APPENDIX D

Final Report: FFY 2001 MTBE Grant – Objective 5

Purpose & Background:

The purpose of this objective was to determine the source and cause of methyl-tertiary-butyl-ether (MTBE) releases at petroleum bulk storage (PBS) facilities on Long Island. The original scope of work involved conducting a one-year study at selected confirmed release sites and a study at pre-release sites in conjunction with the pilot project's initiative of investigating potential sources of MTBE contamination that could impact water supplies or environmentally sensitive areas (Objective 2). The study was to focus only on incidents reported to the NYSDEC Spill Hotline within a one-year period for releases that met the following criteria:

- material spilled = diesel; fuel oil (#2, #4, #6); gasoline; jet fuel; kerosene; other; unknown
- cause = equipment failure; tank test failure; tank failure; tank overfill; other; unknown

Conceptual Implementation:

Data collection was to utilize a three-part Release Investigation Form (refer to Appendix C) that incorporated data elements from a Florida DEP release investigation document. The draft form was field-tested at various facilities (service stations, distributors, etc.) during a NYSDEC Region 1 program review in January 2002. From then it underwent several revisions to account for Department staff comments. The form was comprised of three key data elements. Part A included System Information, i.e., the tank system equipment found at the facility. Part B included Operational Information, i.e, functionality of the tank systems at the facility. Part C included Release Information, i.e., quantity spilled, affected resources, discovery method, and source & cause of discharge.

A study of historical data in the Spills database yielded a projection of 500 - 600 releases in a one-year period that would meet the above-mentioned criteria. The initial goal of the study was to investigate those releases soon after they were reported to the Spill Hotline and attempt to determine their source and cause. It was thought that this part of the study could potentially uncover the various failure points and modes of tank system equipment. The other part of the study would evaluate the compliance picture at the 60 sites from Objective 2. It was thought that equipment and/or operational failures of those tank systems could potentially correlate to any MTBE releases from those same sites. Actual implementation of the two-part study was, for a variety of reasons, very different than had originally been conceptualized. These aspects are discussed below.

Data Collection – Challenges & Realities:

There were a number of obstacles to obtaining the type of data that would allow this type of study to be conducted as it was originally designed. The following details these obstacles:

- When staff arrived at a site to investigate an incident that had been reported to the Spill Hotline, many times equipment had already been repaired. This effectively eliminated evidence that could have led to determination of release source and cause.
- Tank systems that were known to be leaking were usually always excavated with heavy equipment. This was usually done by the owner/operator before any type of causal determination could be made.
- This study was conducted in Long Island; the PBS program there is delegated to local county agencies. Therefore, tank system information was not always readily available and sometimes not accurate.
- Many inspections were unannounced, and so knowledgeable personnel were not always available on-site. As much of a detriment as that was, in many of the cases where follow-up inspections were conducted, supposedly competent facility personnel were found to be unaware of tank system operating knowledge, let alone knowledge of regulatory requirements.

These factors resulted in large "holes" in the data, so the scope of this study had to be changed. The following details what was actually done and what was learned from this effort.

Actual Implementation:

Step 1:

Four teams, each comprised of 3 - 4 program staff, conducted 60 inspections at gas stations from December 2003 to January 2004. The gas station locations were chosen based on their proximity to public supply wells in conjunction with Objective 2 of the MTBE Pilot Project. Staff used the Release Investigation Form that had been developed by Central Office for use in this initiative.

Step 2:

Spills staff conducted 70 individual inspections at gas stations from March 2003 to June 2004. The locations of these inspections were chosen based on spills that were reported to the Regional Office. Staff utilized the Release Investigation Form developed for Step 1 of this initiative to conduct the inspections. Additionally, Regional staff developed a second form that was used to refer violations to the appropriate Delegated County agency for follow-up and enforcement.

Step 3:

Based on the Hampton Bays spill investigation, and other similar spill investigations (refer to Appendices A & B), as well as concerns raised by the inspections conducted in Steps 1 and 2 above, Regional staff conducted two targeted inspection sweeps (Suffolk County – 15 gas stations; Nassau County – 16 gas stations) during January - May of 2005. The Delegated County referral form, developed for Step 2 of the initiative, was used to document violations found during this phase of the initiative. Violations were also referred to the appropriate Delegated County agency for follow-up and enforcement.

Field Observations:

Many common issues were discovered during the implementation of both Steps 1 & 2:

- Gas station operators were not keeping proper product inventory records.
- Gas station operators with single-walled tanks for gasoline storage were not performing any leak detection at their facilities.
- Fill port spill buckets were not being maintained. It was common to find product, water, dirt and debris in the spill buckets. Due to this factor, on those occasions that staff encountered empty spill buckets, they were suspected to not have integrity.
- Reported leaks or spills at the stations were generally repaired or cleaned up prior to staff arriving on-site. This hindered the ability of staff to fully analyze the severity of the spill.
- Often, leak detection devices were deactivated or not properly maintained. Although a spill was not found, if one were to occur, there would be no mechanism to alert the operator.
- Leaks or weeping fittings were commonly found in dispensers. Product was contained at sites where dispenser pans were present. Where dispenser pans were not present, spills were not contained and evidence that these spills occurred at the site was not easily recognized. Based on the number of leaking fittings found during the inspections, it is evident that repairs are routinely conducted and spills are not reported.
- Automatic line leak detectors were found to leak themselves, specifically at fittings where they were connected to submersible turbine pumps. Product was contained at sites where containment sumps were present. Where containment sumps were not present, spills were not contained and evidence that these spills occurred at the site were not easily recognized. Based on the number of leaking fittings found during the inspections, it is evident that repairs are routinely conducted and spills are not reported.
- Stations installed prior to 1986 on Long Island generally have single-walled fiberglass tanks. Where the piping was not fiberglass, the installations do not comply with the Federal requirements for cathodic protection of steel piping and other metal components.
- Many stations with single-walled piping did not meet the Federal requirement for piping leak detection. While automatic line leak detectors were usually present, a second form of leak detection did not always exist.

Conclusions:

Although no conclusions could be reached based on quantitative data, the preceding anecdotal observations were able to be made. These observations led to the conclusion by Regional staff that there is an overall lack of compliance with State and Federal regulations. Since November 2004, staff have conducted an additional 190 inspections and brought enforcement against 151 of them. These inspections and subsequent enforcement have resulted in an increase in compliance, specifically with maintenance of spill prevention equipment (i.e., leak detectors, high level alarms, etc.), maintenance of fill port spill buckets and proper conduction of inventory reconciliation.

The inspections have increased awareness of the regulations to the regulated community and

have prompted the Department to conduct seminars on compliance requirements.

Unfortunately, there has not been an increase in spill reporting by owner/operators. This seems to indicate to field staff that leaks in dispensers have occurred, specifically those without dispenser pans. This poses a problem with regard to the prevention of spills that impact the environment. Staff feel that there is a need for a change in the regulations to include a requirement for dispenser pans. Because there is also evidence that retrofitted fill port spill buckets leak, staff feel that regulations should also specify a combined fill port/tank top sump with a leak monitor.

When conducting a quantitative study of this type and magnitude, it is important to keep in mind the following items:

1. Completely define the questions trying to be answered, i.e., which tank system components fail and why.
2. Completely define the types of data needed to answer the questions. This will most likely involve such tools as a thorough records review, complete inspection of system components (while the system is operating), and careful excavation of suspected failed system components. When excavating, it is very important to not use heavy equipment (e.g., backhoes and jackhammers) that could potentially eliminate evidence of leaks.
3. Gather complete and reliable data by developing detailed inspection protocols.
4. Review data quality to determine if it is adequate to answer the questions asked by the study.
5. Analyze and report on the data.

The study undertaken in Objective 5 of the 2001 MTBE Grant attempted to follow the above formula. Some steps were able to be followed while others, for various reasons, were not (refer to section on data collection). The most difficult aspect for anyone endeavoring to conduct a similar study would most likely be the excavation aspect of step 3. However, if one is able to dedicate the necessarily considerable time and resources to such a study, it should be possible to quantitatively determine which components of tank systems leak and why.

Appendix A

Case Study #1: Bays Auto Repair
192 West Montauk Highway, Hampton Bays, NY

Discovery:

In February 2002, the NYSDEC directed one of its standby contractors to investigate the full nature and extent of MTBE associated with the detection of 54,000 μg/L of MTBE in a well installed and sampled by the Suffolk County Department of Health Services (SCDHS). The SCDHS well, located at the intersection of Bay Avenue and Spruce Street in Hampton Bays, was originally installed as a part of a pesticide impact-monitoring program.

Environmental Impact:

Utilizing expedited site characterization procedures, the contamination was traced 1000 feet back to the petroleum storage and distribution equipment at a privately owned gasoline retail station located at 192 West Montauk Highway, Hampton Bays, New York (Bays Auto Repair). A complete subsurface investigation revealed that approximately 3000 gallons of oxygenated gasoline leaked from the station over an approximately 7-year period. The gasoline release resulted in a plume of contaminated groundwater, which has been defined with a three dimensional monitoring network to be approximately 2800 feet long with a maximum width of 150 feet and a maximum thickness of 25 feet. The contaminant plume is comprised primarily of the dissolved fuel oxygenates MTBE, tertiary-butyl-alcohol (TBA), tertiary-amyl-methyl-ether (TAME), and tertiary-amyl-alcohol (TAA) in combined concentrations exceeding 60 mg/L. The plume of contaminated ground water was found to be discharging to the saline surface water of Tiana Bay with a combined fuel oxygenate mass flux exceeding one pound per day.

PBS Inspections & Examination:

Two inspections (February 6, 2002 and October 16, 2003) and additional examinations (August 20 - 21, 2002) of the petroleum storage and dispensing equipment (PBS equipment) located at Bays Auto Repair were undertaken. The inspections and examinations revealed the following:

- The PBS equipment consisted of three 8000-gallon single-walled fiberglass underground storage tanks (USTs);
- The USTs shared a manifolded vent line;
- Two USTs containing regular-grade unleaded gasoline were manifolded together;
- Two Red Jacket submersible pumps with piston leak detectors supplied three blending dispensers at a single dispenser island through single-walled fiberglass piping;
- Secondary containment was present at the fill ports and under the dispensers;
- No inventory records were kept;
- Product was found in the U-tube;
- 3.6 inches of product was found in a tank-bed monitoring well;
- A jumper wire was found installed in the pump electrical panel which bypassed the automatic controls causing the submersible pump to run continuously (i.e., preventing the piston leak detector from performing its intended function).

PBS Testing:

The USTs and piping passed hydrostatic system tests. On August 21, 2002, the check valve, leak detection system and submersible pump was removed from the ultra-grade UST and the manifolded regular-grade unleaded USTs; excess product in the dispenser lines was forced back into the tanks in preparation for dispenser line pressure testing. One pressure gauge was installed on the eastern-most dispenser to gauge pressure in the ultra-grade gasoline lines and another pressure gauge was installed on the middle dispenser to gauge pressure in the regular-grade gasoline lines. Each set of lines was pressurized to 50 psi and monitored for pressure loss. The ultra-grade gasoline line lost 2 psi pressure within one hour. An O-ring on the ultra-grade gasoline dispenser line was replaced and the test was administered again, bringing the pressure of the line back to 50 psi. During the course of the day the O-ring was replaced three times, and all three times the ultra-grade gasoline dispenser line failed the pressure test. During the final test, the dispenser line lost 4 psi within an hour. Hydrostatic testing of the fill port spill buckets revealed no leaks. On September 30, 2002, Crompco Corporation (Plymouth Meeting, PA) attempted to perform a hydrostatic test of the product lines. Crompco drained the gasoline from the lines, isolated the lines, and filled them with water. Over the course of the day numerous attempts were made to pressure test the lines; however, air bubbles could not be purged from the lines for each attempt and the tests were not completed.

PBS Enforcement:

On August 21, 2002, Bays Auto Repair was directed to stop all product-dispensing activities pending repair and re-testing of the product lines. On January 10, 2003, Bays Auto Repair was directed to empty the USTs immediately and submit plans to upgrade the PBS system with double-walled piping, piping sumps, dispenser sumps, leak detection alarm probes and panels and replacement of the tank pad mat by February 14, 2003, or remove the USTs within 90 days of declaring them abandoned. On May 25, 2003, Bays Auto pled guilty to the misdemeanor attempted failure to keep daily inventory records for the purpose of detecting leaks in an underground storage facility, in violation of 6 NYCRR Part 613.4 [ECL §71-1933.1], in Southampton Town Court.

Remedial Scope and Project Cost:

A 25-gpm groundwater extraction and treatment (air stripping and Bio-GAC) system, along with a combined soil vapor extraction/catox/air sparge system, was installed at the service station to address the on-site contamination and to prevent further off-site migration of dissolved contamination. A 65-gpm groundwater extraction and treatment (air stripping and Bio-GAC) system was installed immediately up-gradient of the impacted surface water body to prevent further discharge of contaminated groundwater to Tiana Bay. Total project costs to date are approximately $2.5 million.

Appendix B

Case Study #2: Getty Service Station 913 Portion Road, Ronkonkoma, NY

Discovery:

The NYSDEC performed a PBS inspection of the above-referenced service station on January 17, 2003, in association with the EPA MTBE Grant. Gasoline-contaminated soil was found in the regular-grade gasoline tank top sump, which resulted in the generation of a spill number. The contaminated soil was removed and no further work was required.

Subsequent to the inspection, groundwater sampling was performed in October 2003 in association with the EPA MTBE Grant. The results indicated that there had been a previous release of gasoline to the subsurface. The owner/operator admitted that a vehicle had come off a lift in the garage and struck a dispenser in June 2002. As noted in the initial PBS inspection, the shear valves on all the dispensers were not properly secured and therefore, the valves could not have automatically closed upon impact in accordance with 6 NYCRR Part 613.3 (c)(1). A complete subsurface investigation, including soil sampling, confirmed that the source of the release was from the dispenser that had been impacted.

PBS Inspections:

Three inspections of the petroleum storage and dispensing equipment were performed on January 17, 2003, March 28, 2003, and March 7, 2005. The tank system inventory records were also reviewed. The inspections yielded the following results:

- The PBS equipment consisted of one 10,000-gallon and two 12,000-gallon STIp3 (fiberglass-coated steel) USTs;
- Cathodic protection testing was not being performed on the USTs;
- The spill buckets for all three USTs contained product;
- The high-level alarm for the USTs was not functioning;
- Contaminated soil was discovered in the regular-grade tank top sump;
- The impact (shear) valves were not properly mounted under the dispensers;
- There was no secondary containment in the dispenser sumps;
- UST leak monitoring was not being performed;
- Inventory reconciliation records were not being maintained;
- One of the vent pipes was actively venting gasoline vapors to the atmosphere.

PBS Enforcement:

On March 9, 2005, the owners of the Getty station attended a compliance conference with NYSDEC Division of Environmental Enforcement staff. A civil penalty was assessed due to the above-referenced violations. An Order on Consent was signed with regards to remediating the noted violations within thirty days.

Environmental Impact:

NYSDEC directed one of its standby contractors to completely define the full nature and extent of the gasoline release. It was determined that the dissolved gasoline plume extended at least 800 feet off-site and was migrating toward a public drinking water supply well. The plume consisted primarily of the dissolved fuel oxygenates MTBE, TBA, and TAME in combined concentrations exceeding 200 mg/L.

Remedial Scope and Project Cost:

A soil vapor extraction and air sparge system was installed at the service station to address the on-site contamination. A 65-gpm groundwater extraction and treatment system (low-profile air stripper with Bio-GAC) has also been installed to prevent further migration of the contaminant plume and to prevent an impact to the public drinking water supply well immediately down-gradient. It is estimated that cleanup will be completed within four years. Total project costs to date are approximately $1 million.

New York State Department of Environmental Conservation
Petroleum Storage Tank Release Investigation Form

Site Information

Site Investigation No.	DEC Region	Investigator Name	Date Completed

Facility Address	Latitude / Longitude

Facility Type	Tank ID No.	DEC Spill No. (if applicable)	County Facility ID No. (if applicable)

Part A: System Information (at time of release, for those sites with one or multiple releases)

Tank

Tank Location
- ☐ Underground Storage Tank
- ☐ Aboveground Storage Tank
  - ☐ On-Grade
  - ☐ Raised
- ☐ Partially Buried Tank

Tank Installation Date:

Tank Capacity (gallons):

Product Stored:

NOTE: Indicate If Any of the Above Information is Unknown

Primary Construction
- ☐ Steel *
- ☐ Fiberglass
- ☐ Fiberglass-Clad Steel
- ☐ Jacketed
- ☐ Concrete
- ☐ Other (***Explain at end of form***)
- ☐ Unknown
- * Complete "Corrosion Protection" Section at Below-Right

Overfill Prevention
- ☐ Flow Shut-Off
- ☐ Level Gauges/High-Level Alarm
- ☐ Ball Check Valve
- ☐ Vent Whistle
- ☐ Other County-Approved Prevention Method (***Explain at end of form***)
- ☐ Aboveground – Not Required

Spill Prevention
- ☐ Spill Containment Bucket
- ☐ Other County-Approved Prevention Method (***Explain at end of form***)
- ☐ Not Applicable

Secondary Containment
- ☐ Double Wall
- ☐ Synthetic Liner in Tank Excavation
- ☐ Cutoff Walls
- ☐ Impermeable Barrier
- ☐ Vault
- ☐ Concrete; Synthetic Material; and/or Clays Beneath AST & in Containment Area
- ☐ Steel Dike

Corrosion Protection (Steel tank only)
- ☐ Sacrificial Anode
  - ☐ Original
  - ☐ Retrofitted
- ☐ Impressed Current
  - ☐ Original
  - ☐ Retrofitted
- ☐ None
- ☐ Not Required

Other Attributes (Check all that apply)
- ☐ Internal Lining
- ☐ Compartmented
- ☐ Manifolded
- ☐ Field-Erected Tank
- ☐ Aboveground – No Contact With Soil

Piping

Primary Construction
- ☐ Steel/Iron *
- ☐ Galvanized Steel *
- ☐ Fiberglass
- ☐ Flex Pipe
- ☐ Copper
- ☐ PVC
- ☐ Other (***Explain at end of form***)
- ☐ Unknown
- * Complete "Corrosion Protection" Section Below

Secondary Containment
- ☐ Double Wall
  - ☐ Single Material
  - ☐ Dual Material
- ☐ None
- ☐ Synthetic Liner or Box/Trench Liner in Piping Excavation or Pipe Containment Area
- ☐ Internal Piping – Contained Within an Internal Sump Riser; Directly Connected to Tank; Located Beneath Dispenser

Corrosion Protection (Steel/iron pipe only)
- ☐ Inside Non-Corrodible Outer Wall
- ☐ Sacrificial Anode
  - ☐ Original
  - ☐ Retrofitted
- ☐ Impressed Current
  - ☐ Original
  - ☐ Retrofitted
- ☐ None
- ☐ Not Required

Other Attributes (Check all that apply)
- ☐ Aboveground – No Contact With Soil
- ☐ Suction Piping
- ☐ Pressurized Piping
- ☐ Dispenser Liners – Secondary Containment Under Dispenser
- ☐ Bulk Product System
- ☐ Airport/Seaport Hydrant System

Monitoring (Leak Detection)

Tank Monitoring

External
- ☐ Interstitial Monitoring (liner)
- ☐ Groundwater Monitoring
- ☐ Vapor Monitoring
- ☐ Visual Inspection of ASTs
- ☐ U-Tubes
- ☐ Other (***Explain at endof form***)
- ☐ None

Internal
- ☐ Interstitial Monitoring
- ☐ Automatic Tank Gauging
- ☐ Manual Tank Gauging
- ☐ Statistical Inventory Reconciliation
- ☐ Tightness Testing
- ☐ Inventory Monitoring (***Date last performed***):
- ☐ Other (***Explain at end of form***)
- ☐ None

Piping Monitoring
- ☐ Interstitial Monitoring (pipe)
- ☐ Electronic Line Leak Detection
- ☐ Mechanical Line Leak Detection
- ☐ Line Tightness Tests (***Date last performed***):
- ☐ Bulk Product Piping Pressure Tests
- ☐ Visual Inspection (true aboveground piping)
- ☐ Visual Inspection (sumps/liners)
- ☐ Electronic Inspection (sumps/liners)
- ☐ Other (***Explain at end of form***)

Site Information

Site Investigation No.	DEC Region	Investigator Name	Date Completed

Facility Address	Latitude / Longitude

Facility Type	Tank ID No.	DEC Spill No. (if applicable)	County Facility ID No. (if applicable)

Part B: Operational Information

General

1) Is "Part A" information correct? If "No," please correct it before proceeding. ☐ Yes ☐ No
2) Are monitoring wells marked & secured, per 6 NYCRR Part 613.3(b)(4) requirements? ☐ Yes ☐ No
3) Are tank top, dispenser sumps, and fill port catch basins properly maintained? ☐ Yes ☐ No ☐ Poor Condition
4) Are fill ports properly color-coded to identify product in tanks, per 6 NYCRR Part 613.3(b)? ☐ Yes ☐ No
5) Is the shear valve operative on pressurized piping of motor fuel tanks? ☐ Yes ☐ No ☐ Not Present

Underground Tanks

1) Is cathodic protection for steel USTs and piping systems being properly maintained and monitored annually? ☐ Yes ☐ No
   If "No": ☐ No monitoring on tank ☐ No monitoring on line ☐ Records not maintained
   ☐ System not maintained to achieve protection ☐ Inadequate test method ☐ Not required
2) Is leak monitoring being performed on USTs? ☐ Yes ☐ No
   If "No": ☐ Inoperative system ☐ Records not maintained ☐ Inappropriate method ☐ No investigation of suspected leak
3) Is proper inventory monitoring and reconciliation being performed on metered USTs? ☐ Yes ☐ No
   If "No": ☐ No records ☐ Poor equipment ☐ No reconciliation
   ☐ Reconciliation performed on other than 10-day basis ☐ No investigation of suspected leak
4) Do unmetered tanks have annual standpipe tests, tank tests, or other leak detection methods? ☐ Yes ☐ No ☐ Not required
5) Has tightness testing been conducted on the tank and piping systems? ☐ Yes ☐ No ☐ Entire tank not tested
   ☐ No line test ☐ Not required

Federally-Regulated USTs

1) Is the spill catch basin operational? ☐ Yes ☐ No
2) Is the overfill prevention system operational? ☐ Yes ☐ No

Aboveground Tanks

1) Are monthly inspections conducted for all ASTs? ☐ Yes ☐ No ☐ Records not maintained
2) Are 10-year inspections conducted for all ASTs? ☐ Yes ☐ No ☐ Records not maintained ☐ Not required
3) Is secondary containment being maintained for ASTs with capacity ≥10,000 gallons? ☐ Yes ☐ No ☐ Not Applicable
4) Are dike drain valves locked in a closed position? ☐ Yes ☐ No ☐ Not Applicable
5) Is equipment being maintained for ASTs with capacity <10,000 gallons that are using alternatives to secondary containment?
   ☐ Yes ☐ No
6) Are gauges, high-level alarms, or other equivalent devices on ASTs operational? ☐ Yes ☐ No
7) Are solenoids or equivalent valves on gravity-fed motor fuel dispensers operational? ☐ Yes ☐ No ☐ Not Applicable
8) Are check valves for pump-filled tanks with remote fills operational? ☐ Yes ☐ No ☐ Not Applicable
9) Is the operating valve on every line with gravity head operational? ☐ Yes ☐ No ☐ Not Applicable

Site Information

Site Investigation No.	DEC Region	Investigator Name	Date Completed

Facility Address	Latitude / Longitude

Facility Type	Tank ID No.	DEC Spill No. (if applicable)	County Facility ID No. (if applicable)

Part C: Release Information

Did release enter environment? ☐ Yes ☐ No

If "Yes," complete "Resource Affected" section at right. Complete entire form in either case.

Spill Reported Date (month/day/year):	Estimated Spill Date (month/day/year):
Estimated Number of Gallons Discharged: ☐ 0 - <10 ☐ 10 - <100 ☐ 100 - <1000 ☐ 1000 - <10,000 ☐ Over 10,000 ☐ Information not available	

Resource Affected

- ☐ Air (indoor air impact)
- ☐ Soil
- ☐ Groundwater
  - ***Drinking Water Well Impact?***
    - ☐ Yes
    - ☐ No
- ☐ Surface Water

Method of Discovery

- ☐ Leak Detection Methods *
- ☐ Closure/Removal
- ☐ Site Assessment
  - ☐ Property Transfer
  - ☐ Targeted Inspection
- ☐ Visual/Olfactory
  - ☐ Source
  - ☐ Point of Impact
- ☐ Water in Tank
- ☐ Other (***Explain at end of form***)

* Complete Section at Right

If leak detection, specify method:

- ☐ Secondary/Interstitial Monitoring
- ☐ Groundwater Monitoring
- ☐ Vapor Monitoring
- ☐ Automatic Tank Gauging
- ☐ Manual Tank Gauging
- ☐ Statistical Inventory Reconciliation
- ☐ Tank Tightness Testing
- ☐ Inventory Monitoring
- ☐ Electronic Line Leak Detection
- ☐ Mechanical Line Leak Detection
- ☐ Line Tightness Test
- ☐ Bulk Product Piping Pressure Tests
- ☐ Visual Inspection of ASTs
- ☐ API-653 Inspection
- ☐ Electronic Inspection
- ☐ Other (***Explain at end of form***)

Source of Discharge

- ☐ Tank
- ☐ Piping
  - ☐ Flex Connector
  - ☐ Fittings
  - ☐ Vent Line
  - ☐ Fill Pipe
- ☐ Dispenser
- ☐ Delivery Vehicle/Hose
- ☐ Pump (turbine)
- ☐ Other (***Explain at end of form***)
- ☐ Unknown (***Check only if absolutely uncertain***)

Cause of Discharge (Check all that apply)

- ☐ Loose Component (filter, connection, bung, etc.)
- ☐ Corrosion
- ☐ Puncture
- ☐ Overfill
- ☐ Vehicle Accident
- ☐ Improper Installation (***Explain at end of form***)
- ☐ Physical or Mechanical Damage
- ☐ Incidental Release
- ☐ Other (***Explain at end of form***)
- ☐ Unknown

Additional Information:

APPENDIX E

N-1	0425212	53	**Citgo**	200 Northern Blvd	Great Neck

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

RECEIVED
AUG 1 2 2004
REG 1 - OIL SPILLS

LAB NO.243236.01 08/09/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Citgo s/s, 200 Northern Blvd., Great Neck
SOURCE OF SAMPLE: Grant Site #N-1
COLLECTED BY: GES DATE COL'D:07/29/04 RECEIVED:07/29/04
TIME COL'D:1030

MATRIX:Water SAMPLE: MW#1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	23		08/04/04	5	EPA8021
Benzene	ug/L	7		08/04/04	5	EPA8021
Toluene	ug/L	32		08/04/04	5	EPA8021
Ethyl Benzene	ug/L	210		08/04/04	5	EPA8021
m + p Xylene	ug/L	690		08/04/04	10	EPA8021
o Xylene	ug/L	77		08/04/04	5	EPA8021

cc:GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 29715 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.243236.02 08/09/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Citgo s/s, 200 Northern Blvd., Great Neck
SOURCE OF SAMPLE: Grant Site #N-1
COLLECTED BY: GES DATE COL'D:07/29/04 RECEIVED:07/29/04
TIME COL'D:1100

MATRIX:Water SAMPLE: MW#2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		08/04/04	1	EPA8021
Benzene	ug/L	< 1		08/04/04	1	EPA8021
Toluene	ug/L	< 1		08/04/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		08/04/04	1	EPA8021
m + p Xylene	ug/L	< 2		08/04/04	2	EPA8021
o Xylene	ug/L	< 1		08/04/04	1	EPA8021

cc:GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 29716 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.243236.03 08/09/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Citgo s/s, 200 Northern Blvd., Great Neck
SOURCE OF SAMPLE: Grant Site #N-1
COLLECTED BY: GES DATE COL'D:07/29/04 RECEIVED:07/29/04
TIME COL'D:1130

MATRIX:Water SAMPLE: MW#4

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		08/04/04	1	EPA8021
Benzene	ug/L	< 1		08/04/04	1	EPA8021
Toluene	ug/L	< 1		08/04/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		08/04/04	1	EPA8021
m + p Xylene	ug/L	< 2		08/04/04	2	EPA8021
o Xylene	ug/L	< 1		08/04/04	1	EPA8021

cc:GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 29717 NYSDOH ID # 10320

N-2	0425100	**5400**	**Exxon**	1019 Tulip Ave	Franklin Square

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242183.01 05/26/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio 042510 PO#:

SOURCE OF SAMPLE: 1019 Tulip Ave, Franklin Square
SOURCE OF SAMPLE: MTBE Grant #N-2
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1255

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	5400		05/21/04	500	EPA8021
Benzene	ug/L	< 10		05/21/04	10	EPA8021
Toluene	ug/L	< 10		05/21/04	10	EPA8021
Ethyl Benzene	ug/L	< 10		05/21/04	10	EPA8021
m + p Xylene	ug/L	< 20		05/21/04	20	EPA8021
o Xylene	ug/L	< 10		05/21/04	10	EPA8021

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20407 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242183.02 05/26/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: 1019 Tulip Ave, Franklin Square
SOURCE OF SAMPLE: MTBE Grant #N-2
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1340

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	3		05/21/04	1	EPA8021
Benzene	ug/L	< 1		05/21/04	1	EPA8021
Toluene	ug/L	< 1		05/21/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		05/21/04	1	EPA8021
m + p Xylene	ug/L	< 2		05/21/04	2	EPA8021
o Xylene	ug/L	< 1		05/21/04	1	EPA8021

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20408 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242183.03 05/26/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: 1019 Tulip Ave, Franklin Square
SOURCE OF SAMPLE: MTBE Grant #N-2
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1323

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		05/21/04	1	EPA8021
Benzene	ug/L	< 1		05/21/04	1	EPA8021
Toluene	ug/L	< 1		05/21/04	1	EPA8021
Ethyl Benzene	ug/L	< 1		05/21/04	1	EPA8021
m + p Xylene	ug/L	< 2		05/21/04	2	EPA8021
o Xylene	ug/L	< 1		05/21/04	1	EPA8021

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20409 NYSDOH ID # 10320

N-3	0425086	ND	**Valero**	1501 Jericho Tpk	New Hyde Park

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242506.01 06/14/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Valero, 1501 Jericho Turnpike, New Hyde Park, #N-3
SOURCE OF SAMPLE: Spill No. 04-25086. Grant #N-3.
COLLECTED BY: GES DATE COL'D:06/10/04 RECEIVED:06/10/04
TIME COL'D:0946
MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/11/04	1	EPA602
Benzene	ug/L	< 1		06/11/04	1	EPA602
Toluene	ug/L	< 1		06/11/04	1	EPA602
Ethyl Benzene	ug/L	< 1		06/11/04	1	EPA602
m + p Xylene	ug/L	< 2		06/11/04	2	EPA602
o Xylene	ug/L	< 1		06/11/04	1	EPA602

cc;GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 22661 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242506.02 06/14/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Valero, 1501 Jericho Turnpike, New Hyde Park, #N-3
SOURCE OF SAMPLE: Spill No. 04-25086. Grant #N-3.
COLLECTED BY: GES DATE COL'D:06/10/04 RECEIVED:06/10/04
TIME COL'D:1013
MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 10		06/11/04	10	EPA602
Benzene	ug/L	< 10		06/11/04	10	EPA602
Toluene	ug/L	66		06/11/04	10	EPA602
Ethyl Benzene	ug/L	290		06/11/04	10	EPA602
m + p Xylene	ug/L	2400		06/11/04	20	EPA602
o Xylene	ug/L	990		06/11/04	10	EPA602

cc:GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 22662 NYSDOH ID # 10320

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377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242506.03 06/14/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Valero, 1501 Jericho Turnpike, New Hyde Park, #N-3
SOURCE OF SAMPLE: Spill No. 04-25086. Grant #N-3.
COLLECTED BY: GES DATE COL'D:06/10/04 RECEIVED:06/10/04
TIME COL'D:1045
MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		06/11/04	1	EPA602
Benzene	ug/L	< 1		06/11/04	1	EPA602
Toluene	ug/L	< 1		06/11/04	1	EPA602
Ethyl Benzene	ug/L	< 1		06/11/04	1	EPA602
m + p Xylene	ug/L	< 2		06/11/04	2	EPA602
o Xylene	ug/L	< 1		06/11/04	1	EPA602

cc:GES, Dawn Ruffini

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 22663 NYSDOH ID # 10320

N-4	ND	**Shell**	1500 Jericho Tpk	New Hyde Park

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	N30761-1	Date Sampled:	01/15/03
Matrix:	AQ - Ground Water	Date Received:	01/16/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NESINY:98998561 1500 Jericho Turnpike, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I62684.D	1	01/19/03	MKP	n/a	n/a	VI2409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.0	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	8.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.28	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.35	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.38	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		69-127%
2037-26-5	Toluene-D8	96%		82-119%
460-00-4	4-Bromofluorobenzene	101%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	N30761-2	Date Sampled:	01/15/03
Matrix:	AQ - Ground Water	Date Received:	01/16/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NESINY:98998561 1500 Jericho Turnpike, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	162685.D	1	01/19/03	MKP	n/a	n/a	V12409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	8.9	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	0.28	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.35	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.38	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		69-127%
2037-26-5	Toluene-D8	98%		82-119%
460-00-4	4-Bromofluorobenzene	101%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	N30761-3	Date Sampled:	01/15/03
Matrix:	AQ - Ground Water	Date Received:	01/16/03
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NESINY:98998561 1500 Jericho Turnpike, New Hyde Park, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	162686.D	1	01/19/03	MKP	n/a	n/a	V12409
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable BTEX,MTBE,TBA,DIPE,TAME,ETBE

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.37	ug/l	
108-88-3	Toluene	ND	1.0	0.41	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.44	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.34	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.29	ug/l	
75-65-0	Tert Butyl Alcohol	ND	25	8.9	ug/l	
108-20-3	Di-isopropyl ether	ND	5.0	0.28	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	5.0	0.35	ug/l	
637-92-3	tert-Butyl Ethyl Ether	ND	5.0	0.38	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		69-127%
2037-26-5	Toluene-D8	100%		82-119%
460-00-4	4-Bromofluorobenzene	103%		81-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

N-5	2	**Amoco**	205 Jericho Tpk	New Hyde Park

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.234687.01 10/01/03

RECEIVED
OCT 0 3 2003
REG 1 - OIL SPILLS

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Amoco s/s (N-5), 205 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MBE Sites, #G03-0181.
COLLECTED BY: MEG DATE COL'D:09/19/03 RECEIVED:09/19/03
TIME COL'D:1300

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		09/25/03	1	EPA8021
Benzene	ug/L	< 1		09/25/03	1	EPA8021
Toluene	ug/L	< 1		09/25/03	1	EPA8021
Ethyl Benzene	ug/L	< 1		09/25/03	1	EPA8021
m + p Xylene	ug/L	< 2		09/25/03	2	EPA8021
o Xylene	ug/L	< 1		09/25/03	1	EPA8021

cc:Ryan Piper, MEG

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39615 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.234687.02 10/01/03

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Amoco s/s (N-5), 205 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MBE Sites, #G03-0181.
COLLECTED BY: MEG DATE COL'D:09/19/03 RECEIVED:09/19/03
TIME COL'D:1320

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	2		09/25/03	1	EPA8021
Benzene	ug/L	< 1		09/25/03	1	EPA8021
Toluene	ug/L	< 1		09/25/03	1	EPA8021
Ethyl Benzene	ug/L	< 1		09/25/03	1	EPA8021
m + p Xylene	ug/L	< 2		09/25/03	2	EPA8021
o Xylene	ug/L	< 1		09/25/03	1	EPA8021

cc:Ryan Piper, MEG

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39616 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.234687.03 10/01/03

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Amoco s/s (N-5), 205 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MBE Sites, #G03-0181.
COLLECTED BY: MEG DATE COL'D:09/19/03 RECEIVED:09/19/03
TIME COL'D:1412

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	1		09/25/03	1	EPA8021
Benzene	ug/L	< 1		09/25/03	1	EPA8021
Toluene	ug/L	< 1		09/25/03	1	EPA8021
Ethyl Benzene	ug/L	< 1		09/25/03	1	EPA8021
m + p Xylene	ug/L	< 2		09/25/03	2	EPA8021
o Xylene	ug/L	< 1		09/25/03	1	EPA8021

cc:Ryan Piper, MEG

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39617 NYSDOH ID # 10320

N-6	0225350	14	**Mobil(Palm Beach)**	1338 Hempstead Tpk	Elmont

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

RECEIVED
SEP 19 2003

ANALYTICAL REPORT

GEOLOGIC SERVICES CORPORATION 10154

20 PEACHTREE CT, SUITE 201
HOLBROOK, NY 11741

Project: 0101454
Project Name: EXXONMOBIL 17-KG4
Sampler: JOHN WOLF

Lab Number: 03-A140088
Sample ID: TF-1
Sample Type: Water
Site ID: 17-KG4

Date Collected: 9/ 8/03
Time Collected: 11:10
Date Received: 9/ 9/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	4.7	ug/L	1.0	1.0	9/11/03	5:42	A. Cobbs	602	5856
Toluene	ND	ug/L	1.0	1.0	9/11/03	5:42	A. Cobbs	602	5856
Ethylbenzene	ND	ug/L	1.0	1.0	9/11/03	5:42	A. Cobbs	602	5856
Xylenes, total	ND	ug/L	1.0	1.0	9/11/03	5:42	A. Cobbs	602	5856
Methyl-t-butylether	1.0	ug/L	1.0	1.0	9/11/03	5:42	A. Cobbs	602	5856

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	119.	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-728-3404 Fax

ANALYTICAL REPORT

GEOLOGIC SERVICES CORPORATION 10154

20 PEACHTREE CT, SUITE 201
HOLBROOK, NY 11741

Project: 0101454
Project Name: EXXONMOBIL 17-KG4
Sampler: JOHN WOLF

Lab Number: 03-A140089
Sample ID: TF-2
Sample Type: Water
Site ID: 17-KG4

Date Collected: 9/ 8/03
Time Collected: 12:10
Date Received: 9/ 9/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	25.4	ug/L	1.0	1.0	9/11/03	7:22	A. Cobbs	602	5856
Toluene	1.7	ug/L	1.0	1.0	9/11/03	7:22	A. Cobbs	602	5856
Ethylbenzene	ND	ug/L	1.0	1.0	9/11/03	7:22	A. Cobbs	602	5856
Xylenes, total	1.7	ug/L	1.0	1.0	9/11/03	7:22	A. Cobbs	602	5856
Methyl-t-butylether	14.7	ug/L	1.0	1.0	9/11/03	7:22	A. Cobbs	602	5856

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	96.	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
2960 Foster Creighton Drive • Nashville, Tennessee 37204
800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

GEOLOGIC SERVICES CORPORATION 10154

20 PEACHTREE CT, SUITE 201
HOLBROOK, NY 11741

Project: 0101454
Project Name: EXXONMOBIL 17-KG4
Sampler: JOHN WOLF

Lab Number: 03-A140090
Sample ID: TF-3
Sample Type: Water
Site ID: 17-KG4

Date Collected: 9/ 8/03
Time Collected: 13:00
Date Received: 9/ 9/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	12.9	ug/L	1.0	1.0	9/11/03	7:56	A. Cobbs	602	5856
Toluene	2.7	ug/L	1.0	1.0	9/11/03	7:56	A. Cobbs	602	5856
Ethylbenzene	ND	ug/L	1.0	1.0	9/11/03	7:56	A. Cobbs	602	5856
Xylenes, total	2.8	ug/L	1.0	1.0	9/11/03	7:56	A. Cobbs	602	5856
Methyl-t-butylether	2.2	ug/L	1.0	1.0	9/11/03	7:56	A. Cobbs	602	5856

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	132. #	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

TestAmerica
ANALYTICAL TESTING CORPORATION
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800-765-0980 • 615-726-3404 Fax

ANALYTICAL REPORT

GEOLOGIC SERVICES CORPORATION 10154

20 PEACHTREE CT, SUITE 201
HOLBROOK, NY 11741

Project: 0101454
Project Name: EXXONMOBIL 17-KG4
Sampler: JOHN WOLF

Lab Number: 03-A140091
Sample ID: TF-4
Sample Type: Water
Site ID: 17-KG4

Date Collected: 9/ 8/03
Time Collected: 14:30
Date Received: 9/ 9/03
Time Received: 8:20
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	9.4	ug/L	1.0	1.0	9/11/03	14:31	A. Cobbs	602	6892
Toluene	7.2	ug/L	1.0	1.0	9/11/03	14:31	A. Cobbs	602	6892
Ethylbenzene	3.2	ug/L	1.0	1.0	9/11/03	14:31	A. Cobbs	602	6892
Xylenes, total	20.9	ug/L	1.0	1.0	9/11/03	14:31	A. Cobbs	602	6892
Methyl-t-butylether	10.4	ug/L	1.0	1.0	9/11/03	14:31	A. Cobbs	602	6892

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	73.	69. - 129.

LABORATORY COMMENTS:
ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
# = Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

N-7	0225349	**240,000**	**Liberty Petroleum**	1278 Hempstead Tpk	Elmont

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

RECEIVED
OCT 27 2004
REG 1 - OIL SPILLS

LAB NO.244323.01 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/07/04 RECEIVED:10/11/04
TIME COL'D:1020

MATRIX:Water SAMPLE: EP-1 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 25		10/13/04	25	EPA8260
tert. Butyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
ter.ButylMethylEther	ug/L	< 1		10/13/04	1	EPA8260
Diisopropyl Ether	ug/L	< 1		10/13/04	1	EPA8260
tert ButylEthylEther	ug/L	< 1		10/13/04	1	EPA8260
tert Amyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
tert Amyl Methyl Ether	ug/L	< 1		10/13/04	1	EPA8260
Benzene	ug/L	< 1		10/13/04	1	EPA8260
Toluene	ug/L	< 1		10/13/04	1	EPA8260
Ethyl Benzene	ug/L	< 1		10/13/04	1	EPA8260
m + p Xylene	ug/L	< 2		10/13/04	2	EPA8260
o Xylene	ug/L	< 1		10/13/04	1	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39567 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.244324.03 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/08/04 RECEIVED:10/11/04
TIME COL'D:1510
MATRIX:Water SAMPLE: EP-2 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 25		10/13/04	25	EPA8260
tert. Butyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
ter.ButylMethylEther	ug/L	< 1		10/13/04	1	EPA8260
Diisopropyl Ether	ug/L	< 1		10/13/04	1	EPA8260
tert ButylEthylEther	ug/L	< 1		10/13/04	1	EPA8260
tert Amyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
tert Amyl Methyl Ether	ug/L	< 1		10/13/04	1	EPA8260
Benzene	ug/L	< 1		10/13/04	1	EPA8260
Toluene	ug/L	< 1		10/13/04	1	EPA8260
Ethyl Benzene	ug/L	< 1		10/13/04	1	EPA8260
m + p Xylene	ug/L	< 2		10/13/04	2	EPA8260
o Xylene	ug/L	< 1		10/13/04	1	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39573 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.244324.02 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/08/04 RECEIVED:10/11/04
TIME COL'D:1356
MATRIX:Water SAMPLE: EP-3 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 25		10/13/04	25	EPA8260
tert. Butyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
ter.ButylMethylEther	ug/L	< 1		10/13/04	1	EPA8260
Diisopropyl Ether	ug/L	< 1		10/13/04	1	EPA8260
tert ButylEthylEther	ug/L	< 1		10/13/04	1	EPA8260
tert Amyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
tert Amyl Methyl Ether	ug/L	< 1		10/13/04	1	EPA8260
Benzene	ug/L	< 1		10/13/04	1	EPA8260
Toluene	ug/L	< 1		10/13/04	1	EPA8260
Ethyl Benzene	ug/L	< 1		10/13/04	1	EPA8260
m + p Xylene	ug/L	< 2		10/13/04	2	EPA8260
o Xylene	ug/L	< 1		10/13/04	1	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39572 NYSDOH ID # 10320

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377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

RECEIVED
OCT 27 2004
REG 1 - OIL SPILLS

LAB NO.244324.01 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/08/04 RECEIVED:10/11/04
TIME COL'D:1140

MATRIX:Water SAMPLE: EP-4 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 1300		10/13/04	1250	EPA8260
tert. Butyl Alcohol	ug/L	1600		10/13/04	125	EPA8260
ter.ButylMethylEther	ug/L	71000		10/13/04	1000	EPA8260
Diisopropyl Ether	ug/L	< 50		10/13/04	50	EPA8260
tert ButylEthylEther	ug/L	130		10/13/04	50	EPA8260
tert Amyl Alcohol	ug/L	< 130		10/13/04	125	EPA8260
tert Amyl Methyl Ether	ug/L	3100		10/13/04	50	EPA8260
Benzene	ug/L	320		10/13/04	50	EPA8260
Toluene	ug/L	< 50		10/13/04	50	EPA8260
Ethyl Benzene	ug/L	< 50		10/13/04	50	EPA8260
m + p Xylene	ug/L	< 100		10/13/04	100	EPA8260
o Xylene	ug/L	< 50		10/13/04	50	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39571 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.244323.02 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/07/04 RECEIVED:10/11/04
TIME COL'D:1141

MATRIX:Water SAMPLE: EP-5 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 25		10/13/04	25	EPA8260
tert. Butyl Alcohol	ug/L	600		10/13/04	50	EPA8260
ter.ButylMethylEther	ug/L	6100		10/13/04	20	EPA8260
Diisopropyl Ether	ug/L	3		10/13/04	1	EPA8260
tert ButylEthylEther	ug/L	14		10/13/04	1	EPA8260
tert Amyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
tert Amyl Methyl Ether	ug/L	290		10/13/04	20	EPA8260
Benzene	ug/L	14		10/13/04	1	EPA8260
Toluene	ug/L	< 1		10/13/04	1	EPA8260
Ethyl Benzene	ug/L	< 1		10/13/04	1	EPA8260
m + p Xylene	ug/L	< 2		10/13/04	2	EPA8260
o Xylene	ug/L	< 1		10/13/04	1	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39568 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.244323.03 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/07/04 RECEIVED:10/11/04
TIME COL'D:1350

MATRIX:Water SAMPLE: EP-7 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 2500		10/13/04	2500	EPA8260
tert. Butyl Alcohol	ug/L	30000		10/13/04	5000	EPA8260
ter.ButylMethylEther	ug/L	240000		10/13/04	2000	EPA8260
Diisopropyl Ether	ug/L	< 100		10/13/04	100	EPA8260
tert ButylEthylEther	ug/L	380		10/13/04	100	EPA8260
tert Amyl Alcohol	ug/L	1400		10/13/04	250	EPA8260
tert Amyl Methyl Ether	ug/L	9900		10/13/04	100	EPA8260
Benzene	ug/L	400		10/13/04	100	EPA8260
Toluene	ug/L	< 100		10/13/04	100	EPA8260
Ethyl Benzene	ug/L	< 100		10/13/04	100	EPA8260
m + p Xylene	ug/L	< 200		10/13/04	200	EPA8260
o Xylene	ug/L	< 100		10/13/04	100	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39569 NYSDOH ID # 10320

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.244323.04 10/18/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: Liberty Petroleum, 1278 Hempstead Tpke, Elmont
SOURCE OF SAMPLE: Spill No. 02-25349. PIN No. SP-02579.
COLLECTED BY: EAR DATE COL'D:10/07/04 RECEIVED:10/11/04
TIME COL'D:1510
MATRIX:Water SAMPLE: EP-8 (37-39)

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Ethyl alcohol	ug/L	< 25		10/13/04	25	EPA8260
tert. Butyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
ter.ButylMethylEther	ug/L	< 1		10/13/04	1	EPA8260
Diisopropyl Ether	ug/L	< 1		10/13/04	1	EPA8260
tert ButylEthylEther	ug/L	< 1		10/13/04	1	EPA8260
tert Amyl Alcohol	ug/L	< 2.5		10/13/04	2.5	EPA8260
tert Amyl Methyl Ether	ug/L	< 1		10/13/04	1	EPA8260
Benzene	ug/L	< 1		10/13/04	1	EPA8260
Toluene	ug/L	< 1		10/13/04	1	EPA8260
Ethyl Benzene	ug/L	< 1		10/13/04	1	EPA8260
m + p Xylene	ug/L	< 2		10/13/04	2	EPA8260
o Xylene	ug/L	< 1		10/13/04	1	EPA8260

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 39570 NYSDOH ID # 10320

N-8	N/A	**Complete Auto Service**	10 County Court House Rd	Garden City Park

N-9	ND	**Exxon**	2399 Jericho Tpk	Garden City Park

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242182.01 05/25/04

RECEIVED MAY 28 2004 REG 1 - OIL SPILLS

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: 2399 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MTBE Grant #N-9
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1135

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		05/21/04	1	EPA602
Benzene	ug/L	< 1		05/21/04	1	EPA602
Toluene	ug/L	< 1		05/21/04	1	EPA602
Ethyl Benzene	ug/L	< 1		05/21/04	1	EPA602
m + p Xylene	ug/L	< 2		05/21/04	2	EPA602
o Xylene	ug/L	< 1		05/21/04	1	EPA602

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20404 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242182.02 06/02/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: 2399 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MTBE Grant #N-9
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1034

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		05/21/04	1	EPA602
Benzene	ug/L	< 1		05/21/04	1	EPA602
Toluene	ug/L	< 1		05/21/04	1	EPA602
Ethyl Benzene	ug/L	< 1		05/21/04	1	EPA602
m + p Xylene	ug/L	< 2		05/21/04	2	EPA602
o Xylene	ug/L	< 1		05/21/04	1	EPA602

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS: Corrected Report.

DIRECTOR

rn = 20405 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.242182.03 06/02/04

N.Y.S.- D.E.C., Bureau of Spill Response
SUNY, Building #40
Stony Brook, NY 11790
ATTN: Kristy Salafrio PO#:

SOURCE OF SAMPLE: 2399 Jericho Tpke, New Hyde Park
SOURCE OF SAMPLE: MTBE Grant #N-9
COLLECTED BY: EAR DATE COL'D:05/20/04 RECEIVED:05/20/04
TIME COL'D:1105

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ter.ButylMethylEther	ug/L	< 1		05/21/04	1	EPA602
Benzene	ug/L	< 1		05/21/04	1	EPA602
Toluene	ug/L	< 1		05/21/04	1	EPA602
Ethyl Benzene	ug/L	< 1		05/21/04	1	EPA602
m + p Xylene	ug/L	< 2		05/21/04	2	EPA602
o Xylene	ug/L	< 1		05/21/04	1	EPA602

cc:EAR, Jaime Brown

LRL=Laboratory Reporting Limit

REMARKS: Corrected Report.

DIRECTOR

rn = 20406 NYSDOH ID # 10320

N-10	0225398	**73,000**	**Exxon(BP Amoco)**	549 Jericho Tpk	Mineola

American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-01/1630
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-01A	**Matrix:**	LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
1,1,1,2-Tetrachloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1,1-Trichloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1,2,2-Tetrachloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1,2-Trichloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1-Dichloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,1-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2,3-Trichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2,3-Trichloropropane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2,4,5-Tetramethylbenzene	10	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2,4-Trichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2,4-Trimethylbenzene	450	50		µg/L	50	10/5/2003 6:40:00 AM
1,2-Dibromo-3-chloropropane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2-Dibromoethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2-Dichloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,2-Dichloropropane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,3,5-Trimethylbenzene	420	50		µg/L	50	10/5/2003 6:40:00 AM
1,3-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,3-dichloropropane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
1,4-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
2,2-Dichloropropane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
2-Butanone	370	1.0		µg/L	1	10/2/2003 5:16:00 AM
2-Chloroethyl vinyl ether	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
2-Chlorotoluene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
2-Hexanone	34	1.0		µg/L	1	10/2/2003 5:16:00 AM
4-Chlorotoluene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
4-Isopropyltoluene	8.1	1.0		µg/L	1	10/2/2003 5:16:00 AM
4-Methyl-2-pentanone	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Acetone	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Acrolein	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Acrylonitrile	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Benzene	1300	50		µg/L	50	10/5/2003 6:40:00 AM
Bromobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Bromochloromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Bromodichloromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Bromoform	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Bromomethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Carbon disulfide	U	1.0		µg/L	1	10/2/2003 5:16:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-01/1630
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-01A	**Matrix:**	LIQUID

Analyses	Result	Limit	Quat	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
Carbon tetrachloride	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Chlorobenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Chlorodifluoromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Chloroethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Chloroform	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Chloromethane	33	1.0		µg/L	1	10/2/2003 5:16:00 AM
cis-1,2-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
cis-1,3-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Dibromochloromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Dibromomethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Dichlorodifluoromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Diisopropyl ether	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Ethanol	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Ethyl acetate	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Ethylbenzene	680	50		µg/L	50	10/5/2003 6:40:00 AM
Freon-114	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Hexachlorobutadiene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Isopropyl acetate	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Isopropylbenzene	46	1.0		µg/L	1	10/2/2003 5:16:00 AM
m,p-Xylene	2600	100		µg/L	50	10/5/2003 6:40:00 AM
Methyl tert-butyl ether	57000	50		µg/L	50	10/5/2003 6:40:00 AM
Methylene chloride	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Naphthalene	53	1.0		µg/L	1	10/2/2003 5:16:00 AM
n-Butyl acetate	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
n-Butylbenzene	15	1.0		µg/L	1	10/2/2003 5:16:00 AM
n-Propyl acetate	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
n-Propylbenzene	91	1.0		µg/L	1	10/2/2003 5:16:00 AM
o-Xylene	1100	50		µg/L	50	10/5/2003 6:40:00 AM
p-Diethylbenzene	43	1.0		µg/L	1	10/2/2003 5:16:00 AM
p-Ethyltoluene	160	1.0		µg/L	1	10/2/2003 5:16:00 AM
sec-Butylbenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Styrene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
t-Butyl alcohol	1.9	1.0		µg/L	1	10/2/2003 5:16:00 AM
tert-Butylbenzene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Tetrachloroethene	7.6	1.0		µg/L	1	10/2/2003 5:16:00 AM
Toluene	5700	50		µg/L	50	10/5/2003 6:40:00 AM
trans-1,2-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
trans-1,3-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Trichloroethene	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Trichlorofluoromethane	U	1.0		µg/L	1	10/2/2003 5:16:00 AM

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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-01/1630
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-01A	**Matrix:**	LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
Vinyl acetate	U	1.0		µg/L	1	10/2/2003 5:16:00 AM
Vinyl chloride	U	1.0		µg/L	1	10/2/2003 5:16:00 AM

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American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-02/1515
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-02A	**Matrix:**	LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
1,1,1,2-Tetrachloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1,1-Trichloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1,2,2-Tetrachloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1,2-Trichloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1-Dichloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,1-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2,3-Trichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2,3-Trichloropropane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2,4,5-Tetramethylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2,4-Trichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2,4-Trimethylbenzene	16	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2-Dibromo-3-chloropropane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2-Dibromoethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2-Dichloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,2-Dichloropropane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,3,5-Trimethylbenzene	22	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,3-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,3-dichloropropane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
1,4-Dichlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
2,2-Dichloropropane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
2-Butanone	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
2-Chloroethyl vinyl ether	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
2-Chlorotoluene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
2-Hexanone	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
4-Chlorotoluene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
4-Isopropyltoluene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
4-Methyl-2-pentanone	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Acetone	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Acrolein	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Acrylonitrile	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Benzene	980	20		µg/L	20	10/5/2003 7:24:00 AM
Bromobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Bromochloromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Bromodichloromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Bromoform	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Bromomethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Carbon disulfide	U	1.0		µg/L	1	10/2/2003 5:54:00 AM

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American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-02/1515
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-02A	**Matrix:**	LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
Carbon tetrachloride	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Chlorobenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Chlorodifluoromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Chloroethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Chloroform	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Chloromethane	6.0	1.0		µg/L	1	10/2/2003 5:54:00 AM
cis-1,2-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
cis-1,3-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Dibromochloromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Dibromomethane	U	20		µg/L	20	10/5/2003 7:24:00 AM
Dibromomethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Dichlorodifluoromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Diisopropyl ether	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Ethanol	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Ethyl acetate	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Ethylbenzene	26	1.0		µg/L	1	10/2/2003 5:54:00 AM
Freon-114	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Hexachlorobutadiene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Isopropyl acetate	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Isopropylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
m,p-Xylene	160	2.0		µg/L	1	10/2/2003 5:54:00 AM
Methyl tert-butyl ether	17000	20		µg/L	20	10/5/2003 7:24:00 AM
Methylene chloride	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Naphthalene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
n-Butyl acetate	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
n-Butylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
n-Propyl acetate	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
n-Propylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
o-Xylene	81	1.0		µg/L	1	10/2/2003 5:54:00 AM
p-Diethylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
p-Ethyltoluene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
sec-Butylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Styrene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
t-Butyl alcohol	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
tert-Butylbenzene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Tetrachloroethene	3.4	1.0		µg/L	1	10/2/2003 5:54:00 AM
Toluene	340	20		µg/L	20	10/5/2003 7:24:00 AM
trans-1,2-Dichloroethene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
trans-1,3-Dichloropropene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Trichloroethene	U	1.0		µg/L	1	10/2/2003 5:54:00 AM

Qualifiers:

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American Analytical Laboratories, Inc.

Date: *06-Oct-03*

CLIENT:	Environmental Resources Management	**Client Sample ID:**	ERM-02/1515
Lab Order:	0309129	**Tag Number:**	
Project:	Sprague Energy Corp. Herricks Rd. Jericho Tpk	**Collection Date:**	9/25/2003
Lab ID:	0309129-02A	**Matrix:**	LIQUID

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILES SW-846 METHOD 8260		**SW8260B**				Analyst: **LDS**
Trichlorofluoromethane	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Vinyl acetate	U	1.0		µg/L	1	10/2/2003 5:54:00 AM
Vinyl chloride	U	1.0		µg/L	1	10/2/2003 5:54:00 AM

Qualifiers:

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J - Analyte detected below quantitation limits
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