-0.025
5/20/2007	13:09:14	292.5	61.21	-0.027
5/20/2007	13:09:15	293	61.21	-0.027
5/20/2007	13:09:15	293.5	61.21	-0.027
5/20/2007	13:09:16	294	61.21	-0.027
5/20/2007	13:09:16	294.5	61.21	-0.027
5/20/2007	13:09:17	295	61.21	-0.027
5/20/2007	13:09:17	295.5	61.21	-0.025
5/20/2007	13:09:18	296	61.21	-0.027
5/20/2007	13:09:18	296.5	61.21	-0.025

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:55:40
 Report from file: ...\\SN12694 2007-05-20 163313 Test #14.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #14

Test defined on: 5/20/2007 16:33:01
 Test started on: 5/20/2007 16:33:13
 Test stopped on: 5/20/2007 16:37:45

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 544

TOTAL DATA SAMPLES 544

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 8.219 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	16:33:13	0	61.85	0
5/20/2007	16:33:13	0.5	61.87	-0.009
5/20/2007	16:33:14	1	61.89	-0.012
5/20/2007	16:33:14	1.5	61.89	-0.014
5/20/2007	16:33:15	2	61.91	-0.014
5/20/2007	16:33:15	2.5	61.91	-0.016
5/20/2007	16:33:16	3	61.91	-0.016
5/20/2007	16:33:16	3.5	61.91	-0.016
5/20/2007	16:33:17	4	61.91	-0.016
5/20/2007	16:33:17	4.5	61.91	-0.016

5/20/2007	16:33:18	5	61.91	-0.016
5/20/2007	16:33:18	5.5	61.91	-0.016
5/20/2007	16:33:19	6	61.91	-0.016
5/20/2007	16:33:19	6.5	61.91	-0.016
5/20/2007	16:33:20	7	61.94	-0.015
5/20/2007	16:33:20	7.5	61.94	-0.017
5/20/2007	16:33:21	8	61.94	-0.017
5/20/2007	16:33:21	8.5	61.94	-0.017
5/20/2007	16:33:22	9	61.94	-0.017
5/20/2007	16:33:22	9.5	61.94	-0.017
5/20/2007	16:33:23	10	61.94	-0.017
5/20/2007	16:33:23	10.5	61.94	-0.017
5/20/2007	16:33:24	11	61.94	-0.017
5/20/2007	16:33:24	11.5	61.94	-0.019
5/20/2007	16:33:25	12	61.94	-0.017
5/20/2007	16:33:25	12.5	61.94	-0.017
5/20/2007	16:33:26	13	61.94	-0.019
5/20/2007	16:33:26	13.5	61.94	-0.019
5/20/2007	16:33:27	14	61.94	-0.019
5/20/2007	16:33:27	14.5	61.94	-0.019
5/20/2007	16:33:28	15	61.94	-0.019
5/20/2007	16:33:28	15.5	61.94	-0.019
5/20/2007	16:33:29	16	61.94	-0.019
5/20/2007	16:33:29	16.5	61.94	-0.019
5/20/2007	16:33:30	17	61.94	-0.019
5/20/2007	16:33:30	17.5	61.94	-0.019
5/20/2007	16:33:31	18	61.94	-0.017
5/20/2007	16:33:31	18.5	61.94	-0.019
5/20/2007	16:33:32	19	61.94	-0.019
5/20/2007	16:33:32	19.5	61.94	-0.019
5/20/2007	16:33:33	20	61.94	-0.019
5/20/2007	16:33:33	20.5	61.94	-0.019
5/20/2007	16:33:34	21	61.96	-0.016
5/20/2007	16:33:34	21.5	61.94	-0.017
5/20/2007	16:33:35	22	61.94	-0.017
5/20/2007	16:33:35	22.5	61.96	-0.016
5/20/2007	16:33:36	23	61.96	-0.016
5/20/2007	16:33:36	23.5	61.96	-0.016
5/20/2007	16:33:37	24	61.96	-0.016
5/20/2007	16:33:37	24.5	61.96	-0.016
5/20/2007	16:33:38	25	61.96	-0.015
5/20/2007	16:33:38	25.5	61.96	-0.015
5/20/2007	16:33:39	26	61.96	-0.015
5/20/2007	16:33:39	26.5	61.96	-0.015
5/20/2007	16:33:40	27	61.96	-0.015
5/20/2007	16:33:40	27.5	61.96	-0.016
5/20/2007	16:33:41	28	61.96	-0.015
5/20/2007	16:33:41	28.5	61.96	-0.015
5/20/2007	16:33:42	29	61.96	-0.015
5/20/2007	16:33:42	29.5	61.96	-0.015
5/20/2007	16:33:43	30	61.96	-0.015
5/20/2007	16:33:43	30.5	61.96	-0.016

5/20/2007	16:33:44	31	61.96	-0.015
5/20/2007	16:33:44	31.5	61.96	-0.015
5/20/2007	16:33:45	32	61.96	-0.015
5/20/2007	16:33:45	32.5	61.96	-0.015
5/20/2007	16:33:46	33	61.96	-0.015
5/20/2007	16:33:46	33.5	61.96	-0.015
5/20/2007	16:33:47	34	61.96	0.045
5/20/2007	16:33:47	34.5	61.96	0.467
5/20/2007	16:33:48	35	61.96	0.292
5/20/2007	16:33:48	35.5	61.96	0.162
5/20/2007	16:33:49	36	61.96	0.095
5/20/2007	16:33:49	36.5	61.96	0.058
5/20/2007	16:33:50	37	61.96	0.035
5/20/2007	16:33:50	37.5	61.96	0.02
5/20/2007	16:33:51	38	61.96	0.01
5/20/2007	16:33:51	38.5	61.96	0.003
5/20/2007	16:33:52	39	61.96	-0.003
5/20/2007	16:33:52	39.5	61.96	-0.007
5/20/2007	16:33:53	40	61.96	-0.009
5/20/2007	16:33:53	40.5	61.96	-0.011
5/20/2007	16:33:54	41	61.96	-0.013
5/20/2007	16:33:54	41.5	61.96	-0.015
5/20/2007	16:33:55	42	61.96	-0.016
5/20/2007	16:33:55	42.5	61.96	-0.016
5/20/2007	16:33:56	43	61.96	-0.018
5/20/2007	16:33:56	43.5	61.96	-0.018
5/20/2007	16:33:57	44	61.96	-0.016
5/20/2007	16:33:57	44.5	61.96	-0.018
5/20/2007	16:33:58	45	61.96	-0.02
5/20/2007	16:33:58	45.5	61.96	-0.02
5/20/2007	16:33:59	46	61.96	-0.02
5/20/2007	16:33:59	46.5	61.96	-0.022
5/20/2007	16:34:00	47	61.96	-0.022
5/20/2007	16:34:00	47.5	61.96	-0.022
5/20/2007	16:34:01	48	61.96	-0.022
5/20/2007	16:34:01	48.5	61.96	-0.022
5/20/2007	16:34:02	49	61.96	-0.022
5/20/2007	16:34:02	49.5	61.98	-0.022
5/20/2007	16:34:03	50	61.96	-0.022
5/20/2007	16:34:03	50.5	61.98	-0.022
5/20/2007	16:34:04	51	61.98	-0.022
5/20/2007	16:34:04	51.5	61.98	-0.024
5/20/2007	16:34:05	52	61.96	-0.024
5/20/2007	16:34:05	52.5	61.98	-0.024
5/20/2007	16:34:06	53	61.98	-0.024
5/20/2007	16:34:06	53.5	61.96	-0.024
5/20/2007	16:34:07	54	61.96	-0.024
5/20/2007	16:34:07	54.5	61.98	-0.024
5/20/2007	16:34:08	55	61.96	-0.024
5/20/2007	16:34:08	55.5	61.96	-0.024
5/20/2007	16:34:09	56	61.96	-0.024
5/20/2007	16:34:09	56.5	61.96	-0.024

5/20/2007	16:34:10	57	61.96	-0.024
5/20/2007	16:34:10	57.5	61.96	-0.024
5/20/2007	16:34:11	58	61.98	-0.025
5/20/2007	16:34:11	58.5	61.96	-0.024
5/20/2007	16:34:12	59	61.96	-0.026
5/20/2007	16:34:12	59.5	61.96	-0.026
5/20/2007	16:34:13	60	61.98	-0.024
5/20/2007	16:34:13	60.5	61.98	-0.024
5/20/2007	16:34:14	61	61.96	-0.026
5/20/2007	16:34:14	61.5	61.96	-0.026
5/20/2007	16:34:15	62	61.96	-0.026
5/20/2007	16:34:15	62.5	61.96	-0.026
5/20/2007	16:34:16	63	61.96	-0.024
5/20/2007	16:34:16	63.5	61.96	-0.024
5/20/2007	16:34:17	64	61.98	-0.025
5/20/2007	16:34:17	64.5	61.96	-0.024
5/20/2007	16:34:18	65	61.96	-0.024
5/20/2007	16:34:18	65.5	61.96	-0.026
5/20/2007	16:34:19	66	61.96	-0.026
5/20/2007	16:34:19	66.5	61.96	-0.026
5/20/2007	16:34:20	67	61.96	-0.024
5/20/2007	16:34:20	67.5	61.96	-0.026
5/20/2007	16:34:21	68	61.96	-0.026
5/20/2007	16:34:21	68.5	61.98	-0.024
5/20/2007	16:34:22	69	61.96	-0.026
5/20/2007	16:34:22	69.5	61.96	-0.026
5/20/2007	16:34:23	70	61.96	-0.026
5/20/2007	16:34:23	70.5	61.96	-0.026
5/20/2007	16:34:24	71	61.98	-0.025
5/20/2007	16:34:24	71.5	61.96	-0.026
5/20/2007	16:34:25	72	61.96	-0.026
5/20/2007	16:34:25	72.5	61.96	-0.026
5/20/2007	16:34:26	73	61.96	-0.026
5/20/2007	16:34:26	73.5	61.96	-0.026
5/20/2007	16:34:27	74	61.96	-0.026
5/20/2007	16:34:27	74.5	61.98	-0.024
5/20/2007	16:34:28	75	61.96	-0.026
5/20/2007	16:34:28	75.5	61.98	-0.025
5/20/2007	16:34:29	76	61.96	-0.026
5/20/2007	16:34:29	76.5	61.96	-0.026
5/20/2007	16:34:30	77	61.96	-0.026
5/20/2007	16:34:30	77.5	61.96	-0.026
5/20/2007	16:34:31	78	61.96	-0.026
5/20/2007	16:34:31	78.5	61.96	-0.026
5/20/2007	16:34:32	79	61.96	-0.026
5/20/2007	16:34:32	79.5	61.96	-0.026
5/20/2007	16:34:33	80	61.96	-0.024
5/20/2007	16:34:33	80.5	61.96	-0.026
5/20/2007	16:34:34	81	61.96	-0.024
5/20/2007	16:34:34	81.5	61.96	-0.026
5/20/2007	16:34:35	82	61.96	-0.026
5/20/2007	16:34:35	82.5	61.96	-0.026

5/20/2007	16:34:36	83	61.96	-0.026
5/20/2007	16:34:36	83.5	61.96	-0.026
5/20/2007	16:34:37	84	61.96	-0.026
5/20/2007	16:34:37	84.5	61.96	-0.026
5/20/2007	16:34:38	85	61.96	-0.026
5/20/2007	16:34:38	85.5	61.96	-0.026
5/20/2007	16:34:39	86	61.96	-0.026
5/20/2007	16:34:39	86.5	61.96	-0.026
5/20/2007	16:34:40	87	61.96	-0.026
5/20/2007	16:34:40	87.5	61.96	-0.026
5/20/2007	16:34:41	88	61.96	-0.026
5/20/2007	16:34:41	88.5	61.96	-0.026
5/20/2007	16:34:42	89	61.96	-0.026
5/20/2007	16:34:42	89.5	61.96	-0.026
5/20/2007	16:34:43	90	61.96	-0.024
5/20/2007	16:34:43	90.5	61.96	-0.026
5/20/2007	16:34:44	91	61.96	-0.024
5/20/2007	16:34:44	91.5	61.96	-0.026
5/20/2007	16:34:45	92	61.96	-0.024
5/20/2007	16:34:45	92.5	61.96	-0.024
5/20/2007	16:34:46	93	61.96	-0.026
5/20/2007	16:34:46	93.5	61.96	-0.024
5/20/2007	16:34:47	94	61.96	-0.026
5/20/2007	16:34:47	94.5	61.96	-0.024
5/20/2007	16:34:48	95	61.96	-0.026
5/20/2007	16:34:48	95.5	61.96	-0.026
5/20/2007	16:34:49	96	61.96	-0.026
5/20/2007	16:34:49	96.5	61.96	-0.026
5/20/2007	16:34:50	97	61.96	-0.026
5/20/2007	16:34:50	97.5	61.96	-0.026
5/20/2007	16:34:51	98	61.96	-0.026
5/20/2007	16:34:51	98.5	61.96	-0.026
5/20/2007	16:34:52	99	61.96	-0.024
5/20/2007	16:34:52	99.5	61.96	-0.024
5/20/2007	16:34:53	100	61.96	-0.024
5/20/2007	16:34:53	100.5	61.96	-0.026
5/20/2007	16:34:54	101	61.96	-0.026
5/20/2007	16:34:54	101.5	61.96	-0.024
5/20/2007	16:34:55	102	61.96	-0.026
5/20/2007	16:34:55	102.5	61.96	-0.026
5/20/2007	16:34:56	103	61.96	-0.024
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5/20/2007	16:34:57	104.5	61.96	-0.024
5/20/2007	16:34:58	105	61.96	-0.026
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5/20/2007	16:34:59	106	61.96	-0.026
5/20/2007	16:34:59	106.5	61.96	-0.024
5/20/2007	16:35:00	107	61.96	-0.026
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5/20/2007	16:35:01	108	61.96	-0.026
5/20/2007	16:35:01	108.5	61.96	-0.026

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5/20/2007	16:35:03	110	61.96	-0.024
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5/20/2007	16:35:04	111	61.96	-0.026
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5/20/2007	16:35:05	112	61.96	-0.026
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5/20/2007	16:35:06	113	61.96	-0.024
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5/20/2007	16:35:07	114	61.96	-0.026
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5/20/2007	16:35:08	115	61.96	-0.026
5/20/2007	16:35:08	115.5	61.96	-0.026
5/20/2007	16:35:09	116	61.96	-0.026
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5/20/2007	16:35:10	117	61.96	-0.026
5/20/2007	16:35:10	117.5	61.96	-0.024
5/20/2007	16:35:11	118	61.96	-0.024
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5/20/2007	16:35:18	125	61.96	-0.026
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5/20/2007	16:35:19	126	61.96	-0.024
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5/20/2007	16:35:20	127	61.96	-0.024
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5/20/2007	16:35:21	128	61.96	-0.024
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5/20/2007	16:35:22	129	61.96	-0.026
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5/20/2007	16:35:23	130	61.96	-0.024
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5/20/2007	16:35:26	133	61.96	-0.026
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5/20/2007	16:35:31	138	61.96	-0.026
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5/20/2007	16:35:32	139	61.96	-0.026
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5/20/2007	16:35:33	140	61.96	-0.026
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5/20/2007	16:35:34	141	61.96	-0.026
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5/20/2007	16:35:35	142	61.96	-0.026
5/20/2007	16:35:35	142.5	61.96	-0.026
5/20/2007	16:35:36	143	61.96	-0.026
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5/20/2007	16:35:41	148	61.96	-0.024
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5/20/2007	16:35:53	160.5	61.96	-0.026

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5/20/2007	16:35:57	164.5	61.96	-0.026
5/20/2007	16:35:58	165	61.96	-0.026
5/20/2007	16:35:58	165.5	61.96	-0.026
5/20/2007	16:35:59	166	61.96	-0.026
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5/20/2007	16:36:00	167	61.96	-0.026
5/20/2007	16:36:00	167.5	61.96	-0.024
5/20/2007	16:36:01	168	61.96	-0.024
5/20/2007	16:36:01	168.5	61.96	-0.026
5/20/2007	16:36:02	169	61.96	-0.026
5/20/2007	16:36:02	169.5	61.96	-0.026
5/20/2007	16:36:03	170	61.96	-0.026
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5/20/2007	16:36:04	171	61.96	-0.026
5/20/2007	16:36:04	171.5	61.96	-0.026
5/20/2007	16:36:05	172	61.96	-0.024
5/20/2007	16:36:05	172.5	61.96	-0.026
5/20/2007	16:36:06	173	61.96	-0.026
5/20/2007	16:36:06	173.5	61.96	-0.026
5/20/2007	16:36:07	174	61.96	-0.026
5/20/2007	16:36:07	174.5	61.96	-0.026
5/20/2007	16:36:08	175	61.96	-0.024
5/20/2007	16:36:08	175.5	61.96	-0.026
5/20/2007	16:36:09	176	61.96	-0.026
5/20/2007	16:36:09	176.5	61.96	-0.026
5/20/2007	16:36:10	177	61.96	-0.024
5/20/2007	16:36:10	177.5	61.96	-0.024
5/20/2007	16:36:11	178	61.96	-0.024
5/20/2007	16:36:11	178.5	61.94	-0.025
5/20/2007	16:36:12	179	61.96	-0.026
5/20/2007	16:36:12	179.5	61.96	-0.026
5/20/2007	16:36:13	180	61.96	-0.026
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5/20/2007	16:36:14	181	61.96	-0.024
5/20/2007	16:36:14	181.5	61.96	-0.026
5/20/2007	16:36:15	182	61.96	-0.026
5/20/2007	16:36:15	182.5	61.96	-0.026
5/20/2007	16:36:16	183	61.96	-0.026
5/20/2007	16:36:16	183.5	61.96	-0.026
5/20/2007	16:36:17	184	61.96	-0.024
5/20/2007	16:36:17	184.5	61.96	-0.024
5/20/2007	16:36:18	185	61.96	-0.026
5/20/2007	16:36:18	185.5	61.96	-0.026
5/20/2007	16:36:19	186	61.96	-0.024
5/20/2007	16:36:19	186.5	61.96	-0.024

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5/20/2007	16:36:20	187.5	61.96	-0.026
5/20/2007	16:36:21	188	61.96	-0.024
5/20/2007	16:36:21	188.5	61.96	-0.026
5/20/2007	16:36:22	189	61.96	-0.024
5/20/2007	16:36:22	189.5	61.96	-0.024
5/20/2007	16:36:23	190	61.96	-0.026
5/20/2007	16:36:23	190.5	61.96	-0.024
5/20/2007	16:36:24	191	61.96	-0.024
5/20/2007	16:36:24	191.5	61.96	-0.024
5/20/2007	16:36:25	192	61.94	-0.025
5/20/2007	16:36:25	192.5	61.96	-0.024
5/20/2007	16:36:26	193	61.96	-0.024
5/20/2007	16:36:26	193.5	61.96	-0.024
5/20/2007	16:36:27	194	61.96	-0.026
5/20/2007	16:36:27	194.5	61.96	-0.024
5/20/2007	16:36:28	195	61.96	-0.024
5/20/2007	16:36:28	195.5	61.96	-0.024
5/20/2007	16:36:29	196	61.96	-0.024
5/20/2007	16:36:29	196.5	61.96	-0.024
5/20/2007	16:36:30	197	61.96	-0.024
5/20/2007	16:36:30	197.5	61.96	-0.024
5/20/2007	16:36:31	198	61.96	-0.024
5/20/2007	16:36:31	198.5	61.96	-0.024
5/20/2007	16:36:32	199	61.94	-0.025
5/20/2007	16:36:32	199.5	61.96	-0.024
5/20/2007	16:36:33	200	61.96	-0.024
5/20/2007	16:36:33	200.5	61.96	-0.024
5/20/2007	16:36:34	201	61.96	-0.024
5/20/2007	16:36:34	201.5	61.96	-0.024
5/20/2007	16:36:35	202	61.96	-0.024
5/20/2007	16:36:35	202.5	61.96	-0.024
5/20/2007	16:36:36	203	61.96	-0.024
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5/20/2007	16:36:37	204	61.96	-0.024
5/20/2007	16:36:37	204.5	61.94	-0.025
5/20/2007	16:36:38	205	61.96	-0.026
5/20/2007	16:36:38	205.5	61.96	-0.024
5/20/2007	16:36:39	206	61.96	-0.024
5/20/2007	16:36:39	206.5	61.96	-0.024
5/20/2007	16:36:40	207	61.96	-0.024
5/20/2007	16:36:40	207.5	61.96	-0.024
5/20/2007	16:36:41	208	61.96	-0.026
5/20/2007	16:36:41	208.5	61.96	-0.024
5/20/2007	16:36:42	209	61.94	-0.025
5/20/2007	16:36:42	209.5	61.96	-0.026
5/20/2007	16:36:43	210	61.94	-0.027
5/20/2007	16:36:43	210.5	61.94	-0.027
5/20/2007	16:36:44	211	61.96	-0.024
5/20/2007	16:36:44	211.5	61.96	-0.024
5/20/2007	16:36:45	212	61.96	-0.024
5/20/2007	16:36:45	212.5	61.96	-0.026

5/20/2007	16:36:46	213	61.96	-0.024
5/20/2007	16:36:46	213.5	61.94	-0.027
5/20/2007	16:36:47	214	61.96	-0.024
5/20/2007	16:36:47	214.5	61.96	-0.026
5/20/2007	16:36:48	215	61.96	-0.024
5/20/2007	16:36:48	215.5	61.94	-0.025
5/20/2007	16:36:49	216	61.94	-0.025
5/20/2007	16:36:49	216.5	61.94	-0.027
5/20/2007	16:36:50	217	61.96	-0.026
5/20/2007	16:36:50	217.5	61.96	-0.024
5/20/2007	16:36:51	218	61.96	-0.026
5/20/2007	16:36:51	218.5	61.94	-0.025
5/20/2007	16:36:52	219	61.96	-0.024
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5/20/2007	16:36:55	222.5	61.94	-0.025
5/20/2007	16:36:56	223	61.94	-0.025
5/20/2007	16:36:56	223.5	61.96	-0.024
5/20/2007	16:36:57	224	61.94	-0.025
5/20/2007	16:36:57	224.5	61.94	-0.025
5/20/2007	16:36:58	225	61.96	-0.024
5/20/2007	16:36:58	225.5	61.94	-0.025
5/20/2007	16:36:59	226	61.96	-0.024
5/20/2007	16:36:59	226.5	61.96	-0.026
5/20/2007	16:37:00	227	61.96	-0.024
5/20/2007	16:37:00	227.5	61.96	-0.024
5/20/2007	16:37:01	228	61.94	-0.027
5/20/2007	16:37:01	228.5	61.96	-0.026
5/20/2007	16:37:02	229	61.96	-0.024
5/20/2007	16:37:02	229.5	61.94	-0.027
5/20/2007	16:37:03	230	61.96	-0.026
5/20/2007	16:37:03	230.5	61.96	-0.026
5/20/2007	16:37:04	231	61.94	-0.025
5/20/2007	16:37:04	231.5	61.96	-0.024
5/20/2007	16:37:05	232	61.94	-0.025
5/20/2007	16:37:05	232.5	61.94	-0.027
5/20/2007	16:37:06	233	61.94	-0.025
5/20/2007	16:37:06	233.5	61.96	-0.026
5/20/2007	16:37:07	234	61.94	-0.025
5/20/2007	16:37:07	234.5	61.94	-0.027
5/20/2007	16:37:08	235	61.96	-0.026
5/20/2007	16:37:08	235.5	61.94	-0.025
5/20/2007	16:37:09	236	61.94	-0.027
5/20/2007	16:37:09	236.5	61.96	-0.026
5/20/2007	16:37:10	237	61.96	-0.024
5/20/2007	16:37:10	237.5	61.94	-0.027
5/20/2007	16:37:11	238	61.94	-0.027
5/20/2007	16:37:11	238.5	61.96	-0.024

5/20/2007	16:37:12	239	61.96	-0.024
5/20/2007	16:37:12	239.5	61.94	-0.027
5/20/2007	16:37:13	240	61.94	-0.025
5/20/2007	16:37:13	240.5	61.96	-0.024
5/20/2007	16:37:14	241	61.94	-0.025
5/20/2007	16:37:14	241.5	61.96	-0.024
5/20/2007	16:37:15	242	61.96	-0.024
5/20/2007	16:37:15	242.5	61.94	-0.025
5/20/2007	16:37:16	243	61.94	-0.025
5/20/2007	16:37:16	243.5	61.94	-0.025
5/20/2007	16:37:17	244	61.94	-0.025
5/20/2007	16:37:17	244.5	61.94	-0.025
5/20/2007	16:37:18	245	61.94	-0.027
5/20/2007	16:37:18	245.5	61.94	-0.025
5/20/2007	16:37:19	246	61.94	-0.025
5/20/2007	16:37:19	246.5	61.94	-0.025
5/20/2007	16:37:20	247	61.94	-0.025
5/20/2007	16:37:20	247.5	61.94	-0.025
5/20/2007	16:37:21	248	61.94	-0.025
5/20/2007	16:37:21	248.5	61.94	-0.025
5/20/2007	16:37:22	249	61.94	-0.025
5/20/2007	16:37:22	249.5	61.94	-0.025
5/20/2007	16:37:23	250	61.94	-0.025
5/20/2007	16:37:23	250.5	61.94	-0.025
5/20/2007	16:37:24	251	61.94	-0.025
5/20/2007	16:37:24	251.5	61.94	-0.025
5/20/2007	16:37:25	252	61.96	-0.024
5/20/2007	16:37:25	252.5	61.96	-0.024
5/20/2007	16:37:26	253	61.94	-0.025
5/20/2007	16:37:26	253.5	61.94	-0.025
5/20/2007	16:37:27	254	61.96	-0.024
5/20/2007	16:37:27	254.5	61.94	-0.025
5/20/2007	16:37:28	255	61.94	-0.025
5/20/2007	16:37:28	255.5	61.94	-0.025
5/20/2007	16:37:29	256	61.94	-0.025
5/20/2007	16:37:29	256.5	61.94	-0.025
5/20/2007	16:37:30	257	61.94	-0.025
5/20/2007	16:37:30	257.5	61.94	-0.025
5/20/2007	16:37:31	258	61.94	-0.025
5/20/2007	16:37:31	258.5	61.94	-0.025
5/20/2007	16:37:32	259	61.94	-0.025
5/20/2007	16:37:32	259.5	61.94	-0.025
5/20/2007	16:37:33	260	61.94	-0.025
5/20/2007	16:37:33	260.5	61.94	-0.025
5/20/2007	16:37:34	261	61.94	-0.025
5/20/2007	16:37:34	261.5	61.94	-0.025
5/20/2007	16:37:35	262	61.94	-0.025
5/20/2007	16:37:35	262.5	61.94	-0.025
5/20/2007	16:37:36	263	61.94	-0.025
5/20/2007	16:37:36	263.5	61.94	-0.025
5/20/2007	16:37:37	264	61.94	-0.025
5/20/2007	16:37:37	264.5	61.94	-0.025

5/20/2007	16:37:38	265	61.94	-0.025
5/20/2007	16:37:38	265.5	61.96	-0.024
5/20/2007	16:37:39	266	61.94	-0.025
5/20/2007	16:37:39	266.5	61.94	-0.025
5/20/2007	16:37:40	267	61.94	-0.025
5/20/2007	16:37:40	267.5	61.94	-0.025
5/20/2007	16:37:41	268	61.94	-0.025
5/20/2007	16:37:41	268.5	61.94	-0.025
5/20/2007	16:37:42	269	61.94	-0.025
5/20/2007	16:37:42	269.5	61.94	-0.025
5/20/2007	16:37:43	270	61.94	-0.025
5/20/2007	16:37:43	270.5	61.94	-0.025
5/20/2007	16:37:44	271	61.94	-0.023
5/20/2007	16:37:44	271.5	61.94	-0.023

In-Situ Inc.

MiniTroll Pro

Report generated: 5/23/2007 11:52:40
Report from file: ...\\SN12694 2007-05-20 160843 Test #12.bin
Win-Situ Version 4.523

Serial number: 12694
Firmware Version 3.09
Unit name: OW-2

Test name: Test #12

Test defined on: 5/20/2007 16:08:37
Test started on: 5/20/2007 16:08:43
Test stopped on: 5/20/2007 16:15:51

Data gathered using Linear testing

Time between data points: 0.5 Seconds.
Number of data samples: 856

TOTAL DATA SAMPLES 856

Channel number [1]
Measurement type: Temperature
Channel name:

Channel number [2]
Measurement type: Pressure
Channel name:
Sensor Range: 30 PSIG.
Specific gravity: 1
Mode: TOC
User-defined reference: 0 Feet H2O
Referenced on: test start
Pressure head at reference: 8.222 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	16:08:43	0	61.73	0
5/20/2007	16:08:43	0.5	61.78	-0.008
5/20/2007	16:08:44	1	61.78	-0.012
5/20/2007	16:08:44	1.5	61.8	-0.012
5/20/2007	16:08:45	2	61.8	-0.014
5/20/2007	16:08:45	2.5	61.8	-0.014
5/20/2007	16:08:46	3	61.8	-0.014
5/20/2007	16:08:46	3.5	61.82	-0.015
5/20/2007	16:08:47	4	61.82	-0.015
5/20/2007	16:08:47	4.5	61.82	-0.015

5/20/2007	16:08:48	5	61.82	-0.015
5/20/2007	16:08:48	5.5	61.82	-0.015
5/20/2007	16:08:49	6	61.82	-0.015
5/20/2007	16:08:49	6.5	61.82	-0.015
5/20/2007	16:08:50	7	61.82	-0.017
5/20/2007	16:08:50	7.5	61.82	-0.015
5/20/2007	16:08:51	8	61.82	-0.015
5/20/2007	16:08:51	8.5	61.82	-0.015
5/20/2007	16:08:52	9	61.82	-0.015
5/20/2007	16:08:52	9.5	61.82	-0.017
5/20/2007	16:08:53	10	61.82	-0.017
5/20/2007	16:08:53	10.5	61.82	-0.015
5/20/2007	16:08:54	11	61.82	-0.017
5/20/2007	16:08:54	11.5	61.82	-0.017
5/20/2007	16:08:55	12	61.82	-0.017
5/20/2007	16:08:55	12.5	61.85	-0.016
5/20/2007	16:08:56	13	61.82	-0.017
5/20/2007	16:08:56	13.5	61.82	-0.017
5/20/2007	16:08:57	14	61.82	-0.017
5/20/2007	16:08:57	14.5	61.85	-0.016
5/20/2007	16:08:58	15	61.85	-0.016
5/20/2007	16:08:58	15.5	61.85	-0.016
5/20/2007	16:08:59	16	61.85	-0.016
5/20/2007	16:08:59	16.5	61.85	-0.016
5/20/2007	16:09:00	17	61.85	-0.016
5/20/2007	16:09:00	17.5	61.85	-0.016
5/20/2007	16:09:01	18	61.85	-0.016
5/20/2007	16:09:01	18.5	61.85	-0.016
5/20/2007	16:09:02	19	61.85	-0.016
5/20/2007	16:09:02	19.5	61.85	-0.016
5/20/2007	16:09:03	20	61.85	-0.016
5/20/2007	16:09:03	20.5	61.85	-0.018
5/20/2007	16:09:04	21	61.85	-0.016
5/20/2007	16:09:04	21.5	61.85	-0.016
5/20/2007	16:09:05	22	61.85	-0.016
5/20/2007	16:09:05	22.5	61.85	-0.016
5/20/2007	16:09:06	23	61.85	-0.016
5/20/2007	16:09:06	23.5	61.85	-0.016
5/20/2007	16:09:07	24	61.85	-0.018
5/20/2007	16:09:07	24.5	61.85	-0.016
5/20/2007	16:09:08	25	61.85	-0.016
5/20/2007	16:09:08	25.5	61.85	-0.016
5/20/2007	16:09:09	26	61.85	0.241
5/20/2007	16:09:09	26.5	61.85	0.2
5/20/2007	16:09:10	27	61.85	0.104
5/20/2007	16:09:10	27.5	61.85	0.056
5/20/2007	16:09:11	28	61.85	0.03
5/20/2007	16:09:11	28.5	61.85	0.014
5/20/2007	16:09:12	29	61.85	0.005
5/20/2007	16:09:12	29.5	61.85	-0.001
5/20/2007	16:09:13	30	61.85	-0.007
5/20/2007	16:09:13	30.5	61.85	-0.011

5/20/2007	16:09:14	31	61.85	-0.011
5/20/2007	16:09:14	31.5	61.85	-0.013
5/20/2007	16:09:15	32	61.85	-0.015
5/20/2007	16:09:15	32.5	61.85	-0.015
5/20/2007	16:09:16	33	61.85	-0.018
5/20/2007	16:09:16	33.5	61.87	-0.018
5/20/2007	16:09:17	34	61.85	-0.018
5/20/2007	16:09:17	34.5	61.87	-0.018
5/20/2007	16:09:18	35	61.87	-0.02
5/20/2007	16:09:18	35.5	61.85	-0.02
5/20/2007	16:09:19	36	61.87	-0.02
5/20/2007	16:09:19	36.5	61.85	-0.02
5/20/2007	16:09:20	37	61.85	-0.02
5/20/2007	16:09:20	37.5	61.87	-0.02
5/20/2007	16:09:21	38	61.87	-0.02
5/20/2007	16:09:21	38.5	61.87	-0.02
5/20/2007	16:09:22	39	61.87	-0.022
5/20/2007	16:09:22	39.5	61.87	-0.02
5/20/2007	16:09:23	40	61.87	-0.022
5/20/2007	16:09:23	40.5	61.87	-0.022
5/20/2007	16:09:24	41	61.87	-0.022
5/20/2007	16:09:24	41.5	61.87	-0.022
5/20/2007	16:09:25	42	61.87	-0.022
5/20/2007	16:09:25	42.5	61.87	-0.022
5/20/2007	16:09:26	43	61.87	-0.022
5/20/2007	16:09:26	43.5	61.87	-0.022
5/20/2007	16:09:27	44	61.87	-0.022
5/20/2007	16:09:27	44.5	61.87	-0.022
5/20/2007	16:09:28	45	61.87	-0.022
5/20/2007	16:09:28	45.5	61.87	-0.022
5/20/2007	16:09:29	46	61.87	-0.022
5/20/2007	16:09:29	46.5	61.87	-0.022
5/20/2007	16:09:30	47	61.87	-0.022
5/20/2007	16:09:30	47.5	61.87	-0.022
5/20/2007	16:09:31	48	61.87	-0.022
5/20/2007	16:09:31	48.5	61.87	-0.022
5/20/2007	16:09:32	49	61.87	-0.022
5/20/2007	16:09:32	49.5	61.87	-0.022
5/20/2007	16:09:33	50	61.87	-0.022
5/20/2007	16:09:33	50.5	61.87	-0.022
5/20/2007	16:09:34	51	61.87	-0.022
5/20/2007	16:09:34	51.5	61.87	-0.022
5/20/2007	16:09:35	52	61.87	-0.022
5/20/2007	16:09:35	52.5	61.87	-0.022
5/20/2007	16:09:36	53	61.87	-0.022
5/20/2007	16:09:36	53.5	61.87	-0.022
5/20/2007	16:09:37	54	61.87	-0.022
5/20/2007	16:09:37	54.5	61.87	-0.022
5/20/2007	16:09:38	55	61.87	-0.022
5/20/2007	16:09:38	55.5	61.87	-0.022
5/20/2007	16:09:39	56	61.87	-0.022
5/20/2007	16:09:39	56.5	61.87	-0.022

5/20/2007	16:09:40	57	61.87	-0.022
5/20/2007	16:09:40	57.5	61.87	-0.022
5/20/2007	16:09:41	58	61.87	-0.022
5/20/2007	16:09:41	58.5	61.87	-0.024
5/20/2007	16:09:42	59	61.87	-0.022
5/20/2007	16:09:42	59.5	61.87	-0.024
5/20/2007	16:09:43	60	61.87	-0.022
5/20/2007	16:09:43	60.5	61.87	-0.022
5/20/2007	16:09:44	61	61.87	-0.022
5/20/2007	16:09:44	61.5	61.87	-0.022
5/20/2007	16:09:45	62	61.87	-0.024
5/20/2007	16:09:45	62.5	61.87	-0.022
5/20/2007	16:09:46	63	61.87	-0.022
5/20/2007	16:09:46	63.5	61.87	-0.024
5/20/2007	16:09:47	64	61.87	-0.024
5/20/2007	16:09:47	64.5	61.87	-0.022
5/20/2007	16:09:48	65	61.87	-0.022
5/20/2007	16:09:48	65.5	61.87	-0.022
5/20/2007	16:09:49	66	61.87	-0.024
5/20/2007	16:09:49	66.5	61.87	-0.022
5/20/2007	16:09:50	67	61.87	-0.024
5/20/2007	16:09:50	67.5	61.87	-0.024
5/20/2007	16:09:51	68	61.87	-0.022
5/20/2007	16:09:51	68.5	61.87	-0.024
5/20/2007	16:09:52	69	61.87	-0.024
5/20/2007	16:09:52	69.5	61.87	-0.022
5/20/2007	16:09:53	70	61.87	-0.022
5/20/2007	16:09:53	70.5	61.87	-0.022
5/20/2007	16:09:54	71	61.87	-0.022
5/20/2007	16:09:54	71.5	61.87	-0.024
5/20/2007	16:09:55	72	61.87	-0.022
5/20/2007	16:09:55	72.5	61.87	-0.022
5/20/2007	16:09:56	73	61.87	-0.022
5/20/2007	16:09:56	73.5	61.87	-0.022
5/20/2007	16:09:57	74	61.87	-0.022
5/20/2007	16:09:57	74.5	61.87	-0.022
5/20/2007	16:09:58	75	61.87	-0.022
5/20/2007	16:09:58	75.5	61.87	-0.022
5/20/2007	16:09:59	76	61.87	-0.022
5/20/2007	16:09:59	76.5	61.87	-0.022
5/20/2007	16:10:00	77	61.87	-0.022
5/20/2007	16:10:00	77.5	61.87	-0.022
5/20/2007	16:10:01	78	61.87	-0.022
5/20/2007	16:10:01	78.5	61.87	-0.024
5/20/2007	16:10:02	79	61.87	-0.022
5/20/2007	16:10:02	79.5	61.87	-0.022
5/20/2007	16:10:03	80	61.87	-0.022
5/20/2007	16:10:03	80.5	61.87	-0.022
5/20/2007	16:10:04	81	61.87	-0.022
5/20/2007	16:10:04	81.5	61.87	-0.022
5/20/2007	16:10:05	82	61.87	-0.024
5/20/2007	16:10:05	82.5	61.87	-0.022

5/20/2007	16:10:06	83	61.87	-0.022
5/20/2007	16:10:06	83.5	61.87	-0.022
5/20/2007	16:10:07	84	61.87	-0.022
5/20/2007	16:10:07	84.5	61.87	-0.022
5/20/2007	16:10:08	85	61.87	-0.022
5/20/2007	16:10:08	85.5	61.87	-0.022
5/20/2007	16:10:09	86	61.87	-0.022
5/20/2007	16:10:09	86.5	61.87	-0.022
5/20/2007	16:10:10	87	61.87	-0.022
5/20/2007	16:10:10	87.5	61.87	-0.022
5/20/2007	16:10:11	88	61.87	-0.022
5/20/2007	16:10:11	88.5	61.87	-0.022
5/20/2007	16:10:12	89	61.87	-0.022
5/20/2007	16:10:12	89.5	61.87	-0.022
5/20/2007	16:10:13	90	61.87	-0.022
5/20/2007	16:10:13	90.5	61.87	-0.024
5/20/2007	16:10:14	91	61.87	-0.024
5/20/2007	16:10:14	91.5	61.87	-0.022
5/20/2007	16:10:15	92	61.87	-0.024
5/20/2007	16:10:15	92.5	61.87	-0.022
5/20/2007	16:10:16	93	61.87	-0.022
5/20/2007	16:10:16	93.5	61.87	-0.022
5/20/2007	16:10:17	94	61.87	-0.022
5/20/2007	16:10:17	94.5	61.87	-0.022
5/20/2007	16:10:18	95	61.87	-0.022
5/20/2007	16:10:18	95.5	61.87	-0.022
5/20/2007	16:10:19	96	61.87	-0.022
5/20/2007	16:10:19	96.5	61.87	-0.022
5/20/2007	16:10:20	97	61.87	-0.022
5/20/2007	16:10:20	97.5	61.87	-0.022
5/20/2007	16:10:21	98	61.87	-0.024
5/20/2007	16:10:21	98.5	61.87	-0.022
5/20/2007	16:10:22	99	61.87	-0.024
5/20/2007	16:10:22	99.5	61.87	-0.024
5/20/2007	16:10:23	100	61.87	-0.024
5/20/2007	16:10:23	100.5	61.87	-0.024
5/20/2007	16:10:24	101	61.87	-0.022
5/20/2007	16:10:24	101.5	61.87	-0.022
5/20/2007	16:10:25	102	61.87	-0.024
5/20/2007	16:10:25	102.5	61.87	-0.022
5/20/2007	16:10:26	103	61.87	-0.024
5/20/2007	16:10:26	103.5	61.87	-0.024
5/20/2007	16:10:27	104	61.87	-0.022
5/20/2007	16:10:27	104.5	61.87	-0.024
5/20/2007	16:10:28	105	61.87	-0.024
5/20/2007	16:10:28	105.5	61.87	-0.024
5/20/2007	16:10:29	106	61.87	-0.022
5/20/2007	16:10:29	106.5	61.87	-0.024
5/20/2007	16:10:30	107	61.87	-0.022
5/20/2007	16:10:30	107.5	61.87	-0.022
5/20/2007	16:10:31	108	61.87	-0.024
5/20/2007	16:10:31	108.5	61.87	-0.022

5/20/2007	16:10:32	109	61.87	-0.022
5/20/2007	16:10:32	109.5	61.87	-0.022
5/20/2007	16:10:33	110	61.87	-0.022
5/20/2007	16:10:33	110.5	61.87	-0.022
5/20/2007	16:10:34	111	61.87	-0.022
5/20/2007	16:10:34	111.5	61.87	-0.022
5/20/2007	16:10:35	112	61.87	-0.022
5/20/2007	16:10:35	112.5	61.87	-0.024
5/20/2007	16:10:36	113	61.87	-0.022
5/20/2007	16:10:36	113.5	61.87	-0.024
5/20/2007	16:10:37	114	61.87	-0.024
5/20/2007	16:10:37	114.5	61.87	-0.022
5/20/2007	16:10:38	115	61.87	-0.022
5/20/2007	16:10:38	115.5	61.87	-0.022
5/20/2007	16:10:39	116	61.87	-0.022
5/20/2007	16:10:39	116.5	61.87	-0.022
5/20/2007	16:10:40	117	61.87	-0.022
5/20/2007	16:10:40	117.5	61.87	-0.022
5/20/2007	16:10:41	118	61.87	-0.022
5/20/2007	16:10:41	118.5	61.87	-0.022
5/20/2007	16:10:42	119	61.87	-0.022
5/20/2007	16:10:42	119.5	61.87	-0.022
5/20/2007	16:10:43	120	61.87	-0.022
5/20/2007	16:10:43	120.5	61.87	-0.022
5/20/2007	16:10:44	121	61.87	-0.022
5/20/2007	16:10:44	121.5	61.87	-0.022
5/20/2007	16:10:45	122	61.87	-0.022
5/20/2007	16:10:45	122.5	61.87	-0.022
5/20/2007	16:10:46	123	61.87	-0.022
5/20/2007	16:10:46	123.5	61.87	-0.022
5/20/2007	16:10:47	124	61.87	-0.022
5/20/2007	16:10:47	124.5	61.87	-0.022
5/20/2007	16:10:48	125	61.87	-0.022
5/20/2007	16:10:48	125.5	61.87	-0.02
5/20/2007	16:10:49	126	61.87	-0.022
5/20/2007	16:10:49	126.5	61.87	-0.022
5/20/2007	16:10:50	127	61.87	-0.022
5/20/2007	16:10:50	127.5	61.87	-0.022
5/20/2007	16:10:51	128	61.87	-0.022
5/20/2007	16:10:51	128.5	61.87	-0.022
5/20/2007	16:10:52	129	61.87	-0.022
5/20/2007	16:10:52	129.5	61.87	-0.022
5/20/2007	16:10:53	130	61.87	-0.022
5/20/2007	16:10:53	130.5	61.87	-0.022
5/20/2007	16:10:54	131	61.87	-0.022
5/20/2007	16:10:54	131.5	61.87	-0.022
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5/20/2007	16:10:56	133	61.87	-0.022
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5/20/2007	16:10:57	134	61.87	-0.022
5/20/2007	16:10:57	134.5	61.87	-0.022

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5/20/2007	16:10:59	136	61.87	-0.022
5/20/2007	16:10:59	136.5	61.87	-0.022
5/20/2007	16:11:00	137	61.87	-0.022
5/20/2007	16:11:00	137.5	61.87	-0.022
5/20/2007	16:11:01	138	61.87	-0.022
5/20/2007	16:11:01	138.5	61.87	-0.022
5/20/2007	16:11:02	139	61.87	-0.022
5/20/2007	16:11:02	139.5	61.87	-0.022
5/20/2007	16:11:03	140	61.87	-0.022
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5/20/2007	16:11:04	141	61.87	-0.022
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5/20/2007	16:11:05	142	61.87	-0.022
5/20/2007	16:11:05	142.5	61.87	-0.022
5/20/2007	16:11:06	143	61.87	-0.022
5/20/2007	16:11:06	143.5	61.87	-0.022
5/20/2007	16:11:07	144	61.87	-0.022
5/20/2007	16:11:07	144.5	61.87	-0.022
5/20/2007	16:11:08	145	61.87	-0.022
5/20/2007	16:11:08	145.5	61.87	-0.022
5/20/2007	16:11:09	146	61.87	-0.022
5/20/2007	16:11:09	146.5	61.87	-0.022
5/20/2007	16:11:10	147	61.87	-0.022
5/20/2007	16:11:10	147.5	61.87	-0.022
5/20/2007	16:11:11	148	61.87	-0.022
5/20/2007	16:11:11	148.5	61.87	-0.022
5/20/2007	16:11:12	149	61.87	-0.022
5/20/2007	16:11:12	149.5	61.87	-0.022
5/20/2007	16:11:13	150	61.87	-0.022
5/20/2007	16:11:13	150.5	61.87	-0.02
5/20/2007	16:11:14	151	61.87	-0.022
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5/20/2007	16:11:17	154	61.87	-0.022
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5/20/2007	16:11:18	155	61.87	-0.022
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5/20/2007	16:11:20	157	61.87	-0.022
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5/20/2007	16:11:22	159	61.87	-0.022
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5/20/2007	16:11:25	162.5	61.87	-0.022
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5/20/2007	16:11:26	163.5	61.87	-0.022
5/20/2007	16:11:27	164	61.87	-0.022
5/20/2007	16:11:27	164.5	61.87	-0.022
5/20/2007	16:11:28	165	61.87	-0.022
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5/20/2007	16:11:29	166.5	61.87	-0.022
5/20/2007	16:11:30	167	61.87	-0.022
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5/20/2007	16:11:31	168	61.87	-0.022
5/20/2007	16:11:31	168.5	61.87	-0.022
5/20/2007	16:11:32	169	61.87	-0.022
5/20/2007	16:11:32	169.5	61.89	-0.021
5/20/2007	16:11:33	170	61.87	-0.022
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5/20/2007	16:11:34	171	61.87	-0.022
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5/20/2007	16:11:35	172	61.87	-0.022
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5/20/2007	16:11:38	175.5	61.87	-0.02
5/20/2007	16:11:39	176	61.87	-0.022
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5/20/2007	16:11:40	177.5	61.87	-0.02
5/20/2007	16:11:41	178	61.87	-0.02
5/20/2007	16:11:41	178.5	61.87	-0.022
5/20/2007	16:11:42	179	61.89	-0.019
5/20/2007	16:11:42	179.5	61.89	-0.021
5/20/2007	16:11:43	180	61.87	-0.022
5/20/2007	16:11:43	180.5	61.87	-0.022
5/20/2007	16:11:44	181	61.87	-0.02
5/20/2007	16:11:44	181.5	61.87	-0.022
5/20/2007	16:11:45	182	61.87	-0.022
5/20/2007	16:11:45	182.5	61.87	-0.022
5/20/2007	16:11:46	183	61.87	-0.022
5/20/2007	16:11:46	183.5	61.87	-0.022
5/20/2007	16:11:47	184	61.87	-0.02
5/20/2007	16:11:47	184.5	61.87	-0.02
5/20/2007	16:11:48	185	61.89	-0.021
5/20/2007	16:11:48	185.5	61.87	-0.022
5/20/2007	16:11:49	186	61.87	-0.02
5/20/2007	16:11:49	186.5	61.87	-0.02

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5/20/2007	16:11:50	187.5	61.87	-0.022
5/20/2007	16:11:51	188	61.87	-0.02
5/20/2007	16:11:51	188.5	61.87	-0.02
5/20/2007	16:11:52	189	61.87	-0.02
5/20/2007	16:11:52	189.5	61.87	-0.022
5/20/2007	16:11:53	190	61.87	-0.02
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5/20/2007	16:11:54	191	61.89	-0.019
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5/20/2007	16:11:57	194	61.87	-0.022
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5/20/2007	16:11:58	195	61.87	-0.02
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5/20/2007	16:12:04	201.5	61.87	-0.02
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5/20/2007	16:12:06	203.5	61.87	-0.02
5/20/2007	16:12:07	204	61.87	-0.02
5/20/2007	16:12:07	204.5	61.87	-0.02
5/20/2007	16:12:08	205	61.87	-0.02
5/20/2007	16:12:08	205.5	61.87	-0.02
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5/20/2007	16:12:09	206.5	61.87	-0.02
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5/20/2007	16:12:11	208.5	61.87	-0.02
5/20/2007	16:12:12	209	61.87	-0.02
5/20/2007	16:12:12	209.5	61.87	-0.022
5/20/2007	16:12:13	210	61.87	-0.02
5/20/2007	16:12:13	210.5	61.87	-0.022
5/20/2007	16:12:14	211	61.87	-0.02
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5/20/2007	16:12:15	212.5	61.87	-0.02

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5/20/2007	16:12:18	215	61.87	-0.02
5/20/2007	16:12:18	215.5	61.87	-0.022
5/20/2007	16:12:19	216	61.87	-0.022
5/20/2007	16:12:19	216.5	61.87	-0.02
5/20/2007	16:12:20	217	61.87	-0.022
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5/20/2007	16:12:21	218.5	61.87	-0.02
5/20/2007	16:12:22	219	61.89	-0.019
5/20/2007	16:12:22	219.5	61.87	-0.02
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5/20/2007	16:12:24	221.5	61.87	-0.022
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5/20/2007	16:12:29	226.5	61.87	-0.02
5/20/2007	16:12:30	227	61.87	-0.02
5/20/2007	16:12:30	227.5	61.89	-0.019
5/20/2007	16:12:31	228	61.87	-0.02
5/20/2007	16:12:31	228.5	61.87	-0.02
5/20/2007	16:12:32	229	61.87	-0.02
5/20/2007	16:12:32	229.5	61.87	-0.02
5/20/2007	16:12:33	230	61.87	-0.02
5/20/2007	16:12:33	230.5	61.87	-0.02
5/20/2007	16:12:34	231	61.87	-0.022
5/20/2007	16:12:34	231.5	61.87	-0.02
5/20/2007	16:12:35	232	61.87	-0.022
5/20/2007	16:12:35	232.5	61.87	-0.02
5/20/2007	16:12:36	233	61.87	-0.02
5/20/2007	16:12:36	233.5	61.87	-0.022
5/20/2007	16:12:37	234	61.87	-0.02
5/20/2007	16:12:37	234.5	61.87	-0.02
5/20/2007	16:12:38	235	61.89	-0.019
5/20/2007	16:12:38	235.5	61.87	-0.02
5/20/2007	16:12:39	236	61.87	-0.02
5/20/2007	16:12:39	236.5	61.87	-0.02
5/20/2007	16:12:40	237	61.87	-0.02
5/20/2007	16:12:40	237.5	61.87	-0.02
5/20/2007	16:12:41	238	61.87	-0.02
5/20/2007	16:12:41	238.5	61.87	-0.02

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5/20/2007	16:12:42	239.5	61.87	-0.02
5/20/2007	16:12:43	240	61.87	-0.02
5/20/2007	16:12:43	240.5	61.87	-0.02
5/20/2007	16:12:44	241	61.87	-0.02
5/20/2007	16:12:44	241.5	61.87	-0.02
5/20/2007	16:12:45	242	61.87	-0.02
5/20/2007	16:12:45	242.5	61.87	-0.02
5/20/2007	16:12:46	243	61.87	-0.018
5/20/2007	16:12:46	243.5	61.87	-0.02
5/20/2007	16:12:47	244	61.87	-0.02
5/20/2007	16:12:47	244.5	61.87	-0.02
5/20/2007	16:12:48	245	61.87	-0.02
5/20/2007	16:12:48	245.5	61.87	-0.02
5/20/2007	16:12:49	246	61.87	-0.02
5/20/2007	16:12:49	246.5	61.87	-0.02
5/20/2007	16:12:50	247	61.87	-0.02
5/20/2007	16:12:50	247.5	61.89	-0.017
5/20/2007	16:12:51	248	61.87	-0.02
5/20/2007	16:12:51	248.5	61.87	-0.018
5/20/2007	16:12:52	249	61.87	-0.018
5/20/2007	16:12:52	249.5	61.87	-0.02
5/20/2007	16:12:53	250	61.87	-0.018
5/20/2007	16:12:53	250.5	61.87	-0.018
5/20/2007	16:12:54	251	61.87	-0.018
5/20/2007	16:12:54	251.5	61.87	-0.018
5/20/2007	16:12:55	252	61.89	-0.017
5/20/2007	16:12:55	252.5	61.87	-0.016
5/20/2007	16:12:56	253	61.87	-0.018
5/20/2007	16:12:56	253.5	61.87	-0.018
5/20/2007	16:12:57	254	61.87	-0.016
5/20/2007	16:12:57	254.5	61.87	-0.018
5/20/2007	16:12:58	255	61.87	-0.018
5/20/2007	16:12:58	255.5	61.87	-0.016
5/20/2007	16:12:59	256	61.87	-0.018
5/20/2007	16:12:59	256.5	61.87	-0.018
5/20/2007	16:13:00	257	61.87	-0.018
5/20/2007	16:13:00	257.5	61.87	-0.018
5/20/2007	16:13:01	258	61.87	-0.018
5/20/2007	16:13:01	258.5	61.87	-0.02
5/20/2007	16:13:02	259	61.87	-0.018
5/20/2007	16:13:02	259.5	61.87	-0.02
5/20/2007	16:13:03	260	61.87	-0.018
5/20/2007	16:13:03	260.5	61.87	-0.02
5/20/2007	16:13:04	261	61.87	-0.02
5/20/2007	16:13:04	261.5	61.87	-0.02
5/20/2007	16:13:05	262	61.87	-0.02
5/20/2007	16:13:05	262.5	61.87	-0.02
5/20/2007	16:13:06	263	61.87	-0.02
5/20/2007	16:13:06	263.5	61.87	-0.02
5/20/2007	16:13:07	264	61.87	-0.02
5/20/2007	16:13:07	264.5	61.87	-0.02

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5/20/2007	16:13:08	265.5	61.87	-0.02
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5/20/2007	16:13:09	266.5	61.87	-0.02
5/20/2007	16:13:10	267	61.87	-0.02
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5/20/2007	16:13:11	268	61.87	-0.02
5/20/2007	16:13:11	268.5	61.87	-0.02
5/20/2007	16:13:12	269	61.87	-0.02
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5/20/2007	16:13:13	270	61.87	-0.02
5/20/2007	16:13:13	270.5	61.87	-0.02
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5/20/2007	16:13:14	271.5	61.87	-0.02
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5/20/2007	16:13:16	273	61.87	-0.02
5/20/2007	16:13:16	273.5	61.87	-0.02
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5/20/2007	16:13:17	274.5	61.87	-0.02
5/20/2007	16:13:18	275	61.87	-0.02
5/20/2007	16:13:18	275.5	61.87	-0.02
5/20/2007	16:13:19	276	61.87	-0.02
5/20/2007	16:13:19	276.5	61.87	-0.02
5/20/2007	16:13:20	277	61.87	-0.02
5/20/2007	16:13:20	277.5	61.87	-0.02
5/20/2007	16:13:21	278	61.87	-0.02
5/20/2007	16:13:21	278.5	61.87	-0.02
5/20/2007	16:13:22	279	61.87	-0.02
5/20/2007	16:13:22	279.5	61.87	-0.02
5/20/2007	16:13:23	280	61.87	-0.02
5/20/2007	16:13:23	280.5	61.87	-0.022
5/20/2007	16:13:24	281	61.89	-0.021
5/20/2007	16:13:24	281.5	61.87	-0.02
5/20/2007	16:13:25	282	61.87	-0.02
5/20/2007	16:13:25	282.5	61.89	-0.019
5/20/2007	16:13:26	283	61.87	-0.02
5/20/2007	16:13:26	283.5	61.87	-0.02
5/20/2007	16:13:27	284	61.87	-0.02
5/20/2007	16:13:27	284.5	61.87	-0.02
5/20/2007	16:13:28	285	61.87	-0.022
5/20/2007	16:13:28	285.5	61.87	-0.02
5/20/2007	16:13:29	286	61.87	-0.02
5/20/2007	16:13:29	286.5	61.87	-0.02
5/20/2007	16:13:30	287	61.87	-0.02
5/20/2007	16:13:30	287.5	61.87	-0.022
5/20/2007	16:13:31	288	61.87	-0.02
5/20/2007	16:13:31	288.5	61.87	-0.02
5/20/2007	16:13:32	289	61.87	-0.02
5/20/2007	16:13:32	289.5	61.87	-0.02
5/20/2007	16:13:33	290	61.87	-0.02
5/20/2007	16:13:33	290.5	61.87	-0.022

5/20/2007	16:13:34	291	61.87	-0.022
5/20/2007	16:13:34	291.5	61.87	-0.02
5/20/2007	16:13:35	292	61.87	-0.022
5/20/2007	16:13:35	292.5	61.87	-0.022
5/20/2007	16:13:36	293	61.89	-0.021
5/20/2007	16:13:36	293.5	61.87	-0.02
5/20/2007	16:13:37	294	61.87	-0.02
5/20/2007	16:13:37	294.5	61.87	-0.02
5/20/2007	16:13:38	295	61.87	-0.02
5/20/2007	16:13:38	295.5	61.87	-0.02
5/20/2007	16:13:39	296	61.87	-0.02
5/20/2007	16:13:39	296.5	61.87	-0.02
5/20/2007	16:13:40	297	61.87	-0.02
5/20/2007	16:13:40	297.5	61.87	-0.02
5/20/2007	16:13:41	298	61.87	-0.02
5/20/2007	16:13:41	298.5	61.87	-0.02
5/20/2007	16:13:42	299	61.87	-0.02
5/20/2007	16:13:42	299.5	61.87	-0.02
5/20/2007	16:13:43	300	61.87	-0.02
5/20/2007	16:13:43	300.5	61.87	-0.02
5/20/2007	16:13:44	301	61.87	-0.02
5/20/2007	16:13:44	301.5	61.87	-0.02
5/20/2007	16:13:45	302	61.87	-0.02
5/20/2007	16:13:45	302.5	61.87	-0.02
5/20/2007	16:13:46	303	61.87	-0.02
5/20/2007	16:13:46	303.5	61.87	-0.02
5/20/2007	16:13:47	304	61.87	-0.02
5/20/2007	16:13:47	304.5	61.87	-0.02
5/20/2007	16:13:48	305	61.87	-0.02
5/20/2007	16:13:48	305.5	61.87	-0.02
5/20/2007	16:13:49	306	61.87	-0.02
5/20/2007	16:13:49	306.5	61.87	-0.02
5/20/2007	16:13:50	307	61.87	-0.02
5/20/2007	16:13:50	307.5	61.87	-0.02
5/20/2007	16:13:51	308	61.87	-0.02
5/20/2007	16:13:51	308.5	61.87	-0.02
5/20/2007	16:13:52	309	61.87	-0.02
5/20/2007	16:13:52	309.5	61.87	-0.02
5/20/2007	16:13:53	310	61.87	-0.02
5/20/2007	16:13:53	310.5	61.87	-0.02
5/20/2007	16:13:54	311	61.87	-0.02
5/20/2007	16:13:54	311.5	61.87	-0.02
5/20/2007	16:13:55	312	61.87	-0.02
5/20/2007	16:13:55	312.5	61.87	-0.02
5/20/2007	16:13:56	313	61.87	-0.022
5/20/2007	16:13:56	313.5	61.87	-0.022
5/20/2007	16:13:57	314	61.87	-0.02
5/20/2007	16:13:57	314.5	61.87	-0.022
5/20/2007	16:13:58	315	61.87	-0.02
5/20/2007	16:13:58	315.5	61.87	-0.022
5/20/2007	16:13:59	316	61.87	-0.022
5/20/2007	16:13:59	316.5	61.87	-0.02

5/20/2007	16:14:00	317	61.87	-0.02
5/20/2007	16:14:00	317.5	61.87	-0.022
5/20/2007	16:14:01	318	61.87	-0.02
5/20/2007	16:14:01	318.5	61.87	-0.022
5/20/2007	16:14:02	319	61.87	-0.022
5/20/2007	16:14:02	319.5	61.87	-0.02
5/20/2007	16:14:03	320	61.87	-0.02
5/20/2007	16:14:03	320.5	61.87	-0.02
5/20/2007	16:14:04	321	61.87	-0.02
5/20/2007	16:14:04	321.5	61.87	-0.02
5/20/2007	16:14:05	322	61.87	-0.02
5/20/2007	16:14:05	322.5	61.87	-0.02
5/20/2007	16:14:06	323	61.87	-0.02
5/20/2007	16:14:06	323.5	61.87	-0.02
5/20/2007	16:14:07	324	61.87	-0.02
5/20/2007	16:14:07	324.5	61.87	-0.02
5/20/2007	16:14:08	325	61.87	-0.02
5/20/2007	16:14:08	325.5	61.87	-0.02
5/20/2007	16:14:09	326	61.87	-0.018
5/20/2007	16:14:09	326.5	61.87	-0.02
5/20/2007	16:14:10	327	61.87	-0.02
5/20/2007	16:14:10	327.5	61.87	-0.02
5/20/2007	16:14:11	328	61.87	-0.02
5/20/2007	16:14:11	328.5	61.87	-0.022
5/20/2007	16:14:12	329	61.87	-0.02
5/20/2007	16:14:12	329.5	61.87	-0.02
5/20/2007	16:14:13	330	61.87	-0.02
5/20/2007	16:14:13	330.5	61.87	-0.02
5/20/2007	16:14:14	331	61.87	-0.02
5/20/2007	16:14:14	331.5	61.87	-0.02
5/20/2007	16:14:15	332	61.87	-0.02
5/20/2007	16:14:15	332.5	61.87	-0.02
5/20/2007	16:14:16	333	61.87	-0.02
5/20/2007	16:14:16	333.5	61.87	-0.02
5/20/2007	16:14:17	334	61.87	-0.02
5/20/2007	16:14:17	334.5	61.87	-0.02
5/20/2007	16:14:18	335	61.87	-0.02
5/20/2007	16:14:18	335.5	61.87	-0.02
5/20/2007	16:14:19	336	61.87	-0.02
5/20/2007	16:14:19	336.5	61.87	-0.02
5/20/2007	16:14:20	337	61.87	-0.02
5/20/2007	16:14:20	337.5	61.87	-0.018
5/20/2007	16:14:21	338	61.87	-0.02
5/20/2007	16:14:21	338.5	61.87	-0.02
5/20/2007	16:14:22	339	61.89	-0.017
5/20/2007	16:14:22	339.5	61.87	-0.02
5/20/2007	16:14:23	340	61.87	-0.02
5/20/2007	16:14:23	340.5	61.87	-0.02
5/20/2007	16:14:24	341	61.87	-0.02
5/20/2007	16:14:24	341.5	61.87	-0.02
5/20/2007	16:14:25	342	61.87	-0.02
5/20/2007	16:14:25	342.5	61.87	-0.02

5/20/2007	16:14:26	343	61.87	-0.02
5/20/2007	16:14:26	343.5	61.87	-0.02
5/20/2007	16:14:27	344	61.87	-0.02
5/20/2007	16:14:27	344.5	61.87	-0.02
5/20/2007	16:14:28	345	61.87	-0.02
5/20/2007	16:14:28	345.5	61.87	-0.02
5/20/2007	16:14:29	346	61.87	-0.02
5/20/2007	16:14:29	346.5	61.87	-0.018
5/20/2007	16:14:30	347	61.87	-0.02
5/20/2007	16:14:30	347.5	61.87	-0.02
5/20/2007	16:14:31	348	61.87	-0.02
5/20/2007	16:14:31	348.5	61.87	-0.02
5/20/2007	16:14:32	349	61.87	-0.018
5/20/2007	16:14:32	349.5	61.87	-0.018
5/20/2007	16:14:33	350	61.87	-0.02
5/20/2007	16:14:33	350.5	61.87	-0.018
5/20/2007	16:14:34	351	61.87	-0.018
5/20/2007	16:14:34	351.5	61.87	-0.02
5/20/2007	16:14:35	352	61.87	-0.018
5/20/2007	16:14:35	352.5	61.87	-0.018
5/20/2007	16:14:36	353	61.87	-0.018
5/20/2007	16:14:36	353.5	61.87	-0.018
5/20/2007	16:14:37	354	61.87	-0.018
5/20/2007	16:14:37	354.5	61.87	-0.02
5/20/2007	16:14:38	355	61.87	-0.018
5/20/2007	16:14:38	355.5	61.87	-0.018
5/20/2007	16:14:39	356	61.87	-0.018
5/20/2007	16:14:39	356.5	61.87	-0.018
5/20/2007	16:14:40	357	61.87	-0.018
5/20/2007	16:14:40	357.5	61.87	-0.018
5/20/2007	16:14:41	358	61.87	-0.018
5/20/2007	16:14:41	358.5	61.87	-0.018
5/20/2007	16:14:42	359	61.87	-0.018
5/20/2007	16:14:42	359.5	61.87	-0.018
5/20/2007	16:14:43	360	61.87	-0.016
5/20/2007	16:14:43	360.5	61.87	-0.018
5/20/2007	16:14:44	361	61.87	-0.018
5/20/2007	16:14:44	361.5	61.87	-0.018
5/20/2007	16:14:45	362	61.87	-0.018
5/20/2007	16:14:45	362.5	61.87	-0.016
5/20/2007	16:14:46	363	61.87	-0.016
5/20/2007	16:14:46	363.5	61.87	-0.018
5/20/2007	16:14:47	364	61.87	-0.016
5/20/2007	16:14:47	364.5	61.87	-0.016
5/20/2007	16:14:48	365	61.87	-0.016
5/20/2007	16:14:48	365.5	61.87	-0.018
5/20/2007	16:14:49	366	61.87	-0.016
5/20/2007	16:14:49	366.5	61.87	-0.016
5/20/2007	16:14:50	367	61.87	-0.016
5/20/2007	16:14:50	367.5	61.87	-0.016
5/20/2007	16:14:51	368	61.87	-0.018
5/20/2007	16:14:51	368.5	61.87	-0.018

5/20/2007	16:14:52	369	61.87	-0.016
5/20/2007	16:14:52	369.5	61.87	-0.016
5/20/2007	16:14:53	370	61.87	-0.018
5/20/2007	16:14:53	370.5	61.87	-0.016
5/20/2007	16:14:54	371	61.87	-0.016
5/20/2007	16:14:54	371.5	61.87	-0.016
5/20/2007	16:14:55	372	61.87	-0.016
5/20/2007	16:14:55	372.5	61.87	-0.018
5/20/2007	16:14:56	373	61.87	-0.018
5/20/2007	16:14:56	373.5	61.87	-0.018
5/20/2007	16:14:57	374	61.87	-0.016
5/20/2007	16:14:57	374.5	61.87	-0.016
5/20/2007	16:14:58	375	61.87	-0.016
5/20/2007	16:14:58	375.5	61.87	-0.016
5/20/2007	16:14:59	376	61.87	-0.016
5/20/2007	16:14:59	376.5	61.87	-0.018
5/20/2007	16:15:00	377	61.87	-0.018
5/20/2007	16:15:00	377.5	61.87	-0.018
5/20/2007	16:15:01	378	61.87	-0.016
5/20/2007	16:15:01	378.5	61.87	-0.018
5/20/2007	16:15:02	379	61.87	-0.018
5/20/2007	16:15:02	379.5	61.87	-0.018
5/20/2007	16:15:03	380	61.87	-0.016
5/20/2007	16:15:03	380.5	61.87	-0.016
5/20/2007	16:15:04	381	61.87	-0.016
5/20/2007	16:15:04	381.5	61.87	-0.016
5/20/2007	16:15:05	382	61.87	-0.016
5/20/2007	16:15:05	382.5	61.87	-0.016
5/20/2007	16:15:06	383	61.87	-0.016
5/20/2007	16:15:06	383.5	61.87	-0.016
5/20/2007	16:15:07	384	61.87	-0.016
5/20/2007	16:15:07	384.5	61.87	-0.016
5/20/2007	16:15:08	385	61.87	-0.016
5/20/2007	16:15:08	385.5	61.87	-0.016
5/20/2007	16:15:09	386	61.87	-0.016
5/20/2007	16:15:09	386.5	61.87	-0.016
5/20/2007	16:15:10	387	61.87	-0.014
5/20/2007	16:15:10	387.5	61.87	-0.016
5/20/2007	16:15:11	388	61.87	-0.016
5/20/2007	16:15:11	388.5	61.87	-0.016
5/20/2007	16:15:12	389	61.87	-0.016
5/20/2007	16:15:12	389.5	61.87	-0.016
5/20/2007	16:15:13	390	61.87	-0.016
5/20/2007	16:15:13	390.5	61.87	-0.016
5/20/2007	16:15:14	391	61.87	-0.016
5/20/2007	16:15:14	391.5	61.87	-0.016
5/20/2007	16:15:15	392	61.87	-0.016
5/20/2007	16:15:15	392.5	61.87	-0.018
5/20/2007	16:15:16	393	61.87	-0.016
5/20/2007	16:15:16	393.5	61.87	-0.016
5/20/2007	16:15:17	394	61.87	-0.018
5/20/2007	16:15:17	394.5	61.87	-0.018

5/20/2007	16:15:18	395	61.87	-0.018
5/20/2007	16:15:18	395.5	61.87	-0.018
5/20/2007	16:15:19	396	61.87	-0.018
5/20/2007	16:15:19	396.5	61.87	-0.018
5/20/2007	16:15:20	397	61.87	-0.018
5/20/2007	16:15:20	397.5	61.87	-0.018
5/20/2007	16:15:21	398	61.87	-0.018
5/20/2007	16:15:21	398.5	61.87	-0.018
5/20/2007	16:15:22	399	61.87	-0.018
5/20/2007	16:15:22	399.5	61.87	-0.018
5/20/2007	16:15:23	400	61.87	-0.018
5/20/2007	16:15:23	400.5	61.87	-0.018
5/20/2007	16:15:24	401	61.87	-0.018
5/20/2007	16:15:24	401.5	61.87	-0.018
5/20/2007	16:15:25	402	61.87	-0.018
5/20/2007	16:15:25	402.5	61.87	-0.018
5/20/2007	16:15:26	403	61.87	-0.018
5/20/2007	16:15:26	403.5	61.87	-0.018
5/20/2007	16:15:27	404	61.87	-0.018
5/20/2007	16:15:27	404.5	61.87	-0.018
5/20/2007	16:15:28	405	61.87	-0.018
5/20/2007	16:15:28	405.5	61.87	-0.018
5/20/2007	16:15:29	406	61.87	-0.018
5/20/2007	16:15:29	406.5	61.87	-0.018
5/20/2007	16:15:30	407	61.87	-0.018
5/20/2007	16:15:30	407.5	61.87	-0.018
5/20/2007	16:15:31	408	61.87	-0.018
5/20/2007	16:15:31	408.5	61.87	-0.02
5/20/2007	16:15:32	409	61.87	-0.018
5/20/2007	16:15:32	409.5	61.87	-0.018
5/20/2007	16:15:33	410	61.87	-0.018
5/20/2007	16:15:33	410.5	61.87	-0.018
5/20/2007	16:15:34	411	61.87	-0.018
5/20/2007	16:15:34	411.5	61.87	-0.018
5/20/2007	16:15:35	412	61.87	-0.02
5/20/2007	16:15:35	412.5	61.87	-0.018
5/20/2007	16:15:36	413	61.87	-0.02
5/20/2007	16:15:36	413.5	61.87	-0.02
5/20/2007	16:15:37	414	61.87	-0.02
5/20/2007	16:15:37	414.5	61.87	-0.02
5/20/2007	16:15:38	415	61.89	-0.017
5/20/2007	16:15:38	415.5	61.87	-0.02
5/20/2007	16:15:39	416	61.87	-0.02
5/20/2007	16:15:39	416.5	61.87	-0.02
5/20/2007	16:15:40	417	61.87	-0.02
5/20/2007	16:15:40	417.5	61.87	-0.02
5/20/2007	16:15:41	418	61.87	-0.02
5/20/2007	16:15:41	418.5	61.87	-0.018
5/20/2007	16:15:42	419	61.87	-0.018
5/20/2007	16:15:42	419.5	61.87	-0.02
5/20/2007	16:15:43	420	61.87	-0.018
5/20/2007	16:15:43	420.5	61.87	-0.02

5/20/2007	16:15:44	421	61.87	-0.02
5/20/2007	16:15:44	421.5	61.87	-0.02
5/20/2007	16:15:45	422	61.87	-0.02
5/20/2007	16:15:45	422.5	61.87	-0.02
5/20/2007	16:15:46	423	61.87	-0.02
5/20/2007	16:15:46	423.5	61.87	-0.02
5/20/2007	16:15:47	424	61.87	-0.02
5/20/2007	16:15:47	424.5	61.87	-0.02
5/20/2007	16:15:48	425	61.87	-0.02
5/20/2007	16:15:48	425.5	61.87	-0.02
5/20/2007	16:15:49	426	61.87	-0.018
5/20/2007	16:15:49	426.5	61.87	-0.018
5/20/2007	16:15:50	427	61.87	-0.02
5/20/2007	16:15:50	427.5	61.87	-0.02

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:54:11
 Report from file: ...\\SN12694 2007-05-20 162544 Test #13.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #13

Test defined on: 5/20/2007 16:25:23
 Test started on: 5/20/2007 16:25:44
 Test stopped on: 5/20/2007 16:32:20

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 792

TOTAL DATA SAMPLES 792

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 8.226 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	16:25:44	0	61.87	0
5/20/2007	16:25:44	0.5	61.89	-0.011
5/20/2007	16:25:45	1	61.91	-0.014
5/20/2007	16:25:45	1.5	61.91	-0.016
5/20/2007	16:25:46	2	61.91	-0.016
5/20/2007	16:25:46	2.5	61.94	-0.016
5/20/2007	16:25:47	3	61.94	-0.016
5/20/2007	16:25:47	3.5	61.94	-0.018
5/20/2007	16:25:48	4	61.94	-0.018
5/20/2007	16:25:48	4.5	61.94	-0.018

5/20/2007	16:25:49	5	61.94	-0.018
5/20/2007	16:25:49	5.5	61.94	-0.018
5/20/2007	16:25:50	6	61.94	-0.018
5/20/2007	16:25:50	6.5	61.94	-0.018
5/20/2007	16:25:51	7	61.96	-0.017
5/20/2007	16:25:51	7.5	61.96	-0.017
5/20/2007	16:25:52	8	61.96	-0.017
5/20/2007	16:25:52	8.5	61.96	-0.017
5/20/2007	16:25:53	9	61.96	-0.017
5/20/2007	16:25:53	9.5	61.96	-0.017
5/20/2007	16:25:54	10	61.96	-0.017
5/20/2007	16:25:54	10.5	61.96	-0.017
5/20/2007	16:25:55	11	61.96	-0.017
5/20/2007	16:25:55	11.5	61.96	-0.017
5/20/2007	16:25:56	12	61.96	-0.017
5/20/2007	16:25:56	12.5	61.96	-0.017
5/20/2007	16:25:57	13	61.96	-0.017
5/20/2007	16:25:57	13.5	61.96	-0.017
5/20/2007	16:25:58	14	61.96	-0.019
5/20/2007	16:25:58	14.5	61.96	-0.017
5/20/2007	16:25:59	15	61.96	-0.019
5/20/2007	16:25:59	15.5	61.96	-0.019
5/20/2007	16:26:00	16	61.96	-0.019
5/20/2007	16:26:00	16.5	61.98	-0.018
5/20/2007	16:26:01	17	61.98	-0.018
5/20/2007	16:26:01	17.5	61.98	-0.018
5/20/2007	16:26:02	18	61.98	-0.018
5/20/2007	16:26:02	18.5	61.98	-0.018
5/20/2007	16:26:03	19	61.98	-0.018
5/20/2007	16:26:03	19.5	61.98	-0.018
5/20/2007	16:26:04	20	61.98	-0.018
5/20/2007	16:26:04	20.5	61.98	-0.018
5/20/2007	16:26:05	21	61.98	-0.018
5/20/2007	16:26:05	21.5	61.98	-0.018
5/20/2007	16:26:06	22	61.98	-0.018
5/20/2007	16:26:06	22.5	61.98	-0.018
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5/20/2007	16:26:08	24	61.98	-0.018
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5/20/2007	16:26:13	29	62	-0.018
5/20/2007	16:26:13	29.5	61.98	-0.018
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5/20/2007	16:26:14	30.5	62	-0.02

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5/20/2007	16:26:18	34.5	62	-0.02
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5/20/2007	16:26:22	38	62	-0.018
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5/20/2007	16:28:49	185	62.05	-0.015
5/20/2007	16:28:49	185.5	62.05	-0.013
5/20/2007	16:28:50	186	62.05	-0.015
5/20/2007	16:28:50	186.5	62.05	-0.017

5/20/2007	16:28:51	187	62.05	-0.015
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5/20/2007	16:28:52	188	62.05	-0.017
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5/20/2007	16:28:53	189	62.05	-0.017
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5/20/2007	16:28:54	190	62.05	-0.017
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5/20/2007	16:28:55	191	62.05	-0.017
5/20/2007	16:28:55	191.5	62.05	-0.017
5/20/2007	16:28:56	192	62.05	-0.017
5/20/2007	16:28:56	192.5	62.05	-0.017
5/20/2007	16:28:57	193	62.05	-0.015
5/20/2007	16:28:57	193.5	62.05	-0.017
5/20/2007	16:28:58	194	62.05	-0.017
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5/20/2007	16:28:59	195	62.05	-0.017
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5/20/2007	16:29:00	196	62.05	-0.017
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5/20/2007	16:29:02	198	62.05	-0.017
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5/20/2007	16:29:03	199	62.05	-0.017
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5/20/2007	16:29:04	200	62.05	-0.017
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5/20/2007	16:29:05	201	62.05	-0.017
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5/20/2007	16:29:08	204	62.05	-0.017
5/20/2007	16:29:08	204.5	62.05	-0.017
5/20/2007	16:29:09	205	62.05	-0.017
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5/20/2007	16:29:11	207	62.05	-0.017
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5/20/2007	16:29:13	209	62.05	-0.017
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5/20/2007	16:29:14	210	62.05	-0.017
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5/20/2007	16:29:15	211	62.05	-0.015
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5/20/2007	16:29:21	217	62.05	-0.074
5/20/2007	16:29:21	217.5	62.05	-0.251
5/20/2007	16:29:22	218	62.05	-0.322
5/20/2007	16:29:22	218.5	62.05	-0.187
5/20/2007	16:29:23	219	62.05	-0.09
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5/20/2007	16:29:24	220	62.05	-0.042
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5/20/2007	16:29:25	221	62.05	-0.03
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5/20/2007	16:29:26	222	62.05	-0.024
5/20/2007	16:29:26	222.5	62.05	-0.022
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5/20/2007	16:29:27	223.5	62.05	-0.021
5/20/2007	16:29:28	224	62.05	-0.021
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5/20/2007	16:29:29	225	62.05	-0.019
5/20/2007	16:29:29	225.5	62.05	-0.019
5/20/2007	16:29:30	226	62.05	-0.124
5/20/2007	16:29:30	226.5	62.05	-0.103
5/20/2007	16:29:31	227	62.05	-0.068
5/20/2007	16:29:31	227.5	62.05	-0.065
5/20/2007	16:29:32	228	62.05	-0.045
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5/20/2007	16:29:33	229	62.07	-0.02
5/20/2007	16:29:33	229.5	62.05	-0.019
5/20/2007	16:29:34	230	62.05	-0.019
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5/20/2007	16:29:35	231	62.05	-0.017
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5/20/2007	16:29:38	234	62.05	-0.015
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5/20/2007	16:29:47	243	62.05	-0.013
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5/20/2007	16:29:49	245	62.05	-0.013
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5/20/2007	16:29:50	246	62.05	-0.013
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5/20/2007	16:29:51	247	62.05	-0.013
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5/20/2007	16:30:04	260	62.05	-0.013
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5/20/2007	16:30:34	290	62.05	-0.011
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5/20/2007	16:30:40	296	62.05	-0.011
5/20/2007	16:30:40	296.5	62.05	-0.011
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5/20/2007	16:30:42	298	62.05	-0.011
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5/20/2007	16:31:03	319	62.05	-0.011
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5/20/2007	16:31:04	320	62.05	-0.011
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5/20/2007	16:31:05	321	62.05	-0.013
5/20/2007	16:31:05	321.5	62.05	-0.011
5/20/2007	16:31:06	322	62.05	-0.013
5/20/2007	16:31:06	322.5	62.05	-0.013
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5/20/2007	16:31:07	323.5	62.05	-0.013
5/20/2007	16:31:08	324	62.05	-0.013
5/20/2007	16:31:08	324.5	62.05	-0.013
5/20/2007	16:31:09	325	62.05	-0.011
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5/20/2007	16:31:10	326	62.05	-0.013
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5/20/2007	16:31:11	327	62.05	-0.013
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5/20/2007	16:31:12	328	62.05	-0.013
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5/20/2007	16:31:13	329	62.05	-0.013
5/20/2007	16:31:13	329.5	62.05	-0.013
5/20/2007	16:31:14	330	62.05	-0.013
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5/20/2007	16:31:17	333	62.05	-0.011
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5/20/2007	16:31:18	334	62.05	-0.011
5/20/2007	16:31:18	334.5	62.05	-0.009
5/20/2007	16:31:19	335	62.05	-0.011
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5/20/2007	16:31:20	336	62.05	-0.009
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5/20/2007	16:31:22	338	62.05	-0.009
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5/20/2007	16:31:23	339	62.05	-0.009
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5/20/2007	16:31:26	342	62.05	-0.009
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5/20/2007	16:31:30	346	62.05	-0.009
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5/20/2007	16:31:31	347	62.05	-0.009
5/20/2007	16:31:31	347.5	62.05	-0.009
5/20/2007	16:31:32	348	62.05	-0.009
5/20/2007	16:31:32	348.5	62.05	-0.011
5/20/2007	16:31:33	349	62.05	-0.009
5/20/2007	16:31:33	349.5	62.05	-0.011
5/20/2007	16:31:34	350	62.05	-0.011
5/20/2007	16:31:34	350.5	62.05	-0.011
5/20/2007	16:31:35	351	62.05	-0.009
5/20/2007	16:31:35	351.5	62.05	-0.011
5/20/2007	16:31:36	352	62.05	-0.011
5/20/2007	16:31:36	352.5	62.05	-0.011
5/20/2007	16:31:37	353	62.05	-0.011
5/20/2007	16:31:37	353.5	62.05	-0.011
5/20/2007	16:31:38	354	62.05	-0.011
5/20/2007	16:31:38	354.5	62.05	-0.011
5/20/2007	16:31:39	355	62.05	-0.011
5/20/2007	16:31:39	355.5	62.05	-0.011
5/20/2007	16:31:40	356	62.05	-0.011
5/20/2007	16:31:40	356.5	62.05	-0.013
5/20/2007	16:31:41	357	62.05	-0.013
5/20/2007	16:31:41	357.5	62.05	-0.013
5/20/2007	16:31:42	358	62.05	-0.011
5/20/2007	16:31:42	358.5	62.05	-0.013
5/20/2007	16:31:43	359	62.05	-0.011
5/20/2007	16:31:43	359.5	62.05	-0.011
5/20/2007	16:31:44	360	62.05	-0.013
5/20/2007	16:31:44	360.5	62.05	-0.013
5/20/2007	16:31:45	361	62.05	-0.013
5/20/2007	16:31:45	361.5	62.05	-0.013
5/20/2007	16:31:46	362	62.05	-0.011
5/20/2007	16:31:46	362.5	62.05	-0.011
5/20/2007	16:31:47	363	62.05	-0.011
5/20/2007	16:31:47	363.5	62.05	-0.011
5/20/2007	16:31:48	364	62.05	-0.011
5/20/2007	16:31:48	364.5	62.05	-0.011
5/20/2007	16:31:49	365	62.05	-0.011
5/20/2007	16:31:49	365.5	62.05	-0.011
5/20/2007	16:31:50	366	62.05	-0.011
5/20/2007	16:31:50	366.5	62.05	-0.011
5/20/2007	16:31:51	367	62.05	-0.011
5/20/2007	16:31:51	367.5	62.05	-0.011
5/20/2007	16:31:52	368	62.05	-0.011
5/20/2007	16:31:52	368.5	62.05	-0.009

5/20/2007	16:31:53	369	62.05	-0.011
5/20/2007	16:31:53	369.5	62.05	-0.011
5/20/2007	16:31:54	370	62.03	-0.011
5/20/2007	16:31:54	370.5	62.05	-0.011
5/20/2007	16:31:55	371	62.05	-0.011
5/20/2007	16:31:55	371.5	62.05	-0.009
5/20/2007	16:31:56	372	62.05	-0.009
5/20/2007	16:31:56	372.5	62.05	-0.009
5/20/2007	16:31:57	373	62.03	-0.01
5/20/2007	16:31:57	373.5	62.05	-0.009
5/20/2007	16:31:58	374	62.03	-0.01
5/20/2007	16:31:58	374.5	62.05	-0.009
5/20/2007	16:31:59	375	62.05	-0.009
5/20/2007	16:31:59	375.5	62.03	-0.01
5/20/2007	16:32:00	376	62.05	-0.011
5/20/2007	16:32:00	376.5	62.05	-0.011
5/20/2007	16:32:01	377	62.05	-0.009
5/20/2007	16:32:01	377.5	62.05	-0.009
5/20/2007	16:32:02	378	62.05	-0.009
5/20/2007	16:32:02	378.5	62.05	-0.011
5/20/2007	16:32:03	379	62.05	-0.009
5/20/2007	16:32:03	379.5	62.03	-0.01
5/20/2007	16:32:04	380	62.05	-0.009
5/20/2007	16:32:04	380.5	62.03	-0.01
5/20/2007	16:32:05	381	62.03	-0.01
5/20/2007	16:32:05	381.5	62.03	-0.01
5/20/2007	16:32:06	382	62.03	-0.01
5/20/2007	16:32:06	382.5	62.03	-0.01
5/20/2007	16:32:07	383	62.03	-0.011
5/20/2007	16:32:07	383.5	62.03	-0.01
5/20/2007	16:32:08	384	62.05	-0.009
5/20/2007	16:32:08	384.5	62.03	-0.01
5/20/2007	16:32:09	385	62.05	-0.009
5/20/2007	16:32:09	385.5	62.05	-0.009
5/20/2007	16:32:10	386	62.03	-0.008
5/20/2007	16:32:10	386.5	62.05	-0.009
5/20/2007	16:32:11	387	62.03	-0.01
5/20/2007	16:32:11	387.5	62.03	-0.01
5/20/2007	16:32:12	388	62.03	-0.01
5/20/2007	16:32:12	388.5	62.03	-0.01
5/20/2007	16:32:13	389	62.03	-0.01
5/20/2007	16:32:13	389.5	62.05	-0.009
5/20/2007	16:32:14	390	62.03	-0.01
5/20/2007	16:32:14	390.5	62.03	-0.01
5/20/2007	16:32:15	391	62.03	-0.01
5/20/2007	16:32:15	391.5	62.05	-0.009
5/20/2007	16:32:16	392	62.03	-0.01
5/20/2007	16:32:16	392.5	62.03	-0.01
5/20/2007	16:32:17	393	62.03	-0.01
5/20/2007	16:32:17	393.5	62.05	-0.009
5/20/2007	16:32:18	394	62.05	-0.009
5/20/2007	16:32:18	394.5	62.03	-0.01

5/20/2007	16:32:19	395	62.03	-0.01
5/20/2007	16:32:19	395.5	62.03	-0.01

In-Situ Inc. MiniTroll Pro
 Report generated: 5/23/2007 11:51:19
 Report from file: ...\\SN12694 2007-05-20 160041 Test #11.bin
 Win-Situ Version 4.523

Serial number: 12694
 Firmware Version 3.09
 Unit name: OW-2

Test name: Test #11

Test defined on: 5/20/2007 16:00:24
 Test started on: 5/20/2007 16:00:41
 Test stopped on: 5/20/2007 16:08:00

Data gathered using Linear testing
 Time between data points: 0.5 Seconds.
 Number of data samples: 878

TOTAL DATA SAMPLES 878

Channel number [1]
 Measurement type: Temperature
 Channel name:

Channel number [2]
 Measurement type: Pressure
 Channel name:
 Sensor Range: 30 PSIG.
 Specific gravity: 1
 Mode: TOC
 User-defined reference: 0 Feet H2O
 Referenced on: test start
 Pressure head at reference: 8.213 Feet H2O

Date	Time	ET (sec)	Chan[1] Temperature Fahrenheit	Chan[2] Pressure Feet H2O
5/20/2007	16:00:41	0	61.76	0
5/20/2007	16:00:42	0.5	61.78	-0.011
5/20/2007	16:00:42	1	61.78	-0.015
5/20/2007	16:00:43	1.5	61.8	-0.014
5/20/2007	16:00:43	2	61.8	-0.018
5/20/2007	16:00:44	2.5	61.8	-0.018
5/20/2007	16:00:44	3	61.8	-0.018
5/20/2007	16:00:45	3.5	61.82	-0.018
5/20/2007	16:00:45	4	61.82	-0.019
5/20/2007	16:00:46	4.5	61.82	-0.019

5/20/2007	16:00:46	5	61.82	-0.019
5/20/2007	16:00:47	5.5	61.82	-0.019
5/20/2007	16:00:47	6	61.82	-0.019
5/20/2007	16:00:48	6.5	61.82	-0.019
5/20/2007	16:00:48	7	61.82	-0.019
5/20/2007	16:00:49	7.5	61.82	-0.019
5/20/2007	16:00:49	8	61.82	-0.019
5/20/2007	16:00:50	8.5	61.82	-0.019
5/20/2007	16:00:50	9	61.82	-0.019
5/20/2007	16:00:51	9.5	61.82	-0.019
5/20/2007	16:00:51	10	61.82	-0.021
5/20/2007	16:00:52	10.5	61.82	-0.019
5/20/2007	16:00:52	11	61.82	-0.021
5/20/2007	16:00:53	11.5	61.82	-0.019
5/20/2007	16:00:53	12	61.85	-0.019
5/20/2007	16:00:54	12.5	61.85	-0.021
5/20/2007	16:00:54	13	61.85	-0.021
5/20/2007	16:00:55	13.5	61.85	-0.021
5/20/2007	16:00:55	14	61.85	-0.021
5/20/2007	16:00:56	14.5	61.85	-0.021
5/20/2007	16:00:56	15	61.85	-0.021
5/20/2007	16:00:57	15.5	61.85	-0.021
5/20/2007	16:00:57	16	61.85	-0.021
5/20/2007	16:00:58	16.5	61.85	-0.021
5/20/2007	16:00:58	17	61.85	-0.021
5/20/2007	16:00:59	17.5	61.85	-0.023
5/20/2007	16:00:59	18	61.85	-0.021
5/20/2007	16:01:00	18.5	61.85	-0.021
5/20/2007	16:01:00	19	61.85	-0.021
5/20/2007	16:01:01	19.5	61.85	-0.021
5/20/2007	16:01:01	20	61.85	-0.021
5/20/2007	16:01:02	20.5	61.85	-0.021
5/20/2007	16:01:02	21	61.85	-0.023
5/20/2007	16:01:03	21.5	61.85	-0.021
5/20/2007	16:01:03	22	61.85	-0.021
5/20/2007	16:01:04	22.5	61.87	-0.02
5/20/2007	16:01:04	23	61.85	-0.023
5/20/2007	16:01:05	23.5	61.87	-0.022
5/20/2007	16:01:05	24	61.87	-0.022
5/20/2007	16:01:06	24.5	61.87	-0.022
5/20/2007	16:01:06	25	61.87	-0.022
5/20/2007	16:01:07	25.5	61.87	-0.02
5/20/2007	16:01:07	26	61.87	-0.02
5/20/2007	16:01:08	26.5	61.87	-0.022
5/20/2007	16:01:08	27	61.87	-0.022
5/20/2007	16:01:09	27.5	61.87	-0.022
5/20/2007	16:01:09	28	61.87	-0.02
5/20/2007	16:01:10	28.5	61.87	-0.02
5/20/2007	16:01:10	29	61.87	-0.02
5/20/2007	16:01:11	29.5	61.87	-0.02
5/20/2007	16:01:11	30	61.87	-0.022
5/20/2007	16:01:12	30.5	61.87	-0.02

5/20/2007	16:01:12	31	61.87	-0.022
5/20/2007	16:01:13	31.5	61.87	-0.022
5/20/2007	16:01:13	32	61.87	-0.02
5/20/2007	16:01:14	32.5	61.87	-0.02
5/20/2007	16:01:14	33	61.87	-0.022
5/20/2007	16:01:15	33.5	61.87	-0.02
5/20/2007	16:01:15	34	61.87	-0.022
5/20/2007	16:01:16	34.5	61.87	-0.02
5/20/2007	16:01:16	35	61.87	-0.022
5/20/2007	16:01:17	35.5	61.87	-0.022
5/20/2007	16:01:17	36	61.87	-0.022
5/20/2007	16:01:18	36.5	61.87	-0.022
5/20/2007	16:01:18	37	61.89	-0.022
5/20/2007	16:01:19	37.5	61.87	-0.02
5/20/2007	16:01:19	38	61.87	-0.022
5/20/2007	16:01:20	38.5	61.87	-0.02
5/20/2007	16:01:20	39	61.89	-0.022
5/20/2007	16:01:21	39.5	61.87	-0.022
5/20/2007	16:01:21	40	61.89	-0.022
5/20/2007	16:01:22	40.5	61.89	-0.022
5/20/2007	16:01:22	41	61.89	-0.022
5/20/2007	16:01:23	41.5	61.89	-0.022
5/20/2007	16:01:23	42	61.89	-0.022
5/20/2007	16:01:24	42.5	61.89	-0.022
5/20/2007	16:01:24	43	61.89	-0.022
5/20/2007	16:01:25	43.5	61.89	-0.022
5/20/2007	16:01:25	44	61.89	-0.022
5/20/2007	16:01:26	44.5	61.89	-0.022
5/20/2007	16:01:26	45	61.89	-0.022
5/20/2007	16:01:27	45.5	61.89	-0.022
5/20/2007	16:01:27	46	61.89	-0.022
5/20/2007	16:01:28	46.5	61.89	-0.022
5/20/2007	16:01:28	47	61.89	-0.022
5/20/2007	16:01:29	47.5	61.89	-0.022
5/20/2007	16:01:29	48	61.89	-0.022
5/20/2007	16:01:30	48.5	61.89	-0.022
5/20/2007	16:01:30	49	61.89	-0.022
5/20/2007	16:01:31	49.5	61.89	-0.022
5/20/2007	16:01:31	50	61.89	-0.022
5/20/2007	16:01:32	50.5	61.89	-0.022
5/20/2007	16:01:32	51	61.89	-0.022
5/20/2007	16:01:33	51.5	61.89	-0.022
5/20/2007	16:01:33	52	61.89	-0.022
5/20/2007	16:01:34	52.5	61.89	-0.022
5/20/2007	16:01:34	53	61.89	-0.022
5/20/2007	16:01:35	53.5	61.89	-0.022
5/20/2007	16:01:35	54	61.89	-0.022
5/20/2007	16:01:36	54.5	61.89	-0.022
5/20/2007	16:01:36	55	61.89	-0.022
5/20/2007	16:01:37	55.5	61.89	-0.022
5/20/2007	16:01:37	56	61.89	-0.022
5/20/2007	16:01:38	56.5	61.89	-0.022

5/20/2007	16:01:38	57	61.89	-0.022
5/20/2007	16:01:39	57.5	61.89	-0.02
5/20/2007	16:01:39	58	61.89	-0.022
5/20/2007	16:01:40	58.5	61.89	-0.022
5/20/2007	16:01:40	59	61.89	-0.022
5/20/2007	16:01:41	59.5	61.89	-0.022
5/20/2007	16:01:41	60	61.89	-0.02
5/20/2007	16:01:42	60.5	61.89	-0.022
5/20/2007	16:01:42	61	61.89	-0.022
5/20/2007	16:01:43	61.5	61.89	-0.02
5/20/2007	16:01:43	62	61.89	-0.022
5/20/2007	16:01:44	62.5	61.89	-0.02
5/20/2007	16:01:44	63	61.91	-0.021
5/20/2007	16:01:45	63.5	61.89	-0.02
5/20/2007	16:01:45	64	61.89	-0.022
5/20/2007	16:01:46	64.5	61.89	-0.022
5/20/2007	16:01:46	65	61.91	-0.019
5/20/2007	16:01:47	65.5	61.91	-0.019
5/20/2007	16:01:47	66	61.89	-0.02
5/20/2007	16:01:48	66.5	61.91	-0.021
5/20/2007	16:01:48	67	61.91	-0.021
5/20/2007	16:01:49	67.5	61.91	-0.019
5/20/2007	16:01:49	68	61.91	-0.021
5/20/2007	16:01:50	68.5	61.91	-0.019
5/20/2007	16:01:50	69	61.91	-0.021
5/20/2007	16:01:51	69.5	61.91	-0.021
5/20/2007	16:01:51	70	61.91	-0.021
5/20/2007	16:01:52	70.5	61.91	-0.021
5/20/2007	16:01:52	71	61.91	-0.019
5/20/2007	16:01:53	71.5	61.91	-0.019
5/20/2007	16:01:53	72	61.91	-0.019
5/20/2007	16:01:54	72.5	61.91	-0.019
5/20/2007	16:01:54	73	61.91	-0.021
5/20/2007	16:01:55	73.5	61.91	-0.019
5/20/2007	16:01:55	74	61.91	-0.019
5/20/2007	16:01:56	74.5	61.91	-0.021
5/20/2007	16:01:56	75	61.91	-0.019
5/20/2007	16:01:57	75.5	61.91	-0.019
5/20/2007	16:01:57	76	61.91	-0.019
5/20/2007	16:01:58	76.5	61.91	-0.021
5/20/2007	16:01:58	77	61.91	-0.019
5/20/2007	16:01:59	77.5	61.91	-0.019
5/20/2007	16:01:59	78	61.91	-0.019
5/20/2007	16:02:00	78.5	61.91	-0.019
5/20/2007	16:02:00	79	61.91	-0.019
5/20/2007	16:02:01	79.5	61.91	-0.019
5/20/2007	16:02:01	80	61.91	-0.019
5/20/2007	16:02:02	80.5	61.91	-0.019
5/20/2007	16:02:02	81	61.91	-0.019
5/20/2007	16:02:03	81.5	61.91	-0.019
5/20/2007	16:02:03	82	61.91	-0.019
5/20/2007	16:02:04	82.5	61.91	-0.019

5/20/2007	16:02:04	83	61.91	-0.019
5/20/2007	16:02:05	83.5	61.91	-0.019
5/20/2007	16:02:05	84	61.91	-0.019
5/20/2007	16:02:06	84.5	61.91	-0.019
5/20/2007	16:02:06	85	61.91	-0.019
5/20/2007	16:02:07	85.5	61.91	-0.019
5/20/2007	16:02:07	86	61.91	-0.019
5/20/2007	16:02:08	86.5	61.91	-0.019
5/20/2007	16:02:08	87	61.91	-0.019
5/20/2007	16:02:09	87.5	61.91	-0.019
5/20/2007	16:02:09	88	61.91	-0.019
5/20/2007	16:02:10	88.5	61.91	-0.019
5/20/2007	16:02:10	89	61.91	-0.019
5/20/2007	16:02:11	89.5	61.91	-0.019
5/20/2007	16:02:11	90	61.91	-0.019
5/20/2007	16:02:12	90.5	61.91	-0.019
5/20/2007	16:02:12	91	61.91	-0.019
5/20/2007	16:02:13	91.5	61.91	-0.019
5/20/2007	16:02:13	92	61.91	-0.019
5/20/2007	16:02:14	92.5	61.91	-0.019
5/20/2007	16:02:14	93	61.91	-0.021
5/20/2007	16:02:15	93.5	61.91	-0.019
5/20/2007	16:02:15	94	61.91	-0.019
5/20/2007	16:02:16	94.5	61.91	-0.019
5/20/2007	16:02:16	95	61.91	-0.019
5/20/2007	16:02:17	95.5	61.91	-0.019
5/20/2007	16:02:17	96	61.91	-0.019
5/20/2007	16:02:18	96.5	61.91	-0.019
5/20/2007	16:02:18	97	61.91	-0.019
5/20/2007	16:02:19	97.5	61.91	-0.019
5/20/2007	16:02:19	98	61.91	-0.019
5/20/2007	16:02:20	98.5	61.91	-0.019
5/20/2007	16:02:20	99	61.91	-0.019
5/20/2007	16:02:21	99.5	61.91	-0.019
5/20/2007	16:02:21	100	61.91	-0.019
5/20/2007	16:02:22	100.5	61.91	-0.019
5/20/2007	16:02:22	101	61.91	-0.019
5/20/2007	16:02:23	101.5	61.91	-0.019
5/20/2007	16:02:23	102	61.91	-0.019
5/20/2007	16:02:24	102.5	61.91	-0.019
5/20/2007	16:02:24	103	61.91	-0.019
5/20/2007	16:02:25	103.5	61.91	-0.019
5/20/2007	16:02:25	104	61.91	-0.019
5/20/2007	16:02:26	104.5	61.91	-0.017
5/20/2007	16:02:26	105	61.91	-0.019
5/20/2007	16:02:27	105.5	61.91	-0.019
5/20/2007	16:02:27	106	61.91	-0.019
5/20/2007	16:02:28	106.5	61.91	-0.019
5/20/2007	16:02:28	107	61.91	-0.019
5/20/2007	16:02:29	107.5	61.91	-0.019
5/20/2007	16:02:29	108	61.91	-0.019
5/20/2007	16:02:30	108.5	61.91	-0.019

5/20/2007	16:02:30	109	61.91	-0.019
5/20/2007	16:02:31	109.5	61.91	-0.019
5/20/2007	16:02:31	110	61.91	-0.019
5/20/2007	16:02:32	110.5	61.91	-0.019
5/20/2007	16:02:32	111	61.91	-0.019
5/20/2007	16:02:33	111.5	61.91	-0.019
5/20/2007	16:02:33	112	61.91	-0.019
5/20/2007	16:02:34	112.5	61.91	-0.019
5/20/2007	16:02:34	113	61.91	-0.019
5/20/2007	16:02:35	113.5	61.91	-0.019
5/20/2007	16:02:35	114	61.91	-0.019
5/20/2007	16:02:36	114.5	61.94	-0.019
5/20/2007	16:02:36	115	61.91	-0.019
5/20/2007	16:02:37	115.5	61.91	-0.019
5/20/2007	16:02:37	116	61.91	-0.019
5/20/2007	16:02:38	116.5	61.91	-0.019
5/20/2007	16:02:38	117	61.91	-0.019
5/20/2007	16:02:39	117.5	61.91	-0.019
5/20/2007	16:02:39	118	61.94	-0.019
5/20/2007	16:02:40	118.5	61.91	-0.019
5/20/2007	16:02:40	119	61.94	-0.019
5/20/2007	16:02:41	119.5	61.91	-0.019
5/20/2007	16:02:41	120	61.94	-0.019
5/20/2007	16:02:42	120.5	61.91	-0.019
5/20/2007	16:02:42	121	61.91	-0.019
5/20/2007	16:02:43	121.5	61.91	-0.019
5/20/2007	16:02:43	122	61.91	-0.019
5/20/2007	16:02:44	122.5	61.94	-0.019
5/20/2007	16:02:44	123	61.91	-0.019
5/20/2007	16:02:45	123.5	61.91	-0.019
5/20/2007	16:02:45	124	61.91	-0.019
5/20/2007	16:02:46	124.5	61.91	-0.019
5/20/2007	16:02:46	125	61.91	-0.019
5/20/2007	16:02:47	125.5	61.91	-0.019
5/20/2007	16:02:47	126	61.91	-0.019
5/20/2007	16:02:48	126.5	61.94	-0.019
5/20/2007	16:02:48	127	61.91	-0.019
5/20/2007	16:02:49	127.5	61.94	-0.019
5/20/2007	16:02:49	128	61.91	-0.021
5/20/2007	16:02:50	128.5	61.91	-0.019
5/20/2007	16:02:50	129	61.91	-0.021
5/20/2007	16:02:51	129.5	61.91	-0.019
5/20/2007	16:02:51	130	61.94	-0.019
5/20/2007	16:02:52	130.5	61.91	-0.019
5/20/2007	16:02:52	131	61.91	-0.019
5/20/2007	16:02:53	131.5	61.94	-0.019
5/20/2007	16:02:53	132	61.91	-0.019
5/20/2007	16:02:54	132.5	61.91	-0.019
5/20/2007	16:02:54	133	61.91	-0.019
5/20/2007	16:02:55	133.5	61.91	-0.019
5/20/2007	16:02:55	134	61.91	-0.019
5/20/2007	16:02:56	134.5	61.91	-0.019

5/20/2007	16:02:56	135	61.94	-0.019
5/20/2007	16:02:57	135.5	61.91	-0.019
5/20/2007	16:02:57	136	61.94	-0.019
5/20/2007	16:02:58	136.5	61.94	-0.021
5/20/2007	16:02:58	137	61.94	-0.019
5/20/2007	16:02:59	137.5	61.94	-0.019
5/20/2007	16:02:59	138	61.91	-0.019
5/20/2007	16:03:00	138.5	61.91	-0.019
5/20/2007	16:03:00	139	61.94	-0.019
5/20/2007	16:03:01	139.5	61.91	-0.019
5/20/2007	16:03:01	140	61.91	-0.019
5/20/2007	16:03:02	140.5	61.94	-0.019
5/20/2007	16:03:02	141	61.94	-0.019
5/20/2007	16:03:03	141.5	61.91	-0.019
5/20/2007	16:03:03	142	61.91	-0.019
5/20/2007	16:03:04	142.5	61.91	-0.019
5/20/2007	16:03:04	143	61.94	-0.019
5/20/2007	16:03:05	143.5	61.94	-0.019
5/20/2007	16:03:05	144	61.91	-0.019
5/20/2007	16:03:06	144.5	61.94	-0.019
5/20/2007	16:03:06	145	61.94	-0.019
5/20/2007	16:03:07	145.5	61.91	-0.019
5/20/2007	16:03:07	146	61.91	-0.021
5/20/2007	16:03:08	146.5	61.94	-0.019
5/20/2007	16:03:08	147	61.91	-0.019
5/20/2007	16:03:09	147.5	61.91	-0.019
5/20/2007	16:03:09	148	61.91	-0.019
5/20/2007	16:03:10	148.5	61.94	-0.019
5/20/2007	16:03:10	149	61.91	-0.019
5/20/2007	16:03:11	149.5	61.94	-0.019
5/20/2007	16:03:11	150	61.94	-0.021
5/20/2007	16:03:12	150.5	61.94	-0.021
5/20/2007	16:03:12	151	61.94	-0.021
5/20/2007	16:03:13	151.5	61.94	-0.019
5/20/2007	16:03:13	152	61.91	-0.019
5/20/2007	16:03:14	152.5	61.91	-0.019
5/20/2007	16:03:14	153	61.94	-0.019
5/20/2007	16:03:15	153.5	61.91	-0.019
5/20/2007	16:03:15	154	61.91	-0.021
5/20/2007	16:03:16	154.5	61.94	-0.021
5/20/2007	16:03:16	155	61.91	-0.021
5/20/2007	16:03:17	155.5	61.91	-0.021
5/20/2007	16:03:17	156	61.91	-0.021
5/20/2007	16:03:18	156.5	61.94	-0.021
5/20/2007	16:03:18	157	61.94	-0.019
5/20/2007	16:03:19	157.5	61.94	-0.021
5/20/2007	16:03:19	158	61.94	-0.019
5/20/2007	16:03:20	158.5	61.91	-0.021
5/20/2007	16:03:20	159	61.94	-0.021
5/20/2007	16:03:21	159.5	61.91	-0.021
5/20/2007	16:03:21	160	61.94	-0.019
5/20/2007	16:03:22	160.5	61.94	-0.021

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5/20/2007	16:03:23	162	61.94	-0.019
5/20/2007	16:03:24	162.5	61.94	-0.019
5/20/2007	16:03:24	163	61.91	-0.019
5/20/2007	16:03:25	163.5	61.91	-0.019
5/20/2007	16:03:25	164	61.94	-0.019
5/20/2007	16:03:26	164.5	61.94	-0.019
5/20/2007	16:03:26	165	61.94	-0.019
5/20/2007	16:03:27	165.5	61.91	-0.019
5/20/2007	16:03:27	166	61.94	-0.019
5/20/2007	16:03:28	166.5	61.94	-0.019
5/20/2007	16:03:28	167	61.91	-0.019
5/20/2007	16:03:29	167.5	61.94	-0.019
5/20/2007	16:03:29	168	61.94	-0.019
5/20/2007	16:03:30	168.5	61.94	-0.019
5/20/2007	16:03:30	169	61.94	-0.019
5/20/2007	16:03:31	169.5	61.94	-0.019
5/20/2007	16:03:31	170	61.94	-0.019
5/20/2007	16:03:32	170.5	61.91	-0.019
5/20/2007	16:03:32	171	61.94	-0.019
5/20/2007	16:03:33	171.5	61.94	-0.019
5/20/2007	16:03:33	172	61.94	-0.019
5/20/2007	16:03:34	172.5	61.94	-0.019
5/20/2007	16:03:34	173	61.91	-0.019
5/20/2007	16:03:35	173.5	61.94	-0.019
5/20/2007	16:03:35	174	61.94	-0.019
5/20/2007	16:03:36	174.5	61.94	-0.019
5/20/2007	16:03:36	175	61.91	-0.019
5/20/2007	16:03:37	175.5	61.94	-0.019
5/20/2007	16:03:37	176	61.94	-0.019
5/20/2007	16:03:38	176.5	61.94	-0.019
5/20/2007	16:03:38	177	61.94	-0.019
5/20/2007	16:03:39	177.5	61.91	-0.019
5/20/2007	16:03:39	178	61.91	-0.019
5/20/2007	16:03:40	178.5	61.91	-0.019
5/20/2007	16:03:40	179	61.91	-0.019
5/20/2007	16:03:41	179.5	61.91	-0.019
5/20/2007	16:03:41	180	61.91	-0.019
5/20/2007	16:03:42	180.5	61.94	-0.019
5/20/2007	16:03:42	181	61.94	-0.019
5/20/2007	16:03:43	181.5	61.94	-0.019
5/20/2007	16:03:43	182	61.91	-0.019
5/20/2007	16:03:44	182.5	61.91	-0.019
5/20/2007	16:03:44	183	61.94	-0.017
5/20/2007	16:03:45	183.5	61.94	-0.017
5/20/2007	16:03:45	184	61.91	-0.017
5/20/2007	16:03:46	184.5	61.91	-0.017
5/20/2007	16:03:46	185	61.94	-0.017
5/20/2007	16:03:47	185.5	61.94	-0.017
5/20/2007	16:03:47	186	61.91	-0.019
5/20/2007	16:03:48	186.5	61.94	-0.019

5/20/2007	16:03:48	187	61.91	-0.019
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5/20/2007	16:03:49	188	61.91	-0.019
5/20/2007	16:03:50	188.5	61.94	-0.019
5/20/2007	16:03:50	189	61.91	-0.019
5/20/2007	16:03:51	189.5	61.91	-0.019
5/20/2007	16:03:51	190	61.91	-0.019
5/20/2007	16:03:52	190.5	61.91	-0.017
5/20/2007	16:03:52	191	61.94	-0.017
5/20/2007	16:03:53	191.5	61.94	-0.017
5/20/2007	16:03:53	192	61.94	-0.019
5/20/2007	16:03:54	192.5	61.94	-0.017
5/20/2007	16:03:54	193	61.94	-0.017
5/20/2007	16:03:55	193.5	61.94	-0.019
5/20/2007	16:03:55	194	61.94	-0.017
5/20/2007	16:03:56	194.5	61.94	-0.017
5/20/2007	16:03:56	195	61.94	-0.017
5/20/2007	16:03:57	195.5	61.94	-0.019
5/20/2007	16:03:57	196	61.94	-0.017
5/20/2007	16:03:58	196.5	61.94	-0.019
5/20/2007	16:03:58	197	61.94	-0.019
5/20/2007	16:03:59	197.5	61.91	-0.019
5/20/2007	16:03:59	198	61.94	-0.019
5/20/2007	16:04:00	198.5	61.91	-0.019
5/20/2007	16:04:00	199	61.94	-0.017
5/20/2007	16:04:01	199.5	61.94	-0.019
5/20/2007	16:04:01	200	61.94	-0.017
5/20/2007	16:04:02	200.5	61.91	-0.019
5/20/2007	16:04:02	201	61.91	-0.019
5/20/2007	16:04:03	201.5	61.94	-0.019
5/20/2007	16:04:03	202	61.91	-0.017
5/20/2007	16:04:04	202.5	61.94	-0.017
5/20/2007	16:04:04	203	61.94	-0.019
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5/20/2007	16:04:05	204	61.94	-0.017
5/20/2007	16:04:06	204.5	61.94	-0.019
5/20/2007	16:04:06	205	61.94	-0.019
5/20/2007	16:04:07	205.5	61.94	-0.019
5/20/2007	16:04:07	206	61.94	-0.019
5/20/2007	16:04:08	206.5	61.94	-0.019
5/20/2007	16:04:08	207	61.91	-0.019
5/20/2007	16:04:09	207.5	61.94	-0.019
5/20/2007	16:04:09	208	61.94	-0.019
5/20/2007	16:04:10	208.5	61.94	-0.019
5/20/2007	16:04:10	209	61.94	-0.019
5/20/2007	16:04:11	209.5	61.94	-0.019
5/20/2007	16:04:11	210	61.94	-0.019
5/20/2007	16:04:12	210.5	61.94	-0.019
5/20/2007	16:04:12	211	61.94	-0.019
5/20/2007	16:04:13	211.5	61.91	-0.019
5/20/2007	16:04:13	212	61.91	-0.019
5/20/2007	16:04:14	212.5	61.94	-0.019

5/20/2007	16:04:14	213	61.94	-0.019
5/20/2007	16:04:15	213.5	61.94	-0.019
5/20/2007	16:04:15	214	61.94	-0.019
5/20/2007	16:04:16	214.5	61.94	-0.021
5/20/2007	16:04:16	215	61.94	-0.019
5/20/2007	16:04:17	215.5	61.91	-0.019
5/20/2007	16:04:17	216	61.94	-0.019
5/20/2007	16:04:18	216.5	61.94	-0.019
5/20/2007	16:04:18	217	61.94	-0.019
5/20/2007	16:04:19	217.5	61.94	-0.019
5/20/2007	16:04:19	218	61.94	-0.019
5/20/2007	16:04:20	218.5	61.94	-0.019
5/20/2007	16:04:20	219	61.94	-0.019
5/20/2007	16:04:21	219.5	61.94	-0.019
5/20/2007	16:04:21	220	61.91	-0.019
5/20/2007	16:04:22	220.5	61.94	-0.019
5/20/2007	16:04:22	221	61.94	-0.019
5/20/2007	16:04:23	221.5	61.91	-0.019
5/20/2007	16:04:23	222	61.91	-0.019
5/20/2007	16:04:24	222.5	61.94	-0.019
5/20/2007	16:04:24	223	61.91	-0.019
5/20/2007	16:04:25	223.5	61.91	-0.017
5/20/2007	16:04:25	224	61.94	-0.017
5/20/2007	16:04:26	224.5	61.94	-0.017
5/20/2007	16:04:26	225	61.94	-0.019
5/20/2007	16:04:27	225.5	61.91	-0.019
5/20/2007	16:04:27	226	61.94	-0.017
5/20/2007	16:04:28	226.5	61.91	-0.017
5/20/2007	16:04:28	227	61.91	-0.019
5/20/2007	16:04:29	227.5	61.91	-0.019
5/20/2007	16:04:29	228	61.94	-0.017
5/20/2007	16:04:30	228.5	61.94	-0.017
5/20/2007	16:04:30	229	61.91	-0.019
5/20/2007	16:04:31	229.5	61.94	-0.017
5/20/2007	16:04:31	230	61.94	-0.017
5/20/2007	16:04:32	230.5	61.91	-0.017
5/20/2007	16:04:32	231	61.94	-0.017
5/20/2007	16:04:33	231.5	61.94	-0.017
5/20/2007	16:04:33	232	61.94	-0.017
5/20/2007	16:04:34	232.5	61.94	-0.017
5/20/2007	16:04:34	233	61.94	-0.017
5/20/2007	16:04:35	233.5	61.91	-0.017
5/20/2007	16:04:35	234	61.94	-0.017
5/20/2007	16:04:36	234.5	61.94	-0.017
5/20/2007	16:04:36	235	61.94	-0.017
5/20/2007	16:04:37	235.5	61.91	-0.017
5/20/2007	16:04:37	236	61.91	-0.017
5/20/2007	16:04:38	236.5	61.91	-0.017
5/20/2007	16:04:38	237	61.94	-0.017
5/20/2007	16:04:39	237.5	61.94	-0.017
5/20/2007	16:04:39	238	61.91	-0.017
5/20/2007	16:04:40	238.5	61.91	-0.017

5/20/2007	16:04:40	239	61.94	-0.017
5/20/2007	16:04:41	239.5	61.94	-0.017
5/20/2007	16:04:41	240	61.94	-0.017
5/20/2007	16:04:42	240.5	61.94	-0.017
5/20/2007	16:04:42	241	61.91	-0.017
5/20/2007	16:04:43	241.5	61.91	-0.017
5/20/2007	16:04:43	242	61.91	-0.017
5/20/2007	16:04:44	242.5	61.91	-0.017
5/20/2007	16:04:44	243	61.91	-0.017
5/20/2007	16:04:45	243.5	61.94	-0.017
5/20/2007	16:04:45	244	61.91	-0.017
5/20/2007	16:04:46	244.5	61.91	-0.017
5/20/2007	16:04:46	245	61.91	-0.017
5/20/2007	16:04:47	245.5	61.91	-0.017
5/20/2007	16:04:47	246	61.91	-0.017
5/20/2007	16:04:48	246.5	61.91	-0.017
5/20/2007	16:04:48	247	61.91	-0.017
5/20/2007	16:04:49	247.5	61.91	-0.017
5/20/2007	16:04:49	248	61.91	-0.017
5/20/2007	16:04:50	248.5	61.91	-0.017
5/20/2007	16:04:50	249	61.91	-0.017
5/20/2007	16:04:51	249.5	61.91	-0.017
5/20/2007	16:04:51	250	61.91	-0.017
5/20/2007	16:04:52	250.5	61.91	-0.017
5/20/2007	16:04:52	251	61.91	-0.017
5/20/2007	16:04:53	251.5	61.94	-0.017
5/20/2007	16:04:53	252	61.91	-0.017
5/20/2007	16:04:54	252.5	61.94	-0.017
5/20/2007	16:04:54	253	61.91	-0.017
5/20/2007	16:04:55	253.5	61.94	-0.017
5/20/2007	16:04:55	254	61.94	-0.017
5/20/2007	16:04:56	254.5	61.91	-0.017
5/20/2007	16:04:56	255	61.91	-0.017
5/20/2007	16:04:57	255.5	61.94	-0.017
5/20/2007	16:04:57	256	61.91	-0.017
5/20/2007	16:04:58	256.5	61.91	-0.017
5/20/2007	16:04:58	257	61.91	-0.017
5/20/2007	16:04:59	257.5	61.94	-0.017
5/20/2007	16:04:59	258	61.94	-0.019
5/20/2007	16:05:00	258.5	61.91	-0.019
5/20/2007	16:05:00	259	61.91	-0.019
5/20/2007	16:05:01	259.5	61.91	-0.017
5/20/2007	16:05:01	260	61.91	-0.017
5/20/2007	16:05:02	260.5	61.91	-0.019
5/20/2007	16:05:02	261	61.91	-0.017
5/20/2007	16:05:03	261.5	61.91	-0.017
5/20/2007	16:05:03	262	61.91	-0.019
5/20/2007	16:05:04	262.5	61.91	-0.017
5/20/2007	16:05:04	263	61.91	-0.019
5/20/2007	16:05:05	263.5	61.91	-0.019
5/20/2007	16:05:05	264	61.91	-0.017
5/20/2007	16:05:06	264.5	61.91	-0.017

5/20/2007	16:05:06	265	61.91	-0.019
5/20/2007	16:05:07	265.5	61.91	-0.017
5/20/2007	16:05:07	266	61.91	-0.017
5/20/2007	16:05:08	266.5	61.91	-0.017
5/20/2007	16:05:08	267	61.94	-0.017
5/20/2007	16:05:09	267.5	61.91	-0.017
5/20/2007	16:05:09	268	61.91	-0.017
5/20/2007	16:05:10	268.5	61.91	-0.017
5/20/2007	16:05:10	269	61.91	-0.017
5/20/2007	16:05:11	269.5	61.94	-0.017
5/20/2007	16:05:11	270	61.91	-0.017
5/20/2007	16:05:12	270.5	61.91	-0.017
5/20/2007	16:05:12	271	61.91	-0.017
5/20/2007	16:05:13	271.5	61.91	-0.017
5/20/2007	16:05:13	272	61.91	-0.017
5/20/2007	16:05:14	272.5	61.91	-0.017
5/20/2007	16:05:14	273	61.91	-0.017
5/20/2007	16:05:15	273.5	61.91	-0.017
5/20/2007	16:05:15	274	61.91	-0.017
5/20/2007	16:05:16	274.5	61.91	-0.017
5/20/2007	16:05:16	275	61.91	-0.017
5/20/2007	16:05:17	275.5	61.94	-0.017
5/20/2007	16:05:17	276	61.91	-0.017
5/20/2007	16:05:18	276.5	61.91	-0.017
5/20/2007	16:05:18	277	61.91	-0.017
5/20/2007	16:05:19	277.5	61.91	-0.019
5/20/2007	16:05:19	278	61.91	-0.017
5/20/2007	16:05:20	278.5	61.91	-0.017
5/20/2007	16:05:20	279	61.91	-0.017
5/20/2007	16:05:21	279.5	61.91	-0.019
5/20/2007	16:05:21	280	61.91	-0.017
5/20/2007	16:05:22	280.5	61.91	-0.015
5/20/2007	16:05:22	281	61.91	-0.017
5/20/2007	16:05:23	281.5	61.94	-0.03
5/20/2007	16:05:23	282	61.91	-0.015
5/20/2007	16:05:24	282.5	61.91	-0.203
5/20/2007	16:05:24	283	61.91	-0.215
5/20/2007	16:05:25	283.5	61.91	-0.136
5/20/2007	16:05:25	284	61.94	-0.061
5/20/2007	16:05:26	284.5	61.91	-0.044
5/20/2007	16:05:26	285	61.91	-0.036
5/20/2007	16:05:27	285.5	61.91	-0.033
5/20/2007	16:05:27	286	61.91	-0.029
5/20/2007	16:05:28	286.5	61.91	-0.029
5/20/2007	16:05:28	287	61.91	-0.027
5/20/2007	16:05:29	287.5	61.91	-0.027
5/20/2007	16:05:29	288	61.91	-0.025
5/20/2007	16:05:30	288.5	61.91	-0.023
5/20/2007	16:05:30	289	61.91	-0.023
5/20/2007	16:05:31	289.5	61.91	-0.023
5/20/2007	16:05:31	290	61.94	-0.021
5/20/2007	16:05:32	290.5	61.91	-0.021

5/20/2007	16:05:32	291	61.91	-0.021
5/20/2007	16:05:33	291.5	61.91	-0.021
5/20/2007	16:05:33	292	61.91	-0.021
5/20/2007	16:05:34	292.5	61.94	-0.019
5/20/2007	16:05:34	293	61.91	-0.021
5/20/2007	16:05:35	293.5	61.91	-0.021
5/20/2007	16:05:35	294	61.94	-0.021
5/20/2007	16:05:36	294.5	61.91	-0.019
5/20/2007	16:05:36	295	61.91	-0.019
5/20/2007	16:05:37	295.5	61.91	-0.021
5/20/2007	16:05:37	296	61.94	-0.021
5/20/2007	16:05:38	296.5	61.94	-0.019
5/20/2007	16:05:38	297	61.94	-0.019
5/20/2007	16:05:39	297.5	61.91	-0.019
5/20/2007	16:05:39	298	61.91	-0.019
5/20/2007	16:05:40	298.5	61.91	-0.019
5/20/2007	16:05:40	299	61.91	0.213
5/20/2007	16:05:41	299.5	61.91	0.086
5/20/2007	16:05:41	300	61.91	-0.176
5/20/2007	16:05:42	300.5	61.91	-0.111
5/20/2007	16:05:42	301	61.91	-0.044
5/20/2007	16:05:43	301.5	61.91	-0.035
5/20/2007	16:05:43	302	61.94	-0.03
5/20/2007	16:05:44	302.5	61.94	-0.024
5/20/2007	16:05:44	303	61.91	-0.025
5/20/2007	16:05:45	303.5	61.91	-0.025
5/20/2007	16:05:45	304	61.91	-0.023
5/20/2007	16:05:46	304.5	61.94	-0.022
5/20/2007	16:05:46	305	61.94	0.173
5/20/2007	16:05:47	305.5	61.94	0.02
5/20/2007	16:05:47	306	61.94	-0.141
5/20/2007	16:05:48	306.5	61.94	-0.093
5/20/2007	16:05:48	307	61.94	-0.042
5/20/2007	16:05:49	307.5	61.91	-0.035
5/20/2007	16:05:49	308	61.94	-0.032
5/20/2007	16:05:50	308.5	61.91	-0.029
5/20/2007	16:05:50	309	61.94	-0.028
5/20/2007	16:05:51	309.5	61.94	-0.028
5/20/2007	16:05:51	310	61.94	-0.026
5/20/2007	16:05:52	310.5	61.94	-0.024
5/20/2007	16:05:52	311	61.91	-0.027
5/20/2007	16:05:53	311.5	61.94	-0.026
5/20/2007	16:05:53	312	61.91	-0.025
5/20/2007	16:05:54	312.5	61.91	-0.025
5/20/2007	16:05:54	313	61.91	-0.027
5/20/2007	16:05:55	313.5	61.91	-0.025
5/20/2007	16:05:55	314	61.91	-0.025
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5/20/2007	16:05:56	315	61.94	-0.024
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5/20/2007	16:05:57	316	61.91	-0.025
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5/20/2007	16:06:00	319	61.94	-0.024
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5/20/2007	16:06:01	320	61.91	-0.025
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5/20/2007	16:06:02	321	61.91	-0.025
5/20/2007	16:06:03	321.5	61.91	-0.025
5/20/2007	16:06:03	322	61.91	-0.025
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5/20/2007	16:06:04	323	61.91	-0.025
5/20/2007	16:06:05	323.5	61.94	-0.024
5/20/2007	16:06:05	324	61.94	-0.024
5/20/2007	16:06:06	324.5	61.91	-0.025
5/20/2007	16:06:06	325	61.91	-0.025
5/20/2007	16:06:07	325.5	61.91	-0.025
5/20/2007	16:06:07	326	61.94	-0.024
5/20/2007	16:06:08	326.5	61.91	-0.025
5/20/2007	16:06:08	327	61.91	-0.023
5/20/2007	16:06:09	327.5	61.91	-0.025
5/20/2007	16:06:09	328	61.91	-0.025
5/20/2007	16:06:10	328.5	61.91	-0.025
5/20/2007	16:06:10	329	61.91	-0.025
5/20/2007	16:06:11	329.5	61.91	-0.025
5/20/2007	16:06:11	330	61.91	-0.025
5/20/2007	16:06:12	330.5	61.91	-0.025
5/20/2007	16:06:12	331	61.91	-0.023
5/20/2007	16:06:13	331.5	61.91	-0.025
5/20/2007	16:06:13	332	61.91	-0.023
5/20/2007	16:06:14	332.5	61.91	-0.023
5/20/2007	16:06:14	333	61.94	-0.024
5/20/2007	16:06:15	333.5	61.91	-0.023
5/20/2007	16:06:15	334	61.91	-0.023
5/20/2007	16:06:16	334.5	61.91	-0.023
5/20/2007	16:06:16	335	61.91	-0.023
5/20/2007	16:06:17	335.5	61.91	-0.023
5/20/2007	16:06:17	336	61.91	-0.025
5/20/2007	16:06:18	336.5	61.94	-0.024
5/20/2007	16:06:18	337	61.91	-0.025
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5/20/2007	16:06:19	338	61.91	-0.025
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5/20/2007	16:06:20	339	61.91	-0.025
5/20/2007	16:06:21	339.5	61.91	-0.025
5/20/2007	16:06:21	340	61.91	-0.025
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5/20/2007	16:06:22	341	61.91	-0.023
5/20/2007	16:06:23	341.5	61.91	-0.023
5/20/2007	16:06:23	342	61.91	-0.023
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5/20/2007	16:06:25	344	61.91	-0.025
5/20/2007	16:06:26	344.5	61.91	-0.023
5/20/2007	16:06:26	345	61.91	-0.025
5/20/2007	16:06:27	345.5	61.91	-0.023
5/20/2007	16:06:27	346	61.91	-0.025
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5/20/2007	16:06:30	349	61.91	-0.023
5/20/2007	16:06:31	349.5	61.91	-0.025
5/20/2007	16:06:31	350	61.91	-0.025
5/20/2007	16:06:32	350.5	61.91	-0.025
5/20/2007	16:06:32	351	61.91	-0.025
5/20/2007	16:06:33	351.5	61.91	-0.023
5/20/2007	16:06:33	352	61.91	-0.025
5/20/2007	16:06:34	352.5	61.91	-0.025
5/20/2007	16:06:34	353	61.91	-0.025
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5/20/2007	16:06:35	354	61.91	-0.025
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5/20/2007	16:06:36	355	61.91	-0.025
5/20/2007	16:06:37	355.5	61.91	-0.025
5/20/2007	16:06:37	356	61.91	-0.023
5/20/2007	16:06:38	356.5	61.91	-0.025
5/20/2007	16:06:38	357	61.91	-0.025
5/20/2007	16:06:39	357.5	61.91	-0.025
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5/20/2007	16:06:40	359	61.91	-0.025
5/20/2007	16:06:41	359.5	61.91	-0.025
5/20/2007	16:06:41	360	61.91	-0.023
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5/20/2007	16:06:42	361	61.91	-0.023
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5/20/2007	16:06:43	362	61.91	-0.023
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5/20/2007	16:06:44	363	61.91	-0.023
5/20/2007	16:06:45	363.5	61.91	-0.023
5/20/2007	16:06:45	364	61.91	-0.023
5/20/2007	16:06:46	364.5	61.91	-0.025
5/20/2007	16:06:46	365	61.91	-0.023
5/20/2007	16:06:47	365.5	61.91	-0.025
5/20/2007	16:06:47	366	61.91	-0.023
5/20/2007	16:06:48	366.5	61.91	-0.023
5/20/2007	16:06:48	367	61.91	-0.023
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5/20/2007	16:06:49	368	61.91	-0.023
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5/20/2007	16:06:51	370	61.91	-0.023
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5/20/2007	16:06:52	371	61.91	-0.023
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5/20/2007	16:06:53	372	61.91	-0.025
5/20/2007	16:06:54	372.5	61.91	-0.023
5/20/2007	16:06:54	373	61.91	-0.023
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5/20/2007	16:06:55	374	61.91	-0.023
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5/20/2007	16:06:59	378	61.91	-0.023
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5/20/2007	16:07:00	379	61.91	-0.023
5/20/2007	16:07:01	379.5	61.91	-0.023
5/20/2007	16:07:01	380	61.91	-0.023
5/20/2007	16:07:02	380.5	61.91	-0.023
5/20/2007	16:07:02	381	61.91	-0.023
5/20/2007	16:07:03	381.5	61.91	-0.023
5/20/2007	16:07:03	382	61.91	-0.023
5/20/2007	16:07:04	382.5	61.91	-0.025
5/20/2007	16:07:04	383	61.91	-0.023
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5/20/2007	16:07:05	384	61.91	-0.023
5/20/2007	16:07:06	384.5	61.91	-0.025
5/20/2007	16:07:06	385	61.91	-0.023
5/20/2007	16:07:07	385.5	61.91	-0.023
5/20/2007	16:07:07	386	61.91	-0.025
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5/20/2007	16:07:08	387	61.91	-0.025
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5/20/2007	16:07:10	389	61.91	-0.025
5/20/2007	16:07:11	389.5	61.91	-0.025
5/20/2007	16:07:11	390	61.91	-0.023
5/20/2007	16:07:12	390.5	61.91	-0.025
5/20/2007	16:07:12	391	61.91	-0.025
5/20/2007	16:07:13	391.5	61.91	-0.023
5/20/2007	16:07:13	392	61.91	-0.023
5/20/2007	16:07:14	392.5	61.91	-0.025
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5/20/2007	16:07:15	394	61.91	-0.025
5/20/2007	16:07:16	394.5	61.91	-0.023

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5/20/2007	16:07:17	396	61.91	-0.023
5/20/2007	16:07:18	396.5	61.91	-0.023
5/20/2007	16:07:18	397	61.91	-0.023
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5/20/2007	16:07:19	398	61.91	-0.025
5/20/2007	16:07:20	398.5	61.91	-0.025
5/20/2007	16:07:20	399	61.91	-0.023
5/20/2007	16:07:21	399.5	61.91	-0.023
5/20/2007	16:07:21	400	61.91	-0.025
5/20/2007	16:07:22	400.5	61.91	-0.025
5/20/2007	16:07:22	401	61.91	-0.023
5/20/2007	16:07:23	401.5	61.91	-0.023
5/20/2007	16:07:23	402	61.91	-0.023
5/20/2007	16:07:24	402.5	61.91	-0.025
5/20/2007	16:07:24	403	61.91	-0.025
5/20/2007	16:07:25	403.5	61.91	-0.025
5/20/2007	16:07:25	404	61.91	-0.023
5/20/2007	16:07:26	404.5	61.91	-0.025
5/20/2007	16:07:26	405	61.91	-0.023
5/20/2007	16:07:27	405.5	61.91	-0.025
5/20/2007	16:07:27	406	61.91	-0.023
5/20/2007	16:07:28	406.5	61.91	-0.025
5/20/2007	16:07:28	407	61.91	-0.023
5/20/2007	16:07:29	407.5	61.91	-0.023
5/20/2007	16:07:29	408	61.91	-0.023
5/20/2007	16:07:30	408.5	61.91	-0.023
5/20/2007	16:07:30	409	61.91	-0.023
5/20/2007	16:07:31	409.5	61.91	-0.023
5/20/2007	16:07:31	410	61.91	-0.023
5/20/2007	16:07:32	410.5	61.91	-0.023
5/20/2007	16:07:32	411	61.91	-0.023
5/20/2007	16:07:33	411.5	61.91	-0.023
5/20/2007	16:07:33	412	61.91	-0.023
5/20/2007	16:07:34	412.5	61.91	-0.023
5/20/2007	16:07:34	413	61.91	-0.023
5/20/2007	16:07:35	413.5	61.91	-0.023
5/20/2007	16:07:35	414	61.91	-0.023
5/20/2007	16:07:36	414.5	61.91	-0.023
5/20/2007	16:07:36	415	61.91	-0.025
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5/20/2007	16:07:40	418.5	61.91	-0.023
5/20/2007	16:07:40	419	61.91	-0.023
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5/20/2007	16:07:41	420	61.91	-0.023
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5/20/2007	16:07:43	422	61.91	-0.023
5/20/2007	16:07:44	422.5	61.91	-0.025
5/20/2007	16:07:44	423	61.91	-0.023
5/20/2007	16:07:45	423.5	61.91	-0.023
5/20/2007	16:07:45	424	61.91	-0.023
5/20/2007	16:07:46	424.5	61.91	-0.023
5/20/2007	16:07:46	425	61.91	-0.023
5/20/2007	16:07:47	425.5	61.91	-0.023
5/20/2007	16:07:47	426	61.91	-0.023
5/20/2007	16:07:48	426.5	61.91	-0.023
5/20/2007	16:07:48	427	61.91	-0.021
5/20/2007	16:07:49	427.5	61.91	-0.023
5/20/2007	16:07:49	428	61.91	-0.023
5/20/2007	16:07:50	428.5	61.91	-0.023
5/20/2007	16:07:50	429	61.91	-0.023
5/20/2007	16:07:51	429.5	61.91	-0.023
5/20/2007	16:07:51	430	61.91	-0.023
5/20/2007	16:07:52	430.5	61.91	-0.021
5/20/2007	16:07:52	431	61.91	-0.021
5/20/2007	16:07:53	431.5	61.91	-0.021
5/20/2007	16:07:53	432	61.91	-0.023
5/20/2007	16:07:54	432.5	61.91	-0.021
5/20/2007	16:07:54	433	61.91	-0.021
5/20/2007	16:07:55	433.5	61.91	-0.021
5/20/2007	16:07:55	434	61.91	-0.021
5/20/2007	16:07:56	434.5	61.91	-0.021
5/20/2007	16:07:56	435	61.91	-0.021
5/20/2007	16:07:57	435.5	61.91	-0.023
5/20/2007	16:07:57	436	61.91	-0.021
5/20/2007	16:07:58	436.5	61.91	-0.023
5/20/2007	16:07:58	437	61.91	-0.023
5/20/2007	16:07:59	437.5	61.91	-0.023
5/20/2007	16:07:59	438	61.91	-0.021
5/20/2007	16:08:00	438.5	61.91	-0.023

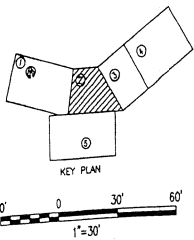
APPENDIX H

Excavation Endpoint Sampling Analytical Results (related to spill #88-01587)

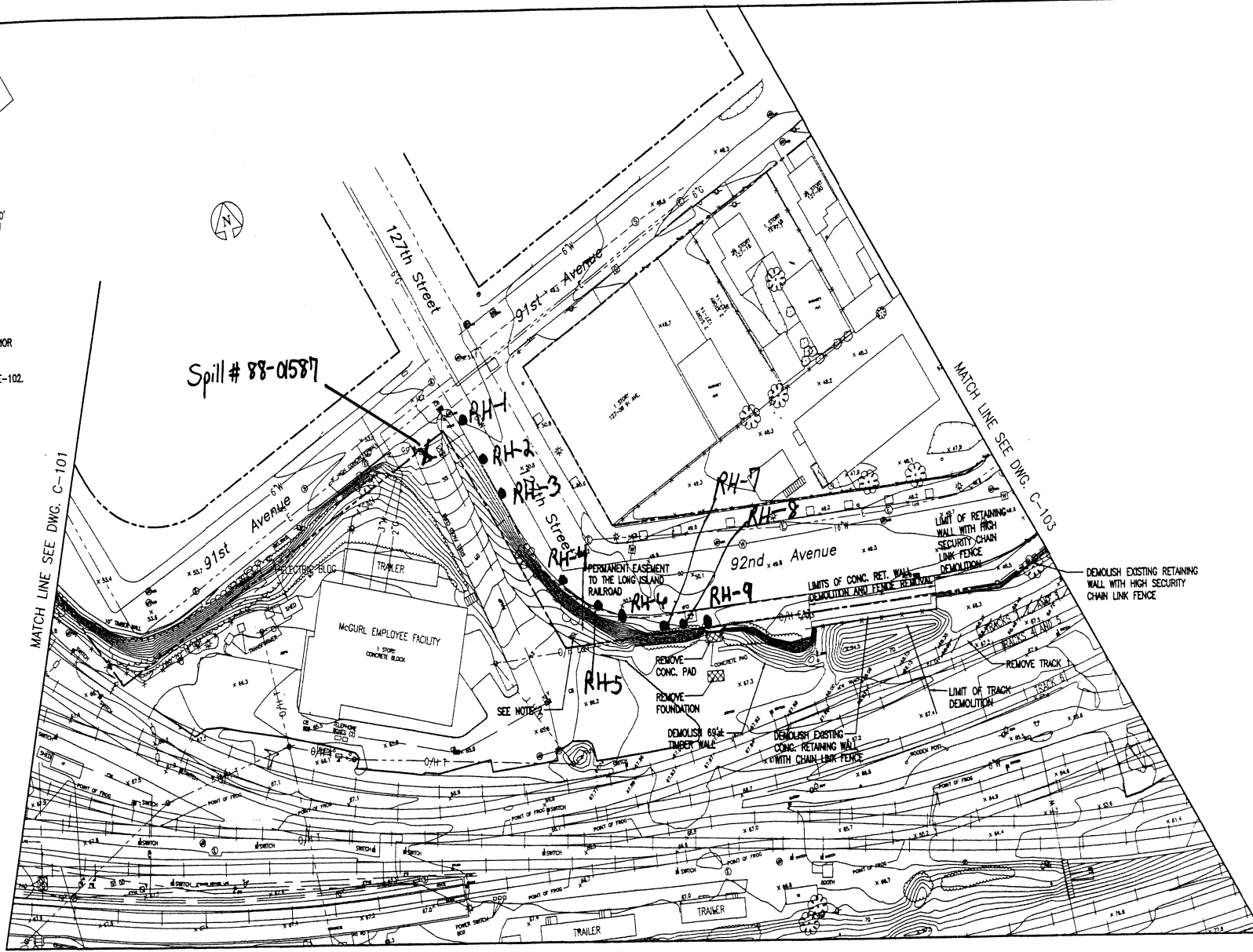
Richmond Hill Soil Sampling (Spill #88-01587)

Nine soil samples, RH-1 through RH-9, were collected from the excavation for the new wall at Richmond Hill on April 20, 2006. The locations of the samples can be found on the attached figure along with the approximate location of Spill #88-01587. Soil samples were collected from two to three feet below ground surface. The samples were submitted for laboratory analysis of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) by Method 8260 and Method 8270, respectively. The results can be found in Tables 1 and 2.

VOCs were detected in only one sample, RH-7, at concentrations below the Soil Cleanup Criteria. Although, SVOCs were detected in several samples (RH-1, RH-2, and RH-4), only one sample, RH-1, had concentrations of SVOCs detected above the Soil Cleanup Criteria.



NOTES:
 TRACK REMOVAL TO BE COORDINATED WITH TRACK, W/E & TRANSPORTATION DEPTS. PRIOR TO START OF WORK.
 FOR UTILITY POLE DEMOLITION, SEE DWG. E-102.
 FOR DEMOLITION OF THE RETAINING WALL, SEE STRUCTURAL DRAWINGS.



MATCH LINE SEE DWG. C-101

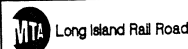
MATCH LINE SEE DWG. C-103

MATCH LINE SEE DWG. C-105

DESIGNED SS
 DRAWN LS



STV Incorporated
 225 Park Avenue South
 New York, New York 10003



RICHMOND HILL/MORRIS PARK IMPROVEMENTS
 RICHMOND HILL/ADVANCE YARD

CONTRACT NO. 5939-A
 SCALE: 1"=30'
 DATE: 12/17/04
 DRAWING NO. C-100

Table 1
Soil Analytical Results
Volatile Organic Compounds

Sample	RH-1	RH-2	RH-3	RH-4	RH-5	RH-6	RH-7	RH-8	RH-9
Volatile Organic Compounds (ug/Kg)									
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	25	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	13	ND	ND
1,2,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
p&m-Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND - Not Detected or detected below the Method Detection Limit (MDL)

APPENDIX I

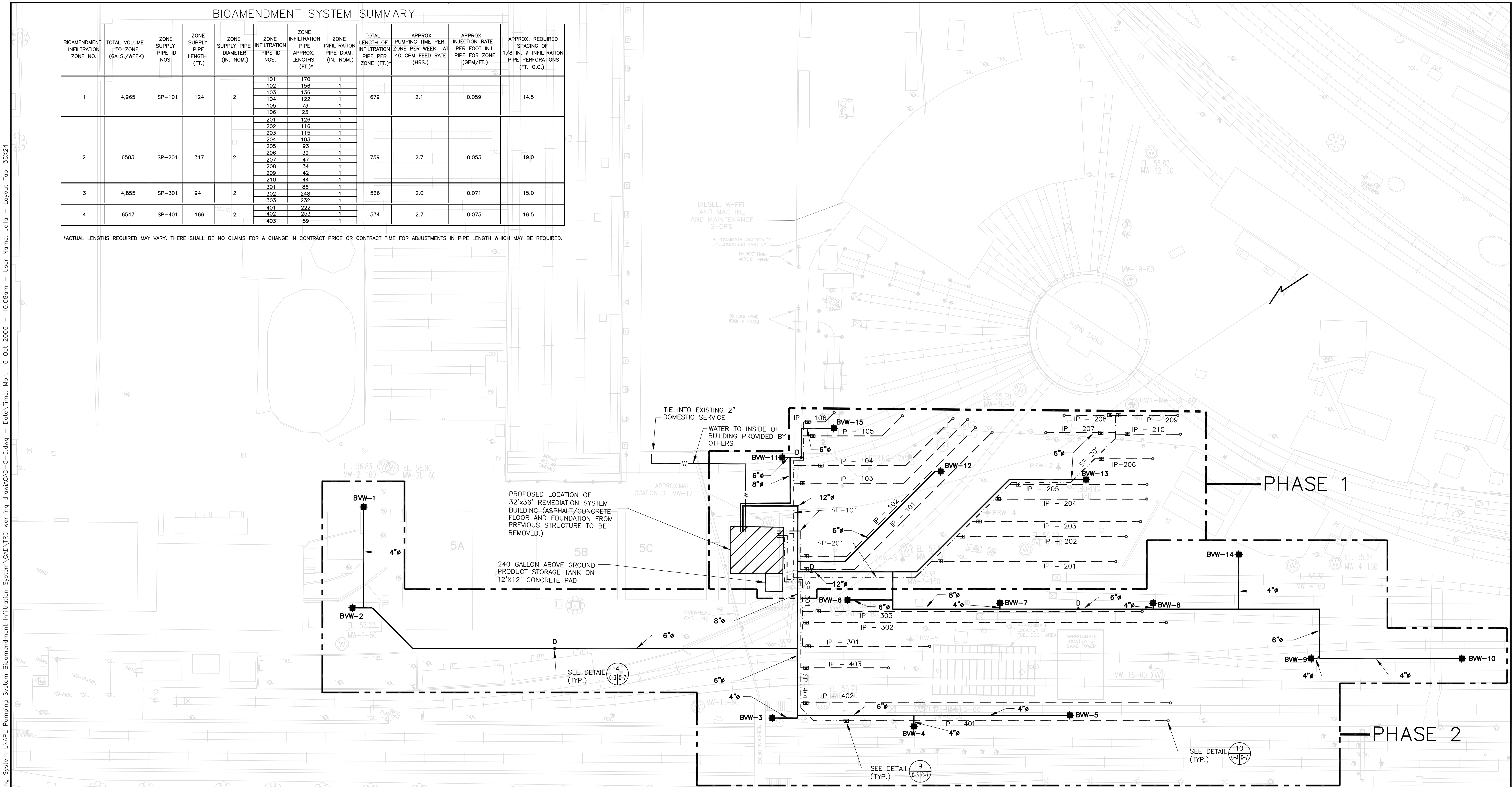
**Bioventing System, Bioamendment Infiltration System, and Product Recovery System
Drawings**

BIOAMENDMENT SYSTEM SUMMARY

BIOAMENDMENT INFILTRATION ZONE NO.	TOTAL VOLUME TO ZONE (GALS./WEEK)	ZONE SUPPLY PIPE ID NOS.	ZONE SUPPLY PIPE LENGTH (FT.)	ZONE SUPPLY PIPE DIAMETER (IN. NOM.)	ZONE INFILTRATION PIPE ID NOS.	ZONE INFILTRATION PIPE APPROX. LENGTHS (FT.)*	ZONE INFILTRATION PIPE DIAM. (IN. NOM.)	TOTAL LENGTH OF INFILTRATION PIPE PER ZONE (FT.)*	APPROX. PUMPING TIME PER ZONE PER WEEK AT 40 GPM FEED RATE (HRS.)	APPROX. INJECTION RATE PER FOOT INJ. PIPE FOR ZONE (GPM/FT.)	APPROX. REQUIRED SPACING OF 1/8 IN. Ø INFILTRATION PIPE PERFORATIONS (FT. O.C.)
1	4,965	SP-101	124	2	101	170	1	679	2.1	0.059	14.5
					102	156	1				
					103	136	1				
					104	122	1				
					105	73	1				
					106	23	1				
2	6583	SP-201	317	2	201	126	1	759	2.7	0.053	19.0
					202	116	1				
					203	115	1				
					204	103	1				
					205	93	1				
					206	39	1				
					207	47	1				
					208	34	1				
					209	42	1				
					210	44	1				
					301	86	1				
3	4,855	SP-301	94	2	302	248	1	566	2.0	0.071	15.0
					303	232	1				
					401	222	1				
4	6547	SP-401	166	2	402	253	1	534	2.7	0.075	16.5
					403	59	1				

*ACTUAL LENGTHS REQUIRED MAY VARY. THERE SHALL BE NO CLAIMS FOR A CHANGE IN CONTRACT PRICE OR CONTRACT TIME FOR ADJUSTMENTS IN PIPE LENGTH WHICH MAY BE REQUIRED.

PathName: I:\Projects\38090 - LIRR Morris Pk Yd Bioventing System LNAPI Pumping System Bioamendment Infiltration System\CAD\TRC working draw\CAD-C-3.dwg - Date\Time: Mon, 16 Oct 2006 - 10:08am - User Name: Jella - Layout Tab: 36X24



- NOTES:
- 1) THE CONTRACTOR SHALL SEGMENT THE WORK INTO THE TWO PHASES SHOWN. EACH PHASE MUST BE SUBSTANTIALLY COMPLETED AS DETERMINED BY THE LIRR BEFORE THE START OF THE NEXT PHASE. THE ORDER OF THE PHASING MAY BE DETERMINED BY THE CONTRACTOR.
 - 2) THE CONTRACTOR MAY ONLY WORK ON ONE HUNDRED FEET OF TRENCH AND ONE TRENCH AT ANY TIME. NO MORE THAN TWO TRACKS CAN BE TAKEN OUT-OF-SERVICE AT ONE TIME AND ALL TRACKS MUST BE RETURNED TO SERVICE BY END OF EACH WORK DAY.
 - 3) THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF BRUSH AND DEBRIS AS NECESSARY TO IMPLEMENT CONSTRUCTION OF REMEDIATION SYSTEM.
 - 4) THE WORK AREA SHALL BE MADE SAFE FOR TRAIN, VEHICULAR, AND PEDESTRIAN TRAFFIC AT THE END OF EACH WORK DAY.
 - 5) SPECIAL ATTENTION SHALL BE MADE TO LIMIT DOWN TIME OF FUEL DOCK AREA.
 - 6) ALL TRACK OUTAGES MUST BE COORDINATED WITH THE RAILROAD WITH A MINIMUM OF TWO WEEKS NOTICE GIVEN TO THE RAILROAD.
 - 7) THE LIRR WILL INSTALL A DISCONNECT SWITCH WITH POWER FEED TO THE EXISTING POLE EAST OF THE PROPOSED REMEDIATION SYSTEM BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION FROM THE LOAD SIDE OF THE DISCONNECT SWITCH TO THE POWER DISTRIBUTION SYSTEM IN THE ELECTRICAL ROOM.

- 8) THE LOCATIONS OF THE UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.
- 9) TELEPHONE SERVICE SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED FOR AUTODIALER, REMOTE MONITORING OF PLC AND SPARE AS SPECIFIED.
- 10) THE LIRR WILL PROVIDE MAIN POWER AND A 2" DOMESTIC WATER CONNECTION.
- 11) EXISTING SECTION OF JERSEY BARRIER WITH FENCE LOCATED ADJACENT TO THE EASTERN WALL OF REMEDIATION SYSTEM BUILDING SHALL BE DISASSEMBLED AND STORED ON-SITE AT A LOCATION DESIGNATED BY LIRR.
- 12) EXISTING SECTION OF JERSEY BARRIER WITH FENCE LOCATED ADJACENT TO THE EASTERN WALL OF REMEDIATION SYSTEM BUILDING SHALL BE DISASSEMBLED AND STORED ON-SITE AT A LOCATION DESIGNATED BY LIRR.
- 13) ALL PIPING BENEATH RAILROAD TRACK SHALL BE IN ACCORDANCE WITH DETAIL (C-3) [C-7].

LEGEND

- BIOAMENDMENT INFILTRATION LINE CONTROL VALVE
- BIOAMENDMENT INFILTRATION LINE PRESSURE MONITORING STATION
- BIOVENTING SYSTEM HEADER DRAINING SUMP
- SP-301 UNDERGROUND BIOAMENDMENT SUPPLY PIPING (SOLID 2" SDR-11 HDPE) AND IDENTIFICATION NO.
- IP-202 UNDERGROUND BIOAMENDMENT INFILTRATION PIPING (PERFORATED 1" SDR-11 HDPE) AND IDENTIFICATION NO.
- UNDERGROUND BIOVENTING PIPING (SIZE AS SHOWN)(SCHD 40 PVC)
- WATER SUPPLY LINE
- BIOVENTING WELL

EXTERNAL DRAWING REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD			
NUMBER	DATE	REVISIONS	APPROVED
FINAL ISSUE NO. 1	10-14-06	REMEDATION DESIGN	

TRC
Customer-Focused Solutions
1430 BROADWAY
NEW YORK, NY 10018
(212) 221-7822

MTA LONG ISLAND RAIL ROAD
MORRIS PARK YARD
QUEENS, NEW YORK

**BIOVENTING SYSTEM AND
BIOAMENDMENT INFILTRATION SYSTEM
PIPING PLAN**

DESIGN: SWL,BAK 11/09/00
DRAWN: KDH 12/28/04
CHECKED: SM,RR 10/16/06

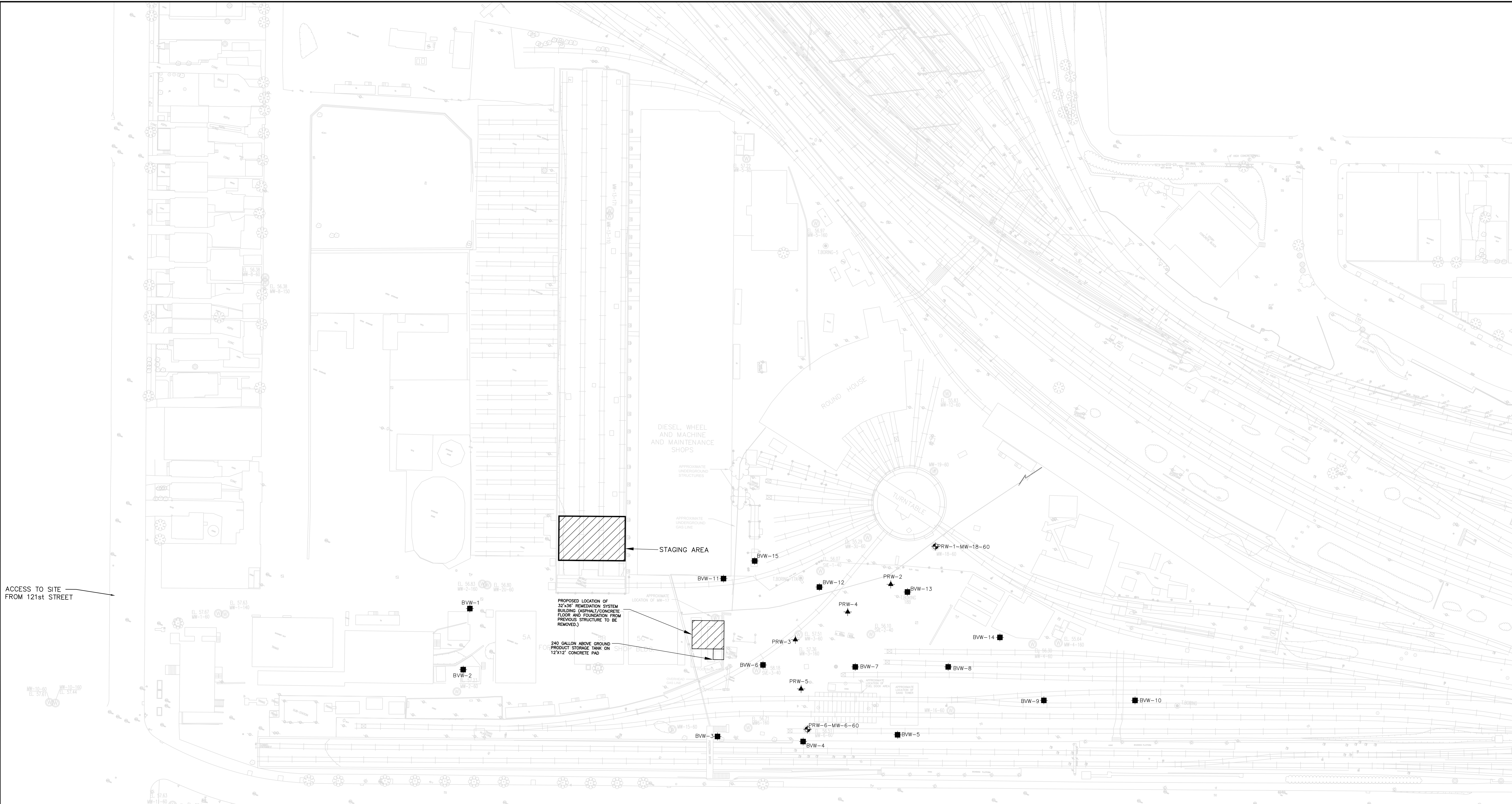
SHEET 4 OF 19
SCALE: AS SHOWN

STEVEN D. MEERSMA, P.E.
NY PE # 076572

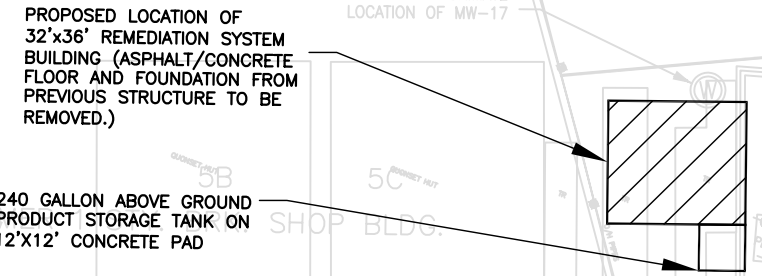
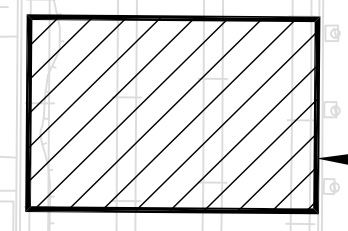
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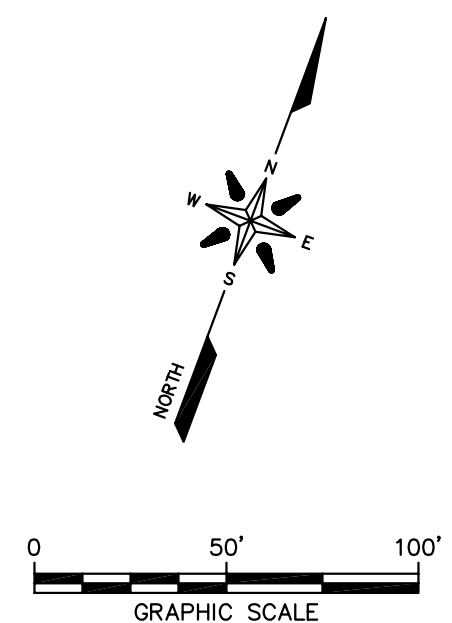
ACCESS TO SITE FROM 121st STREET



- NOTES:**
- 1) A 50 FOOT BY 75 FOOT AREA WITHIN THE FOOTPRINT OF THE FORMER ONE STORY BRICK SHOP BUILDING AREA WILL BE PROVIDED TO THE CONTRACTOR FOR OFFICE TRAILER LOCATION AND TEMPORARY MATERIALS STORAGE. AREA SHALL BE KNOWN AS THE STAGING AREA LOCATED IN THE EAST TRANSFER PIT.
 - 2) CONTRACTOR SHALL REMOVE RAIL, RELOCATE TRAIN TRANSFER PLATFORM, CONSTRUCT RAMP AND MAKE OTHER IMPROVEMENTS TO PROVIDE A SAFE STAGING AREA.
 - 3) THE CONTRACTOR MUST PROCEED CAUTIOUSLY WITH ALL EXCAVATING WORK IN ALL AREAS THROUGHOUT THE YARD.
 - 4) PROTECT EXISTING MONITORING WELLS AND UTILITIES FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.

- 5) UNDERGROUND CONCRETE STRUCTURES, TRACK AND MISCELLANEOUS DEBRIS ARE LOCATED THROUGHOUT THE YARD. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL, AND DISPOSAL OF SUCH MATERIAL. THE CONTRACTOR SHALL NOTIFY THE RAILROAD OF ALL DEBRIS ENCOUNTERED.
- 6) PIPE LOCATIONS MAY BE ADJUSTED TO AVOID EXISTING UTILITIES WITH PRIOR RAILROAD APPROVAL.
- 7) THE LOCATIONS OF THE UNDERGROUND STRUCTURES AND UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR.

- LEGEND**
- ◊ EXISTING MONITORING WELL TO BE USED FOR PRODUCT RECOVERY
 - ▲ NEW PRODUCT RECOVERY WELL
 - NEW BIOVENTING WELL



EXTERNAL DRAWING REFERENCE: BASEMAP SURVEY PROVIDED BY MTA LONG ISLAND RAIL ROAD			
NUMBER	DATE	REVISIONS	APPROVED
FINAL ISSUE NO. 1	10-14-06	REMEDATION DESIGN	
TRC Customer-Focused Solutions 1430 BROADWAY NEW YORK, NY 10018 (212) 221-7822		MTA LONG ISLAND RAIL ROAD MORRIS PARK YARD QUEENS, NEW YORK	
EXISTING AND PROPOSED PRODUCT RECOVERY WELLS AND PROPOSED BIOVENTING POINTS			
STEVEN D. MEERSMA, P.E. NY PE # 076572 DATE:		DESIGN: SWL,BAK 11/09/00 DRAWN: KDH 12/28/04 CHECKED: SM,RR 10/16/06	SHEET 3 OF 19 SCALE: AS SHOWN
			C-2