Report No.: 8003-089
Rev. No.: 2

# FINAL DRAFT
# FEDERAL FACILITY SI REVIEW
# DOCUMENTATION PACKAGE

## NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
## CALVERTON, NEW YORK

PREPARED UNDER

WORK ASSIGNMENT NO. 019-2JZZ
CONTRACT NO. 68-W9-0051

SEPTEMBER 30,1992

VOLUME 2 OF 4

370469

R-49-10-91-7

# FINAL
# SITE INVESTIGATION

## NAVAL WEAPONS INDUSTRIAL RESERVE PLANT CALVERTON, NEW YORK

## NORTHERN AND CHESAPEAKE DIVISIONS

## VOLUME II

PREPARED BY

HALLIBURTON NUS
ENVIRONMENTAL CORPORATION
PITTSBURGH, PENNSYLVANIA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY
(CLEAN) PROGRAM

CONTRACT NUMBER N62472-90-D-1298
CONTRACT TASK ORDER NUMBER 0002

APRIL 1992

HALLIBURTON NUS
*Environmental Corporation*

Donohue ENGINEERS ARCHITECTS SCIENTISTS

ENSR™

# APPENDIX A

## ENVIRONMENTAL/ENERGY SURVEY OF NWIRP CALVERTON, NEW YORK

DECEMBER 1976

NAVY ENVIRONMENTAL SUPPORT OFFICE
Naval Construction Battalion Center
Port Hueneme, California 93043

# ENVIRONMENTAL/ENERGY SURVEY OF NWIRP CALVERTON, NY

GRUMMAN AEROSPACE

CONTRACTOR-OPERATOR

NESO 12-016.6

NEPSS

Naval
Environmental
Protection
Support
Service

NOT FOR PUBLIC RELEASE

286

# ENVIRONMENTAL/ENERGY SURVEY
# OF
# GOVERNMENT-OWNED, CONTRACTOR-OPERATED (GOCO)
# FACILITIES

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP)
OPERATED BY GRUMMAN AEROSPACE CORPORATION
ACTIVITY CODE NO. DOD 466
UIC NO. 96095
CALVERTON, NEW YORK

3 DECEMBER 1976

Prepared for NESO by:

ManTech of New Jersey Corporation
Systems Division
Systems Audits Department

## TABLE OF CONTENTS


| | PAGE |
|---|---|
| SECTION I | |
| A. INTRODUCTION | 1 |
| B. AREA AND PLANT DESCRIPTION | 2 |
| C. FACILITY USE CONTRACT | 5 |
| D. PROBLEMS | 6 |
| APPENDIX A - ENVIRONMENTAL | A-1 |
| 1. ENVIRONMENTAL LAWS AND REGULATIONS | A-1 |
| 2. MAJOR FINDINGS | A-3 |
| APPENDIX B - ENERGY | B-1 |
| 1. ENERGY PROFILE | |
| 2. ORGANIZATION AND INITIATIVES | |
| 3. ENERGY CONSERVATION PROJECTS | |
| 4. RECOMMENDATIONS | |
| APPENDIX C - ENERGY/ENVIRONMENTAL CONFLICTS | C-1 |


## LIST OF FIGURES


| FIGURE NO. | | PAGE |
|---|---|---|
| 1 | NWIRP SITE PLAN | 3 |
| B-1 | FACILITY ENERGY PROFILE, WINTER DAY | B-3 |
| B-2 | FACILITY ENERGY PROFILE, SUMMER DAY | B-4 |
| B-3 | ENERGY CONSERVATION AT GRUMMAN AEROSPACE CORPORATION | B-11 |
| B-4 | UTILITIES CONSUMPTION - ELECTRICAL ENERGY | B-12 |
| B-5 | UTILITIES CONSUMPTION - FUEL OIL | B-13 |
| B-6 | UTILITIES CONSUMPTION - NATURAL GAS | B-14 |
| B-7 | GAC (GOCO PLANTS)TOTAL UTILITY CONSUMPTION | B-15 |
| B-8 | ANNUAL CALVERTON ELECTRIC ENERGY CONSUMPTION (MONTHLY PLOT) | B-17 |
| B-9 | PAINT FACILITY, SHOWING PROPOSED EXTENSION | B-25 |
| B-10 | BOILER BLOWDOWN PIPING SCHEMATIC | B-32 |
| B-11 | BOILER ARRANGEMENT SCHEMATIC | B-33 |

## LIST OF TABLES


| TABLE NO. | | PAGE |
|---|---|---|
| A-1 | APPLICABLE ENVIRONMENTAL LAWS AND REGULATIONS | A-2 |
| B-1 | ENERGY COST/CONSUMPTION | B-10 |
| B-2 | LONG TERM MAINTENANCE PLAN | B-26 |

## Section I

### A. INTRODUCTION

This report presents information on the status of compliance with current environmental legislation and the progress toward energy conservation achieved at the Naval Weapons Industrial Reserve Plant (NWIRP) operated by Grumman Aerospace Corporation. The survey was conducted in response to a request by the Navy Environmental Support Office (NESO) and Naval Facilities Engineering Command (Codes 102 and 104) to determine the environmental/energy conservation status of eleven of the GOCO facilities administered by the Naval Sea Systems Command, and nine of the GOCO facilities administered by the Naval Air Systems Command. The objectives of the environmental portion of the survey are to ascertain the present status of GOCO compliance with environmental laws and regulations, and provide a baseline from which to measure compliance in the future. The objectives of the energy conservation portion of the survey are to assess the present level of GOCO energy conservation, to determine areas amenable to further reduction in energy consumption, and to ascertain the availability of current and future energy sources.

The majority of information concerning the Grumman facility was obtained at the plant during a two-day site survey conducted by ManTech of New Jersey Corporation personnel on 17-18 November 1976. Mr. John G. Kresky, R.S. investigated environmental issues, and Mr. John W. Hamilton investigated areas of energy conservation.

Grumman and Naval personnel participating in the survey, conducting tours, and assembling plant records were as follows:

For the contractor:

Mr. Carl Petrowski (Assistant Manager, Maintenance Department)
Mr. R. Yezek (Deputy Director, Engineering Department)
Mr. Harold W. George (Chief Engineer, Facilities Department)
Mr. Peter L. Romano (Planning Manager, Facilities Engineering)
Mr. John Ohlmann (Manager, Environmental Control)

Mr. Mac McCown (Manager, Environmental Protection)

Mr. Leon Maggio (Manager, OSHA)

Mr. Robert Wheeler (Process Engineer)

For the Navy Plant Representative Office (NAVPRO):

Mr. T. Repetti (Property Administrator, Facilities Management)

Mr. William Miller (Assistant Property Administrator, Facilities Management)

B. AREA AND PLANT DESCRIPTION

The NWIRP is located in Suffolk County, New York, at the eastern end of Long Island. The major portion of the NWIRP is located within the Town of Riverhead with the remainder in the Town of Brookhaven. The 2900 acre site is situated on relatively flat terrain that is sparsely developed (see Figure 1) at the present time although a number of housing developments are in the planning stage adjacent to the NWIRP. The surrounding area is farm and woodland. The entire site is GOCO. Facilities consist of two aircraft runways, two major assembly buildings, testing areas, an anechoic test chamber, and other smaller support buildings. The buildings, completed in 1954, appear to be structurally sound and well maintained. Facilities on the base are relatively spread out with large buffer areas between buildings.

The NWIRP conducts final assembly and testing, flight testing, refitting, and retrofitting of various military aircraft, including the F-14, A6A and Ea6B models. Heavy manufacturing is not done at the NWIRP. Most aircraft fabrication and primary assembly is conducted at the Grumman plant in nearby Bethpage, New York; then the parts are sent to the NWIRP, Calverton for final assembly and testing. The NWIRP presently employs 2600 people but this fluctuates with production needs.

The NWIRP is relatively well isolated with only very small areas of density housing located at the northwest and northeast sides of the site perimeter.

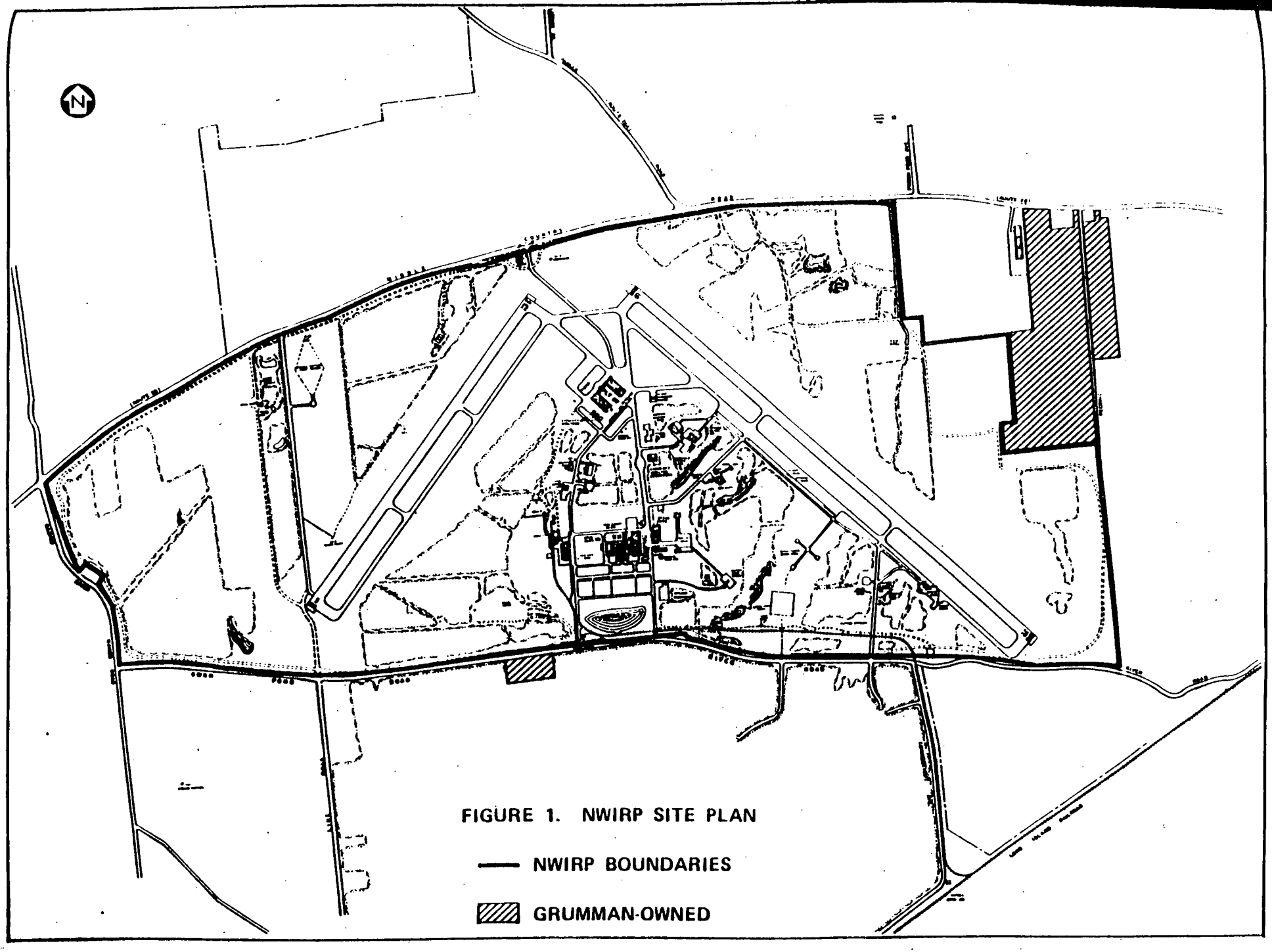



FIGURE 1. NWIRP SITE PLAN

DEPARTMENT OF THE NAVY
NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
10 INDUSTRIAL HIGHWAY
MAIL STOP, #82
LESTER, PA 19113-2090

Helen - Do we need this for any more for site assment?

IN REPLY REFER TO
5090
Ser 2469/1821/JLC

Mary Logan has these
File
Files on Chrostier (RCRA)

MAY 0 1 1995

Bob 5/2

**MEMORANDUM**

**FOR THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE (TRC) FOR THE INSTALLATION RESTORATION PROGRAM AT NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) CALVERTON, NEW YORK**

Enclosed is the Navy's Draft RCRA Facility Investigation (RFI) for NWIRP Calverton, NY. Please review the document and forward any comments in writing on or before June 9, 1995.

The purpose of the RFI was to investigate four sites to determine the nature and extent of soil and groundwater contamination. The four sites investigated were Site 1 - Northeast Pond Disposal Area; Site 2 - Fire Training Area; Site 6A - Old Fuel Calibration Area and; Site 7 - Fuel Depot.

Please note that upon finalization of the RFI Report, only Volume I will be submitted. Therefore, you are asked to retain the draft versions of Volumes II through V as these will eventually become the final appendices to the RFI Report. If changes to the appendices are required, only those affected pages will be sent to you.

If you have any questions or would like additional information, please feel free to call me at (610) 595-0567, extension 163. If you would like to fax your comments, my fax number is (610) 595-0555.

Thank you for your continued interest and participation in NWIRP Calverton's IR program.

Sincerely,

James L. Colter

JAMES L. COLTER
Remedial Project Manager
by direction of the Commanding Officer

Distribution:
DLA/DPRO, Abe Kern (2 copies)
Grumman Aerospace Corporation, John Ohlmann
Geraghty and Miller, Carlo San Giovanni
Suffolk County Department of Health, James Pim (2 copies)
Naval Air Systems Command, Robert Booth (2 copies)
NYSDEC, Jeff McCullough (3 copies)
NYS Department of Health, Tim Vickerson
EPA Region II, Carol Stein (2 copies)
EPA Region II, Mary Logan (2 copies)
The Nature Conservancy, Marilyn Jordan
The Nature Conservance, Stuart Lowrie
Town of Riverhead, Andrea Lohneiss
National Response Corporation, Mark Miller

C. FACILITY USE CONTRACT

Grumman, Calverton has facility use contract number N0019-69-L-9057. The contract series expiring on 31 March 1984, consists of three five-year contracts originally negotiated in 1969. The contract periods run sequentially for a total of 15 years before renegotiation. The second five-year period of the lease expires 31 March 1979. GAC is expected to exercise the option to rene the lease for the third five-year period which will expire 31 March 1984.. The points of contact within the Naval Air Systems Command (NAVAIR), the major claimant, are as follows:

1. For contractual matters - Mr. John Desloge
   Code AIR-21533D
   Naval Air Systems Command
   Department of the Navy
   Washington, D.C. 20361
   202-692-7560

2. For facilities matters - Mr. Larry DeAtley
   Naval Weapons Engineering Support Activity
   Building 220
   Code ESA 208
   Washington Navy Yard
   Washington, D.C. 20374
   202-433-3340

The contract does not specify which party is responsible for obtaining and insuring compliance with pollution-related permits (NPDES, etc.). The methods for ascertaining and funding both energy conservation and environmental protection needs are twofold. First, the contract stipulates that approved long-term maintenance projects and environmental quality control projects are to be funded by Grumman in lieu of rent payments. Second, any requirement for project-funding in excess of rental fees normally assessed Grumman would be submitted to NAVAIR in an annual capital maintenance or facilities acquisition program proposal.

NOTE: NAVWESA comments dated 28 December 1976 in letter ESA-6511 state that: Lease N00019-69-L-9057 authorizes use of the NWIRP on a rent-free basis in performance of work for the government but does require the payment of rent for performance of commercial work. As consideration for use of the NWIRP during the second five-year period, Grumman is obligated to an average annual expenditure of $1,300,000 for long-term maintenance. Grumman may spend more than this amount. NAVAIR has no funding responsibility for any long-term maintenance; Capital maintenance is not mentioned in the lease.

D. PROBLEMS

Survey of the NWIRP indicated a clean, well-maintained facility. In the light of pollution control and energy conservation achievement goals, several potential and existing problem areas have been identified. It should be noted that these problems were identified primarily on the basis of a brief visual inspection, and that energy related issues need further economic analysis to determine their merit on the basis of cost benefit.

Environmental:

1. Determine the feasibility of installing automatic switching devices on the emergency electrical supply for wells. This also should be considered for wells constructed in the future.
2. Determine the feasibility of dewatering sludge from the on-site wastewater treatment plant before removal to Grumman, Bethpage.
3. Determine the feasibility of oil/water separation of storm water discharge to McKay Lake.
4. Determine feasibility of installing both an impervious, diked surface and controls to eliminate potential contaminated runoff due to fuel spills at the outdoor fuel calibration facility.
5. Provide more efficient air pollution controls at paint facilities - either by redesigning or replacing the existing facilities.
6. Determine the feasibility of installing spill containment devices around the transformers filled with PCB-based coolant.
7. Determine the feasibility of writing an Oil Spill Prevention Control and Countermeasures (SPCC) Plan.
8. Provide industrial wastewater treatment to eliminate hauling of industrial wastes to Bethpage.

Energy:

1. Paint facility extension
2. Warehouse S-7 lighting reduction
3. Hangar lighting reduction in summer
4. Reduction of lighting in receiving areas
5. Oil storage
6. Heat exchange opportunities - boilers, boiler blowdown, compressor cooling water, incinerator
7. Energy usage contingency plan - formal documentation

APPENDIX A

ENVIRONMENTAL

## 1. ENVIRONMENTAL LAWS AND REGULATIONS

Executive Order 11752 identifies specific federal laws applicable to environmental pollution control. The federal laws cited in this order, as well as other pertinent federal laws, are listed in Table A-1. The Executive order identified those control subjects in these laws which are pertinent to GOCO activites. It also specifies the subsequent levels of regulations which are relevant. Compliance with all applicable federal regulations is required.

For the laws not listed in the Executive order, the control subjects and level of regulation identified in Table A-1 are derived from current information available to NESO.

Federal, state, and local regulatory agencies have translated the requirements of the federal laws into a large number of regulations. In most cases, these regulations are site-specific; that is, the regulations applicable to a given GOCO will depend on the location, types of sources and processes, and the kinds of pollution generated. The wide variety of total regulations applicable to the GOCO activities is not amenable to a short summary.

The National Environmental Policy Act (NEPA), an overriding law relating to all future actions which may have environmental significance, is implicitly understood to be applicable to each of the environmental/pollution categories discussed in this report.

Regulation Sources:

Federal regulations are cited in a standard format which refers to the Code of Federal Regulations (CFR). The first number refers to a Title. Most of the federal regulations applicable to the GOCO are under Title 40, Protection of the Environment. The second number designates the section within the Title in which the specific regulation is found. All proposed and adopted regulations and subsequent changes are published daily in the Federal Register by the National Archives and Records Service of the General Services Administration.

TABLE A-1

Applicable Environmental Laws and Regulations

| Acronym | Public Law | Title | Control Subject | Applicable Regulations |
|---|---|---|---|---|
| FWPCA | PL92-500 | Federal Water Pollution Control Act | Effluent limits, Water quality standards, Discharges to sewers | Federal, State, Local |
| SDWA | PL93-523 | Safe Drinking Water Act | Potable water treatment and distribution | Federal, State |
| CAA | PL91-604 | Clean Air Act | Air emission limits, Air quality standards | Federal, State, Local |
| MPRSA | PL92-532 | Marine Protection Research and Sanctuaries Act | Ocean dumping | Federal only |
| RHA | N/A | Rivers and Harbors Act | Dredge permits | Federal only |
| SWDA | PL89-272 | Solid Waste Disposal Act | Recovery, collection, storage, separation, disposal of solid wastes | Federal only |
| RRA | PL91-512 | Resource Recovery Act | Recovery, collection, storage, separation, disposal of solid wastes | Federal, State |
| NCA | PL92-574 | Noise Control Act | Noise emission standards | Federal only |
| FEPCA | PL92-516 | Federal Environmental Pesticides Control Act | Manufacture, transportation, purchase, use, storage, disposal | Federal |
| NEPA | PL91-190 | National Environmental Policy Act | Planning | Federal |
| CZMA | PL92-583 | Coastal Zone Management Act | Planning | Federal, State |

Most Stringent Requirements:

Since a GOCO activity is required to comply with substantive standards set by different levels of authority, it is assumed that compliance with the most stringent regulation will satisfy the needs of all authorities. Therefore, this status report identifies only the most stringent applicable regulation.

2. MAJOR FINDINGS

a. WATER QUALITY

Water quality at the NWIRP facility involves potable and process water, and industrial and sanitary wastewater.

The principal applicable law is the Federal Water Pollution Control Act of 1972 (FWPCA). The Safe Drinking Water Act (SDWA) has limited application. Wastewaters discharged directly to surface waterways must be under permit as issued by EPA and monitored in accordance with the National Pollutant Discharge Elimination System (NPDES) as authorized under Section 402 of the FWPCA. Wastewaters discharged to municipal treatment systems must comply with the limits, prohibitions, and pretreatment requirements established by the local ordinances.

Point source discharges to municipal treatment plants are exempt from NPDES permits; however, the FWPCA prohibits the discharge of pollutants that cannot be effectively removed at the treatment plant.

1. Potable/Process Water

All potable, process and fire protection water used by the NWIRP is supplied by three 12 inch diameter, 145 feet deep wells, located on site, northeast of the steam plant. The wells have a 1000 gallon per minute (gpm) pumping capacity and 75 horsepower motors for driving the submersible pumps. Presently, only one well has emergency power, and the switchover to that system is accomplished manually. Due to the distance between the wells and the work place (i.e., the sewage treatment plant) of the person responsible for the water supply, it is recommended that automatic switching devices be installed on existing wells and wells to be constructed in the future. In an emergency, automatic controls would ensure the continued pumping of water without interruption of service.

The wells are more than adequately isolated and of approved construction. A project (#CF 9096-059-187), with estimated completion by 1977, is presently unc way to eliminate cross connections between water and process lines.

With the exception of water used for boilers, raw incoming water is not treat Boiler feed water is treated by automatic feed with proprietary chemicals obtaine from the Dearborn Chemical Company, Ridgewood, New Jersey. Although the additive are coded, it is believed to be an acid-caustic treatment process.

Air conditioning units presently consume the largest amount of water.

Water storage facilities are as follows:

One, 50,000 gallon domestic reserve plus one 100,000 gallon fire reserve in an overhead tank. This tank is regulated by automatic pump controls located at two foot height intervals. The designed head is 150 feet.

Two, 350,000 gallon fire reserve tanks each located on the ground and filled by manual control.

Presently there are no significant problems with the quality or quantity of water supplied to the NWIRP. Future projects proposed to date are associated with the replacement of one of the wells.

2. Wastewater

The NWIRP has four methods for disposal of wastewater generated at this facility. All industrial wastewater from stripping processes, paint spraying facilities and other small activities is transferred to the Grumman Aerospace Corporation (GAC), Bethpage industrial wastewater treatment plant via GAC tank trucks. The major constituent of the waste is rinse water from cleaning, stripping and brush Alodine operations and small quantities of water containing epoxy, polyarethane and paint deflocculants from paint spraying facilities.

At GAC Calverton, an extended aeration activated sludge facility with a capacity of 0.062 million gallons per day (MGD) receives all sanitary wastes with the exception of wastes generated at the few auxilliary buildings that are served by septic tanks. The activated sludge system is operated under permit #NY 0025453 and has an average flow of 0.0229 MGD and a biochemical oxygen demand (BOD) of 49.7 pounds per day influent and 3.5 pounds per day effluent. Raw, underwatered sludge from this system is removed to GAC Bethpage by GAC trucks. It is recommended that the feasibility of dewatering the

sludge before removal to Bethpage be determined due to the economical inefficiency of hauling un-dewatered sludge. The volume of sludge transported can be lowered by 30-50 percent with efficient dewatering. This also would relieve the Bethpage facility of having to dewater sludge from the NWIRP.

Various outbuildings such as flight buildings, storage and test buildings are equipped with septic tanks. The systems are in sandy, well drained soil and are functioning normally.

On 31 May 1974, the Environmental Protection Agency (EPA) issued GAC an NPDES permit for the treated discharge from the NWIRP extended aeration wastewater treatment plant (WWTP). The permit has the following specifications:

Permit #NY 0025453

Issued by Permits Administration Branch, EPA Region II

Receiving Waters - Peconic River

Permit expiration - 31 May 1979

The discharge limitations are as follows:

| Discharge Load Allocations | $BOD_5$ | Suspended Solids |
|---|---|---|
| 30 day average | | |
| lb/day | 15 | 15 |
| kg/day | 6.8 | 6.8 |
| 7 day average | | |
| lb/day | 23.3 | 23.3 |
| kg/day | 10.6 | 10.6 |
| Discharge Concentrations | | |
| 30 day average (mg/L) | 30 | 30 |
| 7 day average (mg/L) | 45 | 45 |
| Minimum % Removal | 85% | 85% |

total flow - 0.062 million gallons per day

fecal coliform bacteria - not more than 200 bacteria per 100 milliliters geometric mean value in 30 consecutive days and not more than 400 bacteria per 100 milliliters geometric mean value in 7 consecutive days

pH - 6.0-9.0

Floating solids or visible foam - none allowed

The monitoring requirements are as follows:

| Parameter | Minimum Monitoring Requirements 1/ Measurement Frequency | Sample Type |
|---|---|---|
| Total Flow, mgd 2/ | Daily | Instantaneous |
| $BOD_5$, mg/l | 4/yr | Grab |
| $BOD_5$, lbs/day | 4/yr | Grab |
| Settleable Solids, ml/l | Daily | Grab |
| Suspended Solids, mg/l | 4/yr | Grab |
| Suspended Solids, lbs/day | 4/yr | Grab |
| Residual Chlorine, mg/l 2/ | Daily | Grab |
| Fecal Coliform, N per 100 ml 2/ | 4/yr | Grab |
| pH | Daily | Grab |

1/ Except where indicated, influent and effluent measurement and testing are required

2/ Only effluent testing required

According to the specifications of the permit, the permit expires on 31 May 1979. At least 180 days prior to the expiration date, appropriate forms will have to be filed and fees paid to request a renewal of the permit.

The NWIRP is beginning a project of constructing a temporary prototype industrial wastewater treatment plant to provide the parameters for disposal of paint shop wastes and thereby alleviate the problem of hauling wastes to Bethpage. This plant is still in preliminary planning stages, but contact with the United States Environmental Protection Agency Region II has expedited a modification to the existing permit (NY 0025453) in a letter dated 9 November 1976. This letter details parameters to be followed which includes:

a. Limitations on concentration of wastes prior to mixing with sanitary wastewater

| | 30 day Average (mg/L) | 1 day Maximum (mg/L) |
|---|---|---|
| Hexavalent Chromium | 0.05 | 0.1 |
| Chromium Total | 0.5 | 1.0 |
| Flouride | 10.0 | 20.0 |
| Iron | 1.0 | 2.0 |
| Cyanide | 0.5 | 1.0 |
| Phenols | 5.0 | 10.0 |
| BOD | Monitored without limitation | |
| Suspended Solids | Monitored without limitation | |

GAC plans to utilize a process that will effectively destroy phenols by oxidation, reduce chromium, and precipitate heavy metals to meet allowable limits. Because effective treatment of the metals is not anticipated by the sanitary system, these pretreatment values are the final limitations.

A two-stage monitoring analysis must be initiated in order to avoid the 7:1 dilution ratio experienced by combining the industrial and sanitary wastes. The metal concentrations must be monitored before dilution in order to achieve adequate concentration removals.

In addition to the present NPDES effluent parameter limitations, the following parameters must also be monitored:

| | 30 day Average (mg/l) | 1 day Maximum (mg/l) |
|---|---|---|
| Phenols | 0.5 | 1.0 |
| Methylene Blue Active Substances | 5.0 | 10.0 |
| Phosphates | 5.0 | 10.0 |
| pH (STD Units) | 6.0 (min) | 9.0 (max) |
| BOD (as previously limited) | 30.0 | 45.0 |
| Suspended Solid (as previously limited) | 30.0 | 45.0 |
| COD | Monitored without limitation | |
| Total Dissolved Solids | Monitored without limitation | |
| Settleable Solids (as previously limited) | Monitored without limitation | |

Finally, all additional parameters will be sampled on the quarterly cycle, as previously required. The daily parameters (Flow, pH, Settleable Solids, Temperature and Residual Chlorine) will remain on the same cycle.

The trial plant will be located east of plant #6 in an area used many years ago for a sewage treatment plant which is presently inactive. A 32 ft. by 50 ft. concrete slab with roof will house four Gatch treatment tanks with associated pumps and piping. Industrial waste will be trucked to the trial facility for pretreatment and discharged into the existing central sewage treatment facility. Any processing of wastes through the initial stages of the prototype process that does not meet the above standards will be hauled as before to the Bethpage facility until the process has been perfected and finalized. Since most of the heavily polluted industrial wastewaters generated in the Grumman aircraft manufacturing process occurs at Bethpage, this waste will not be extremely concentrated.

The NWIRP storm water system discharges non-contact cooling water and storm water through a ditch and culvert system to McKay Lake which in turn empties into Peconic River. The storm system also picks up drainage from many concrete and asphalt paved areas where oil spills could occur. It is recommended that the feasibility be determined of installing an oil/water separator at the discharge point in order to prevent such spilled contaminants from being washed into the lake.

It is calculated that one million gallons of water per day are used for once-through cooling. The NWIRP is presently in the process of upgrading these systems by eliminating once-through cooling wherever feasible. Although this water does not pass through the sewerage system, there are definite

thermal qualities that may be transmitted to McKay Lake. These thermal properties are not presently causing visible signs of eutrophication in the lake, but will aid in speeding the eutrophication process if left uncontrolled. The reduction of once-through cooling will also reduce the demand for fresh water intake which will result in ground water conservation.

The outdoor fuel calibration and fuel removal facilities are involved with the storage and transfer of aircraft fuels. Presently these facilities are located in an area where the ground is subject to seepage and storm runoff into a natural drain. It is recommended that the feasibility be determined of constructing a diked, impervious service for this operation in order to protect the surface waters from contamination.

Beyond the problems discussed, the NWIRP appears to have no other water quality or wastewater problems.

b. AIR QUALITY

The Clean Air Act Amendments of 1970 (PL 91-604) and subsequent amendments are the principal federal law having an impact on air quality at NWIRP. Under this legislation, the country is divided into air quality control regions (AQCR). Each state then has the primary responsibility for assuring air quality within its borders and must submit an implementation plan specifying how the national primary and secondary ambient air quality standards will be maintained within each AQCR.

The NWIRP is under the jurisdiction of the New York State Department of Environmental Conservation. New York has various regulations limiting the types and amounts of pollutants that can be discharged into the air. The two most notable pollutants are particulates and oxides of sulfur. The need for air pollution control devices will depend upon the type and amount of a pollutant produced and the capacity or size of the source.

The State has various regulations limiting the types and amounts of pollutants that can be discharged to the air. Regulations are classified into three sections pertaining to process sources (such as industries), boilers and incinerators. The allowable pollutant loading from any source is based on several factors, including the nature and quantity of the pollutant, the

geographical location, the ambient air quality, and the applicable National and State ambient air quality regulations. The State reviews each source in the light of these factors and issues the required "certificate to operate" which stipulates the type of pollution controls needed and the pollutant loading limitations. Every three years dischargers must submit a certificate renewal application listing changes to the emission sources. The State Air Pollution Control Office reviews the permit applications and uses the information to determine the need for pollution control devices.

The NWIRP has no air pollution control devices on boiler stacks. The emission is tightly regulated by the strict use of low sulfur #6 oil. This widely used method not only has been economically feasible in the past, but also has satisfied the requirements of the State. It should be noted that any change in fuel and/or sulfur content of fuel must be cleared through the State and may result in the requirement of sulfur oxide removal devices.

The following is a list of exhausts and air pollution control devices for which the NWIRP has operation certificates:

| Number of Exhausts | Source | Pollution Controls |
|---|---|---|
| 3 | Paint Spray | Spray Towers |
| 1 | Exhaust Paint Room | None |
| 2 | Wood, Masonite, Micarta, Plastics | Cyclonic separator |
| 3 | #6 oil-fired boilers | None |
| 1 | Incinerator | Venturi scrubber |

Note that all the facility exhaust stacks have certificates. These certificates specify the allowable pollutant loading for each exhaust. Personnel indicated that to date the facility is in compliance with the limitations of all the certificates.

The NWIRP is located in an area that is closely surveyed by air pollution control authorities. Of all the environmental regulations that impact the NWIRP, air quality may be the most highly controlled, mainly due to its proximity to New York City.

Problems:

The paint spraying facilities, although marginally meeting air pollution requirements, are in poor repair and have suffered from many mechanical and energy-related problems. Due to the increased surveillance that can be expected in the future in the field of air quality monitoring and the aforementioned conditions, it is recommended that consideration be given to upgrading or replacing the present facilities.

Outdoor tests are conducted at the NWIRP and are limited primarily to jet engine runup testing and some aircraft overflights. These test facilities are not equipped with air pollution controls. Two problems are encountered in attempting to control these exhaust emissions. First, "state-of-the-art" in air pollution control has not advanced to the point of providing feasible controls for such test facilities, and second, the military is quite reluctant to allow fuel additives for controlling emissions, particularly when the fuel is used for test procedures. Presently, this pollution problem is not serious, primarily because of the remote location of the NWIRP. When the surrounding area becomes more developed, this situation may change.

There are no other known problems with air quality at the NWIRP and there are no other planned projects.

c. SOLID WASTE

The Solid-Waste Disposal Act (SWDA) is the federal law governing solid-waste disposal on land and resource recovery. Federal regulations on disposal methods have also been promulgated. Under the Resource Recovery Act of 1970, solid waste management and resource recovery systems are to preserve and enhance the quality of air, water, and land resources.

Solid waste generated at the NWIRP consists primarily of general office trash, some wood (from crates, skids, etc.) and a very small amount of metal scrap. Personnel could not provide data indicating the amounts of waste produced; however, there are no manufacturing processes to generate large volumes of waste.

All solid waste, with the exception of classified material, is taken to the Riverhead Municipal Landfill by Jackson Trucking of Huntington Station, Long

Island. Jackson Trucking is licensed by both the State and by Suffolk County. The NWIRP does not have a program for separating wastes for reclamation and recycling.

With the exception of classified waste destruction, there is no other on-site disposal of solid wastes. Classified material is destroyed as needed at the NWIRP incinerator. As previously indicated, this facility has a Venturi Scrubber to control emissions.

The present dumpster-compactor system has presented no known environmental problems. There are no planned projects for improvements or changes to the present collection and disposal system.

d. NOISE

The Noise Control Act of 1972 (PL 92-574) directs federal agencies to execute programs for abating noise which jeopardizes health and welfare. Any federal agency engaged in activities resulting in noise emission must comply with Federal, state, interstate, and local requirements respecting control and abatement of environmental noise.

Environmental noise problems are encountered at the NWIRP primarily because of the outdoor flight testing of aircraft and the static testing of aircraft engines. Engine testing is done in an area that provides natural isolation from other operations and the public. The area encompassing the line of engine blast from the testing facilities to the facility property line is heavily wooded, thereby providing extensive natural protection.

On the other hand, flight testing is conducted from the two NWIRP runways (10,000 and 7,000 feet in length) but goes beyond the boundaries of the facility to impact area residents. As a result of previous complaints, the plant has stopped night flying except in rare cases where it is mandatory. Flight paths have been studied and where possible adjusted to minimize impacts on the area residents. R. Dixon Speas Associates, Inc. conducted an Air Installation Compatible Use Zone Study, published in December, 1975. They summarized the problem and proposed remedial actions, centering on the fact that isolation was the best means of noise control. The report suggested that such isolation be accomplished both through cooperation with local government officials to retard the future population growth of the surrounding area, and

through maintenance of a good rapport with affected residents. It should be noted that this is the most recent in a number of noise studies to determine methods of noise control and impact reduction. Most studies approach the situation from a sociological standpoint rather than a technological standpoint, understanding that "state-of-the-art" has not advanced to the point of feasibly reducing noise levels from high performance military aircraft in flight. GAC has also submitted a proposal for construction of a "hush-house". This is a mechanical device to reduce atmospheric noise levels during outdoor testing.

There are no other known significant noise problems associated with the NWIRP.

e. HAZARDOUS MATERIALS

The FWPCA of 1972 addresses the pollution of waters by hazardous substances. This law provides for the establishment of effluent, prohibition and pretreatment standards to which source operators must conform. This law also provides for standards governing the level of pollutants allowed to be discharged to municipal treatment works. Hazardous substance and oil spill prevention and accidental oil spill reporting and cleanup regulations also exist under the FWPCA. Hazardous emissions to the atmosphere are regulated under the Clean Air Act.

Numerous hazardous materials including methylethyl ketone (MEK), paints, phenolics, and degreasers such as Ridolene 53 and Alodine, are routinely used at the NWIRP. As needed, these materials are transported in the metal drums and plastic carboys from GAC Bethpage, via GAC-owned trucks, to the NWIRP. At Calverton, some materials are stored in a small unprotected outdoor area while others are stored as needed at an indoor location that affords protection from the elements. A building located between the two paint shops is utilized for the storage of paints and solvents. This area is well protected and ventilated. It also has proper static grounding facilities as needed and no floor drains.

There is no disposal of hazardous materials at the NWIRP. Spent chemicals are captured in sumps and removed in barrels or by bulk transportation to GAC Bethpage and either treated, taken to New Jersey for disposal, or cleaned and/or regenerated.

There is no spill prevention control and countermeasures (SPCC) plan at the NWIRP. It is recommended that the feasibility of writing such a plan be

determined in light of future expectations concerning increased agency activity in this area.

The NWIRP maintains ten electrical transformers that contain highly toxic polychlorinated biphenyl (PCB)-based compounds as the coolant. The location, type of transformer, and estimated amount of coolant in these units are as follows:

| Number of Transformers | Manufacturer of unit | Location of Unit | Estimated Quantity (gallons) in each Transformer | PCB Trade name |
|---|---|---|---|---|
| 4 | Niagara | N.E. Corner of Plant #7 | 172 | Askarel |
| 1 | Westinghouse | Electrical Equip. Room, Plant #7 | 93 | Inerteen |
| 1 | Westinghouse | Power Center, Bldg. #6 | 400 | Inerteen |
| 1 | Westinghouse | Fuel Calibration Facility | 128 | Inerteen |
| 1 | Westinghouse | Old Trust Stand Area | 126 | Inerteen |
| 1 | Westinghouse | Engine Test House | 274 | Inerteen |
| 1 | General Elec. | Anechoic Test Chamber | 320 | Pyranol |

Most of these transformers are situated on concrete pads surrounded by gravel and have no spill containment structures.

It is recommended that a determination be made for providing spill containment devices such as diking and impermeable surfaces, for all these transformers having PCB-based coolants in order to eliminate potential contamination of surface waters and area resources.

The NWIRP presently conducts approximately six fire fighting training exercises per year at a site with a diked, concrete pad. The final procedure in this exercise is to completely burn off any excess fuel. Jet gas, paint solvents, oils, gasoline and greases are included in the choice of fuels for

the particular sessions. Prior to conducting a session, personnel are required to obtain permits from the air pollution control agency and the fire department.

With the exception of the problems indicated, there appear to be no other problems with, or planned changes to, the hazardous materials handling and disposal system.

f. PESTICIDES

The Federal Environmental Pesticides Control Act of 1972 (PL 92-516), which includes the Federal Insecticide, Fungicide, and Rodenticide Act, provides for the control of pollution by pesticides. Authority for regulation of pesticide storage and disposal is established under this law. Open dumping and burning and disposal into water and deep wells is prohibited. Certification of applicators is also established.

Pesticides and herbicides are not stored at the NWIRP nor used on-site by plant personnel. Harder Extermination Service, a private, licensed, pest control operation, provides termite and rodent control on a contractual basis.

g. NON-IONIZING ELECTROMAGNETIC RADIATION AND IONIZING RADIATION

The Nuclear Regulatory Commission (NCR) (formerly the Atomic Energy Commission) and the EPA direct policy for protecting the environment from radioactive materials. Regulations pursuant to the federal Occupational Safety and Health Act (OSHA) establish exposure limits for health and safety from radiation.

Radar facilities for the tracking of test aircraft are maintained at the NWIRP. The necessary Federal Communications Commission (FCC) frequency permits and registrations are on file. Radar units on aircraft are tested periodically. The procedure used to protect the surrounding area is to maintain sufficient isolation and use dummy loads.

The facility also operates an anechoic test chamber for complete radiation testing of all avionics contained in production, test, and prototype aircraft. Stringent requirements are met at this unique testing facility to eliminate

external radiation and ensure complete protection from internal radiation leakages. Protection is accomplished through the use of a hermetically sealed chamber of sufficient size to house and suspend the entire aircraft for testing purposes.

Presently there are no known problems with these radar facilities and no planned alterations.

h. OIL SPILLS

Preventive regulations under the Federal Water Pollution Control Act of 1972 (PL 92-500) have been established to significantly reduce the incidence of oil discharges. Intentional discharges of oil or oily wastewater are prohibited by the FWPCA. Nontransportation-related regulations are principally applicable to the storage of fuel that could reasonably be expected to enter a waterway if accidentally spilled. A significant requirement under current legislation is the preparation and implementation of a Spill Prevention Control and Countermeasures (SPCC) Plan.

Oil and various fuels are stored at several locations throughout the NWIRP. The major facilities are as follows:

| Number of Tanks | Capacity of Each Tank (gallons) | Contents | Location |
|---|---|---|---|
| 1 | 250,000 | #6 Fuel Oil | Above Ground - (diked) Central Steam Plant |
| 2 | 50,000 | JP-4/JP-5 | Underground - Fuel Storage Area |
| 6 | 15,000 | Aircraft Fuels | Underground - Fuel Storage Area |
| 1 | 5,000 | Gasoline | Underground - Fuel Storage Area |
| 7 | 275 | Diesel | Above Ground (undiked) with emergency generators |

Absorbant materials are on hand to clean up spilled oil and fuels, but there are no documented formal procedures or assigned responsible personnel for handling spills.

The NWIRP does not have a Spill Prevention Control and Countermeasures (SPCC) Plan. It is recommended that provisions be made for writing an SPCC plan to document both the fuel tank inventory and the necessary procedures for handling a spill.

To date there are no records of significant oil or fuel spills.

i. ALL-MEDIA TRAINING

Most of the legislation cited in the preceding sections has either a direct or implied requirement for the training of personnel in environmental control. The FWPCA requires waste treatment plants to provide a minimum of secondary treatment. The SDWA establishes potable water treatment requirements. Resources recycling and recovery, plus oil spill cleanup and prevention all require new or special equipment and procedures. Toxic and hazardous substances also require special handling. Pesticide applicators must be certified. In all cases, operators must be trained to properly handle routine work and emergencies.

Presently, the NWIRP has established formal training for plant personnel. New personnel are instructed in the use of chemicals and other materials by supervisors or more experienced personnel.

j. REGULATORY AGENCIES

The following Federal, State and Local agencies impact the NWIRP:

1. Suffolk County Department of Environmental Control
   1324 Motor Parkway
   Hauppauge, New York 11787
2. Suffolk County Department of Health
   Suffolk County Center
   Riverhead, New York 11901

3. State of New York
   Department of Environmental Conservation
   Region I
   New York S/EC Building #40
   SUNY
   Stony Brook, New York 11790
4. State of New York
   Department of Environmental Conservation
   50 Woff Road
   Albany, New York 12233
5. U. S. Environmental Protection Agency
   Region II
   26 Federal Plaza
   New York, New York 10007

k. POLLUTION CONTROL/ABATEMENT PROJECTS

GAC, through the NAVPRO, submits proposals annually to NAVAIR for approval and funding of necessary pollution control projects. Proposals through LY 1976 and an eight year Long Term Maintenance Program for LY 1976-78 have been submitted. Some of these proposals include environmentally related projects. Refer to LTM LY 1976-83 for environmental projects, line items 20, 26, 31, 32, 34, 41 and 44.

# APPENDIX B

## SELECTED GRUMMAN FACILITY ENGINEERING SPILL RECORDS

## 1982-1985

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date 9/7/82
No. FDP-1378

From: J. Ohlmann — B08/30 — 296 — GAC
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: WASTE FUEL SPILL AT FIRE TRAINING FACILITY, CALVERTON, 8/24/82

Reported subject spill at 1:10 P.M. on 8/24/82 to the N. Y. S. Dept. of Transportation (NYSDOT) in Albany (516-457-7362), as required.

- o Description of facility and action taken - Given to NYSDOT.
  - 6,000 gallon holding tank piped to various diked areas for fire simulation and fire fighting.
  - Valve found open and 1,000 - 3,000 gallons spilled.
  - GAC cleaning up liquid now.
  - We will contact Marine Pollution Control for clean-up assistance.
- o Given Spill No. 820923 by NYSDOT.
- o Also reported spill to John Scherrer of NYSDOT in the Hauppauge office.

  Note: N.Y.D. Dept. of Environmental Conservation (NYSDEC) and Suffolk County Dept. of Health Services (SCDHS) contacted by NYSDOT.
- o Notified Bill Miller of Navy regarding spill.
- o 3:00 P.M.:
  - Arrived at the spill site.
  - Marine Pollution Control on the job, sucking up liquid.
  - John Scherrer (NYSDOT) and Jim Whitney (SCDHS) also at the site.
- o Two contaminated dirt samples taken for GAC lab analysis. Test results required for NYSDEC and Brookhaven Landfill.
- o Approximately 1,500 gallons of liquid removed by Marine Pollution Control.
- o Valve locked - Future fire training put "on hold" for future facility upgrade.

8/25/82:

- o Authorities/Marine Pollution Control agree to hold off clean up today because of rain.
- o Parameters for leachate analysis given by phone by Walter Parish, NYSDEC.

cc: T. Cunniffe
R. Yezek

G116B REV. 8
11-81

GRUMMAN

MEMORANDUM

CHECK (✓) BOXES AS APPROPRIATE

ACTION ..... ☐
INFO ONLY ..... ☐
REPLY REQUESTED... ☐

FROM: J. Ohlmann | Facil. Engg. | B08/30 GAC
NAME | GROUP NO. & NAME | MAIL STA.-PLT. NO.-COMPANY-EXT.

DATE February 23, 198

TO: File

NO. FDP-1243

SUBJECT: FUEL SPILL ON THE GROUND AT THE ENGINE TEST HOUSE FACILITY, CALVERTON, ON 2/9/82

While testing a engine, a cross-over valve was inadvertently left open and JP4 was returned to the JP5 tank, which overflowed through the vent line.

The spill was vacuumed up by GAC personnel and "Speedy-Dry" was applied as an absorbent.

On 2/10/82, the spill of 100 - 200 gallons was reported to the N. Y. S. Dept. of Transportation (NYSDOT) in Albany and number 811-655 was assigned. NYSDOT in Hauppauge (John Scherer) and Suffolk County Dept. of Health Services (SCDHS) (Jim Pim) was also notified. It should be noted that N. Y. S. Dept. of Environmental Conservation is automatically informed of spills by NYSDOT (Albany).

On 2/11/82, SCDHS (James Whitney) inspected fuel spill and recommended clean-up of soil by Marine Pollution Control as planned.

On 2/12/82, Marine Pollution Control was retained for clean-up of soil. NYSDOT (Bill Norvac) inspected and supervised clean-up.

On 2/13/82, contaminated soil was trucked to Brookhaven landfill.

On 2/16/82, NYSDOT (Bill Norvac) made final inspection and closed out job.

JO:gms
cc: P. Ferrone



3116B REV 7
200M

9/3/82:

- Kost sampled the surface water from the four test wells. His report will state "found no product floating".
- He will continue to monitor in the future, as he said he found Well #2 had little globules and the water had a sewer odor or tinge. Well #3 also had a little sewer odor. Wells #1 and #4 were O.K.
- Kost also requested that the road be scraped (6" cut) in the area of the spill).
- Contacted Marine Pollution Control to come back for road clean-up.

9/7/82:

- Marine Pollution Control finished road clean-up job and removed 100 yards contaminated soil to Brookhaven Landfill.

JO:gms
Attachments (2)

8/25/82: (continued)

- Two soil samples given to Q.C. Lab. (Lab. #30317) with parameters for leachate analysis.
- Bill Miller called - Provided answers to questions for his spill report to NAVAIR and Federal EPA Regional Office. (See lettergram INE-8, dated 8/30/82, from NAVPRO to NAVAIR.)

8/26/82:

- D. Kost and J. Scherrer (NYSDOT) and Walter Parish and George Schilpp (NYSDEC) on site.
- Contaminated soil being stockpiled until lab results are complete.
- Fire fighting diked area being cleaned - stones being removed from moot area - waste fuel put back in holding tank - fuel/water trucked to separator for treatment.

8/27/82:

- Phoned Parish (NYSDEC) with test results of leachate analysis (see letter from J. Ohlmann to W. Parish, dated 9/7/82) - NYSDEC approval given. I phoned Jim Hile, Brookhaven Landfill - approval also given.
- Marine Pollution Control clean-up almost complete - removal of contaminated soil around storage tank to be included.
- Soil sample taken with a hand auger, about 7 ft. down, at a point 6 ft. north of northwest corner of the main diked area.
  - Because soil sample had smell (not really detectable - decay?), four test wells requested.

    Note: Parish took a sample of the soil.

8/30/82:

- Test wells completed (see sketch for location).
- Kost inspected - not happy with glue fittings, had requested threaded. O.K.
- Clean-up complete. Some material sent to Brookhaven Landfill.

8/31/82:

- Marine Pollution Control removed 227 yards today - all clean-up completed - (included 3 drums of liquid) - per Dave Miller, Supervisor.

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date March 8, 1983
No. FDP-71-383

From: J. Ohlmann — B08/30 — 296 — GAC — 2385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: FUEL SPILL ON PAD AT THE ENGINE RUN-UP AREA IN CALVERTON ON FEBRUARY 24, 1983

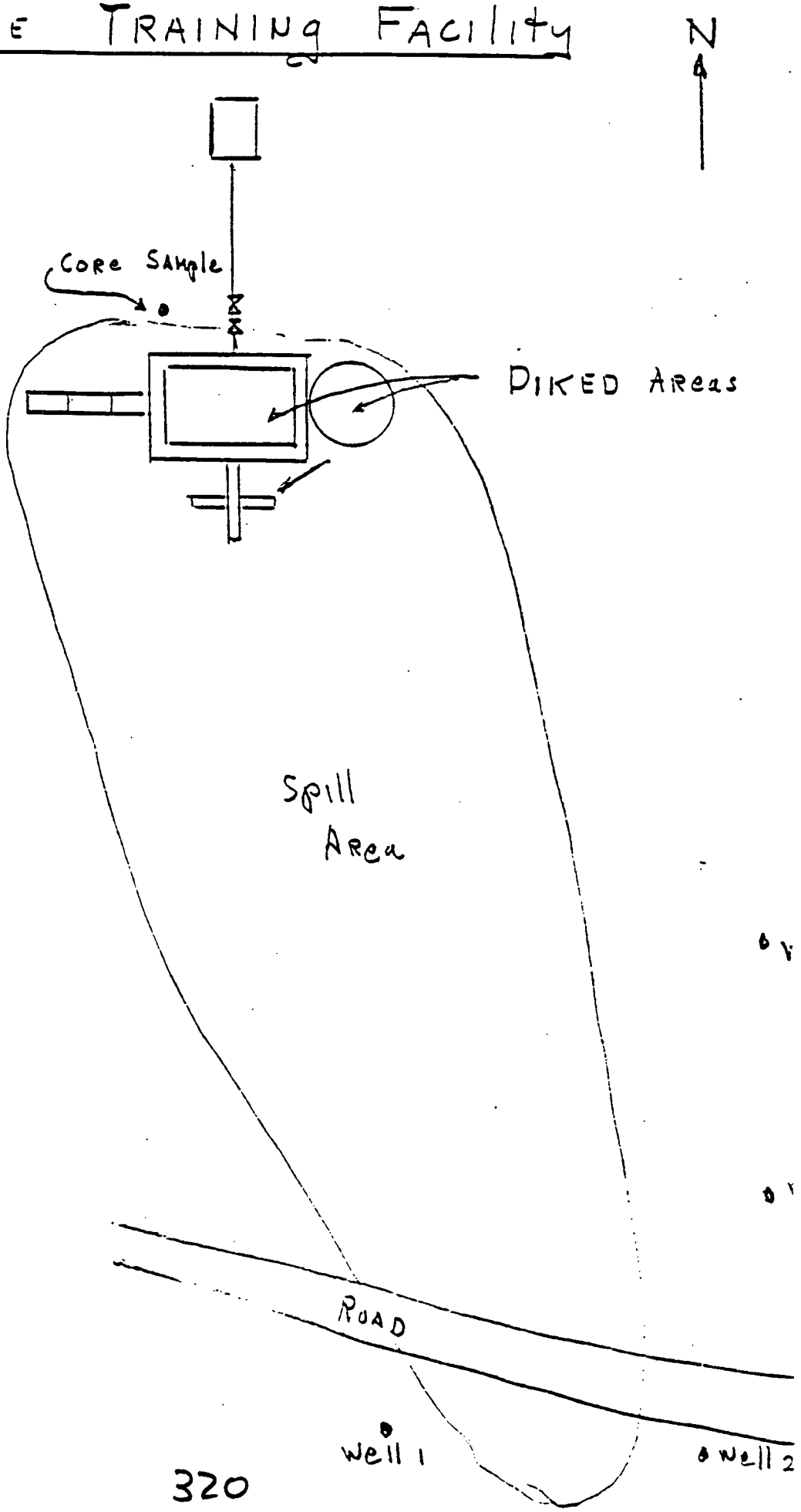
JP#5 fuel spill (approximately 30 gallons) on the pad at the Engine Run-Up Area, at 2-3 A.M. on February 24, 1983, from a aircraft fuel cell leak. Spill washed into ground by GAC Fire Fighting Crew. Authorities (N.Y.S.D.O.T., Albany and Hauppauge, and SCDHS) notified at 8 A.M. on February 24, 1983. Marine Pollution Control removed contaminated soil on February 25, 1983.

Suffolk County Dept. of Health Services (SCDHS) inspected spill site on March 2, 1983. See attached SCDHS inspection report.

JO:gms
Attachment

G116B REV. 8
11-81

# FIRE TRAINING FACILITY



GRUMMAN

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date June 22, 1983
No. FDP-174-683

From: J. Ohlmann — 308/30 — 296 — GAC
Name — Mail Station · Plt. · Group No. · Company — Extension

To: File
Name — Mail Station · Plt. · Group No. · Company — Extension

Subject: FUEL SPILL AT CALVERTON FUEL DEPOT, JUNE 16, 1983

Approximately 100 - 150 gallons of JP5 fuel spilled on concrete pad and its dirt edge, at 10:30 A.M., while filling a truck.

Speedy-Dri was used to dike the area and water was used to wash to the dike. Liquid material on the concrete pad was sucked up or absorbed and contaminated dirt was removed.

Over-filling of truck was due to a malfunction of the automatic shut-off valve in the truck. This is an air operated valve and truck has been taken out of service to fix air system.

Incident reported at 11:30 A.M. to NYSDOT (Charles Ruk, Hauppauge) and SCDH (Alex Santino). SCDH (E. Governale) inspected spill area on June 21, 1983.

JO:gms

G1168 REV 9
3-82

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date April 25, 198
No. FDP-122-483

From: J. Ohlmann — B08/30 — 296 — GAC — 2385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: FUEL SPILL AT CALVERTON FLIGHT LINE, MARCH 26, 1983

Reported at 1:30 P.M. (Spill No. 822-197), JP5 spill on concrete bed of Flight Line, to N.Y.S.D.O.T. in Albany. Approximately 25 gallons werecontained on concrete and removed with absorbent. The cause of the incident was a ruptured fule line.

Larry Peterec of N.Y.S.D.O.T. in Hauppauge followed up with a call on 3/28/83.

No problem - No environmental impact.

JO:gms

G1168 REV. 9
3-82

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date April 6, 1984
No. FDP-93-484

From: J. Ohlmann — B08/30 296 GAC 2385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: FUEL SPILL AT CALVERTON FUEL DEPOT, 4/6/84

At 9:15 A.M., while filling a truck, approximately 40 gallons of Jet A fuel spilled on the concrete pad. The spill was contained on the concrete and cleaned up.

The cause of the spill was faulty equipment - a valve on the truck.

NYSDOT (Hauppauge) was notified same morning.

JO:gms

G1168 REV. 9
5-83

GRUMMAN

# Memorandum

File

☐ Action ☐ Information Only ☐ Reply Requested

Date 12/21/83
No. FDP-35-1283

From: J. Ohlmann
Name — Mail Station • Plt. • Group No. • Company — Extension

To: File
Name — Mail Station • Plt. • Group No. • Company — Extension

Subject: JP5 SPILL AT CALVERTON FUEL DEPOT ON 12/20/83

At approximately 6:30 P.M., 25-40 gallons of JP5 spilled on the concrete while filling a truck.

The spill was contained, absorbed and removed. There was no environmental impact.

Spill was caused by malfunctioning valve on the truck. This has been repaired.

Spill was reported to NYSDOT (Albany) at approximately 7 A.M., 12/20/83.

JO/gms

G1168 REV. 9
8-82

GRUMMAN

# Memorandum

JO

☐ Action ☐ Information Only ☐ Reply Requested

Date Dec. 17, 198
No. FDP-311-1284

From: J. Ohlmann JO — B08/30 296 GAC 52385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: JP5 FUEL SPILL, CALVERTON FUEL DEPOT, 11/20/84

At approximately 11:00 A.M., 25 gallons of JP5 spilled on the blue stone area in the Fuel Depot Tank Farm area. The spill occurred from the vent line on tank #9 while a truck was being filled. Tank #7 was actually being pumped, but the pump discharge from each tank is manifolded to a filter and fuel was pumped into tank #9 when its pump check valve did not hold.

Marine Pollution Control will remove any contaminated soil.

N.Y.S.D.O.T. was notified and Pete Jockolits inspected the site on 11/23/84.

Note: It has since been determined to remove 400 yards of contaminated soil, backfill and put in 3 monitoring wells.

JO:gms

G1168 REV 9
1-84

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date Nov. 27, 198
No. FDP-288-118

From: J. Ohlmann — B08/30 296 GAC 52385
Name — Mail Station · Plt. · Group No. · Company — Extens

To: File
Name — Mail Station · Plt. · Group No. · Company — Extens

Subject: JP4 FUEL SPILL
CALVERTON, EF111 THRUST STAND - 10/6/84

At approximately 2:15 A.M., 40 gallons of JP4 fuel spilled on the Thrust Stand Apron and also ran off into the dirt area. A technician went to depressurize the fuel system in an aircraft and inadvertently selected the "dump" switch. He should have selected "off" position of the pressure switch.

The spill on the apron was absorbed up by GAC personnel with Speedi-Dri. Marine Pollution Conrol excavated the contaminated soil and removed it it an approved landfill.

NYSDEC (Albany) was notified of the spill.

JO:gms

3116B REV. 9
1-84

GRUMMAN

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date 5 March 1985
No. FDP-49-385

From: J. Ohlmann, Facilities Engg B08-030-0296 52385
Name Mail Station - Plt. - Group No. - Company Extension

To: File
Name Mail Station - Plt. - Group No. - Company Extension

Subject: JET A FUEL SPILL, CALVERTON OLD FLIGHT LINE, 2/25/85

At approximately 8:15 a.m., 10 gallons of Jet A spilled on the concrete pad area of the Old Flight Line. The spill occurred from a malfunction with the C2A aircraft fuel system while filling.

This was the same type of spill incident we had on 2/21/85. We thought the malfunction had been corrected.

All spilled material was contained and cleaned up by Grumman. N.Y.S. DOT, Hauppauge, John Schere, was notified of the incident at approximately 10:00 a.m.

JO:w

3:16B REV 3
'84

GRUMMAN

# Memorandum

JO

☐ Action ☐ Information Only ☐ Reply Requested

Date Dec. 21, 198
No. FDP-27-185

From: J. Ohlmann JO — B08/30 296 GAC 52385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: SWALE CLEAN-UP, FUEL CALIBRATION AREA - CALVERTON

During an inspection by Walter Parish, NYSDEC, on 11/28/84, we were requested to clean up the swale near the oil/water separator discharge behind the Fuel Calibration Area. A previous unnoticed malfunction had caused a stain in the swale area. The stain had not been obvious previously because of the high water table. It had become visible when the water table had dropped.

Marine Pollution Control, Inc. cleaned up the swale, cleaned the oil/water separator and removed the oil and water. Additional area clean-up is still in process.

JO:gms

G116B REV. 9
5-83

GRUMMAN

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date June 11, 1985
No. FDP-121-685

From: J. Ohlmann
Name — Mail Station · Plt · Group No · Company — Extension

To: File
Name — Mail Station · Plt · Group No · Company — Extension

Subject: FUEL OIL SPILL, CALVERTON RUNWAY, 6/6/85

Approximately 5 gallons (1-10) of Jet Fuel Oil from a EF111 aircraft spilled on the ground on the side of the northwest runway. This was discovered at 3:30 P.M. on 6/6/85 and reported at 4:45 P.M. on 6/6/85 to the New York State Dept. of Transportation (Larry Peterick, Hauppauge office).

The aircraft had a tire blow-out during take-off at 12:00 Noon and half the aircraft slid off the runway onto the side shoulder. It broke the landing gear and dug into the dirt.

The aircraft had to be jacked up for removal via a dolly. It was at this time that the leak was noticed and our Fire Rescue Squad sprayed the area with AFF foam.

The liquid was sucked up by Grumman and Marine Pollution Control will remove the contaminated soil (estimate 8-10 yards).

JO:gms

GT-6B REV 9
1-85

GRUMMAN

# Memorandum

☐ Action ☐ Information Only ☐ Reply Requested

Date 5 March 1985
No. FDP-48-385

From: J. Ohlmann, Facilities Engg — B08-030-0296 — 52385
Name — Mail Station - Plt. - Group No. - Company — Extension

To: File
Name — Mail Station - Plt. - Group No. - Company — Extension

Subject: JET A FUEL SPILL, CALVERTON OLD FLIGHT LINE, 2/21/85

At approximately 4:00 p.m., 10 gallons of Jet A spilled on the concrete pad area of the Old Flight Line. The spill occurred from overfilling a C2A aircraft.

All spilled material was contained and cleaned up by Grumman. N.Y.S. DOT, Albany was notified of the incident at approximately 8:00 p.m.

NOTE: It has since been determined that the spill was not from overfilling. There is a malfunction with aircraft fuel system while filling.

JO:w

G1168 REV 9
'84

# APPENDIX C

## MARINE POLLUTION CONTROL MONITORING WELL REPORTS

## JUNE 1990 TO OCTOBER 1991

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

Grumman - Calverton

Fuel Depot

Spill #82 - 1680

Prepared by:

MPC Environmental Services
June 11, 1990

P.O. Box 2220
375 Dunton Avenue, East Patchogue, N.Y. 11772
516-654-4900 FAX 516-654-4935



Because Immediate Action Is The Best Remedy.

An Equal Opportunity Employer

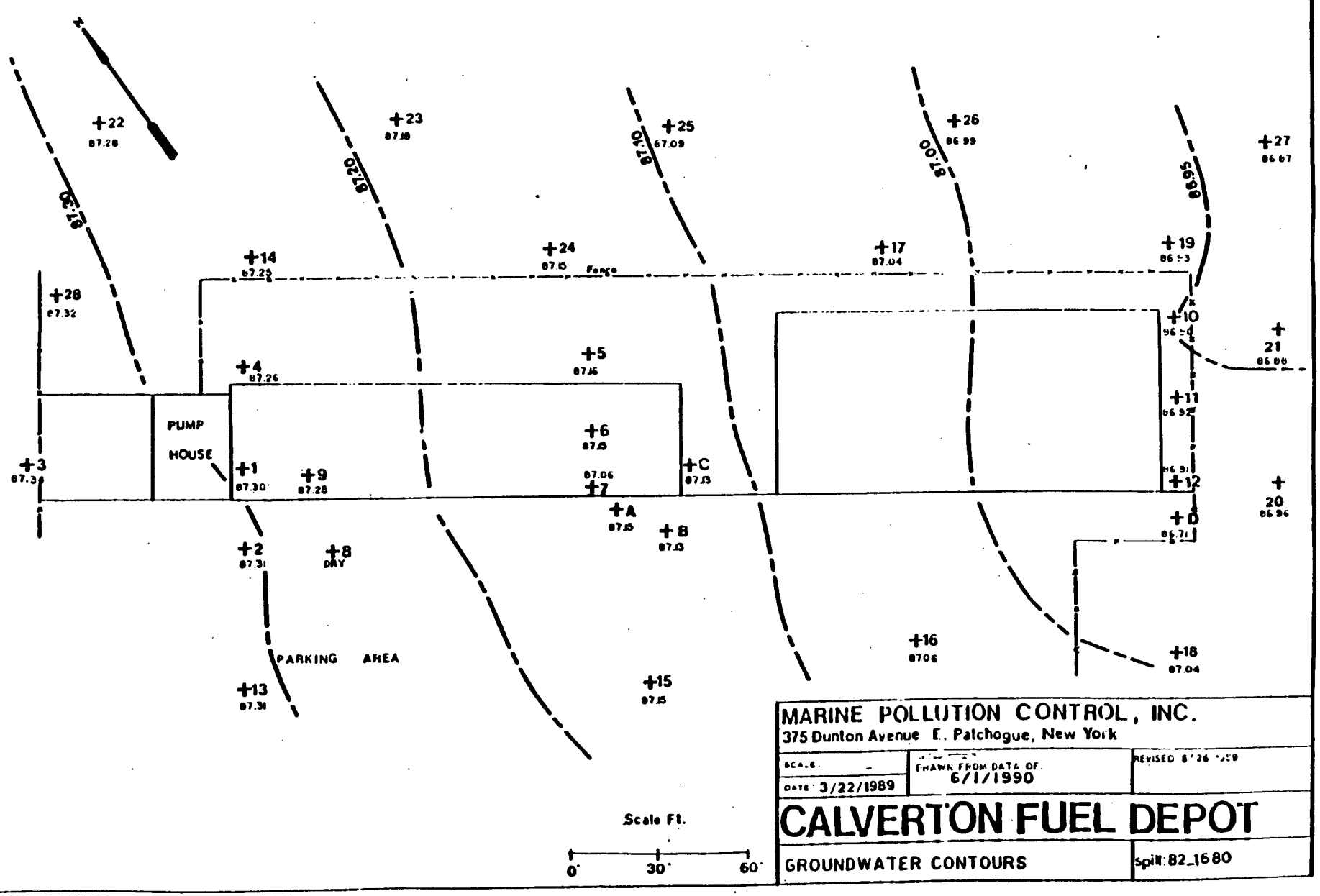
## Discussion

In order to define the extent of the dissolved plume at the fuel depot, monitoring wells number 22 through 28 were installed on May 10 and 11, 1990 (Figure 1). The location of these wells were selected to determine the boundary of the plume downgradient. The drill logs for these wells are located in the Appendix. All drill cuttings were monitored using a photoionization detector (Photovac Tip II).

On May 17, 1990, the wells were pumped purging 3 to 5 casing volumes of water. Before pumping each well the pump was decontaminated by pumping a solution of alconox and water from a clean drum. The pump was then placed in another clean drum pumping water only, as a final rinse. The order of wells pumped was determined by the amount of contamination detected from the drill cuttings using the Photovac Tip II. Clean wells were pumped first, ending with the dirtiest well. Well sampling was in the same order, using a decontaminated stainless steel bailer to collect the samples.

| Wells | Top of pipe elevation |
|---|---|
| 1 | 102.55 |
| 2 | 101.31 |
| 3 | 101.22 |
| 4 | 103.54 |
| 5 | 103.07 |
| 6 | 102.22 |
| 7 | 102.16 |
| 8 | 101.55 |
| 9 | 103.15 |
| 10 | 103.81 |
| 11 | 103.07 |
| 12 | 104.37 |
| A | 101.37 |
| B | 101.45 |
| C | 102.48 |
| D | 103.05 |
| 13 | 100.77 |
| 14 | 101.67 |
| 15 | 100.88 |
| 16 | 101.19 |
| 17 | 101.04 |
| 18 | 101.24 |
| 19 | 99.86 |
| 20 | 100.96 |
| 21 | 99.44 |
| 22 | 100.37 |
| 23 | 101.08 |
| 24 | 100.26 |
| 25 | 100.74 |
| 26 | 100.50 |
| 27 | 97.57 |
| 28 | 100.84 |

335




MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

SCALE: -
DATE: 3/22/1989
DRAWN FROM DATA OF: 6/1/1990
REVISED 8/26/89

# CALVERTON FUEL DEPOT

GROUNDWATER CONTOURS

spill: 82_1680

FIGURE I

Once samples were collected, they were packed in ice and brought to Ecotest the following morning. The analysis to be performed were EPA method 602 and DOH 310-19. The lab results are summarized in Table 1, which were used to construct the estimated dissolved plume boundary shown in Figure 2. In order to project the boundary, lab results were used from previous sampling days to project an approximate plume. Monitoring wells number 20 and 21 were last sampled 1 year ago, and since they are downgradient they should be sampled again. For more accuracy all monitoring wells should be sampled at the same time, since dissolved concentrations change with time. However, from the information we have we are able to estimate the extent of the plume downgradient.

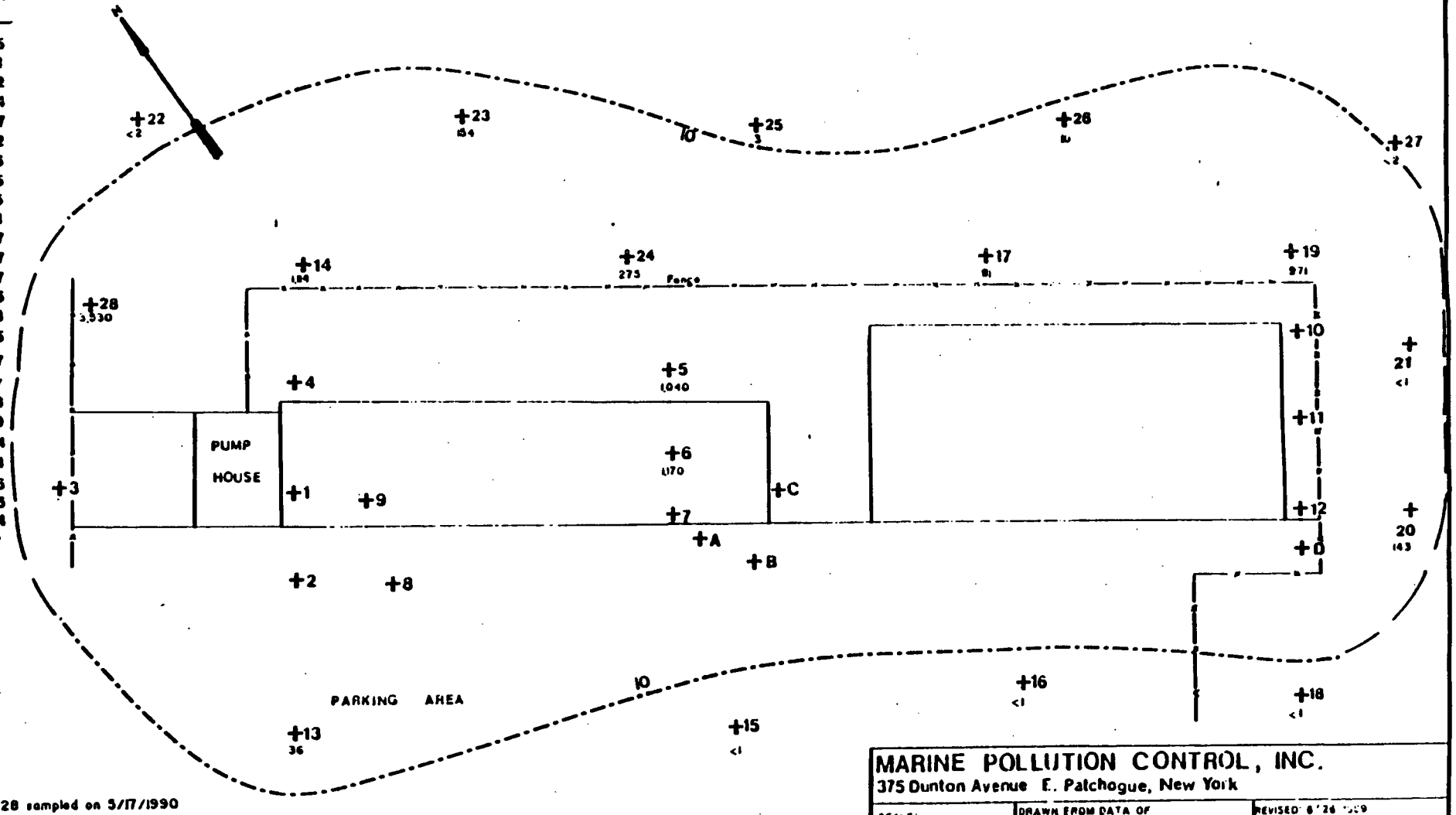
At present there is concern regarding the high concentrations found in monitoring well number 28. Drill cuttings were found to be heavily saturated with a fuel, as indicated by the drill log. In order to determine the source of this contamination MPC Environmental Services recommends that monitoring well number 3 be sampled, since we have no data from that well. We would also recommend installing additional monitoring wells as shown in Figure 3. It is now important to concentrate in the area around monitoring well number 28 to determine where the contamination is orginating from, since it is upgradient of the plume.

Table 1.

Sample Results - Monitoring Wells

| Date | Well Number | Total BTX (ppb) | Petroleum Hydro. (ppm) |
|---|---|---|---|
| 05/17/90 | 22 | <2 | <0.4 |
| 05/17/90 | 23 | 154 | <0.4 |
| 05/17/90 | 24 | 275 | <0.4 |
| 05/17/90 | 25 | 3 | <0.4 |
| 05/17/90 | 26 | 10 | <0.4 |
| 05/17/90 | 27 | <2 | <0.4 |
| 05/17/90 | 28 | 3,530 | 39 |
| 06/14/89 | 13 | 36 | - |
| 06/14/89 | 14 | 1,114 | - |
| 06/14/89 | 15 | <1 | - |
| 06/14/89 | 16 | <1 | - |
| 06/14/89 | 17 | 81 | - |
| 06/14/89 | 18 | <1 | - |
| 06/14/89 | 19 | 971 | - |
| 06/14/89 | 20 | 143 | - |
| 06/14/89 | 21 | <1 | - |
| 04/12/89 | 5 | 1,040 | - |
| 04/12/89 | 6 | 1,170 | - |

| Wells | Top of pipe elevation |
|---|---|
| 1 | 102.55 |
| 2 | 101.31 |
| 3 | 101.22 |
| 4 | 103.54 |
| 5 | 103.07 |
| 6 | 102.22 |
| 7 | 102.16 |
| 8 | 101.55 |
| 9 | 103.15 |
| 10 | 103.81 |
| 11 | 103.07 |
| 12 | 104.37 |
| A | 101.37 |
| B | 101.45 |
| C | 102.48 |
| D | 103.05 |
| 13 | 100.77 |
| 14 | 101.67 |
| 15 | 100.88 |
| 16 | 101.19 |
| 17 | 101.04 |
| 18 | 101.24 |
| 19 | 99.86 |
| 20 | 100.86 |
| 21 | 99.44 |
| 22 | 100.37 |
| 23 | 101.08 |
| 24 | 100.26 |
| 25 | 100.74 |
| 26 | 100.50 |
| 27 | 97.57 |
| 28 | 100.84 |




KEY
Wells 22 thr. 28 sampled on 5/17/1990
Wells 13 thr. 21 sampled on 6/14/1989
Wells 5 & 6 sampled on 4/12/1989
- - - - Estimated plume boundary

Scale Ft.
0' 30' 60'

MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

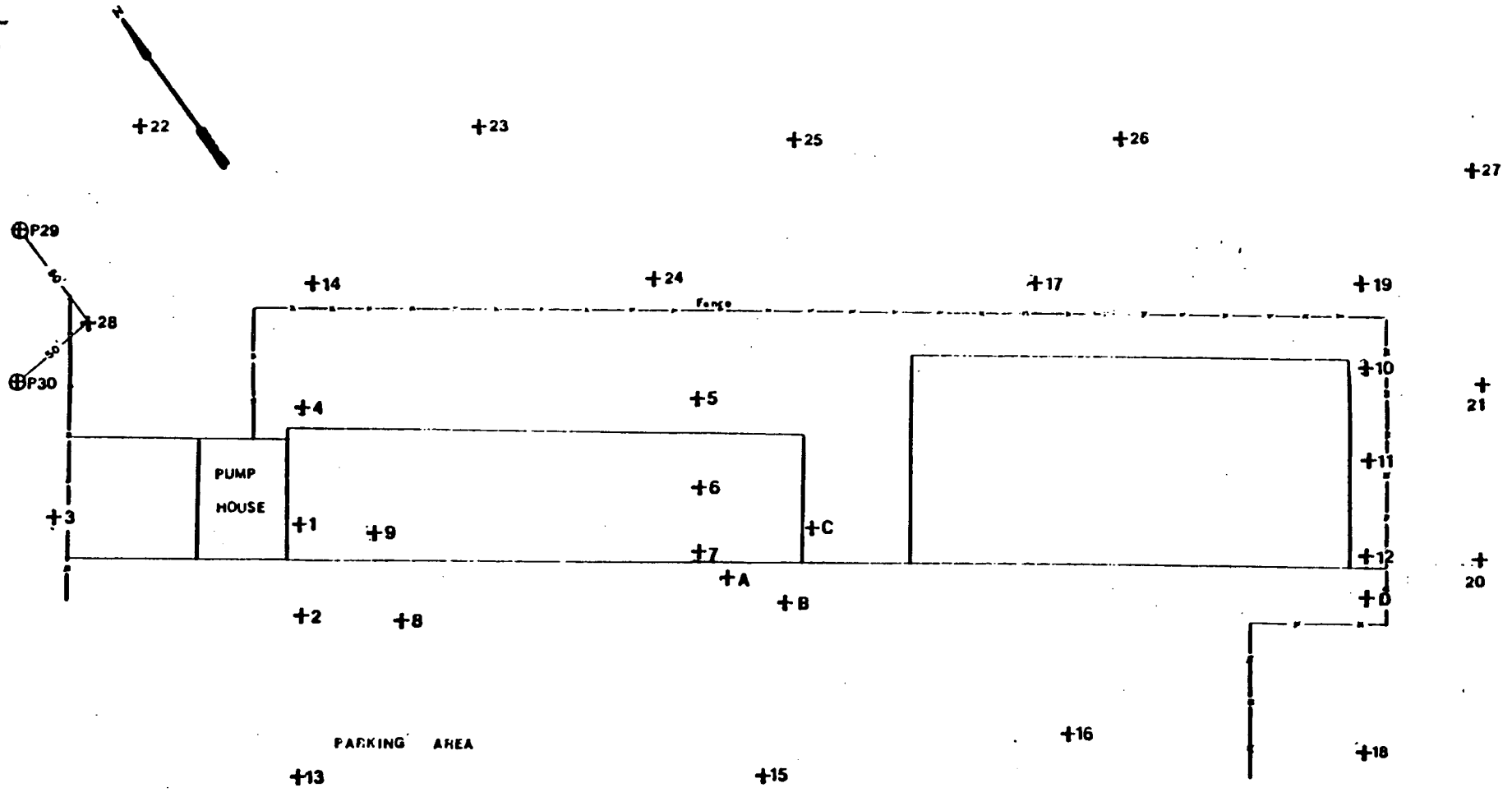
| SCALE: | DRAWN FROM DATA OF | REVISED 8/26/1989 |
|---|---|---|
| DATE: 3/22/1989 | 5/17/90 6/14/89 4/12/89 | |

# CALVERTON FUEL DEPOT

BTX CONCENTRATION (in PPB) | spill: 82_1680

FIGURE 2

| Wells | Top of pipe elevation |
|---|---|
| 1 | 102.55 |
| 2 | 101.31 |
| 3 | 101.22 |
| 4 | 103.54 |
| 5 | 103.07 |
| 6 | 102.22 |
| 7 | 102.16 |
| 8 | 101.55 |
| 9 | 103.15 |
| 10 | 103.81 |
| 11 | 103.07 |
| 12 | 104.37 |
| A | 101.37 |
| B | 101.45 |
| C | 102.48 |
| D | 103.05 |
| 13 | 100.77 |
| 14 | 101.67 |
| 15 | 100.88 |
| 16 | 101.19 |
| 17 | 101.04 |
| 18 | 101.24 |
| 19 | 99.86 |
| 20 | 100.96 |
| 21 | 99.44 |
| 22 | 100.37 |
| 23 | 101.08 |
| 24 | 100.26 |
| 25 | 100.74 |
| 26 | 100.50 |
| 27 | 97.57 |
| 28 | 100.84 |




⊕ PROPOSED GROUNDWATER MONITORING WELLS

Scale Ft.

0' 30' 60'

MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

SCALE:
DATE 3/22/1989
APPROVED BY:
REVISED: 6/26/1989

# CALVERTON FUEL DEPOT

PROPOSED WELL LOCATIONS

spill: 82_1680

FIGURE 3

Appendix

DRILLING / WELL LOG

Boring/Well #22 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/10/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample From | Depth To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 5' | 132 | FINE-MEDIUM, YELLOW/ORANGE SILTY SAND, 5-10% FINE GRAVEL, POORLY SORTED. |
| 5' | 10' | 66 | FINE-MEDIUM, TAN SAND, NO GRAVEL, WELL SORTED. |
| 10' | 15' | 54 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 15' | 20' | 41 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 20' | 25' | 38 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 18 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| | | | |
| | | | WELL CONSTRUCTION |
| | | | |
| | | | 20' OF 0.020" SCREEN |
| | | | 10' OF SOLID PIPE |
| | | | BACKFILL |
| | | | 341 |

DRILLING / WELL LOG

Boring/Well #23 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/10/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 8' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV. Driller M. MULLE

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample From | Depth To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 5' | 73 | FINE-MEDIUM, BROWN SILTY SAND, 10-15% GRAVEL, POORLY SORTED. |
| 5' | 10' | 41 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 10' | 15' | 57 | FINE-MEDIUM, TAN SAND <5% GRAVEL, MODERATELY SORTED. |
| 15' | 20' | 30 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, DAMP. |
| 20' | 25' | 17 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 64 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET, SLIGHT ODOR. |
| | | | WELL CONSTRUCTION |
| | | | 20' OF 0.020" SCREEN |
| | | | 8' OF SOLID PIPE. |
| | | | BACKFILL |
| | | | 342 |

# DRILLING / WELL LOG

Boring/Well #24 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/10/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MAC ENVIRONMENTAL SERV. Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample From | Depth To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 2' | ↑ | FINE-MEDIUM, YELLOW/ORANGE SAND, SOME SILT, 5-10% GRAVEL, POORLY SORTED. |
| 2' | 5' | 33 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 5' | 10' | 45 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 10' | 15' | 20 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 15' | 20' | 19 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, DAMP. |
| 20' | 25' | 14 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 141 | FINE-MEDIUM, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET, SLIGHT ODOR. |
| | | | WELL CONSTRUCTION |
| | | | 20' OF 0.020" SCREEN |
| | | | 10' OF SOLID PIPE |
| | | | 343 BACKFILL |

# DRILLING / WELL LOG

Boring/Well #25 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/10/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV. Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample Depth From | To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 2' | ↑ | FINE-MEDIUM, YELLOW/ORANGE SILTY SAND, 10-15% GRAVEL, POORLY SORTED. |
| 2' | 5' | 33 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 5' | 10' | 30 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 10' | 15' | 33 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 15' | 20' | 27 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, DAMP. |
| 20' | 25' | 29 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 35 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| | | | |
| | | | WELL CONSTRUCTION |
| | | | 20' OF 0.020" SCREEN |
| | | | 10' OF SOLID PIPE |
| | | | BACKFILL |

DRILLING / WELL LOG

Boring/Well #26 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/11/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample Depth From | To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 2' | ↑ | FINE, BLACK TO GRAY SILTY SAND, 5-10% GRAVEL, POORLY SORTED, STRONG SOLVENT ODORS! |
| 2' | 5' | 1,378 | FINE, YELLOW/ORANGE SAND, 5-10% GRAVEL, POORLY SORTED, SLIGHT ODOR. |
| 5' | 10' | 458 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 10' | 15' | 386 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 15' | 20' | 1,982 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, DAMP. |
| 20' | 25' | 843 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 678 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| | | | |
| | | | WELL CONSTRUCTION |
| | | | 20' OF 0.020" SCREEN |
| | | | 10' OF SOLID PIPE |
| | | | 345 BACKFILL FROM MW #27 |

DRILLING / WELL LOG

Boring/Well #27 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/11/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV. Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample Depth From | To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 5' | 9 | FINE, YELLOW/ORANGE SILTY SAND, <5% GRAVEL, POORLY SORTED. |
| 5' | 10' | 6 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED. |
| 10' | 15' | 8 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, DAMP. |
| 15' | 20' | 7 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 20' | 25' | 7 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 25' | 30' | 7 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| | | | |
| | | | WELL CONSTRUCTION |
| | | | |
| | | | 20' OF 0.020" SCREEN |
| | | | 10' OF SOLID PIPE |
| | | | BACKFILL |

DRILLING / WELL LOG

Boring/Well #28 CLIENT GRUMAN - CALVERTON Page 1 of 1

Location FUEL DEPOT Date 5/11/90

Total Depth Drilled 30' Type of Sample AUGER Interval 5'

Casing Installed 10' Screen Installed 20'

Drilling Method H.S.A. Drilling Fluid Used NONE

Drilling Contractor MPC ENVIRONMENTAL SERV. Driller M. MULLER

Prepared By GEORGE VASSILEV - HYDROGEOLOGIST

| Sample Depth From | To | OVA Reading ( ppm ) | Sample Description |
|---|---|---|---|
| 0' | 1' | | CONCRETE / REBAR |
| 1' | 3' | ↑ | FINE - MEDIUM, YELLOW / ORANGE SILTY SAND, 10-15% GRAVEL, POORLY SORTED. |
| 3' | 5' | 1,976 | BLACK TOPSOIL (FILL MATERIAL ?) SLIGHT ODOR. |
| 5' | 10' | 56 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, SLIGHT ODOR. |
| 10' | 15' | 78 | FINE, TAN SAND, <5% GRAVEL MODERATELY SORTED, DAMP. |
| 15' | 20' | 117 | FINE, TAN SAND, <5% GRAVEL, MODERATELY SORTED, WET. |
| 20' | 25' | 1,900 | FINE, GRAY STAINED SAND, <5% GRAVEL, MODERATELY SORTED, WET, STRONG ODORS. |
| 25' | 30' | 1,305 | FINE, GRAY STAINED SAND, <5% GRAVEL, MODERATELY SORTED, WET, ODORS. |
| | | | WELL CONSTRUCTION |
| | | | 20' OF 0.020" SCREEN |
| | | | 347 10' OF SOLID PIPE |

BACKFILL

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/4 05/29/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1205, MW #22

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

348

rn= 6950 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/5 05/29/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1225, MW #23

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | 4 | |
| Ethyl Benzene | ug/L | 29 | |
| m + p Xylene | ug/L | 21 | |
| o Xylene | ug/L | 100 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

349

rn= 6951 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/6

05/30/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1340, MW #24

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 2 | |
| Toluene | ug/L | 68 | |
| Ethyl Benzene | ug/L | 23 | |
| m + p Xylene | ug/L | 120 | |
| o Xylene | ug/L | 62 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

350

rn= 6952 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/7 05/30/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1255, MW #25

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 3 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

361

rn= 6953 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/8 05/30/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1420, MW #26

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | 2 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 8 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

352

rn= 6954 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/9 05/30/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1315, MW #27

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |
| Petrol. Hydrocarbons | mg/L | <0.4 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR



rn= 6955 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C901562/10 05/30/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:05/17/90 RECEIVED:05/18/90

SAMPLE: Water Sample, fuel depot, 1400, MW #28

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <5 | |
| Toluene | ug/L | 110 | |
| Ethyl Benzene | ug/L | 220 | |
| m + p Xylene | ug/L | 2500 | |
| o Xylene | ug/L | 700 | |
| Petrol. Hydrocarbons | mg/L | 39 | |

cc:Ohlmann, Selva, G. Vassilev-MPC

REMARKS:

DIRECTOR

rn= 6956 NYSDOH ID# 10320

SAMPLING DATA SHEET

DATE: 5/17/90 (MPC)
LOCATION: GRUMAN - CALVERTON FUEL DEPOT
SPILL#:
PO#:
ANALYSIS: 602 + PET. HYDROC.
LAB NAME: ECOTEST LAB NUMBER:
TOTAL WELLS SAMPLED: TOTAL WELLS NOT SAMPLED:
SAMPLES COLLECTED BY: GEORGE VASSILEV

(1) BILL + RESULTS TO ATTEN. OF GRUMAN
(2) RESULTS TO ATTEN. OF GEORGE VASSILEV (MPC)

| WELL# | COMMENTS | WELL# | COMMENTS |
|---|---|---|---|
| 1 | | 21 | |
| 2 | | 22 | Time 1205 |
| 3 | | 23 | Time 1225 |
| 4 | | 24 | Time ~~1255~~ 1340 |
| 5 | | 25 | Time 1255 |
| 6 | | 26 | Time 1420 |
| 7 | | 27 | Time 1315 |
| 8 | | 28 | Time 1400 |
| 9 | | 29 | |
| 10 | | 30 | |
| 11 | | 31 | |
| 12 | | 32 | |
| 13 | | 33 | |
| 14 | | 34 | |
| 15 | | 35 | |
| 16 | | 36 | |
| 17 | | 37 | |
| 18 | | 38 | |
| 19 | | 39 | |
| 20 | | 40 | |

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/3 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #13, 1115

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 7 | |
| Ethyl Benzene | ug/L | 7 | |
| m + p Xylene | ug/L | 12 | |
| o Xylene | ug/L | 9 | |

cc: B. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR_____

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/2 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #14, 1200

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | 44 | |
| Ethyl Benzene | ug/L | 140 | |
| m + p Xylene | ug/L | 660 | |
| o Xylene | ug/L | 270 | |

cc: B. Andrea, GAC, J. Emington, MPC

REMARKS:

DIRECTOR _____

Ecotest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. 891769/5 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #15, 1030

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: R. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/7 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #16, 1000

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: B. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/4 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #17, 1245

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 1 | |
| Ethyl Benzene | ug/L | 24 | |
| m + p Xylene | ug/L | 49 | |
| o Xylene | ug/L | 6 | |

cc: B. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR _____

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/9 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #18, 1500

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: B. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/1 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28055

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #19, 1330

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 800 | |
| Toluene | ug/L | 24 | |
| Ethyl Benzene | ug/L | 58 | |
| m + p Xylene | ug/L | 64 | |
| o Xylene | ug/L | 25 | |

cc:B. Andres, GAC, J. Emington, MPC

REMARKS:

DIRECTOR

Ecotest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/6 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #20, 930

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 72 | |
| Toluene | ug/L | 12 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | 34 | |
| o Xylene | ug/L | 25 | |

cc: B. Andrea, GAC, J. Emington, MPC

REMARKS:

363 DIRECTOR

Ecotest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C891769/8 07/05/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fuel Depot, SP #82-1680
COLLECTED BY: M.P.C. DATE COL'D:06/14/89 RECEIVED:06/16/89

SAMPLE: Water sample, Well #21, 1415

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: B. Andree, GAC, J. Emington, MPC

REMARKS:

364

DIRECTOR

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891056/1 05/01/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MarPollCon DATE COL'D:04/12/89 RECEIVED:04/12/89

SAMPLE: Water sample, Fuel Depot, OW-5, 1230

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 120 | |
| Toluene | ug/L | 380 | |
| Ethyl Benzene | ug/L | 110 | |
| m + p Xylene | ug/L | 350 | |
| o Xylene | ug/L | 80 | |

cc:MPC-John Emington

REMARKS:

365

DIRECTOR

rn= 4478

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTIN

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891056/2

05/01/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann

PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MarPollCon DATE COL'D:04/12/89 RECEIVED:04/12/89

SAMPLE: Water sample, Fuel Depot, OW-6, 1130

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 70 | |
| Toluene | ug/L | 300 | |
| Ethyl Benzene | ug/L | 70 | |
| m + p Xylene | ug/L | 470 | |
| o Xylene | ug/L | 260 | |

cc:MPC-John Emington

REMARKS:

DIRECTOR

366

rn= 4479

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

June 11, 1990

Mr. John Ohlmann
Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, N.Y. 11714

RE: Calverton - Fuel Depot Spill #82-1680

Enclosed please find a report regarding the fuel depot at the Calverton location. Should there be any questions or comments regarding this site, please do not hesitate to call.

Sincerely,

George Vassilev

George Vassilev
Hydrogeologist

P.O. Box 2220
375 Dunton Avenue, East Patchogue, N.Y. 11772
516-654-4900 FAX 516-654-4935



Because Immediate Action Is The Best Remedy.
An Equal Opportunity Employer

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

# Grumman - Calverton

# Fire Training Area

Prepared by:

MPC Environmental Services
January 7, 1991

P.O. Box 610
460 Edwards Avenue, Calverton, NY 11933
516-369-4900 FAX 516-369-4909

368

An Equal Opportunity Employer

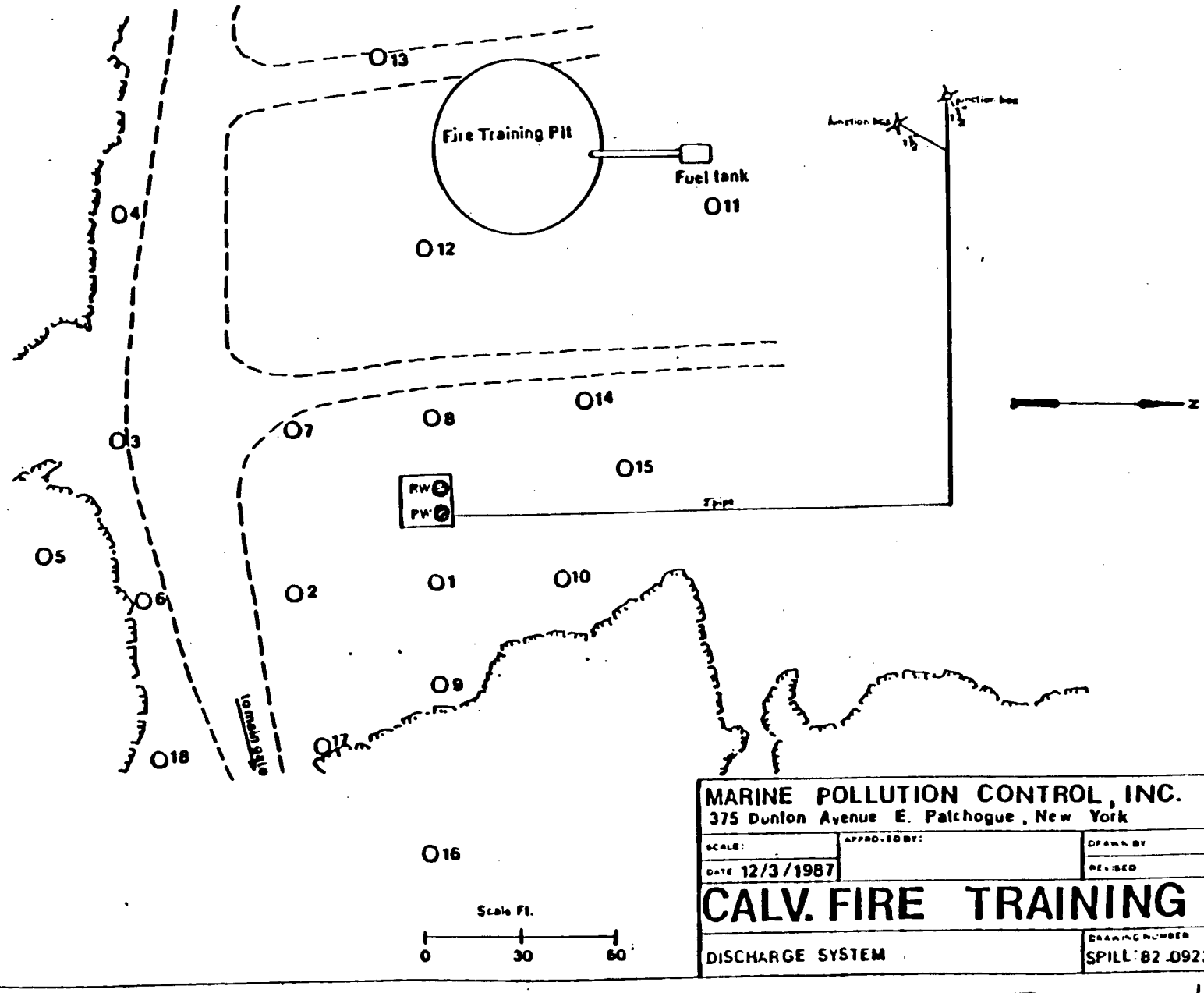
## Background

Subsurface investigation of the Fire Training area at the Calverton plant began as early as 1982 (Figure 1). The area was previously used as a training facility for combating fires fed by various fuels used in the aviation industry. MPC Environmental Services initially installed twelve monitoring wells, 1 through 12, to determine if there was floating product on the water table as a result of these activities. It was apparent that while extinguishing the burning fuels, which were contained in the pit, the volume of water and/or foam required to extinguish the fire caused the pit to overflow. Nine of the initial twelve monitoring wells contained free floating product (wells 1,2,3,6,7,8,9,10 and 12).

Due to the results of the initial investigation, the N.Y.S.D.E.C. required the installation of additional monitoring wells, to further define the extent of the free floating product plume. A copy of this letter from the N.Y.S.D.E.C., dated October 16, 1987, is found in the Appendix. On November 23, 1987, monitoring wells number 13 through 18 were installed by MPC Environmental Services (drill logs are in the Appendix).

| WELL | TOP OF PIPE ELEVATION |
|---|---|
| 1 | 101.87 |
| 2 | 100.78 |
| 3 | 100.72 |
| 4 | 103.10 |
| 5 | 101.76 |
| 6 | 100.78 |
| 7 | 101.73 |
| 8 | 102.32 |
| 9 | 100.39 |
| 10 | 102.32 |
| 11 | 107.74 |
| 12 | 103.32 |
| 13 | 100.01 |
| 14 | 103.92 |
| 15 | 103.38 |
| 16 | 104.84 |
| 17 | 101.28 |
| 18 | 100.00 |

370




MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

SCALE:
APPROVED BY:
DRAWN BY
DATE 12/3/1987
REVISED

# CALV. FIRE TRAINING

DISCHARGE SYSTEM

DRAWING NUMBER SPILL 82 0923

FIGURE 1

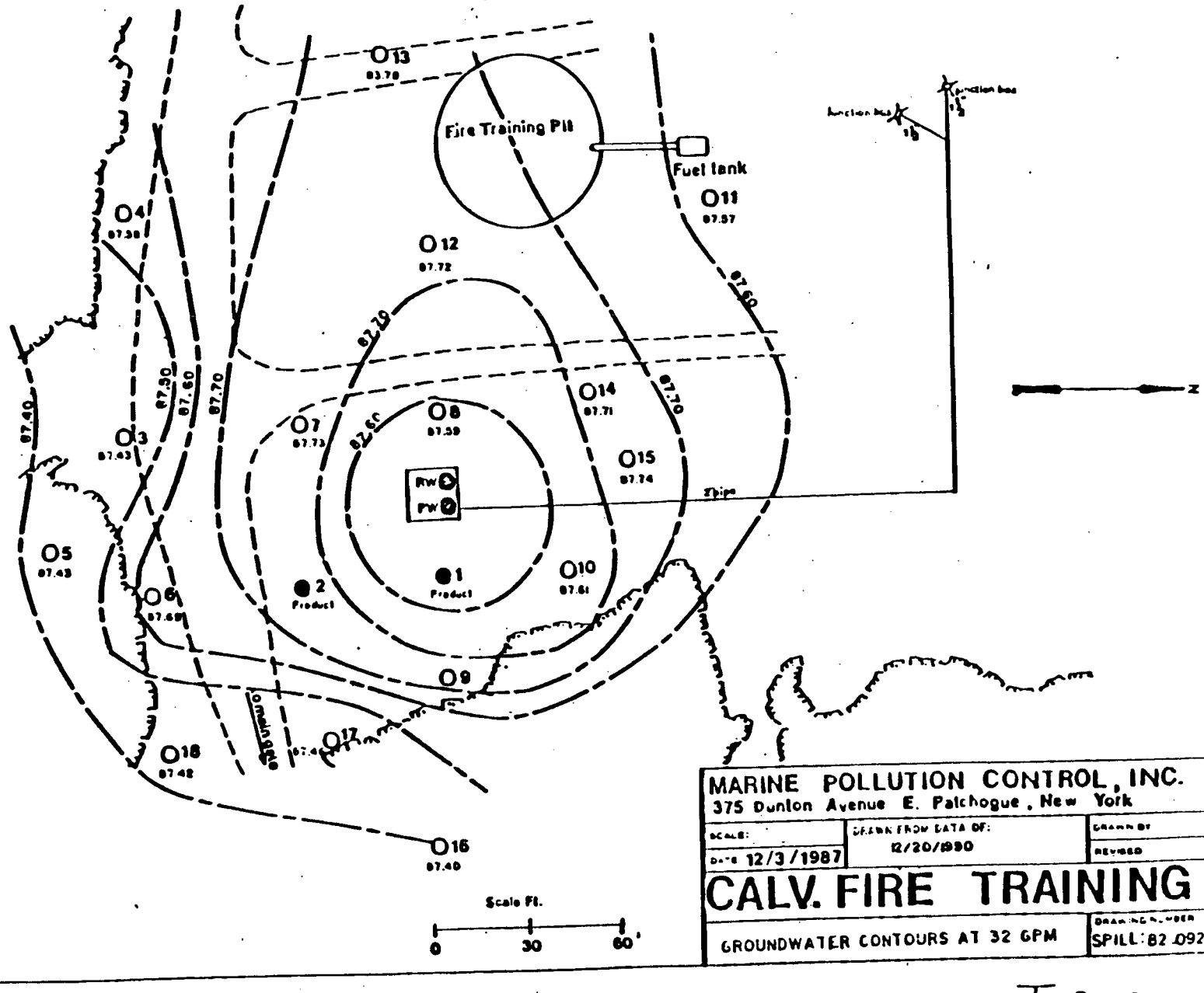
The information collected from all eighteen wells provided enough data to determine the groundwater flow direction, and the selection for both pumping and recovery well locations. A letter describing the background work, dated December 11, 1987, from MPC to Grumman Aerospace is found in the Appendix.

In December of 1987 work began on construction of the recovery system, which consisted of a pumping well utilizing a submersible pump. A separate recovery well was also installed, with a filter scavenger pump to collect the free floating product. Both these wells are four inches in diameter.

Discussion

During 1990 the average pumping rate of the recovery well was 34 gallons per minute (Figure 2). The total amount of product recovered to date is 216.45 gallons. According to weekly monitoring data, from monitoring sheets found in the Appendix, several wells continue to show free floating product. Table 1 is a summary of product thicknesses for 1990. According to this data, well number 1 had free product detected on every visit to the site, except for July 5 when water levels quickly rose. The product thickness ranged from 0.02 feet to a maximum of 0.51 feet on January 16.

| WELL | TOP OF PIPE ELEVATION |
|---|---|
| 1 | 101.87 |
| 2 | 100.76 |
| 3 | 100.72 |
| 4 | 103.10 |
| 5 | 101.76 |
| 6 | 100.78 |
| 7 | 101.73 |
| 8 | 102.32 |
| 9 | 100.39 |
| 10 | 102.32 |
| 11 | 107.74 |
| 12 | 103.32 |
| 13 | 100.81 |
| 14 | 103.82 |
| 15 | 103.38 |
| 16 | 104.84 |
| 17 | 101.29 |
| 18 | 100.60 |




MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

| | | |
|---|---|---|
| SCALE: | DRAWN FROM DATA OF: 12/20/1990 | DRAWN BY |
| DATE 12/3/1987 | | REVISED |

# CALV. FIRE TRAINING

GROUNDWATER CONTOURS AT 32 GPM

DRAWING NUMBER SPILL: 82 0923

372

FIGURE 2.

Table 1.

Free Floating Product Thicknesses in Monitoring Wells,

Calculated in Feet for 1990

| Date | #1 | #2 | #3 | #7 | #8 | #9 | #10 | #12 | #13 | #15 |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/04 | 0.25 | 0.00 | 0.06 | 0.06 | T | 0.00 | 0.47 | 0.00 | T | 0.00 |
| 01/08 | 0.16 | 0.00 | 0.01 | T | T | 0.00 | 0.30 | 0.00 | T | 0.00 |
| 01/16 | 0.51 | 0.00 | 0.16 | 0.03 | 0.04 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/23 | 0.05 | 0.00 | 0.04 | T | T | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 |
| 01/31 | 0.43 | 0.00 | 0.13 | T | T | 0.08 | 0.25 | 0.00 | 0.00 | 0.00 |
| 02/07 | 0.35 | 0.00 | T | T | T | T | 0.20 | 0.00 | 0.00 | 0.00 |
| 02/14 | 0.09 | 0.00 | 0.00 | 0.10 | 0.03 | T | 0.97 | 0.00 | T | 0.00 |
| 02/23 | 0.15 | 0.00 | 0.00 | 0.15 | T | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 |
| 02/27 | 0.06 | 0.00 | 0.00 | 0.07 | T | 0.00 | 0.17 | 0.00 | 0.00 | 0.00 |
| 03/05 | 0.08 | 0.00 | 0.00 | 0.09 | T | 0.00 | 0.18 | 0.00 | T | 0.00 |
| 03/15 | 0.14 | 0.00 | 0.00 | 0.10 | 0.04 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 |
| 03/23 | 0.10 | 0.00 | 0.00 | T | 0.00 | T | 0.08 | 0.00 | 0.00 | 0.00 |
| 03/29 | 0.05 | 0.00 | 0.95 | T | T | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 04/05 | 0.02 | 0.00 | 0.02 | T | T | T | 0.02 | 0.00 | T | 0.00 |
| 04/12 | 0.05 | 0.00 | 0.05 | 0.06 | T | 0.00 | 0.12 | 0.00 | 0.00 | T |
| 04/17 | 0.40 | T | 0.03 | 0.15 | 0.01 | 0.00 | 0.11 | 0.00 | 0.00 | T |
| 04/25 | 0.21 | T | T | 0.17 | T | 0.00 | 0.18 | 0.00 | 0.00 | T |
| 05/02 | 0.12 | 0.00 | 0.00 | 0.12 | 0.00 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 |
| 05/10 | 0.21 | 0.01 | 0.00 | 0.15 | 0.01 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 05/17 | 0.14 | 0.00 | 0.00 | 0.098 | T | 0.00 | 0.19 | 0.00 | 0.00 | 0.00 |

T = Trace

Table 1. (Continued)

Free Floating Product Thicknesses in Monitoring Wells,

Calculated in Feet for 1990

| Date | #1 | #2 | #3 | #7 | #8 | #9 | #10 | #12 | #13 | #15 |
|---|---|---|---|---|---|---|---|---|---|---|
| 05/24 | 0.21 | T | 0.00 | T | 0.05 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 06/01 | 0.31 | T | 0.00 | 0.14 | 0.00 | 0.00 | 0.21 | T | 0.00 | 0.00 |
| 06/07 | 0.13 | T | 0.00 | 0.00 | T | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 |
| 06/13 | 0.14 | 0.01 | 0.00 | 0.19 | 0.01 | 0.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 06/21 | 0.14 | 0.00 | 0.00 | 0.08 | T | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 |
| 06/29 | 0.13 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 |
| 07/05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/13 | 0.40 | 0.00 | 0.06 | 0.02 | T | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 |
| 07/20 | 0.13 | 0.00 | 0.10 | 0.04 | T | T | 0.10 | 0.00 | 0.00 | 0.00 |
| 07/27 | 0.38 | 0.00 | 0.15 | T | T | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 |
| 08/03 | 0.06 | T | 0.26 | 0.08 | T | 0.11 | T | 0.00 | 0.00 | 0.00 |
| 08/10 | 0.03 | T | 0.12 | T | T | 0.26 | 0.01 | 0.00 | 0.00 | 0.00 |
| 08/16 | 0.42 | 0.02 | 0.12 | 0.01 | 0.02 | 0.17 | 0.02 | 0.00 | 0.00 | 0.00 |
| 08/23 | 0.23 | T | 0.09 | T | T | 0.13 | 0.05 | 0.00 | 0.00 | 0.00 |
| 08/31 | 0.31 | T | 0.11 | T | T | 0.20 | 0.12 | T | 0.00 | 0.00 |
| 09/05 | 0.25 | 0.05 | 0.07 | T | 0.00 | 0.15 | 0.30 | T | 0.00 | T |
| 09/14 | 0.18 | T | T | T | 0.00 | 0.05 | 0.16 | 0.00 | 0.00 | 0.00 |

T = Trace

Table 1. (Continued)

Free Floating Product Thicknesses in Monitoring Wells, Calculated in Feet for 1990

| Date | #1 | #2 | #3 | #7 | #8 | #9 | #10 | #12 | #13 | #15 |
|---|---|---|---|---|---|---|---|---|---|---|
| 09/21 | 0.15 | 0.05 | T | T | 0.00 | 0.07 | 0.13 | 0.00 | 0.00 | 0.00 |
| 09/27 | 0.10 | 0.07 | T | T | 0.00 | 0.08 | 0.15 | 0.00 | 0.00 | 0.00 |
| 10/04 | 0.18 | 0.05 | T | T | T | 0.10 | 0.09 | 0.00 | 0.00 | 0.00 |
| 10/11 | 0.15 | 0.05 | T | T | 0.00 | 0.07 | T | 0.00 | 0.00 | 0.00 |
| 10/18 | 0.25 | T | T | T | T | 0.07 | T | 0.00 | 0.00 | 0.00 |
| 10/24 | 0.20 | 0.15 | T | 0.10 | 0.00 | T | T | 0.00 | 0.00 | 0.00 |
| 11/01 | 0.19 | 0.21 | 0.07 | 0.16 | 0.01 | 0.07 | 0.00 | 0.01 | 0.00 | 0.00 |
| 11/14 | 0.35 | 0.30 | T | 0.10 | 0.00 | T | T | 0.00 | 0.00 | 0.00 |
| 11/17 | 0.20 | 0.18 | 0.11 | 0.13 | 0.00 | T | T | 0.00 | 0.00 | 0.00 |
| 11/20 | 0.20 | 0.08 | 0.01 | 0.02 | T | T | T | T | T | 0.00 |
| 11/28 | 0.39 | 0.27 | 0.08 | T | 0.00 | 0.08 | T | 0.00 | 0.00 | 0.00 |
| 12/07 | 0.28 | 0.15 | T | T | T | T | T | 0.00 | T | 0.00 |
| 12/13 | 0.33 | 0.42 | 0.08 | T | 0.00 | T | T | 0.00 | 0.00 | 0.00 |
| 12/20 | 0.44 | 0.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

T = Trace

Well number 2 had a product thickness which ranged from a trace to 0.42 feet on December 13. The product thickness for well number 3 ranged from a trace to a maximum of 0.95 feet on March 29, which may have been the result of a drop in water levels, or an inaccurate reading. In well number 7 product was detected on every visit except for July 5. The product thickness ranged from a trace to a maximum of 0.19 feet on June 13.

Free floating product in well number 8 ranged from a trace to a maximum of 0.05 feet on May 24. Well number 9 had a product thickness which ranged from a trace to a maximum of 0.26 feet on August 10. The highest recorded product thickness at the site was detected in well number 10. The product thickness ranged from a trace to a maximum of 0.97 feet, which may have been a result of rising water levels, or an inaccurate reading. Wells number 12, 13 and 15 showed primarily a trace of product during 1990.

Table 2 and Table 3 are summaries of BTX sampling data collected from the recovery system for 1989 and 1990, respectively. The actual lab reports are located in the Appendix. The 1990 data is for water discharge at the junction box (see Figure 1). The influent data for 1989 is from the well head of the pumping well, effluent is from the junction box. According to the data for 1989, low concentrations of discharge were detected on May 31, at 27.3 ppb. The data for 1990 indicates that BTX concentrations were below detectable limits.

Table 2.

BTX Influent and Effluent Discharge Samples in ppb for 1989

| Date | BTX In (wellhead discharge) | BTX Out (discharge at box) |
|---|---|---|
| 03/07 | 4.0 | <1.0 |
| 05/31 | --- | 27.3 |
| 06/22 | <2.0 | <2.0 |
| 07/19 | <4.0 | <4.0 |
| 05/16 | <4.0 | <4.0 |
| 11/16 | --- | <4.0 |
| 12/13 | <4.0 | <4.0 |

Table 3.

BTX Discharge Samples at Junction Box in ppb for 1990

| Date | Discharge |
|---|---|
| 01/31 | <2.0 |
| 02/15 | <2.0 |
| 07/27 | <2.0 |
| 10/08 | <4.0 |
| 10/30 | <2.0 |
| 11/29 | <2.0 |

Appendix

Dean
As Expected, Clean up of Calv. Fire Training Area Required. J. Ohlmann

Copy D. Cassell Ed. Corn
T. Cunniffe J. Giordano
E. Andres
B. Faraday
C. Turney
J. Welch
R. Yazek


**New York State Department of Environmental Conservation**
Building 40, SUNY
Stony Brook, NY 11794

(516) 751-7725


Commissioner

October 16, 1987

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. John Ohlmann
Grumman Aerospace Corp.
Mail Stop B08/30
Bethpage, NY 11714

RE: Spill #82-1680 Fire Training Area at Calverton Plant

Dear Mr. Ohlmann:

This office has recently reviewed the monitoring data for the site wells at the above referenced area. Based on this data we request that you perform the following work:

1. Install additional monitoring wells to define the extent of the contamination. The present floating and dissolved product plumes do not appear to be completely defined. These monitoring wells should be 4-inch diameter PVC pipe with the bottom ten feet machine slotted to 0.02 of an inch and extending five feet into the groundwater. The lcoations of the wells will be determined by a representative of this office.

2. Develop a groundwater contour map for the spill area showing its relationship to the buildings in the area.

3. Install a continuously operating recovery system which depresses the water table and removes the fuel from the groundwater. This system should be capable of removing both floating and dissolved product.

If no response is received from you by November 2, 1987, this Department will perform the necessary work and seek reimbursement at a later date. Reimbursement will be sought in accordance with Article 12 of the NYS Navigation Law by the NYS Attorney General's Office.

Truly yours,

Walter J. Parish

Walter J. Parish
Assistant Sanitary Engineer

WJP:pn
CC: J. Licata
A. Santino, SCDHS

J. OHLMANN

OCT 20 1987

Director Environ. Protection

Tel. 516 - 654-4900

# MARINE POLLUTION CONTROL, INC.

P.O. BOX 2220

EAST PATCHOGUE, N.Y. 11772

11 December 1987

Grumman Aerospace Corp.
Mail Stop B08/30
Bethpage, NY 11714
Attn: Mr. John Ohlmann

Dear Sir:

Now that the background work has been done for the recovery operations at both the Fire Training Area and the Fuel Calibration Area in Calverton we are ready to proceed with the installation of the recovery equipment.

This week the pumping wells will be installed in both locations and a pump test performed to determine the pumping rate necessary to establish a proper cone of depression at both locations. At the same time samples will be taken and sent in for BTX analysis. The construction of the wells will be of 4" PVC with 15 ft. of stainless steel well screen per well.

Immediately thereafter the recovery wells will be installed. The Fuel Cal area will have a 26" well installed along with a Filter Scavenger for product recovery in accordance with our previously submitted estimate. At the Fire Training area the depth to water prohibits us from installing a 26" casing to the proper depth. We are proposing to install a 4" well and equip it with a Groundwater Recovery Systems product only pump. The costs should be similar to the other location.

I will be on site during the well installation to discuss with Joe Welsch the discharge point for the water and the electric service.

Enclosed you will find site maps for both locations along with the groundwater contours and the proposed locations for the recovery operations.

Please feel free to call me if you have any questions.

Sincerely,

John Emington

# SAMPLE/CORE LOG

Boring/Well 13, 14, 15, 16, 17, 18 Project/No. Crumman Corp Page ____ of ____

Site Location Fire Training Drilling Started 11/23/87 Drilling Completed —

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Return from Auger

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

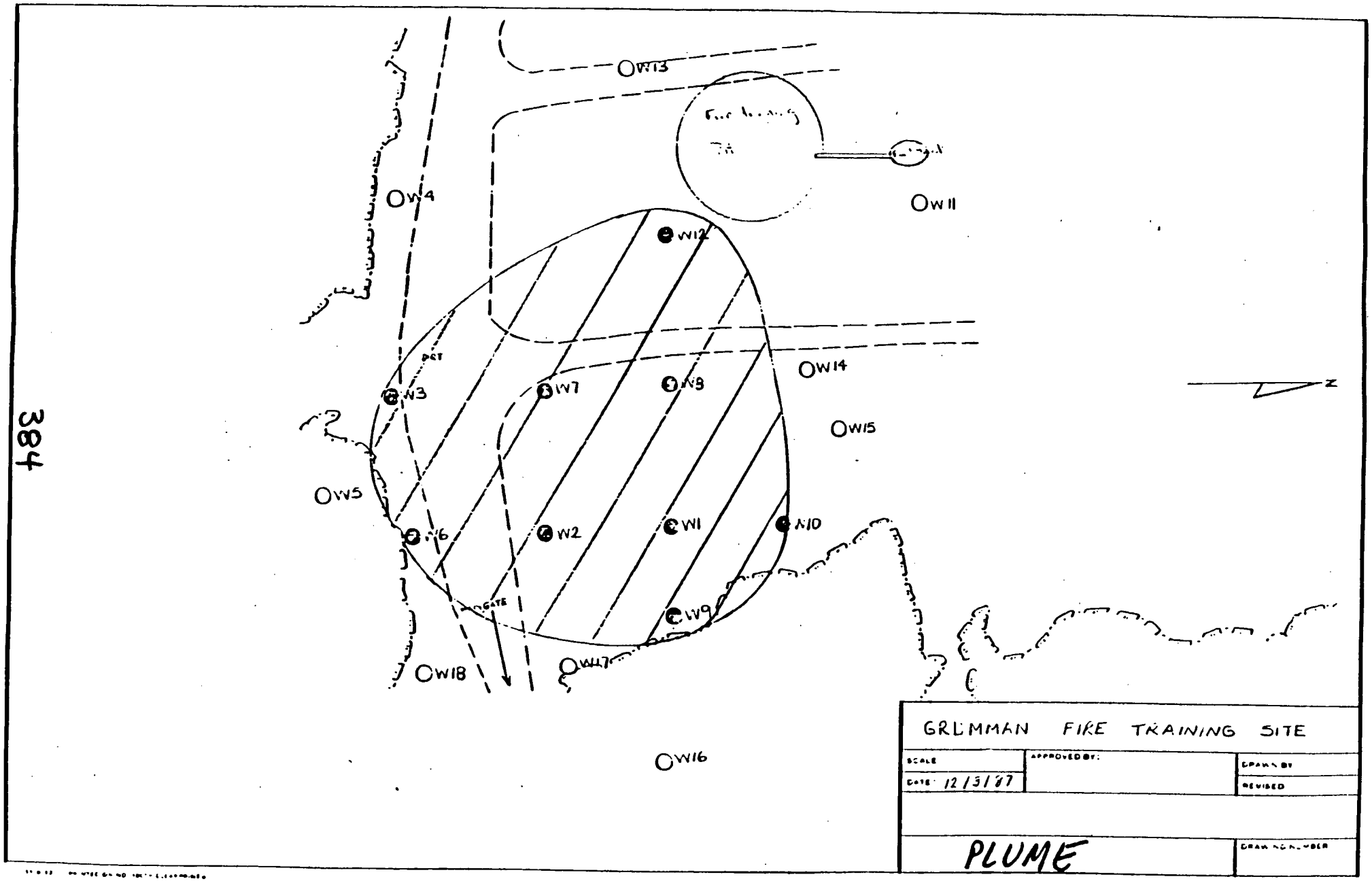
Drilling Fluid Used ____ Drilling Method Auger - Boom Truck

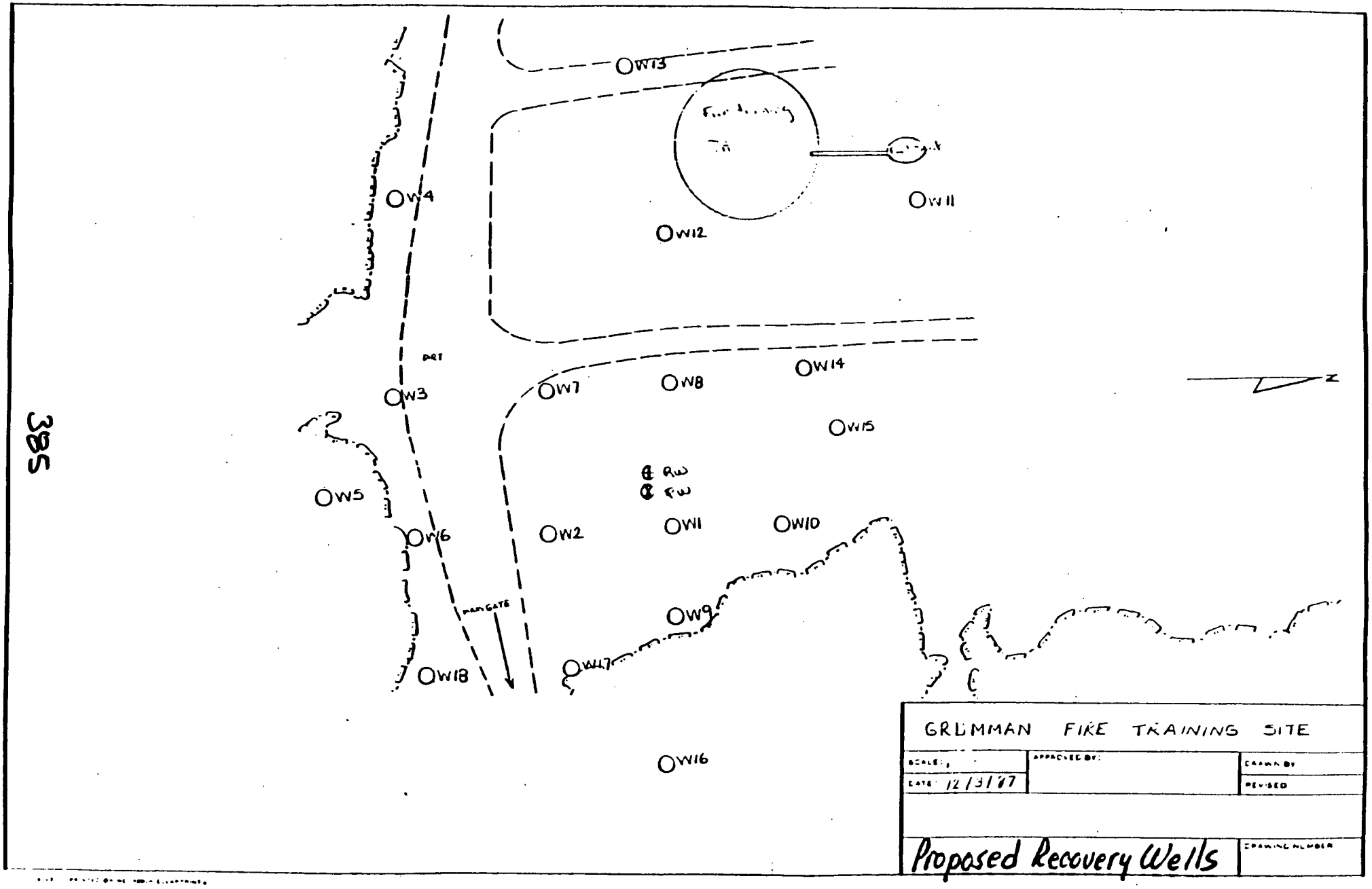
Drilling Contractor MPC Driller Jim Mayer Helper Kevin Jackson

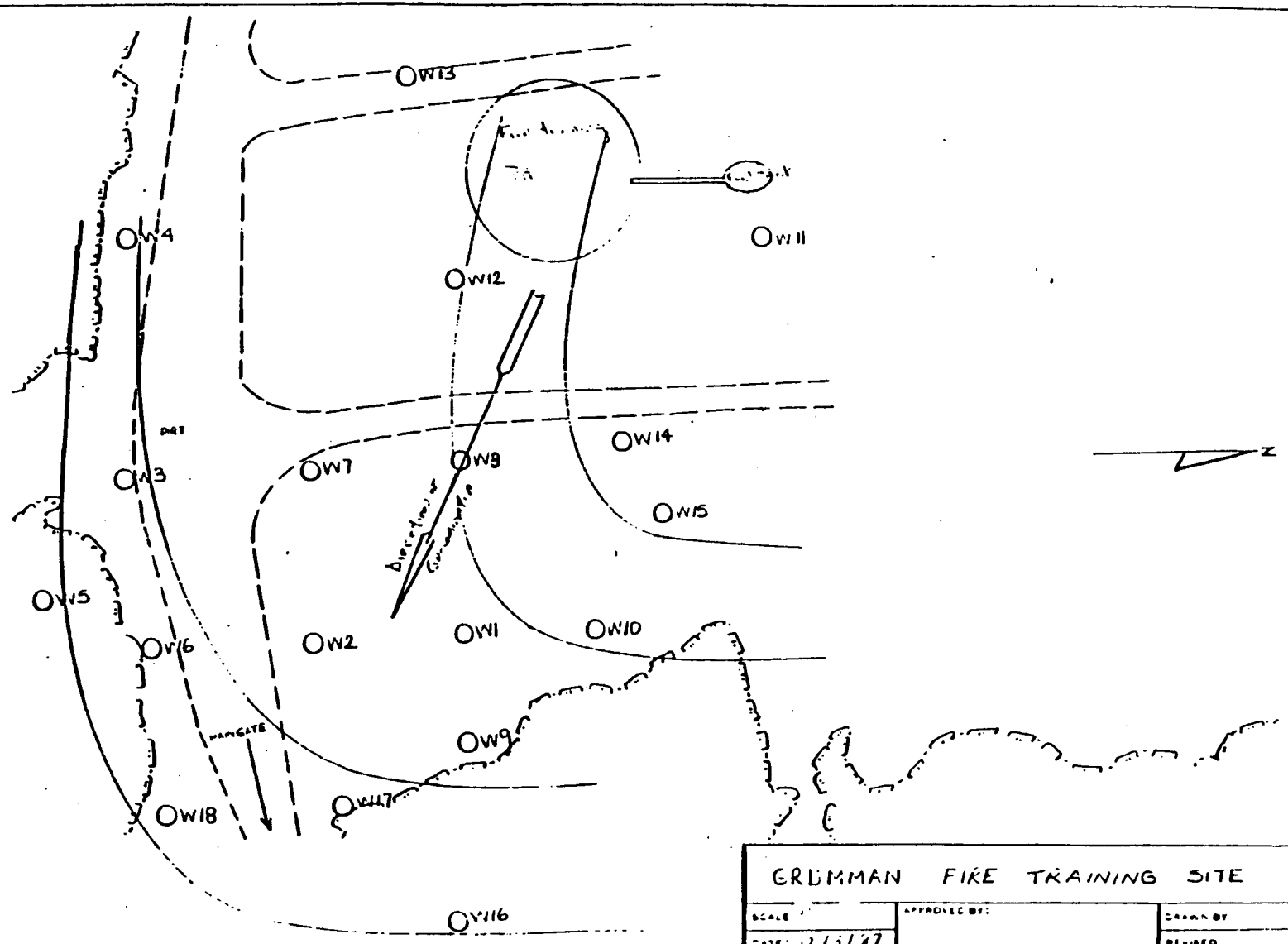
Prepared By John Goff Hammer Weight ____ Hammer Drop ____ inches

| | Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description | |
|---|---|---|---|---|---|---|
| #13 | 0 | 5' | | | Black fine sand | Petro Odor 1'-5' * |
| | 5' | 10' | | | Brown fine sand | slight odor * |
| | 10' | 20' | | | Brown fine sand | slight odor * |
| | | | | | (Total Pipe 25' stick up 3'6" Total Drilled 21'6") | |
| #15 | 0 | 15' | | | light brown, fine sand | No Odor |
| | | | | | (Total Pipe #14 23'6" #15 23'6 stick up 2' 2' Total Drilled 21'6" 21'6") | |
| #16 | 0 | 15' | | | light brown, fine sand | No Odor |
| #17 | 0 | 15' | | | light brown, fine sand | unknown odor @ 15' |
| #18 | 0 | 15' | | | light brown, fine sand | No Odor |

| | #16 | #17 | #18 |
|---|---|---|---|
| Total Pipe | 26' | 21'6" | 21'6" |
| Stick up | 2' | 1'6" | 2' |
| Total Drilled | 24' | 20' | 19'6" |


OW13
OW4
OW11
W12
OW14
W3
W7
W8
OW15
OW5
W6
W2
W1
W10
W9
OW18
OW17
OW16
N
GRUMMAN FIRE TRAINING SITE
SCALE
APPROVED BY:
DRAWN BY
DATE 12/3/87
REVISED
PLUME
DRAWING NUMBER


OW13
OW12
OW11
OW4
OW3
OW7
OW8
OW14
OW15
OW5
OW6
OW2
OW1
OW10
OW9
OW18
OW17
OW16
RW
RW
MAIN GATE
GRUMMAN FIRE TRAINING SITE
DATE 12/3/87
Proposed Recovery Wells




GRUMMAN FIRE TRAINING SITE

| | | |
|---|---|---|
| SCALE | APPROVED BY: | DRAWN BY |
| DATE 12/3/87 | | REVISED |
| Contours & Direction | | DRAWING NUMBER |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALU. FIRE TRAINING SPILL# 82-0923 DATE 12 20 90 TIME 0900

STORAGE TANK LEVEL 1 55.40 G. 2

CUMULATIVE TOTAL 216.45 G. GALLONS BAILED 0.50 G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAILED | |
| 1 | 14.75 | 14.31 | .44 | 1 | 14.37 | | |
| 2 | 13.60 | 13.33 | .27 | 2 | 13.37 | | |
| 3 | 13.29 | | | 32 | | | |
| 4 | 15.52 | | | 33 | | | |
| 5 | 14.33 | | | 34 | | | |
| 6 | 13.10 | | | 35 | | | |
| 7 | 14.00 | | | 36 | | | |
| 8 | 14.73 | | | 37 | | | |
| 9 | 17.88 | | | 38 | | | |
| 10 | 14.71 | | | 39 | | | |
| 11 | 20.17 | | | 40 | | | |
| 12 | 15.60 | | | 41 | | | |
| 13 | 16.23 | | | 42 | | | |
| 14 | 16.21 | | | 43 | | | |
| 15 | 15.64 | | | 44 | | | |
| 16 | 17.44 | | | 45 | | | |
| 17 | 13.83 | | | 46 | | | |
| 18 | 12.58 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALV. FIRE TRAINING SPILL# 82-0933 DATE 12/13/90 TIME 0830

STORAGE TANK LEVEL 1. 54.90 G. 2.

CUMULATIVE TOTAL 215.95 G. GALLONS BAILED 0.50 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 14.62 | 14.29 | .33 | 1 | 14.48 | | |
| 2 | 13.69 | 13.27 | .42 | 2 | 13.39 | | |
| 3 | 13.33 | 13.25 | .08 | 3 | 13.27 | | |
| 4 | 15.54 | | | 33 | | | |
| 5 | 14.33 | | | 34 | | | |
| 6 | 13.10 | | | 35 | | | |
| 7 | 14.02 | TRACE | | 36 | | | |
| 8 | 14.71 | | | 37 | | | |
| 9 | 17.88 | TRACE | | 38 | | | |
| 10 | 14.69 | TRACE | | 39 | | | |
| 11 | 20.13 | | | 40 | | | |
| 12 | 15.56 | | | 41 | | | |
| 13 | 16.21 | | | 42 | | | |
| 14 | 16.19 | | | 43 | | | |
| 15 | 15.64 | | | 44 | | | |
| 16 | 17.44 | | | 45 | | | |
| 17 | 13.83 | | | 46 | | | |
| 18 | 12.58 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fire Train Area SPILL# 82-0923 DATE 12/7/90 TIME 1100

STORAGE TANK LEVEL 1 54.40 G. 2.

CUMULATIVE TOTAL 215.45 G. GALLONS BAILED 0.25 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAILED | |
| 1 | 14.50 | 14.22 | 0.28 | 1 | 14.29 | 14.25 | 0.04 |
| 2 | 13.40 | 13.25 | 0.15 | 2 | 13.29 | 13.28 | 0.01 |
| 3 | 13.20 | TRACE | | 32 | | | |
| 4 | 15.50 | | | 33 | | | |
| 5 | 14.27 | | | 34 | | | |
| 6 | 13.05 | | | 35 | | | |
| 7 | 13.90 | TRACE | | 36 | | | |
| 8 | 14.65 | TRACE | | 37 | | | |
| 9 | 17.75 | TRACE | | 38 | | | |
| 10 | 14.61 | TRACE | | 39 | | | |
| 11 | 20.10 | | | 40 | | | |
| 12 | 15.50 | | | 41 | | | |
| 13 | 16.15 | TRACE | | 42 | | | |
| 14 | 16.15 | | | 43 | | | |
| 15 | 15.60 | | | 44 | | | |
| 16 | 17.39 | | | 45 | | | |
| 17 | 13.77 | | | 46 | | | |
| 18 | 12.55 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fire Training SPILL# 82-0923 DATE 11,28,90 TIME 0900

STORAGE TANK LEVEL 1 54.2 G. 2.

CUMULATIVE TOTAL 215.2 G. GALLONS BAILED 1.5 GAL

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Bailed | |
| | | | | 29 | | | |
| 1 | 14.64 | 14.25 | .39 | 1 | 14.39 | | |
| 2 | 13.54 | 13.27 | .27 | 2 | 13.35 | | |
| 3 | 13.29 | 13.21 | .08 | 3 | 13.27 | | |
| 4 | 15.48 | | | 33 | | | |
| 5 | 14.29 | | | 34 | | | |
| 6 | 13.08 | | | 35 | | | |
| 7 | 14.00 | TRACE | | 36 | | | |
| 8 | 14.64 | | | 37 | | | |
| 9 | 17.83 | 17.75 | .08 | 9 | 17.79 | | |
| 10 | 14.64 | TRACE | | 39 | | | |
| 11 | 20.06 | | | 40 | | | |
| 12 | 15.52 | | | 41 | | | |
| 13 | 16.15 | | | 42 | | | |
| 14 | 16.15 | | | 43 | | | |
| 15 | 15.58 | | | 44 | | | |
| 16 | 17.39 | | | 45 | | | |
| 17 | 13.81 | | | 46 | | | |
| 18 | 12.54 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FIRE TRAIN SPILL# 82-0923 DATE 11/20/90 TIME 1015

STORAGE TANK LEVEL 1. 52.7 G. 2.

CUMULATIVE TOTAL 213.7 G. GALLONS BAILED 0.20G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | AFTER BAILED | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 14.40 | 14.30 | 0.20 | 30 | 14.24 | 14.21 | 0.03 |
| 2 | 13.30 | 13.22 | 0.08 | 31 | 13.27 | 13.26 | 0.01 |
| 3 | 13.14 | 13.13 | 0.01 | 32 | | | |
| 4 | 15.41 | | | 33 | | | |
| 5 | 14.23 | | | 34 | | | |
| 6 | 13.00 | | | 35 | | | |
| 7 | 13.87 | 13.85 | 0.02 | 36 | | | |
| 8 | 14.60 | TRACE | | 37 | | | |
| 9 | 17.70 | TRACE | | 38 | | | |
| 10 | 14.55 | TRACE | | 39 | | | |
| 11 | 20.00 | | | 40 | | | |
| 12 | 15.45 | TRACE | | 41 | | | |
| 13 | 16.10 | TRACE | | 42 | | | |
| 14 | 16.08 | | | 43 | | | |
| 15 | 15.55 | | | 44 | | | |
| 16 | 17.35 | | | 45 | | | |
| 17 | 13.75 | | | 46 | | | |
| 18 | 12.50 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Cal. Fire Training SPILL# 82-0923 DATE 11/7/90 TIME 0900

STORAGE TANK LEVEL 1 52.00 2

CUMULATIVE TOTAL 213G. GALLONS BAILED 0.50 G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | After | Bailed | |
| 1 | 14.30 | 14.10 | .20 | 1 | 14.30 | | |
| 2 | 13.33 | 13.15 | .18 | 2 | 13.40 | | |
| 3 | 13.11 | 13.00 | .11 | 3 | 13.10 | | |
| 4 | 15.32 | | | 33 | | | |
| 5 | 14.14 | | | 34 | | | |
| 6 | 12.91 | | | 35 | | | |
| 7 | 13.85 | 13.75 | .13 | 7 | 13.90 | | |
| 8 | 14.50 | | | 37 | | | |
| 9 | 17.65 | trace | | 38 | | | |
| 10 | 14.45 | trace | | 39 | | | |
| 11 | 19.92 | | | 40 | | | |
| 12 | 15.37 | | | 41 | | | |
| 13 | 16.00 | | | 42 | | | |
| 14 | 16.00 | | | 43 | | | |
| 15 | 15.42 | | | 44 | | | |
| 16 | 17.25 | | | 45 | | | |
| 17 | 13.65 | | | 46 | | | |
| 18 | 12.40 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAINING SPILL# 82-0923 DATE 11/14/90 TIME 0900

STORAGE TANK LEVEL 1. 52.50G. 2.

CUMULATIVE TOTAL 213.50G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | | AFTER | BAILED | |
| | | | | 29 | | | |
| 1 | 14.50 | 14.15 | .35 | 1 | 14.30 | | |
| 2 | 13.50 | 13.20 | .30 | 2 | 13.30 | | |
| 3 | 13.15 | TRACE | | 32 | | | |
| 4 | 15.40 | | | 33 | | | |
| 5 | 14.20 | | | 34 | | | |
| 6 | 13.00 | | | 35 | | | |
| 7 | 13.92 | 13.82 | .10 | 7 | 13.90 | | |
| 8 | 14.60 | | | 37 | | | |
| 9 | 17.75 | TRACE | | 38 | | | |
| 10 | 14.55 | TRACE | | 39 | | | |
| 11 | 19.97 | | | 40 | | | |
| 12 | 15.42 | | | 41 | | | |
| 13 | 16.06 | | | 42 | | | |
| 14 | 16.05 | | | 43 | | | |
| 15 | 15.50 | | | 44 | | | |
| 16 | 17.30 | | | 45 | | | |
| 17 | 13.72 | | | 46 | | | |
| 18 | 12.95 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman (Calverton) Fire Train SPILL# 87-0923 DATE 11-1-90 TIME 1200

STORAGE TANK LEVEL 1. 51.50G. 2.

CUMULATIVE TOTAL 212.50G. GALLONS BAILED 0.5G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | CW | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | 11.09 | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | Bailing | |
| 1 | 14.19 | 14.00 | .19 | 1 | 14.08 | | |
| 2 | 13.22 | 13.01 | .21 | 2 | 13.14 | | |
| 3 | 13.01 | 12.94 | .07 | 3 | 13.02 | | |
| 4 | 15.23 | | | 33 | | | |
| 5 | 14.04 | | | 34 | | | |
| 6 | 12.81 | | | 35 | | | |
| 7 | 13.81 | 13.65 | .16 | 7 | 13.75 | | |
| 8 | 14.41 | 14.40 | .01 | 8 | 14.43 | | |
| 9 | 17.53 | 17.52 | .01 | 9 | 17.56 | | |
| 10 | 14.42 | 14.35 | .07 | 10 | 14.44 | | |
| 11 | 19.83 | | | 40 | | | |
| 12 | 15.27 | 15.26 | .01 | 12 | 15.30 | | |
| 13 | 15.92 | | | 42 | | | |
| 14 | 15.89 | | | 43 | | | |
| 15 | 15.34 | | | 44 | | | |
| 16 | 17.13 | | | 45 | | | |
| 17 | 13.56 | | | 46 | | | |
| 18 | 12.29 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALV. FIRE TRAINING SPILL# 82-0923 DATE 10,24,90 TIME 1200

STORAGE TANK LEVEL 1. 51 G. 2.

CUMULATIVE TOTAL 212 G. GALLONS BAILED 0.50 G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | | AFTER | BAIL | |
| | | | | 29 | | | |
| 1 | 14.10 | 13.90 | .20 | 1 | 14.00 | | |
| 2 | 13.10 | 12.95 | .15 | 2 | 12.96 | | |
| 3 | 12.87 | TRACE | | 32 | | | |
| 4 | 15.15 | | | 33 | | | |
| 5 | 13.95 | | | 34 | | | |
| 6 | 12.70 | | | 35 | | | |
| 7 | 13.70 | 13.60 | .10 | 7 | 13.60 | | |
| 8 | 14.32 | | | 37 | | | |
| 9 | 17.45 | TRACE | | 38 | | | |
| 10 | 14.30 | TRACE | | 39 | | | |
| 11 | 19.76 | | | 40 | | | |
| 12 | 15.21 | | | 41 | | | |
| 13 | 15.85 | | | 42 | | | |
| 14 | 15.80 | | | 43 | | | |
| 15 | 15.25 | | | 44 | | | |
| 16 | 12.02 | | | 45 | | | |
| 17 | 13.45 | | | 46 | | | |
| 18 | 12.15 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAINING SPILL# 82-0923 DATE 10/18/90 TIME 0900

STORAGE TANK LEVEL 1. 50.50 G. 2.

CUMULATIVE TOTAL 211.50 G. GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER BAIL | | |
| 1 | 14.35 | 14.10 | .25 | 1 | 14.20 | | |
| 2 | 13.22 | TRACE | | 31 | | | |
| 3 | 13.07 | TRACE | | 32 | | | |
| 4 | 14.35 | | | 33 | | | |
| 5 | 14.15 | | | 34 | | | |
| 6 | 12.92 | | | 35 | | | |
| 7 | 13.50 | TRACE | | 36 | | | |
| 8 | 14.55 | TRACE | | 37 | | | |
| 9 | 17.70 | 17.63 | .07 | 9 | 17.72 | | |
| 10 | 14.52 | TRACE | | 39 | | | |
| 11 | 19.95 | | | 40 | | | |
| 12 | 16.40 | | | 41 | | | |
| 13 | 16.02 | | | 42 | | | |
| 14 | 16.00 | | | 43 | | | |
| 15 | 15.43 | | | 44 | | | |
| 16 | 12.25 | | | 45 | | | |
| 17 | 13.66 | | | 46 | | | |
| 18 | 12.40 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAIN SPILL# 82-0923 DATE 10/11/90 TIME 0830

STORAGE TANK LEVEL 1. 50.25 2.

CUMULATIVE TOTAL 211.25 GALLONS BAILED 0.25G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 14.30 | 14.15 | .15 | 1 | 14.20 | | |
| 2 | 13.25 | 13.20 | .05 | 2 | 13.20 | | |
| 3 | 13.15 | TRACE | | 32 | | | |
| 4 | 15.35 | | | 33 | | | |
| 5 | 14.18 | | | 34 | | | |
| 6 | 12.95 | | | 35 | | | |
| 7 | 13.82 | TRACE | | 36 | | | |
| 8 | 14.55 | | | 37 | | | |
| 9 | 17.72 | 17.65 | .07 | 9 | 17.68 | | |
| 10 | 14.52 | TRACE | | 39 | | | |
| 11 | 19.95 | | | 40 | | | |
| 12 | 16.41 | | | 41 | | | |
| 13 | 16.03 | | | 42 | | | |
| 14 | 16.00 | | | 43 | | | |
| 15 | 15.46 | | | 44 | | | |
| 16 | 17.27 | | | 45 | | | |
| 17 | 13.68 | | | 46 | | | |
| 18 | 12.42 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALV. FIRE TRAINING SPILL# 82-0923 DATE 10/4/90 TIME 0900

STORAGE TANK LEVEL 1: 50G. 2.

CUMULATIVE TOTAL 211G GALLONS BAILED 0.30

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 14.25 | 14.07 | .18 | 1 | 14.15 | | |
| 2 | 13.17 | 13.12 | .05 | 2 | 13.15 | | |
| 3 | 13.03 | TRACE | | 32 | | | |
| 4 | 15.28 | | | 33 | | | |
| 5 | 14.05 | | | 34 | | | |
| 6 | 12.88 | | | 35 | | | |
| 7 | 13.77 | TRACE | | 36 | | | |
| 8 | 14.48 | TRACE | | 37 | | | |
| 9 | 17.20 | 17.00 | .10 | 9 | 17.65 | | |
| 10 | 14.54 | 14.45 | .09 | 10 | 14.45 | | |
| 11 | 19.88 | | | 40 | | | |
| 12 | 15.35 | | | 41 | | | |
| 13 | 15.96 | | | 42 | | | |
| 14 | 15.95 | | | 43 | | | |
| 15 | 15.40 | | | 44 | | | |
| 16 | 17.22 | | | 45 | | | |
| 17 | 13.62 | | | 46 | | | |
| 18 | 12.36 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fire Training SPILL# 82-0923 DATE 9/27/90 TIME 090[illegible]

STORAGE TANK LEVEL 1 48.75 G. 2.

CUMULATIVE TOTAL 209.75 G GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER BAIL | | |
| 1 | 14.12 | 14.02 | .10 | 1 | 14.05 | | |
| 2 | 13.10 | 13.03 | .07 | 2 | 13.06 | | |
| 3 | 12.96 | TRACE | | 32 | | | |
| 4 | 15.20 | | | 33 | | | |
| 5 | 14.03 | | | 34 | | | |
| 6 | 12.81 | | | 35 | | | |
| 7 | 13.65 | TRACE | | 36 | | | |
| 8 | 14.40 | | | 37 | | | |
| 9 | 17.60 | 17.52 | .08 | 9 | 17.56 | | |
| 10 | 14.50 | 14.35 | .15 | 10 | 14.38 | | |
| 11 | 19.80 | | | 40 | | | |
| 12 | 15.27 | | | 41 | | | |
| 13 | 15.85 | | | 42 | | | |
| 14 | 15.88 | | | 43 | | | |
| 15 | 15.33 | | | 44 | | | |
| 16 | 17.12 | | | 45 | | | |
| 17 | 13.54 | | | 46 | | | |
| 18 | 12.30 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAINING SPILL# 82-0923 DATE 9/21/90 TIME 0900

STORAGE TANK LEVEL 1 48.5 G. 2.

CUMULATIVE TOTAL 209.5 G. GALLONS BAILED 0.5

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | | AFTER BAIL | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 14.13 | 13.98 | .15 | 1 | 14.02 | | |
| 2 | 13.05 | 13.00 | .05 | 2 | 13.02 | | |
| 3 | 12.93 | TRACE | | 32 | | | |
| 4 | 15.14 | | | 33 | | | |
| 5 | 13.99 | | | 34 | | | |
| 6 | 12.76 | | | 35 | | | |
| 7 | 13.62 | TRACE | | 36 | | | |
| 8 | 14.35 | | | 37 | | | |
| 9 | 17.55 | 17.48 | .07 | 9 | 17.50 | | |
| 10 | 14.44 | 14.31 | .13 | 10 | 14.42 | | |
| 11 | 19.75 | | | 40 | | | |
| 12 | 15.22 | | | 41 | | | |
| 13 | 15.83 | | | 42 | | | |
| 14 | 15.83 | | | 43 | | | |
| 15 | 15.28 | | | 44 | | | |
| 16 | 17.10 | | | 45 | | | |
| 17 | 13.51 | | | 46 | | | |
| 18 | 12.25 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAINING SPILL# 82-0923 DATE 9/4/90 TIME 0830

STORAGE TANK LEVEL 1 48 G. 2.

CUMULATIVE TOTAL 209 G. GALLONS BAILED 1 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | | | | |
| | | | | | AFTER BAIL | | |
| 1 | 14.10 | 13.92 | .18 | 1 | 14.10 | | |
| 2 | 12.98 | TRACE | | 31 | | | |
| 3 | 12.87 | TRACE | | 32 | | | |
| 4 | 15.09 | | | 33 | | | |
| 5 | 13.93 | | | 34 | | | |
| 6 | 12.72 | | | 35 | | | |
| 7 | 13.56 | TRACE | | 36 | | | |
| 8 | 14.29 | | | 37 | | | |
| 9 | 17.50 | 17.45 | .05 | 9 | 12.46 | | |
| 10 | 14.42 | 14.26 | .16 | 10 | 14.39 | | |
| 11 | 19.68 | | | 40 | | | |
| 12 | 15.15 | | | 41 | | | |
| 13 | 15.75 | | | 42 | | | |
| 14 | 15.77 | | | 43 | | | |
| 15 | 15.72 | | | 44 | | | |
| 16 | 17.05 | | | 45 | | | |
| 17 | 13.48 | | | 46 | | | |
| 18 | 12.22 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALU. FIRE TRAINING SPILL# 82-0923 DATE 9/5/90 TIME 0900

STORAGE TANK LEVEL 1. 47 G. 2.

CUMULATIVE TOTAL 208 G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | After Bailed | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 14.03 | 13.78 | .25 | 1 | 13.85 | 13.80 | .05 |
| 2 | 12.85 | 12.80 | .05 | 2 | 12.85 | TRACE | |
| 3 | 12.75 | 12.68 | .07 | 3 | 12.75 | TRACE | |
| 4 | 14.93 | | | 33 | | | |
| 5 | 12.80 | | | 34 | | | |
| 6 | 12.58 | | | 35 | | | |
| 7 | 13.40 | TRACE | | 36 | | | |
| 8 | 14.15 | | | 37 | | | |
| 9 | 17.45 | 17.30 | .15 | 9 | 17.31 | 17.30 | 0.01 |
| 10 | 14.40 | 14.10 | .30 | 10 | 14.11 | 14.10 | 0.01 |
| 11 | 19.52 | | | 40 | | | |
| 12 | 15.00 | TRACE | | 41 | | | |
| 13 | 15.60 | | | 42 | | | |
| 14 | 15.62 | | | 43 | | | |
| 15 | 15.06 | TRACE | | 44 | | | |
| 16 | 16.90 | | | 45 | | | |
| 17 | 13.32 | | | 46 | | | |
| 18 | 12.06 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON - FIRE TRAINING SPILL# 82-0923 DATE 5/31/90 TIME 8:30

STORAGE TANK LEVEL 1 47 G. 2.

CUMULATIVE TOTAL 208 G. GALLONS BAILED 0.60

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 13.98 | 13.79 | 0.19 | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 10.84 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.94 | 13.63 | 0.31 | 1 | 13.75 | TRACE | |
| 2 | 12.71 | TRACE | | 31 | | | |
| 3 | 12.67 | 12.56 | 0.11 | 3 | 12.61 | TRACE | |
| 4 | 14.83 | | | 33 | | | |
| 5 | 13.69 | | | 34 | | | |
| 6 | 12.46 | | | 35 | | | |
| 7 | 13.32 | TRACE | | 36 | | | |
| 8 | 14.03 | TRACE | | 37 | | | |
| 9 | 17.35 | 17.15 | 0.20 | 9 | 17.22 | TRACE | |
| 10 | 14.11 | 13.99 | 0.12 | 10 | 14.03 | TRACE | |
| 11 | 19.43 | | | 40 | | | |
| 12 | 14.86 | TRACE | | 41 | | | |
| 13 | 15.50 | | | 42 | | | |
| 14 | 15.57 | | | 43 | | | |
| 15 | 14.97 | | | 44 | | | |
| 16 | 16.81 | | | 45 | | | |
| 17 | 13.22 | | | 46 | | | |
| 18 | 11.97 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fultraining SPILL# 82-0923 DATE 8/23/90 TIME 0930

STORAGE TANK LEVEL 1. 46 G. 2.

CUMULATIVE TOTAL 207 G. GALLONS BAILED 0.60

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Bailed | |
| | | | | 29 | | | |
| 1 | 13.76 | 13.53 | .23 | 1. | 13.57 | Trace | |
| 2 | 12.6 | Trace | | 31 | | | |
| 3 | 12.56 | 12.47 | .09 | 3. | 12.48 | Trace | |
| 4 | 14.74 | | | 33 | | | |
| 5 | 13.6 | | | 34 | | | |
| 6 | 12.37 | | | 35 | | | |
| 7 | 13.21 | Trace | | 36 | | | |
| 8 | 13.93 | Trace | | 37 | | | |
| 9 | 17.19 | 17.06 | .13 | 9. | 17.09 | Trace | |
| 10 | 13.95 | 13.9 | .05 | 10. | 13.92 | | |
| 11 | 19.93 | | | 40 | | | |
| 12 | 14.77 | | | 41 | | | |
| 13 | 15.4 | | | 42 | | | |
| 14 | 15.42 | | | 43 | | | |
| 15 | 14.87 | | | 44 | | | |
| 16 | 16.72 | | | 45 | | | |
| 17 | 19.13 | | | 46 | | | |
| 18 | 11.87 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fire Training SPILL# 82-0923 DATE 8-16-90 TIME [illegible]

STORAGE TANK LEVEL 1. 46 G. 2.

CUMULATIVE TOTAL 207 G. GALLONS BAILED 1 GAL.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | ON | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | Bailing | |
| 1 | 13.82 | 13.40 | .42 | 1 | 13.50 | 13.48 | .02 |
| 2 | 12.49 | 12.47 | .02 | 2 | 12.54 | | |
| 3 | 12.46 | 12.34 | .12 | 3 | 12.42 | | |
| 4 | 14.62 | | | 33 | | | |
| 5 | 13.47 | | | 34 | | | |
| 6 | [illegible] | | | 35 | | | |
| 7 | 13.10 | 13.09 | .01 | 7 | 13.14 | | |
| 8 | 13.82 | 13.80 | .02 | 8 | 13.86 | | |
| 9 | 17.11 | 16.94 | .17 | 9 | 17.02 | | |
| 10 | 13.79 | 13.77 | .02 | 10 | 13.85 | | |
| 11 | 19.20 | | | 40 | | | |
| 12 | 14.67 | | | 41 | | | |
| 13 | 15.29 | | | 42 | | | |
| 14 | 15.30 | | | 43 | | | |
| 15 | 14.25 | | | 44 | | | |
| 16 | 16.60 | | | 45 | | | |
| 17 | 13.00 | | | 46 | | | |
| 18 | 11.76 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fire Training - Calverton SPILL# 92-0923 DATE 8/10/90 TIME 0900

STORAGE TANK LEVEL 1 45 G. 2.

CUMULATIVE TOTAL 206 G. GALLONS BAILED 0.75

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Bailed | |
| | | | | 29 | | | |
| 1 | 13.7 | 13.4 | .03 | 1. | 13.45 | Trace | |
| 2 | 12.47 | Trace | | 31 | | | |
| 3 | 12.45 | 12.39 | .12 | 3. | 12.3 | Trace | |
| 4 | 13.6 | | | 33 | | | |
| 5 | 13.47 | | | 34 | | | |
| 6 | 12.25 | | | 35 | | | |
| 7 | 13.08 | Trace | | 36 | | | |
| 8 | 13.8 | Trace | | 37 | | | |
| 9 | 17.2 | 16.94 | .26 | 9. | 16.98 | Trace | |
| 10 | 13.79 | 13.78 | .01 | 10. | 13.78 | | |
| 11 | 19.2 | | | 40 | | | |
| 12 | 14.61 | | | 41 | | | |
| 13 | 15.26 | | | 42 | | | |
| 14 | 15.29 | | | 43 | | | |
| 15 | 14.75 | | | 44 | | | |
| 16 | 16.6 | | | 45 | | | |
| 17 | 13.01 | | | 46 | | | |
| 18 | 11.75 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FIRE TRAINING SPILL# 82-0923 DATE 8/3/90 TIME 9:45

STORAGE TANK LEVEL 1 44G. 2

CUMULATIVE TOTAL 205G. GALLONS BAILED 0.50G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | AFTER | BAILING | |
| | | | | 29 | | | |
| 1 | 13.89 | 13.29 | 0.60 | 1 | 13.28 | TRACE | |
| 2 | 12.38 | TRACE | | 31 | | | |
| 3 | 12.47 | 12.21 | 0.26 | 3 | 12.24 | TRACE | |
| 4 | 14.49 | | | 33 | | | |
| 5 | 13.37 | | | 34 | | | |
| 6 | 12.17 | | | 35 | | | |
| 7 | 13.05 | 12.97 | 0.08 | 7 | 12.98 | TRACE | |
| 8 | 13.71 | TRACE | | 37 | | | |
| 9 | 16.96 | 16.85 | 0.11 | 9 | 16.86 | TRACE | |
| 10 | 13.68 | TRACE | | 39 | | | |
| 11 | 19.06 | | | 40 | | | |
| 12 | 14.51 | | | 41 | | | |
| 13 | 15.14 | | | 42 | | | |
| 14 | 15.18 | | | 43 | | | |
| 15 | 14.63 | | | 44 | | | |
| 16 | 16.51 | | | 45 | | | |
| 17 | 12.92 | | | 46 | | | |
| 18 | 11.67 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton-Firetraining SPILL# 82-0929 DATE 7/27/90 TIME 1000

STORAGE TANK LEVEL 1 446.0 2.

CUMULATIVE TOTAL 205G. GALLONS BAILED 0.50 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Baild | |
| | | | | 29 | | | |
| 1 | 13.6 | 13.22 | .38 | 1 | 13.25 | Trace | |
| 2 | 12.29 | | | 31 | | | |
| 3 | 12.3 | 12.15 | .15 | 3. | 12.04 | Trace | |
| 4 | 14.41 | | | 33 | | | |
| 5 | 19.99 | | | 34 | | | |
| 6 | 12.05 | | | 35 | | | |
| 7 | 12.9 | Trace | | 36 | | | |
| 8 | 19.6 | Trace | | 37 | | | |
| 9 | 16.82 | 16.78 | .04 | 9. | 16.78 | Trace | |
| 10 | 13.65 | 13.59 | .06 | 10. | 13.59 | | |
| 11 | 18.98 | | | 40 | | | |
| 12 | 14.45 | | | 41 | | | |
| 13 | 15.06 | | | 42 | | | |
| 14 | 15.09 | | | 43 | | | |
| 15 | 14.55 | | | 44 | | | |
| 16 | 16.41 | | | 45 | | | |
| 17 | 12.82 | | | 46 | | | |
| 18 | 11.57 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fire training SPILL# 82-0923 DATE 7/20/90 TIME 0990

STORAGE TANK LEVEL 1 44G. 2.

CUMULATIVE TOTAL 205G.

GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Bailed | |
| | | | | 29 | | | |
| 1 | 19.26 | 13.13 | .13 | 1. | 13.17 | Trace | |
| 2 | 12.2 | | | 31 | | | |
| 3 | 12.15 | 12.05 | .10 | 3. | 12.06 | | |
| 4 | 14.9 | | | 33 | | | |
| 5 | 19.2 | | | 34 | | | |
| 6 | 12. | | | 35 | | | |
| 7 | 12.82 | 12.78 | .04 | 7. | 12.84 | | |
| 8 | 13.51 | Trace | | 37 | | | |
| 9 | 16.69 | Trace | | 38 | | | |
| 10 | 19.58 | 13.48 | .10 | 10. | 13.48 | Trace | |
| 11 | 18.87 | | | 40 | | | |
| 12 | 14.34 | | | 41 | | | |
| 13 | 14.94 | | | 42 | | | |
| 14 | 15. | | | 43 | | | |
| 15 | 14.45 | | | 44 | | | |
| 16 | 16.34 | | | 45. | | | |
| 17 | 12.73 | | | 46 | | | |
| 18 | 11.48 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Firetraining SPILL# 82-0923 DATE 7/23/90 TIME 1030

STORAGE TANK LEVEL 1. 43 G. 2.

CUMULATIVE TOTAL 204 G. GALLONS BAILED 0.40

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | After | Bailed | |
| | | | | 29 | | | |
| 1 | 13.46 | 13.06 | .40 | 1. | 13.01 | Trace | |
| 2 | 12.12 | | | 31 | | | |
| 3 | 12. | 11.94 | .06 | 3. | 11.99 | | |
| 4 | 14.22 | | | 33 | | | |
| 5 | 13.11 | | | 34 | | | |
| 6 | 11.88 | | | 35 | | | |
| 7 | 12.71 | 12.69 | .02 | 7. | 13.68 | Trace | |
| 8 | 13.43 | Trace | | 37 | | | |
| 9 | 16.61 | | | 38 | | | |
| 10 | 13.68 | 13.38 | .30 | 10. | 13.38 | | |
| 11 | 18.79 | | | 40 | | | |
| 12 | 14.25 | | | 41 | | | |
| 13 | 14.88 | | | 42 | | | |
| 14 | 14.91 | | | 43 | | | |
| 15 | 14.37 | | | 44 | | | |
| 16 | 16.24 | | | 45 | | | |
| 17 | 12.64 | | | 46 | | | |
| 18 | 11.35 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Firetraining SPILL# 82-0923 DATE 7/5/90 TIME 0830

STORAGE TANK LEVEL 1. 0-43G 2.

CUMULATIVE TOTAL 204G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 12.77 | | | 30 | | | |
| 2 | 11.83 | | | 31 | | | |
| 3 | 11.76 | | | 32 | | | |
| 4 | 13.99 | | | 33 | | | |
| 5 | 12.87 | | | 34 | | | |
| 6 | 11.64 | | | 35 | | | |
| 7 | 12.42 | | | 36 | | | |
| 8 | 13.15 | | | 37 | | | |
| 9 | 16.34 | | | 38 | | | |
| 10 | 13.12 | | | 39 | | | |
| 11 | 18.59 | | | 40 | | | |
| 12 | 13.99 | | | 41 | | | |
| 13 | 14.64 | | | 42 | | | |
| 14 | 14.65 | | | 43 | | | |
| 15 | 14.12 | | | 44 | | | |
| 16 | 16.00 | | | 45 | | | |
| 17 | 12.39 | | | 46 | | | |
| 18 | 11.15 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Firetraing SPILL# 82-0923 DATE 6/29/90 TIME 1030

STORAGE TANK LEVEL 1. 43 G. 2.

CUMULATIVE TOTAL 204 G. GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | After | Bailed | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.06 | 12.93 | .13 | 1. | 12.94 | Trace | |
| 2 | 11.98 | | | 31 | | | |
| 3 | 11.84 | | | 32 | | | |
| 4 | 14.07 | | | 33 | | | |
| 5 | 12.99 | | | 34 | | | |
| 6 | 11.78 | | | 35 | | | |
| 7 | 12.60 | 12.56 | .04 | 7. | 12.57 | Trace | |
| 8 | 13.29 | | | 37 | | | |
| 9 | 16.49 | | | 38 | | | |
| 10 | 13.46 | 13.26 | .20 | 10. | 13.27 | Trace | |
| 11 | 14.64 | | | 40 | | | |
| 12 | 14.09 | | | 41 | | | |
| 13 | 14.71 | | | 42 | | | |
| 14 | 14.77 | | | 43 | | | |
| 15 | 14.24 | | | 44 | | | |
| 16 | 16.13 | | | 45 | | | |
| 17 | 12.63 | | | 46 | | | |
| 18 | 11.27 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fire training SPILL# 82-0923 DATE 6/21/90 TIME 1000

STORAGE TANK LEVEL 1. 042 G. 2.

CUMULATIVE TOTAL 203 G. GALLONS BAILED 0.40

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | AFTER | BAILED | |
| | | | | 29 | | | |
| 1 | 12.92 | 12.78 | .14 | 1. | 12.79 | Trace | |
| 2 | 11.82 | | | 31 | | | |
| 3 | 11.7 | | | 32 | | | |
| 4 | 13.9 | | | 33 | | | |
| 5 | 12.83 | | | 34 | | | |
| 6 | 11.63 | | | 35 | | | |
| 7 | 12.48 | 12.4 | .08 | 7. | 12.4 | Trace | |
| 8 | 13.13 | Trace | | 37 | | | |
| 9 | 16.3 | | | 38 | | | |
| 10 | 13.25 | 13.1 | .15 | 10. | 13.11 | Trace. | |
| 11 | 18.5 | | | 40 | | | |
| 12 | 19.94 | | | 41 | | | |
| 13 | 14.56 | | | 42 | | | |
| 14 | 14.61 | | | 43 | | | |
| 15 | 14.07 | | | 44 | | | |
| 16 | 15.97 | | | 45 | | | |
| 17 | 12.37 | | | 46 | | | |
| 18 | 11.11 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: [illegible] SPILL# 82-[illegible] DATE 6-13-90 TIME 1000

STORAGE TANK LEVEL 1. 42 G. 2.

CUMULATIVE TOTAL 2036 GALLONS BAILED 0.30

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | [illegible] | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | 9.59 | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | [illegible] | |
| 1 | 12.85 | 12.71 | .14 | 1 | 12.[illegible] | | |
| 2 | 11.77 | 11.76 | .01 | 2 | 11.79 | | |
| 3 | 11.63 | | | 32 | - | | |
| 4 | 12.[illegible] | | | 33 | - | | |
| 5 | 12.[illegible] | | | 34 | - | | |
| 6 | 11.[illegible] | | | 35 | - | | |
| 7 | 12.[illegible] | 12.33 | .19 | 7 | 12.45 | 12.41 | [illegible] |
| 8 | 13.07 | 13.06 | .01 | 8 | 12.[illegible] | | |
| 9 | 12.[illegible] | | | 38 | - | | |
| 10 | 13.1[illegible] | 13.04 | .07 | 10 | 13.1[illegible] | | |
| 11 | 12.42 | | | 40 | | | |
| 12 | 13.[illegible] | | | 41 | | | |
| 13 | 14.50 | | | 42 | | | |
| 14 | 14.55 | | | 43 | | | |
| 15 | 14.02 | | | 44 | | | |
| 16 | 13.91 | | | 45 | | | |
| 17 | 12.20 | | | 46 | | | |
| 18 | 11.06 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fire training - Calverton SPILL# 82-0929 DATE 6/7/90 TIME 08:30

STORAGE TANK LEVEL 1 426 2

CUMULATIVE TOTAL 2036 GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.14 | 13.01 | .13 | 30 | 13.01 | Trace | |
| 2 | 11.72 | Trace | | 31 | | | |
| 3 | 11.61 | | | 32 | | | |
| 4 | 13.83 | | | 33 | | | |
| 5 | 12.79 | | | 34 | | | |
| 6 | 11.5 | | | 35 | | | |
| 7 | 12.44 | 12.29 | .15 | 36 | 12.3 | | |
| 8 | 13.05 | Trace | | 37 | | | |
| 9 | 16.24 | | | 38 | | | |
| 10 | 12.72 | 12.68 | .04 | 39 | 13.01 | | |
| 11 | 18.41 | | | 40 | | | |
| 12 | 13.89 | | | 41 | | | |
| 13 | 14.49 | | | 42 | | | |
| 14 | 14.59 | | | 43 | | | |
| 15 | 13.99 | | | 44 | | | |
| 16 | 15.88 | | | 45 | | | |
| 17 | 12.87 | | | 46 | | | |
| 18 | 10.97 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Livetraining - SPILL# 82-0923 DATE 6/1/90 TIME 1000

STORAGE TANK LEVEL 1 0: 42 G. 2.

CUMULATIVE TOTAL 203G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.01 | 12.7 | .31 | 1. | 12.79 | Trace | |
| 2 | 11.75 | Trace | | 31 | | | |
| 3 | 11.64 | | | 32 | | | |
| 4 | 19.87 | | | 33 | | | |
| 5 | 12.75 | | | 34 | | | |
| 6 | 11.53 | | | 35 | | | |
| 7 | 12.46 | 12.32 | .14 | 7. | 12.34 | | |
| 8 | 13.07 | | | 37 | | | |
| 9 | 16.25 | | | 38 | | | |
| 10 | 13.25 | 13.04 | .21 | 10. | 13.06 | Trace | |
| 11 | 18.46 | | | 40 | | | |
| 12 | 13.93 | Trace | | 41 | | | |
| 13 | 14.56 | | | 42 | | | |
| 14 | 14.56 | | | 43 | | | |
| 15 | 14.02 | | | 44 | | | |
| 16 | 15.89 | | | 45 | | | |
| 17 | 12.28 | | | 46 | | | |
| 18 | 11.03 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fire Train Area SPILL# 820923 DATE 5-24-90 TIME 08:

STORAGE TANK LEVEL 1. 141 G. 2.

CUMULATIVE TOTAL 202 G. GALLONS BAILED 0.30

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | AFTER | BAILED | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.00 | 12.79 | 0.21 | 1 | 12.83 | TRACE | |
| 2 | 11.85 | SLIGHT TRACE | | 31 | | | |
| 3 | 11.76 | | | 32 | | | |
| 4 | 13.95 | | | 33 | | | |
| 5 | 12.85 | | | 34 | | | |
| 6 | 11.62 | | | 35 | | | |
| 7 | 12.42 | TRACE | | 36 | | | |
| 8 | 13.20 | 13.15 | 0.05 | 8 | 13.17 | TRACE | |
| 9 | 16.35 | | | 38 | | | |
| 10 | 13.20 | 13.11 | 0.09 | 10 | 13.20 | TRACE | |
| 11 | 18.55 | | | 40 | | | |
| 12 | 14.08 | | | 41 | | | |
| 13 | 14.60 | | | 42 | | | |
| 14 | 14.67 | | | 43 | | | |
| 15 | 14.10 | | | 44 | | | |
| 16 | 16.01 | | | 45 | | | |
| 17 | 12.39 | | | 46 | | | |
| 18 | 11.15 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Firetraining SPILL# 82-0929 DATE 5/17/90 TIME 1200

STORAGE TANK LEVEL 1. 0:41 G. 2.

CUMULATIVE TOTAL 202 G GALLONS BAILED 0.40

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | AFTER | BAILING | |
| | | | | 29 | | | |
| 1 | 12.95 | 12.81 | .14 | 1 | 12.83 | Trace | |
| 2 | 11.87 | | | 31 | | | |
| 3 | 11.74 | | | 32 | | | |
| 4 | 13.96 | | | 33 | | | |
| 5 | 12.85 | | | 34 | | | |
| 6 | 11.68 | | | 35 | | | |
| 7 | 12.53 | 12.44 | .09 | 6 | 12.5 | | |
| 8 | 13.17 | Trace | | 37 | | | |
| 9 | 16.37 | | | 38 | | | |
| 10 | 13.34 | 13.15 | .19 | 10 | 13.18 | Trace | |
| 11 | 18.55 | | | 40 | | | |
| 12 | 14. | | | 41 | | | |
| 13 | 14.62 | | | 42 | | | |
| 14 | 14.67 | | | 43 | | | |
| 15 | 14.14 | | | 44 | | | |
| 16 | 16. | | | 45 | | | |
| 17 | 12.39 | | | 46 | | | |
| 18 | 11.1 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fire train SPILL# 82-0923 DATE 5-10-90 TIME 0900

STORAGE TANK LEVEL 1. 41 G. 2.

CUMULATIVE TOTAL 202 G. GALLONS BAILED 0.50 GA

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | CN | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | 9.79 | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | Bailing | |
| 1 | 13.08 | 12.87 | .21 | 1 | 12.93 | Trace | |
| 2 | 11.92 | 11.91 | .01 | 2 | 11.94 | | |
| 3 | 11.78 | | | 32 | | | |
| 4 | 13.99 | | | 33 | | | |
| 5 | 12.91 | | | 34 | | | |
| 6 | 11.70 | | | 35 | | | |
| 7 | 12.62 | 12.47 | .15 | 7 | 12.61 | | |
| 8 | 13.22 | 13.21 | .01 | 8 | 13.25 | | |
| 9 | 16.41 | | | 38 | - | | |
| 10 | 13.27 | 13.18 | .09 | 10 | 13.03 | 13.02 | .01 |
| 11 | 18.56 | | | 40 | | | |
| 12 | 14.02 | | | 41 | | | |
| 13 | 14.64 | | | 42 | | | |
| 14 | 14.70 | | | 43 | | | |
| 15 | 14.08 | | | 44 | | | |
| 16 | 16.06 | | | 45 | | | |
| 17 | 12.46 | | | 46 | | | |
| 18 | 11.21 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton-Fire training SPILL# 82-0723 DATE 5/2/90 TIME 0945

STORAGE TANK LEVEL 1. 4060 2.

CUMULATIVE TOTAL 2016. GALLONS BAILED .40

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 12.54 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1. | 12.98 | 12.86 | .12 | 1. | 12.87 | | |
| 2 | 11.9 | | | 31 | | | |
| 3 | 11.77 | | | 32 | | | |
| 4 | 12.99 | | | 33 | | | |
| 5 | 12.9 | | | 34 | | | |
| 6 | 11.68 | | | 35 | | | |
| 7 | 12.58 | 12.46 | .12 | 7. | 12.48 | | |
| 8 | 13.2 | | | 37 | | | |
| 9 | 16.4 | | | 38 | | | |
| 10 | 13.32 | 13.17 | .15 | 10. | 13.2 | Trace | |
| 11 | 18.56 | | | 40 | | | |
| 12 | 14.04 | | | 41 | | | |
| 13 | 14.41 | | | 42 | | | |
| 14 | 14.69 | | | 43 | | | |
| 15 | 14.15 | | | 44 | | | |
| 16 | 16.05 | | | 45 | | | |
| 17 | 12.44 | | | 46 | | | |
| 18 | 11.19 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton-Firetraining SPILL# 82-0923 DATE 4/25/90 TIME 1000

STORAGE TANK LEVEL 1 40 G. 2.

CUMULATIVE TOTAL 201 G. GALLONS BAILED 0.40

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | Rain | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.02 | 12.81 | .21 | 30 | 12.9 | Trace. | |
| 2 | 11.87 | Trace | | 31 | | | |
| 3 | 11.75 | Trace | | 32 | | | |
| 4 | 13.98 | | | 33 | | | |
| 5 | 12.87 | | | 34 | | | |
| 6 | 11.63 | | | 35 | | | |
| 7 | 12.62 | 12.45 | .17 | 36 | 12.54 | | |
| 8 | 13.19 | Trace | | 37 | | | |
| 9 | 16.36 | | | 38 | | | |
| 10 | 13.32 | 13.14 | .18 | 39 | 13.2 | Trace | |
| 11 | 18.56 | | | 40 | | | |
| 12 | 14.04 | | | 41 | | | |
| 13 | 14.42 | | | 42 | | | |
| 14 | 14.67 | | | 43 | | | |
| 15 | 14.13 | Trace | | 44 | | | |
| 16 | 16. | | | 45 | | | |
| 17 | 12.4 | | | 46 | | | |
| 18 | 11.13 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fire Train SPILL# [illegible] DATE 1-17-90 TIME 1200

STORAGE TANK LEVEL 1. 40 G. 2.

CUMULATIVE TOTAL 201 G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | NW | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 9.79 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | After | Bailing | |
| 1 | 13.26 | 12.76 | .40 | 30 | 12.71 | | |
| 2 | 11.92 | Trace | | 31 | | | |
| 3 | 11.83 | 11.80 | .03 | 32 | 11.77 | | |
| 4 | 14.05 | | | 33 | | | |
| 5 | 12.92 | | | 34 | | | |
| 6 | 11.69 | | | 35 | | | |
| 7 | 12.65 | 12.50 | .15 | 36 | 12.53 | | |
| 8 | 13.27 | 13.26 | .01 | 37 | | | |
| 9 | 16.43 | | | 38 | | | |
| 10 | [illegible] | 13.21 | .11 | 39 | 13.27 | | |
| 11 | 18.64 | | | 40 | | | |
| 12 | 14.07 | | | 41 | | | |
| 13 | 14.47 | | | 42 | | | |
| 14 | 14.74 | | | 43 | | | |
| 15 | 14.20 | Trace | | 44 | | | |
| 16 | 16.02 | | | 45 | | | |
| 17 | 12.43 | | | 46 | | | |
| 18 | 11.17 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Firetraining SPILL# 82-0923 DATE 4/12/90 TIME 1030

STORAGE TANK LEVEL 1 396 2.

CUMULATIVE TOTAL 2006 GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.05 | 13. | .05 | 1 | 12.05 | | |
| 2 | 12.05 | | | 31 | | | |
| 3 | 11.97 | 11.92 | .05 | 3 | 10.98 | | |
| 4 | 14.18 | | | 33 | | | |
| 5 | 13.04 | | | 34 | | | |
| 6 | 11.82 | | | 35 | | | |
| 7 | 12.7 | 12.64 | .06 | 7 | 12.64 | Trace | |
| 8 | 12.37 | Trace | | 37 | | | |
| 9 | 16.54 | | | 38 | | | |
| 10 | 13.46 | 13.34 | .12 | 10 | 13.37 | | |
| 11 | 18.77 | | | 40 | | | |
| 12 | 14.22 | | | 41 | | | |
| 13 | 14.82 | | | 42 | | | |
| 14 | 14.87 | | | 43 | | | |
| 15 | 14.31 | Trace | | 44 | | | |
| 16 | 16.16 | | | 45 | | | |
| 17 | 12.57 | | | 46 | | | |
| 18 | 11.3 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calv Grumman Fire Train Area SPILL# 82-05-23 DATE 4-5-90 TIME 1200

STORAGE TANK LEVEL 1 396. 2.

CUMULATIVE TOTAL 200G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.04 | 13.02 | 0.02 | 30 | | | |
| 2 | 12.10 | | | 31 | | | |
| 3 | 11.97 | 11.95 | 0.02 | 32 | | | |
| 4 | 14.24 | | | 33 | | | |
| 5 | 13.10 | | | 34 | | | |
| 6 | 12.90 | | | 35 | | | |
| 7 | 12.69 | TRACE | | 36 | | | |
| 8 | 13.42 | TRACE | | 37 | | | |
| 9 | 16.57 | TRACE | | 38 | | | |
| 10 | 13.42 | 13.40 | | 39 | | | |
| 11 | 17.42 | | | 40 | | | |
| 12 | 14.27 | TRACE | | 41 | | | |
| 13 | 14.87 | | | 42 | | | |
| 14 | 14.95 | | | 43 | | | |
| 15 | 14.37 | | | 44 | | | |
| 16 | 16.25 | | | 45 | | | |
| 17 | 12.60 | | | 46 | | | |
| 18 | 11.35 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Firetraining SPILL# 88-0923 DATE: 3/29/90 TIME 0900

STORAGE TANK LEVEL 1 39 GAL. 2.

CUMULATIVE TOTAL 200 G GALLONS BAILED 0.03

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 12.83 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.21 | 13.16 | .05 | 1. | 13.17 | Trace | |
| 2 | 12.21 | | | 31 | | | |
| 3 | 13.02 | 12.07 | .95 | 3. | 12.07 | | |
| 4 | 14.3 | | | 33 | | | |
| 5 | 13.21 | | | 34 | | | |
| 6 | 11.98 | | | 35 | | | |
| 7 | 12.8 | Trace | | 36 | | | |
| 8 | 13.52 | Trace | | 37 | | | |
| 9 | 16.72 | | | 38 | | | |
| 10 | 13.6 | 13.51 | .09 | 10. | 13.52 | Trace | |
| 11 | 18.9 | | | 40 | | | |
| 12 | 14.36 | | | 41 | | | |
| 13 | 14.94 | | | 42 | | | |
| 14 | 15.02 | | | 43 | | | |
| 15 | 14.48 | | | 44 | | | |
| 16 | 16.35 | | | 45 | | | |
| 17 | 12.75 | | | 46 | | | |
| 18 | 11.49 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Lic training SPILL# 82-0923 DATE 9/29/90 TIME 1000

STORAGE TANK LEVEL 1. 39 G 2.

CUMULATIVE TOTAL 200 G GALLONS BAILED 0.06

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 19.85 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.15 | 19.05 | .10 | 1. | 13.05 | | |
| 2 | 12.12 | | | 31 | | | |
| 3 | 11.97 | | | 32 | | | |
| 4 | 14.2 | | | 33 | | | |
| 5 | 13.09 | | | 34 | | | |
| 6 | 11.88 | | | 35 | | | |
| 7 | 12.7 | Trace | | 36 | | | |
| 8 | 13.41 | | | 37 | | | |
| 9 | 16.6 | Trace | | 38 | | | |
| 10 | 13.48 | 13.4 | .08 | 10. | 13.4 | | |
| 11 | 15.79 | | | 40 | | | |
| 12 | 14.25 | | | 41 | | | |
| 13 | 14.83 | | | 42 | | | |
| 14 | 14.9 | | | 43 | | | |
| 15 | 14.36 | | | 44 | | | |
| 16 | 16.25 | | | 45 | | | |
| 17 | 12.65 | | | 46 | | | |
| 18 | 11.39 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fire Train SPILL# 82-0923 DATE 3-15-90 TIME 1030

STORAGE TANK LEVEL 1 39 G. 2.

CUMULATIVE TOTAL 200 G. GALLONS BAILED 112

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | (X) | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | 9.89 | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | Bailing | |
| 1 | 13.12 | 12.98 | .14 | 30 | 13.05 | | |
| 2 | 12.02 | | | 31 | | | |
| 3 | 11.90 | | | 32 | | | |
| 4 | 14.11 | | | 33 | | | |
| 5 | 13.01 | | | 34 | | | |
| 6 | 11.79 | | | 35 | | | |
| 7 | 12.69 | 12.59 | .10 | 36 | 12.63 | | |
| 8 | 13.36 | 13.32 | .04 | 37 | 13.43 | | |
| 9 | 16.51 | | | 38 | | | |
| 10 | 13.45 | 13.29 | .16 | 39 | 13.36 | Trace | |
| 11 | 18.68 | | | 40 | | | |
| 12 | 14.16 | | | 41 | | | |
| 13 | 14.73 | | | 42 | | | |
| 14 | 14.51 | | | 43 | | | |
| 15 | 14.28 | | | 44 | | | |
| 16 | 16.17 | | | 45 | | | |
| 17 | 12.56 | | | 46 | | | |
| 18 | 11.31 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FIRE TRAIN AREA SPILL# 82-0923 DATE 3-5-90 TIME 0915

STORAGE TANK LEVEL 1 39 G. 2.

CUMULATIVE TOTAL 200 G. GALLONS BAILED 0.20 G.

Flowmeter #1. 33 Gpm Gallons Pumped 862752

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | AFTER | BAILED | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.00 | 12.92 | 0.08 | 1 | 12.96 | TRACE | |
| 2 | 11.95 | | | 31 | | | |
| 3 | 11.87 | | | 32 | | | |
| 4 | 14.05 | | | 33 | | | |
| 5 | 12.95 | | | 34 | | | |
| 6 | 11.73 | | | 35 | | | |
| 7 | 12.60 | 12.51 | 0.09 | 7 | 12.53 | TRACE | |
| 8 | 13.27 | TRACE | | 37 | | | |
| 9 | 16.45 | | | 38 | | | |
| 10 | 13.40 | 13.22 | 0.18 | 10 | 13.28 | 13.27 | 0.01 |
| 11 | 18.62 | | | 40 | | | |
| 12 | 14.07 | | | 41 | | | |
| 13 | 14.67 | TRACE | | 42 | | | |
| 14 | 14.75 | | | 43 | | | |
| 15 | 14.22 | | | 44 | | | |
| 16 | 16.10 | | | 45 | | | |
| 17 | 12.50 | | | 46 | | | |
| 18 | 11.25 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fire train SPILL# 82-0923 DATE 2-23-90 TIME 0930

STORAGE TANK LEVEL 1. 39 G. 2.

CUMULATIVE TOTAL 200 G. GALLONS BAILED 0.25 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | ON | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | bailing | |
| 1 | 12.95 | 12.80 | .15 | 30 | 12.84 | | |
| 2 | 11.84 | | | 31 | | | |
| 3 | 11.70 | | | 32 | | | |
| 4 | 13.92 | | | 33 | | | |
| 5 | 12.83 | | | 34 | | | |
| 6 | 11.83 | | | 35 | | | |
| 7 | 12.56 | 12.41 | .15 | 36 | 12.49 | | |
| 8 | 13.15 | Trace | | 37 | | | |
| 9 | 16.33 | | | 38 | | | |
| 10 | 13.39 | 13.10 | .29 | 39 | 13.18 | | |
| 11 | 18.50 | | | 40 | | | |
| 12 | 13.97 | | | 41 | | | |
| 13 | 14.54 | | | 42 | | | |
| 14 | 14.63 | | | 43 | | | |
| 15 | 14.10 | | | 44 | | | |
| 16 | 15.99 | | | 45 | | | |
| 17 | 12.38 | | | 46 | | | |
| 18 | 11.14 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CHLV. FIRE TRAINING SPILL# 82-0923 DATE 2/27/90 TIME 1030

STORAGE TANK LEVEL 1. 39G. 2.

CUMULATIVE TOTAL 200G. GALLONS BAILED 0.25G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | AFTER BAIL | | |
| | | | | 29 | | | |
| 1 | 12.92 | 12.86 | .06 | 1 | 12.90 | | |
| 2 | 11.92 | | | 31 | | | |
| 3 | FROZEN | | | 32 | | | |
| 4 | 14.02 | | | 33 | | | |
| 5 | 12.90 | | | 34 | | | |
| 6 | 11.69 | | | 35 | | | |
| 7 | 12.55 | 12.48 | .07 | 7 | 12.60 | | |
| 8 | 13.22 | TRACE | | 37 | | | |
| 9 | 16.40 | | | 38 | | | |
| 10 | 13.21 | 13.04 | .17 | 10 | 13.06 | | |
| 11 | 18.56 | | | 40 | | | |
| 12 | 14.06 | | | 41 | | | |
| 13 | 14.62 | | | 42 | | | |
| 14 | 14.70 | | | 43 | | | |
| 15 | 14.17 | | | 44 | | | |
| 16 | 16.05 | | | 45 | | | |
| 17 | 12.45 | | | 46 | | | |
| 18 | 11.20 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALW. FIRE TRAINING SPILL# 82-0923 DATE 2-7-90 TIME 1345

STORAGE TANK LEVEL 1. 38-G. 2.

CUMULATIVE TOTAL 199 GAL. GALLONS BAILED 0.50 GAL.

| WELL # | DTW | DTP | PRODUCT | # | | | |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | | | | |
| RW 2. | | | | | | | |
| RW 3. | | | | | | | |
| RW 4. | | | | | | | |
| PW 1 | | | | | | | |
| PW 2 | | | | | | | |
| IW | | | | | | | |
| | | | | | | | |
| 1 | 13.25 | 12.90 | 0.35 | | 13.00 | 12.96 | 0.04 |
| 2 | 11.94 | | | | | | |
| 3 | 11.60 | TRACE | | | | | |
| 4 | 14.10 | | | | | | |
| 5 | 12.95 | | | | | | |
| 6 | 11.99 | | | | | | |
| 7 | 12.52 | TRACE | | | | | |
| 8 | 13.26 | TRACE | | | | | |
| 9 | 16.40 | TRACE | | | | | |
| 10 | 10.45 | 10.25 | 0.20 | | 10.30 | 10.28 | 0.02 |
| 11 | 18.70 | | | | | | |
| 12 | 14.11 | | | | | | |
| 13 | 14.70 | | | 42 | | | |
| 14 | 14.76 | | | 43 | | | |
| 15 | 14.21 | | | 44 | | | |
| 16 | 16.05 | | | 45 | | | |
| 17 | 12.46 | | | 46 | | | |
| 18 | 11.21 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Fire Training SPILL# 82-0923 DATE 2.14.90 TIME 1330

STORAGE TANK LEVEL 1 3.9 GAL. 2.

CUMULATIVE TOTAL 200 GAL. GALLONS BAILED 1 GAL

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 12.03 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 12.9 | 12.81 | .09 | 30 | | | |
| 2 | 11.86 | | | 31 | | | |
| 3 | 11.79 | | | 32 | | | |
| 4 | 13.98 | | | 33 | | | |
| 5 | 12.85 | | | 34 | | | |
| 6 | 11.89 | | | 35 | | | |
| 7 | 12.53 | 12.43 | .10 | 36 | | | |
| 8 | 13.2 | 13.17 | .03 | 37 | | | |
| 9 | 16.33 | | | 38 | | | |
| 10 | 14.10 | 13.13 | .97 | 39 | | | |
| 11 | 18.57 | | | 40 | | | |
| 12 | 14.03 | | | 41 | | | |
| 13 | 14.62 | trace | | 42 | | | |
| 14 | 14.67 | | | 43 | | | |
| 15 | 14.12 | | | 44 | | | |
| 16 | 16.0 | | | 45 | | | |
| 17 | 12.39 | | | 46 | | | |
| 18 | 11.19 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-4

82-0923

LOCATION: Calo Fire Training DATE 1/23/90 TIME 1000

STORAGE TANK LEVEL 1. 38 2. 3. 4.

CUMULATIVE TOTAL 199 BAILED 0.19 GAL.

PUMPING RATE RW1 28-72 7068 RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 13.4 | 13.35 | .05 | | 13.39 | | |
| 2. | 12.4 | | | 29. | | | |
| 3. | 12.29 | 12.25 | .04 | | 12.3 | | |
| 4. | 14.5 | | | 31. | | | |
| 5. | 13.39 | | | 32. | | | |
| 6. | 12.41 | | | 33. | | | |
| 7. | 13 | Trace | | 34. | | | |
| 8. | 13.71 | Trace | | 35. | | | |
| 9. | 16.91 | 16.89 | .02 | 9 | 16.90 | | |
| 10. | 13.76 | 13.7 | .06 | 10 | 13.78 | | |
| 11. | 19.11 | | | 38. | | | |
| 12. | 14.56 | | | 39. | | | |
| 13. | 15.14 | | | 40. | | | |
| 14. | 15.22 | | | 41. | | | |
| 15. | 14.69 | | | 42. | | | |
| 16. | 16.55 | | | 43. | | | |
| 17. | 12.91 | | | 44. | | | |
| 18. | 11.66 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVIC.
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654

82-0923

LOCATION: Calverton Fire Training DATE 1/31/90 TIME 0845

STORAGE TANK LEVEL 1. 38 GAL. 2. 3. 4.

CUMULATIVE TOTAL 199 GAL Bailed 0.5 GAL.

PUMPING RATE RW1 RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | | After | Bail | |
| 1. | 13.56 | 13.13 | .43 | | 13.25 | | |
| 2. | 12.17 | | | 29. | | | |
| 3. | 12.17 | 12.04 | .13 | | 12.13 | | |
| 4. | 14.35 | | | 31. | | | |
| 5. | 13.15 | | | 32. | | | |
| 6. | 12.19 | | | 33. | | | |
| 7. | 12.74 | [illegible] | | 34. | | | |
| 8. | 13.50 | [illegible] | | 35. | | | |
| 9. | 16.75 | 16.67 | .08 | | 16.71 | | |
| 10. | 13.75 | 13.50 | .25 | | 13.58 | | |
| 11. | 18.96 | | | 38. | | | |
| 12. | 14.39 | | | 39. | | | |
| 13. | 15.00 | | | 40. | | | |
| 14. | 15.04 | | | 41. | | | |
| 15. | 14.98 | | | 42. | | | |
| 16. | 16.29 | | | 43. | | | |
| 17. | 12.67 | | | 44. | | | |
| 18. | 16.79 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

82-0923

LOCATION: GRUMMAN CALV. FIRE TRAIN AREA DATE 1-8-90 TIME 1100

STORAGE TANK LEVEL 1. 37 GAL. 2. 3. 4.

CUMULATIVE TOTAL 198 GAL. BAILED 0.5 G.

PUMPING RATE RW1 31 RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | | AFTER | BAILED | |
| 1. | 13.40 | 13.24 | 0.16 | | 13.31 | 13.30 | 0.01 |
| 2. | 12.30 | | | | | | |
| 3. | 12.13 | 12.12 | 0.01 | | | | |
| 4. | 14.38 | | | | | | |
| 5. | 13.26 | | | | | | |
| 6. | 12.30 | | | | | | |
| 7. | 12.85 | TRACE | | | | | |
| 8. | 13.59 | TRACE | | | | | |
| 9. | 16.79 | | | | | | |
| 10. | 13.85 | 13.55 | 0.30 | | 13.65 | 13.63 | 0.02 |
| 11. | 18.97 | | | 38. | | | |
| 12. | 14.41 | | | 39. | | | |
| 13. | 14.99 | TRACE | | 40. | | | |
| 14. | 15.10 | | | 41. | | | |
| 15. | 14.57 | | | 42. | | | |
| 16. | 16.45 | | | 43. | | | |
| 17. | 12.82 | | | 44. | | | |
| 18. | 11.56 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

Tel: 654-4900

# MPC ENVIRONMENTAL SERVICES

P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-

82-0923

LOCATION: CALVERTON FIRE TRAINING DATE 1/16/90 TIME 0900

STORAGE TANK LEVEL 1. .37 2. 3. 4.

CUMULATIVE TOTAL 198 GAL. BAILED 0.75 GAL

PUMPING RATE RW1 28 G.P.M RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | AFTER | BAIL | |
| 1. | 13.75 | 13.24 | .51 | 28. | 13.46 | | |
| 2. | 12.35 | | | 29. | | | |
| 3. | 12.35 | 12.19 | .16 | 30. | 12.29 | | |
| 4. | 14.44 | | | 31. | | | |
| 5. | 13.31 | | | 32. | | | |
| 6. | 12.35 | | | 33. | | | |
| 7. | 12.95 | 12.92 | .03 | 34. | 12.92 | | |
| 8. | 13.71 | 13.67 | .04 | 35. | 15.69 | | |
| 9. | 16.83 | | | 36. | | | |
| 10. | 14.02 | 13.64 | .38 | 37. | 13.75 | | |
| 11. | 19.04 | | | 38. | | | |
| 12. | 14.50 | | | 39. | | | |
| 13. | 15.06 | | | 40. | | | |
| 14. | 15.15 | | | 41. | | | |
| 15. | 14.62 | | | 42. | | | |
| 16. | 16.50 | | | 43. | | | |
| 17. | 12.90 | | | 44. | | | |
| 18. | 11.62 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE · P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

March 14, 1989

TO: Marine Pollution Control
P. O. Box 2220
375 Dunton Avenue
East Patchogue, NY 11772

RE: P.O.# 2945

Date: Collected 3/7/89 Analyzed 3/7-3/10/89 Report 3/14/89

Sampling Point

1. Grumman - Calverton, NY - Influent (Fire Training Area)
2. Grumman - Calverton, NY - Effluent (Fire Training Area)
3.
4.
5.

| Parameters | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Benzene | ug/ℓ | 1.4 | <1.0 | | | |
| Toluene | ug/ℓ | <1.0 | <1.0 | | | |
| Xylene | ug/ℓ | 2.6 | <1.0 | | | |
| Chlorobenzene | ug/ℓ | <1.0 | <1.0 | | | |
| Ethylbenzene | ug/ℓ | <1.0 | <1.0 | | | |
| Dichlorobenzene | ug/ℓ | <1.0 | <1.0 | | | |

Lab Number 51765

JOHN PEDNEAULT
Lab Director



jm

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

82-0923

LOCATION: Calv. Fire Training DATE 1/4/90 TIME 1000

STORAGE TANK LEVEL 1. 36 GAL 2. 3. 4.

CUMULATIVE TOTAL 197 G BAILED 0.38G.

PUMPING RATE RW1 32-646599 RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 12.06 | | | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 13.39 | 13.14 | .25 | 1. | 13.22 | | |
| 2. | 12.16 | | | 29. | | | |
| 3. | 12.1 | 12.04 | .06 | 3. | 12.05 | | |
| 4. | 14.27 | | | 31. | | | |
| 5. | 13.17 | | | 32. | | | |
| 6. | 12.22 | | | 33. | | | |
| 7. | 12.82 | 12.76 | .06 | 7. | 12.79 | | |
| 8. | 13.49 | Trace | | 35. | | | |
| 9. | 16.69 | | | 36. | | | |
| 10. | 13.92 | 13.45 | .47 | 10. | 13.52 | | |
| 11. | 15.89 | | | 38. | | | |
| 12. | 14.32 | | | 39. | | | |
| 13. | 14.9 | Trace | | 40. | | | |
| 14. | 15. | | | 41. | | | |
| 15. | 14.46 | | | 42. | | | |
| 16. | 16.34 | | | 43. | | | |
| 17. | 12.72 | | | 44. | | | |
| 18. | 11.46 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891830/1 07/07/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann

PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:06/22/89 RECEIVED:06/23/89

SAMPLE: Water sample, influent, fire train

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m. + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: B. Andres, M.P.C. -J. Emington

REMARKS:

DIRECTOR

440

n= 7947

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE · P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

June 9, 1989

TO: NYS Dept. Environmental Conservation
SUNY Building 40
Stony Brook, NY 11794

Date: Collected 5/31/89 Analyzed 5/31-6/5/89 Report 6/9/89

**Sampling Point**

1. Grumman, Calverton, NY - Fire Training - Wellhead Discharge
2.
3.
4.
5.

| Parameters | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Benzene | ug/l | <1.0 | | | | |
| Toluene | ug/l | 15.2 | | | | |
| Xylene | ug/l | 9.3 | | | | |
| Chlorobenzene | ug/l | <1.0 | | | | |
| Ethylbenzene | ug/l | <1.0 | | | | |
| Dichlorobenzene | ug/l | 2.8 | | | | |
| | | | | | | |
| Petroleum Products in Water | mg/l | <0.1 | | | | |
| | | trace fuel oil | | | | |

Spill # 82-0923

JOHN PEDNEAULT
Lab Director

Lab Number 53376

jm cc: MPC

441

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C892074/1 07/24/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fire Training
COLLECTED BY: MPC/Client DATE COL'D:07/19/89 RECEIVED:07/19/89

SAMPLE: Water sample, #82-0923, influent, 1100am

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | 2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: Barry Andres, J. Emington-MPC

REMARKS:

DIRECTOR [signature]

442

rn= 9133

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891830/2 07/07/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:06/22/89 RECEIVED:06/23/89

SAMPLE: Water sample, effluent, fire train

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: B. Andres, M.P.C. - J. Emington

REMARKS:

DIRECTOR

443

7948

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C892369/1 08/29/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann

PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton, Fire Training
COLLECTED BY: MarPollCon DATE COL'D:08/16/89 RECEIVED:08/16/89

SAMPLE: Water sample, influent, 1145

| ANALYTICAL PARAMETERS | | |
|---|---|---|
| Benzene | ug/L | <1 |
| Toluene | ug/L | <2 |
| Ethyl Benzene | ug/L | <1 |
| o Xylene | ug/L | <2 |
| m+p Xylene | ug/L | <4 |

ANALYTICAL PARAMETERS

cc: B. Andres, MPC-John Emington

REMARKS: Spill #820923

DIRECTOR

10416

444

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C892074/2 07/24/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton Fire Training
COLLECTED BY: MPC/Client DATE COL'D:07/19/89 RECEIVED:07/19/89

SAMPLE: Water sample, #82-0923, effluent, 1100am

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: Barry Andree, J. Emington-MPC

REMARKS:

DIRECTOR Thomas R. [illegible]

rn# 9134

445

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C893420/1 11/30/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Barry Andres

PO#30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:11/16/89 RECEIVED:11/17/89

SAMPLE: Water sample, Fire Training, 1100

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc:Ohlmann, Selva, MPC

REMARKS:

DIRECTOR Thomas R. Pence

446

15157 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C892369/2 08/29/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton, Fire Training
COLLECTED BY: MarPollCon DATE COL'D:08/16/89 RECEIVED:08/16/89

SAMPLE: Water sample, Effluent, 1150

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: B. Andres, MPC-John Emington

REMARKS: Spill #820923

DIRECTOR [signature]

447

n= 10417

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C893664/2 12/27/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Barry Andres-A03-12

PO# 30-28955

URCE OF SAMPLE: Fire Train Area
COLLECTED BY: MPC DATE COL'D:12/13/89 RECEIVED:12/13/89

SAMPLE: Water sample, 930, effluent

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| oluene | ug/L | <2 | |
| hyl Benzene | ug/L | <1 | |
| Xylene | ug/L | <2 | |
| p Xylene | ug/L | <4 | |

cc:J. Selva, MPC

REMARKS:

DIRECTOR

448

16276 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C893664/1 12/27/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Barry Andres-A03-12 PO# 30-28955

SOURCE OF SAMPLE: Fire Train Area
COLLECTED BY: MPC DATE COL'D:12/13/89 RECEIVED:12/13/89

SAMPLE: Water sample, 930, influent

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| Xylene | ug/L | <2 | |
| Mp Xylene | ug/L | <4 | |

cc:J. Selva, MPC

REMARKS:

DIRECTOR

449

16275 NYSDOH ID# 10320

FILE ONLY

# ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTIN

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900519/1

02/23/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Firetraining Area, Calverton
COLLECTED BY: MPC DATE COL'D:02/15/90 RECEIVED:02/15/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, GAC, J. Selva, MPC

REMARKS:

DIRECTOR

450

2132

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900353

02/05/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: B. Andres

SOURCE OF SAMPLE: Firetraining Area, Spill#82-0923, Job 1067
COLLECTED BY: M.P.Cont. DATE COL'D:01/31/90 RECEIVED:02/01/90

SAMPLE: Wastewater sample, effluent

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc:Ohlmann-B08-30, J.Selva, M.P.C.

REMARKS:

DIRECTOR

451

1559 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C903280/2 10/19/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton, Fire Train
COLLECTED BY: MPC DATE COL'D:10/08/90 RECEIVED:10/08/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <2 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <2 | |
| m + p Xylene | ug/L | <4 | |
| o Xylene | ug/L | <2 | |

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

452

n= 15024 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C902412/2 08/03/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

SOURCE OF SAMPLE: Grumman, Calverton-Fire Training
COLLECTED BY: MPC DATE COL'D:07/27/90 RECEIVED:07/30/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

453

rns 11202 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C903921/2

12/14/90

Grumman Aerospace Corporation
Mail Station A-04-06
Calverton, NY 11933
ATTN: Charles Smith

PO# 30-28955

SOURCE OF SAMPLE: Grumman Calverton, Fire Training Area
COLLECTED BY: MPC DATE COL'D:11/29/90 RECEIVED:11/29/90

SAMPLE: Water sample, 8:45

| ANALYTICAL PARAMETERS | | |
|---|---|---|
| Benzene | ug/L | <1 |
| Toluene | ug/L | <1 |
| Ethyl Benzene | ug/L | <1 |
| m + p Xylene | ug/L | <2 |
| o Xylene | ug/L | <1 |

ANALYTICAL PARAMETERS

cc:J. Ohlmann, J. Selva, MPC

REMARKS:

454

DIRECTOR

rn= 18720

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C903553/1 11/07/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keaney

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:10/30/90 RECEIVED:10/30/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, GAC, J. Selva, MPC

REMARKS:

DIRECTOR

455

rn= 16285 NYSDOH ID# 10320

The recovery system at the fuel calibration area continues to operate, pumping at an average rate of 81 gallons per minute for 1990 (Figure 1). The total amount of product recovered to date is 1,115.5 gallons. Tables 1 through 3 are summaries of water samples collected at the discharge point, for 1988, 1989 and 1990, respectively. According to the data, the highest discharge concentration for 1988 was on April 26, at 170.2 ppb (for BTX). During 1989 the highest discharge concentration was at 64.7 ppb on May 31. The concentrations continue to decrease with a maximum of 36 ppb detected on October 8, 1990. The lab reports from which this data was obtained is found in the Appendix.

Table 4 is a summary of product thicknesses in the recovery well and wells number 4, 9, 11, 13 and 16. According to the data, the maximum product thickness in the recovery well was 0.25 feet on January 4. Well number 4 showed only a trace on November 20. Well number 9 had a maximum thickness of 0.30 feet on both June 29 and July 13. Monitoring well number 11 had a maximum of 0.22 feet on October 24. The maximum amount of product detected at the fuel calibration area was in well number 13 at 1.10 feet on September 21. Only a trace of product was detected in well number 16 on October 4. Wellsheets from which this data was compiled are found in the Appendix.

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

# Grumman - Calverton

# Fuel Calibration Area

Prepared by:

MPC Environmental Services
January 11, 1991

P.O. Box 610
460 Edwards Avenue, Calverton, NY 11933
516-369-4900 FAX 516-369-4909

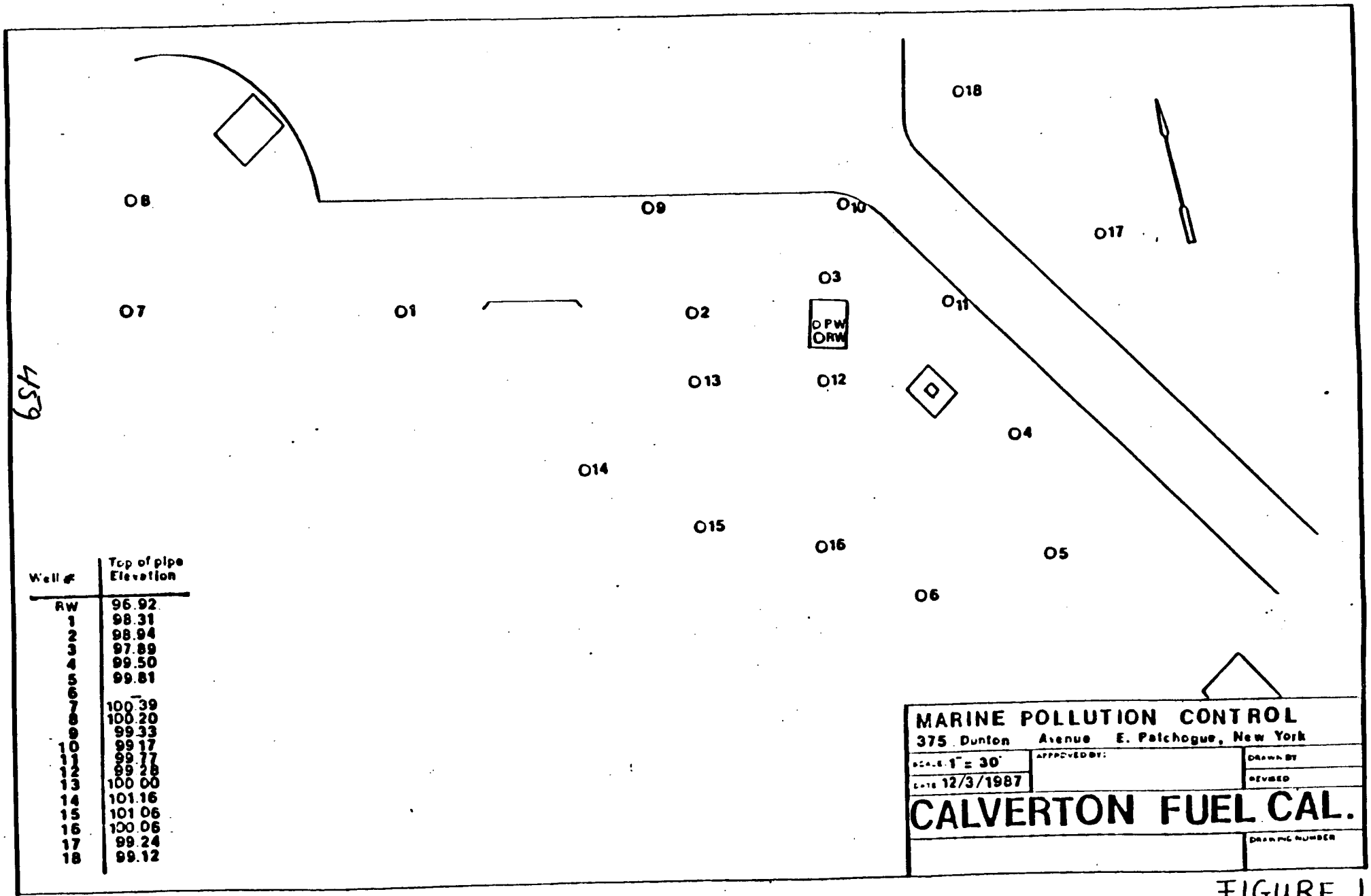


An Equal Opportunity Employer

Table 1.

BTX Discharge Sample Results for 1988

| Date | Discharge (ppb) |
|---|---|
| 03/21 | 88.3 |
| 04/26 | 170.2 |




| Well # | Top of pipe Elevation |
|---|---|
| RW | 96.92 |
| 1 | 98.31 |
| 2 | 98.94 |
| 3 | 97.89 |
| 4 | 99.50 |
| 5 | 99.81 |
| 6 | — |
| 7 | 100.39 |
| 8 | 100.20 |
| 9 | 99.33 |
| 10 | 99.17 |
| 11 | 99.77 |
| 12 | 99.28 |
| 13 | 100.00 |
| 14 | 101.16 |
| 15 | 101.06 |
| 16 | 100.06 |
| 17 | 99.24 |
| 18 | 99.12 |

FIGURE 1.

459

Table 3.

BTX Discharge Sample Results for 1990

| Date | Discharge (ppb) |
|---|---|
| 02/15 | <2.0 |
| 07/27 | 8.0 |
| 10/08 | 36.0 |
| 10/30 | 22.0 |
| 11/29 | 18.0 |

Table 2.

BTX Discharge Sample Results for 1989

| Date | Discharge (ppb) |
|---|---|
| 02/17 | 43.0 |
| 05/31 | 64.7 |
| 06/22 | 4.0 |
| 07/19 | 54.0 |
| 11/16 | 14.0 |
| 12/19 | 48.0 |

Table 4. (Continued)

Product Thicknesses for 1990 in Feet

| Date | RW | #4 | #9 | #10 | #11 | #13 | #16 |
|---|---|---|---|---|---|---|---|
| 05/24 | T | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06/01 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 06/07 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 06/13 | 0.00 | 0.00 | T | 0.00 | 0.02 | 0.00 | 0.00 |
| 06/21 | 0.00 | 0.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 06/29 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/05 | T | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/13 | 0.00 | 0.00 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 |
| 07/20 | 0.00 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 08/03 | 0.00 | 0.00 | T | 0.00 | 0.00 | 0.55 | 0.00 |
| 07/27 | 0.00 | 0.00 | 0.06 | 0.00 | 0.00 | 0.05 | 0.00 |
| 08/10 | 0.00 | 0.00 | 0.05 | 0.00 | 0.03 | 0.32 | 0.00 |
| 08/16 | 0.00 | 0.00 | 0.01 | 0.00 | 0.02 | 0.10 | 0.00 |
| 08/23 | 0.00 | 0.00 | T | 0.00 | 0.00 | T | 0.00 |
| 08/31 | 0.00 | 0.00 | T | 0.00 | T | 0.49 | 0.00 |
| 09/05 | 0.00 | 0.00 | T | 0.00 | T | 0.45 | 0.00 |
| 09/14 | 0.00 | 0.00 | T | T | T | 0.85 | 0.00 |
| 09/21 | 0.00 | 0.00 | T | 0.00 | T | 1.10 | 0.00 |
| 09/27 | 0.00 | 0.00 | T | 0.00 | T | 0.65 | 0.00 |

T = Trace

Table 4.

Product Thicknesses for 1990 in Feet

| Date | RW | #4 | #9 | #10 | #11 | #13 | #16 |
|---|---|---|---|---|---|---|---|
| 01/04 | 0.25 | 0.00 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/08 | 0.18 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/16 | 0.15 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 01/23 | 0.14 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 01/31 | 0.21 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 02/07 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 02/14 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 02/23 | T | 0.00 | 0.02 | 0.00 | 0.02 | 0.00 | 0.00 |
| 02/27 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |
| 03/05 | 0.00 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 03/15 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 03/23 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |
| 03/29 | 0.00 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 04/25 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 04/14 | 0.00 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 |
| 04/12 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 04/05 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |
| 05/02 | 0.00 | 0.00 | T | 0.00 | T | 0.00 | 0.00 |
| 05/10 | 0.00 | 0.00 | 0.03 | 0.00 | 0.01 | 0.00 | 0.00 |
| 05/17 | T | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |

T = Trace

Appendix

Table 4. (Continued)

Product Thicknesses for 1990 in Feet

| Date | RW | #4 | #9 | #10 | #11 | #13 | #16 |
|---|---|---|---|---|---|---|---|
| 10/04 | 0.00 | 0.00 | T | 0.00 | 0.09 | 1.03 | T |
| 10/11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 1.05 | 0.00 |
| 10/18 | 0.00 | 0.00 | T | 0.00 | 0.15 | 0.30 | 0.00 |
| 10/24 | 0.00 | 0.00 | T | 0.00 | 0.22 | 0.00 | 0.00 |
| 11/01 | 0.01 | 0.00 | T | 0.00 | T | 0.01 | T |
| 11/07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11/14 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |
| 11/20 | 0.00 | T | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11/28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12/07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| 12/13 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |
| 12/20 | 0.00 | 0.00 | 0.00 | 0.00 | T | 0.00 | 0.00 |

T = Trace

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C903553/2 11/07/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:10/30/90 RECEIVED:10/30/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 2 | |
| Toluene | ug/L | 4 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 16 | |

cc: J. Ohlmann, GAC, J. Selva, MPC

REMARKS:

DIRECTOR

466

rn# 16286 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C903921/1

12/14/90

Grumman Aerospace Corporation
Mail Station A-04-06
Calverton, NY 11933
ATTN: Charles Smith

PO# 30-28955

SOURCE OF SAMPLE: Grumman Calverton, Calibration Area
COLLECTED BY: MPC DATE COL'D:11/29/90 RECEIVED:11/29/90

SAMPLE: Water sample, 9:05

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 3 | |
| Toluene | ug/L | 2 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 13 | |

cc:J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

rn= 18719

NYSDOH ID# 10320

467

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C902412/1 08/03/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

SOURCE OF SAMPLE: Grumman, Calverton-Fuel Calibration
COLLECTED BY: MPC DATE COL'D:07/27/90 RECEIVED:07/30/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | 2 | |
| m - p Xylene | ug/L | 4 | |
| o Xylene | ug/L | 2 | |

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

468

n# 11201 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C903280/1 10/19/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey John Ohlman B08-30 PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton-Fuel Calibration
COLLECTED BY: MPC DATE COL'D:10/08/90 RECEIVED:10/08/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <2 | |
| Toluene | ug/L | 7 | |
| Ethyl Benzene | ug/L | <2 | |
| m + p Xylene | ug/L | 11 | |
| o Xylene | ug/L | 18 | |

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

469

rn= 15023 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C893739 12/27/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Barry Andres PO# 30-28955

SOURCE OF SAMPLE: Grumman Calverton Fuel Cal Area
COLLECTED BY: MPC DATE COL'D:12/19/89 RECEIVED:12/20/89

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 2 | |
| Toluene | ug/L | 5 | |
| Ethyl Benzene | ug/L | 1 | |
| Xylene | ug/L | 17 | |
| Xylene | ug/L | 23 | |

cc:J.Selva, MPC

REMARKS:

DIRECTOR

16557 NYSDOH ID# 10320

470

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C900519/2 02/23/90

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fuel Calib, Calverton
COLLECTED BY: MPC DATE COL'D:02/15/90 RECEIVED:02/15/90

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, GAC, J. Selva, MPC

REMARKS:

DIRECTOR

n= 2133 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C892074/3 07/24/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Calverton ~~Fire Training~~ Fuel Calibration
COLLECTED BY: MPC/Client DATE COL'D:07/19/89 RECEIVED:07/19/89

SAMPLE: Water sample, #84-0011, effluent, 1300

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 4 | |
| Ethyl Benzene | ug/L | 6 | |
| m Xylene | ug/L | 18 | |
| o+p Xylene | ug/L | 25 | |

cc: Barry Andree, J. Emington-MPC

REMARKS:

DIRECTOR Thomas R. [illegible]

rn# 9135

472

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C893420/2 11/30/89

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Barry Andres PO#30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:11/16/89 RECEIVED:11/17/89

SAMPLE: Water sample, Fuel, Calverton 1430

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 4 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | 9 | |

cc:Ohlmann, Selva, MPC

REMARKS:

DIRECTOR

15158 NYSDOH ID# 10320

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE · P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

June 9, 1989

TO: NYS Dept. Environmental Conservation
SUNY Building 40
Stony Brook, NY 11794

Date: Collected 5/31/89 Analyzed 5/31-6/5/89 Report 6/9/89

**Sampling Point**

1. Grumman, Calverton, NY - Fuel Calibration - Wellhead Discharge
2.
3.
4.
5.

| Parameters | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Benzene | ug/l | 4.2 | | | | |
| Toluene | ug/l | 4.1 | | | | |
| Xylene | ug/l | 33.6 | | | | |
| Chlorobenzene | ug/l | <1.0 | | | | |
| Ethylbenzene | ug/l | 6.4 | | | | |
| Dichlorobenzene | ug/l | 16.4 | | | | |
| | | | | | | |
| Petroleum Products in Water | mg/l | 18.5 | | | | |
| | | fuel oil | | | | |

Spill # 84-0011

Lab Number 53377

JOHN PEDNEAULT
Lab Director

cc: MPC

m

474

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777

LAB NO. C891830/3 07/07/89

Grumman Aerospace Corp. (Calverton)
Mail Station A-08-30
Bethpage, NY 11714
ATTN: John Ohlmann PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton
COLLECTED BY: MPC DATE COL'D:06/22/89 RECEIVED:06/23/89

SAMPLE: Water sample, fuel calibration

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 4 | |

cc: B. Andres, M.P.C. - J. Emington

REMARKS:

DIRECTOR

n= 7949

475

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE · P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

April 28, 1988

TO: Marine Pollution Control
P.O. Box 2220
375 Dunton Avenue
East Patchogue, NY 11772

Date: Collected 4/26/88 Analyzed 4/26-4/28/88 Report 4/28/88

**Sampling Point**

1. Grumman, Calverton, NY - Fuel Calibration Discharge
2.
3.
4.
5.

| Parameters | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Benzene | ug/l | 7.3 | | | | |
| Toluene | ug/l | 4.0 | | | | |
| Xylene | ug/l | 92.2 | | | | |
| Ethylbenzene | ug/l | 9.5 | | | | |
| Chlorobenzene | ug/l | < 1.0 | | | | |
| Dichlorobenzene | ug/l | 57.2 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

JOHN PEDNEAULT
Lab Director

Lab Number 46264
MJA

KEMRON

**Results for EPA 602 Scan**
**Purgeable Aromatics**

Client: Marine Pollution Control

Re: Grumman PO#2923

Sample Identification: Discharge from Pump Well

Date Received: February 16, 1989

Date/Time/Analyst: 2-17-89/13:16/MN
ds 6067-89

| Compound | Concentration (ug/L) | Detection Limit (ug/L) |
|---|---|---|
| Benzene | 4 | 1 |
| Toluene | 3 | 1 |
| Xylenes[1] | 35 | 1 |
| Ethyl Benzene | 1 | 1 |

[1]Xylenes as p, m, o isomers

Approved by: Maureen J Nemphius
Laboratory Manager

AIHA Laboratory Accreditation Number 169

New York State Interim Certification Number 10612

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Cal. SPILL# 84-0011 DATE 12,20,90 TIME 1130

STORAGE TANK LEVEL 1. 127.50G 2.

CUMULATIVE TOTAL 1115.50G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.92 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.33 | | | 30 | | | |
| 2 | 6.92 | | | 31 | | | |
| 3 | 5.92 | | | 32 | | | |
| 4 | 7.50 | | | 33 | | | |
| 5 | 7.79 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.98 | | | 36 | | | |
| 8 | 7.71 | | | 37 | | | |
| 9 | 7.10 | | | 38 | | | |
| 10 | 7.08 | | | 39 | | | |
| 11 | 7.72 | TRACE | | 40 | | | |
| 12 | 7.42 | | | 41 | | | |
| 13 | 7.67 | | | 42 | | | |
| 14 | 9.06 | | | 43 | | | |
| 15 | 9.00 | | | 44 | | | |
| 16 | 8.04 | | | 45 | | | |
| 17 | 7.23 | | | 46 | | | |
| 18 | 7.04 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

March 24, 1988

TO: Marine Pollution Control
P. O. Box 2220
375 Dunton Avenue
East Patchogue, NY 11772

Date: Collected 3/21/88 Analyzed 3/21-3/24/88 Report 3/24/88

**Sampling Point**

1. Grumman Calverton - Fuel Calibration Area
2.
3.
4.
5.

| Parameters | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Benzene | ug/l | 1.5 | | | | |
| Toluene | ug/l | 3.8 | | | | |
| Xylene | ug/l | 48.9 | | | | |
| Chlorobenzene | ug/l | <1.0 | | | | |
| Ethylbenzene | ug/l | 4.0 | | | | |
| Dichlorobenzene | ug/l | 30.1 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

JOHN PEDNEAULT
Lab Director

Lab Number 45648

jm

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fuel Cal Area SPILL# 84-0011 DATE 12/7/90 TIME 094

STORAGE TANK LEVEL 1. 127.50G 2.

CUMULATIVE TOTAL 1115.50 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.92 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.60 | | | 30 | | | |
| 2 | 6.92 | | | 31 | | | |
| 3 | 5.90 | | | 32 | | | |
| 4 | 7.50 | | | 33 | | | |
| 5 | 7.80 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.98 | | | 36 | | | |
| 8 | 7.71 | | | 37 | | | |
| 9 | 7.14 | | | 38 | | | |
| 10 | 7.10 | | | 39 | | | |
| 11 | 7.01 | 7.00 | 0.01 | 40 | | | |
| 12 | 7.41 | | | 41 | | | |
| 13 | 7.85 | | | 42 | | | |
| 14 | 9.10 | | | 43 | | | |
| 15 | 9.02 | | | 44 | | | |
| 16 | 8.06 | | | 45 | | | |
| 17 | 7.22 | | | 46 | | | |
| 18 | 7.00 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Co. SPILL# 84-0011 DATE 12/13/90 TIME 1130

STORAGE TANK LEVEL 1. 127.50 G. 2.

CUMULATIVE TOTAL 1115.50 G. GALLONS BAILED 0.00

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.06 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.29 | | | 30 | | | |
| 2 | 7.02 | | | 31 | | | |
| 3 | 6.04 | | | 32 | | | |
| 4 | 7.60 | | | 33 | | | |
| 5 | 7.90 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.08 | | | 36 | | | |
| 8 | 7.83 | | | 37 | | | |
| 9 | 7.29 | | | 38 | | | |
| 10 | 7.31 | | | 39 | | | |
| 11 | 7.83 | TRACE | | 40 | | | |
| 12 | 7.52 | | | 41 | | | |
| 13 | 8.08 | | | 42 | | | |
| 14 | 9.17 | | | 43 | | | |
| 15 | 9.13 | | | 44 | | | |
| 16 | 8.17 | | | 45 | | | |
| 17 | 7.33 | | | 46 | | | |
| 18 | 7.17 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FUEL CAL. SPILL# 84-0011 DATE 11/20/90 TIME 1145

STORAGE TANK LEVEL 1 127.50 G. 2.

CUMULATIVE TOTAL 1115.50 G. GALLONS BAILED 0.00

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.05 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.74 | | | 30 | | | |
| 2 | 7.05 | | | 31 | | | |
| 3 | 6.05 | | | 32 | | | |
| 4 | 7.61 | TRACE | | 33 | | | |
| 5 | 7.92 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.09 | | | 36 | | | |
| 8 | 7.80 | | | 37 | | | |
| 9 | 7.30 | | | 38 | | | |
| 10 | 7.20 | | | 39 | | | |
| 11 | 7.84 | | | 40 | | | |
| 12 | 7.55 | | | 41 | | | |
| 13 | 8.14 | | | 42 | | | |
| 14 | 9.19 | | | 43 | | | |
| 15 | 9.15 | | | 44 | | | |
| 16 | 8.19 | | | 45 | | | |
| 17 | 7.35 | | | 46 | | | |
| 18 | 7.20 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel/Calibration SPILL# 84-0011 DATE 11,28,90 TIME 1200

STORAGE TANK LEVEL 1. 127.50G. 2.

CUMULATIVE TOTAL 1115.50G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.17 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| 'W | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.75 | | | 30 | | | |
| 2 | 7.15 | | | 31 | | | |
| 3 | 6.15 | | | 32 | | | |
| 4 | 7.73 | | | 33 | | | |
| 5 | 8.02 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.19 | | | 36 | | | |
| 8 | 7.92 | | | 37 | | | |
| 9 | 7.42 | | | 38 | | | |
| 10 | 7.33 | | | 39 | | | |
| 11 | 7.96 | | | 40 | | | |
| 12 | 7.67 | | | 41 | | | |
| 13 | 8.29 | | | 42 | | | |
| 14 | 9.29 | | | 43 | | | |
| 15 | 9.25 | | | 44 | | | |
| 16 | 8.29 | | | 45 | | | |
| 17 | 7.46 | | | 46 | | | |
| 18 | 7.31 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Cal. SPILL# 84-0011 DATE 11/7/90 TIME 12:30

STORAGE TANK LEVEL 1 127.50 G 2.

CUMULATIVE TOTAL 115.50 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.85 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.78 | | | 30 | | | |
| 2 | 6.84 | | | 31 | | | |
| 3 | 5.82 | | | 32 | | | |
| 4 | 7.40 | | | 33 | | | |
| 5 | 7.70 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.88 | | | 36 | | | |
| 8 | 7.60 | | | 37 | | | |
| 9 | 6.08 | | | 38 | | | |
| 10 | 7.00 | | | 39 | | | |
| 11 | 7.62 | | | 40 | | | |
| 12 | 7.32 | | | 41 | | | |
| 13 | 7.94 | | | 42 | | | |
| 14 | 8.98 | | | 43 | | | |
| 15 | 8.92 | | | 44 | | | |
| 16 | 7.98 | | | 45 | | | |
| 17 | 7.13 | | | 46 | | | |
| 18 | 6.96 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel/Calir. SPILL# 34-0011 DATE 1/14/90 TIME 1300

STORAGE TANK LEVEL 1. 127.50 G. 2.

CUMULATIVE TOTAL 1115.50 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.90 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.30 | | | 30 | | | |
| 2 | 6.92 | | | 31 | | | |
| 3 | 5.90 | | | 32 | | | |
| 4 | 7.48 | | | 33 | | | |
| 5 | 7.80 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.95 | | | 36 | | | |
| 8 | 7.70 | | | 37 | | | |
| 9 | 7.15 | | | 38 | | | |
| 10 | 7.07 | | | 39 | | | |
| 11 | 7.70 | Trace | | 40 | | | |
| 12 | 7.41 | | | 41 | | | |
| 13 | 7.80 | | | 42 | | | |
| 14 | 9.06 | | | 43 | | | |
| 15 | 9.00 | | | 44 | | | |
| 16 | 8.06 | | | 45 | | | |
| 17 | 7.22 | | | 46 | | | |
| 18 | 7.03 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel/Calib. SPILL# 84-0011 DATE 10,24,90 TIME 1500

STORAGE TANK LEVEL 1. 12,750 G 2.

CUMULATIVE TOTAL 115,550 GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.35 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | After Bail | | |
| 1 | 4.02 | | | 30 | | | |
| 2 | 6.52 | | | 31 | | | |
| 3 | 4.40 | | | 32 | | | |
| 4 | 6.98 | | | 33 | | | |
| 5 | 7.30 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.43 | | | 36 | | | |
| 8 | 7.17 | | | 37 | | | |
| 9 | 5.77 | Trace | | 38 | | | |
| 10 | 6.50 | | | 39 | | | |
| 11 | 7.35 | 7.13 | .22 | 11 | 7.20 | | |
| 12 | 6.59 | | | 41 | | | |
| 13 | 6.40 | | | 42 | | | |
| 14 | 8.56 | | | 43 | | | |
| 15 | 8.52 | | | 44 | | | |
| 16 | 7.57 | | | 45 | | | |
| 17 | 6.70 | | | 46 | | | |
| 18 | 6.45 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman / Calverton / Fuel / Calibration SPILL# 84-0011 DATE 11-1-90 TIME 1230

STORAGE TANK LEVEL 1. 127.50 2.

CUMULATIVE TOTAL 115.50 GALLONS BAILED trace

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.66 | 7.65 | .01 | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | | | |
| 1 | 6.19 | | | 30 | | | |
| 2 | 6.46 | | | 31 | | | |
| 3 | 5.65 | | | 32 | | | |
| 4 | 7.22 | | | 33 | | | |
| 5 | 7.53 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 7.69 | | | 36 | | | |
| 8 | 7.40 | | | 37 | | | |
| 9 | 6.92 | Trace | | 38 | | | |
| 10 | 6.81 | | | 39 | | | |
| 11 | 7.45 | Trace | | 40 | | | |
| 12 | 7.15 | | | 41 | | | |
| 13 | 7.63 | 7.62 | .01 | 42 | | | |
| 14 | 8.80 | | | 43 | | | |
| 15 | 8.76 | | | 44 | | | |
| 16 | 7.79 | | | 45 | | | |
| 17 | 6.95 | | | 46 | | | |
| 18 | 6.78 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Co. SPILL# 84-0011 DATE 10/11/90 TIME 1200

STORAGE TANK LEVEL 1. 127.G 2.

CUMULATIVE TOTAL 1115G. GALLONS BAILED 1G

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.25 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | After | Rail | |
| 1 | 6.41 | | | 30 | | | |
| 2 | 7.24 | | | 31 | | | |
| 3 | 6.23 | | | 32 | | | |
| 4 | 7.85 | | | 33 | | | |
| 5 | 8.15 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.24 | | | 36 | | | |
| 8 | 7.98 | | | 37 | | | |
| 9 | 7.46 | | | 38 | | | |
| 10 | 7.42 | | | 39 | | | |
| 11 | 8.13 | 8.05 | .08 | | 8.08 | | |
| 12 | 7.75 | | | 41 | | | |
| 13 | 9.20 | 8.15 | 1.05 | | 9.30 | | |
| 14 | 9.40 | | | 43 | | | |
| 15 | 9.25 | | | 44 | | | |
| 16 | 8.40 | | | 45 | | | |
| 17 | 7.58 | | | 46 | | | |
| 18 | 7.40 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel/Calib. SPILL# 84-0011 DATE 10/18/90 TIME 1200

STORAGE TANK LEVEL 1. 127.30 G. 2.

CUMULATIVE TOTAL 1115.30 G. GALLONS BAILED 0.30 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.90 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | After | Bail | |
| 1 | 5.85 | | | 30 | | | |
| 2 | 6.90 | | | 31 | | | |
| 3 | 5.90 | | | 32 | | | |
| 4 | 7.50 | | | 33 | | | |
| 5 | 7.85 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.95 | | | 36 | | | |
| 8 | 7.68 | | | 37 | | | |
| 9 | 7.17 | TRACE | | 38 | | | |
| 10 | 7.10 | | | 39 | | | |
| 11 | 7.85 | 7.70 | .15 | 11 | 7.70 | | |
| 12 | 7.42 | | | 41 | | | |
| 13 | 8.05 | 7.75 | .30 | 13 | 8.37 | | |
| 14 | 9.07 | | | 43 | | | |
| 15 | 9.02 | | | 44 | | | |
| 16 | 8.06 | | | 45 | | | |
| 17 | 7.22 | | | 46 | | | |
| 18 | 7.05 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel / Calib. SPILL# 84-0011 DATE 9/27/90 TIME 1230

STORAGE TANK LEVEL 1. 125.G. 2.

CUMULATIVE TOTAL 1113G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.15 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 6.35 | | | 30 | | | |
| 2 | 7.13 | | | 31 | | | |
| 3 | 6.03 | | | 32 | | | |
| 4 | 7.73 | | | 33 | | | |
| 5 | 8.05 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.12 | | | 36 | | | |
| 8 | 7.85 | | | 37 | | | |
| 9 | 6.97 | TRACE | | 38 | | | |
| 10 | 7.31 | | | 39 | | | |
| 11 | 8.00 | TRACE | | 40 | | | |
| 12 | 7.65 | | | 41 | | | |
| 13 | 8.70 | 8.05 | .65 | 13 | 8.75 | | |
| 14 | 9.27 | | | 43 | | | |
| 15 | 9.23 | | | 44 | | | |
| 16 | 8.30 | | | 45 | | | |
| 17 | 7.46 | | | 46 | | | |
| 18 | 7.27 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calv. Fuel/Calibration SPILL# 84-0011 DATE 10/4/90 TIME 1200

STORAGE TANK LEVEL 1. 127 G. 2.

CUMULATIVE TOTAL 1115 G. GALLONS BAILED 1 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.25 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | | AFTER | Bail | |
| | | | | 29 | | | |
| 1 | 7.16 | | | 30 | | | |
| 2 | 7.22 | | | 31 | | | |
| 3 | 6.23 | | | 32 | | | |
| 4 | 7.81 | | | 33 | | | |
| 5 | 8.12 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.22 | | | 36 | | | |
| 8 | 7.96 | | | 37 | | | |
| 9 | 7.51 | TRACE | | 38 | | | |
| 10 | 7.40 | | | 39 | | | |
| 11 | 8.11 | 8.02 | .09 | 11 | 8.05 | | |
| 12 | 7.73 | | | 41 | | | |
| 13 | 9.15 | 8.12 | 1.03 | 13 | 9.22 | | |
| 14 | 9.37 | | | 43 | | | |
| 15 | 9.35 | | | 44 | | | |
| 16 | 8.37 | TRACE | | 45 | | | |
| 17 | 7.55 | | | 46 | | | |
| 18 | 7.37 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Co. SPILL# 84-0011 DATE 9/14/90 TIME 1300

STORAGE TANK LEVEL 1. 112G. 2.

CUMULATIVE TOTAL 1100G. GALLONS BAILED 1.0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.20 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.93 | | | 30 | | | |
| 2 | 7.17 | | | 31 | | | |
| 3 | 6.18 | | | 32 | | | |
| 4 | 7.76 | | | 33 | | | |
| 5 | 8.05 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.15 | | | 36 | | | |
| 8 | 7.85 | | | 37 | after | bailed | |
| 9 | 7.42 | TRACE | | 38 | | | |
| 10 | 7.33 | TRACE | | 39 | | | |
| 11 | 8.00 | TRACE | | 40 | | | |
| 12 | 7.70 | | | 41 | | | |
| 13 | 8.95 | 8.10 | .85 | 13 | 8.95 | | |
| 14 | 9.31 | | | 43 | | | |
| 15 | 9.27 | | | 44 | | | |
| 16 | 8.32 | | | 45 | | | |
| 17 | 7.47 | | | 46 | | | |
| 18 | 7.30 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON F.E/CALIBRATION SPILL# 84-0011 DATE 9/21/90 TIME 1300

STORAGE TANK LEVEL 1 113 G. 2.

CUMULATIVE TOTAL 1101 G. GALLONS BAILED 1.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.20 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 6.54 | | | 30 | | | |
| 2 | 7.12 | | | 31 | | | |
| 3 | 6.18 | | | 32 | | | |
| 4 | 7.77 | | | 33 | | | |
| 5 | 8.08 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 8.15 | | | 36 | | | |
| 8 | 7.88 | | | 37 | | | |
| 9 | 7.32 | TRACE | | 38 | | | |
| 10 | 7.35 | | | 39 | | | |
| 11 | 8.02 | TRACE | | 40 | | | |
| 12 | 7.70 | | | 41 | | | |
| 13 | 9.17 | 8.07 | 1.10 | 13 | 8.92 | | |
| 14 | 9.31 | | | 43 | | | |
| 15 | 9.26 | | | 44 | | | |
| 16 | 8.32 | | | 45 | | | |
| 17 | 7.47 | | | 46 | | | |
| 18 | 7.32 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON - FUEL CALIBRATION SPILL# 84-0011 DATE 8/31/90 TIME 11:00

STORAGE TANK LEVEL 1 111 G. 2

CUMULATIVE TOTAL 1099 G. GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.49 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 9.81 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.31 | | | 30 | | | |
| 2 | 6.52 | | | 31 | | | |
| 3 | 5.46 | | | 32 | | | |
| 4 | 7.19 | | | 33 | | | |
| 5 | 7.56 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.76 | | | 36 | | | |
| 8 | 7.48 | | | 37 | | | |
| 9 | 6.74 | TRACE | | 38 | | | |
| 10 | 6.71 | | | 39 | | | |
| 11 | 7.35 | TRACE | | 40 | | | |
| 12 | 6.98 | | | 41 | | | |
| 13 | 8.06 | 7.57 | 0.49 | 13 | 7.63 | TRACE | |
| 14 | 8.78 | | | 43 | | | |
| 15 | 8.72 | | | 44 | | | |
| 16 | 7.77 | | | 45 | | | |
| 17 | 7.96 | | | 46 | | | |
| 18 | 6.73 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Cal. SPILL# 84-0011 DATE 9/5/90 TIME 1300

STORAGE TANK LEVEL 1. 111.G 2.

CUMULATIVE TOTAL 1099 G. GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 8.00 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | AFTER | BAIL | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 7.02 | | | 30 | | | |
| 2 | 7.00 | | | 31 | | | |
| 3 | 6.00 | | | 32 | | | |
| 4 | 7.59 | | | 33 | | | |
| 5 | 7.90 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.98 | | | 36 | | | |
| 8 | 7.70 | | | 37 | | | |
| 9 | 7.17 | TRACE | | 38 | | | |
| 10 | 7.16 | | | 39 | | | |
| 11 | 7.82 | TRACE | | 40 | | | |
| 12 | 7.52 | | | 41 | | | |
| 13 | 8.50 | 8.05 | .45 | 13 | 8.46 | | |
| 14 | 9.14 | | | 43 | | | |
| 15 | 9.10 | | | 44 | | | |
| 16 | 8.16 | | | 45 | | | |
| 17 | 7.30 | | | 46 | | | |
| 18 | | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: [illegible] Calibration Fuel Calibration SPILL# 84-[illegible] DATE 8-16-90 TIME 110[illegible]

STORAGE TANK LEVEL 1. 107 G. 2.

CUMULATIVE TOTAL 1095G. GALLONS BAILED 0.12

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.28 | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | 11 Fter | Bailing | |
| 1 | 6.10 | | | 30 | | | |
| 2 | 6.23 | | | 31 | | | |
| 3 | 5.14 | | | 32 | | | |
| 4 | 6.90 | | | 33 | | | |
| 5 | 7.27 | | | 34 | | | |
| 6 | . | | | 35 | | | |
| 7 | 7.47 | | | 36 | | | |
| 8 | 7.17 | | | 37 | | | |
| 9 | 6.51 | 6.50 | .01 | 9 | 8.31 | | |
| 10 | 6.39 | | | 39 | | | |
| 11 | 7.07 | 7.05 | .02 | 11 | 7.46 | | |
| 12 | 6.69 | | | 41 | | | |
| 13 | 7.43 | 7.33 | .10 | 13 | 10.05 | | |
| 14 | 8.49 | | | 43 | | | |
| 15 | 8.42 | | | 44 | | | |
| 16 | 7.46 | | | 45 | | | |
| 17 | 6.65 | | | 46 | | | |
| 18 | 6.43 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Cahurton - Fuel Cal Station SPILL# 84-0011 DATE 8/23/90 TIME 1900

STORAGE TANK LEVEL 1. 107 G. 2.

CUMULATIVE TOTAL 1095 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.96 | Trace | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.64 | | | 30 | | | |
| 2 | 6.42 | | | 31 | | | |
| 3 | 5.35 | | | 32 | | | |
| 4 | 7.12 | | | 33 | | | |
| 5 | 7.47 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.65 | | | 36 | | | |
| 8 | 7.37 | | | 37 | | | |
| 9 | 6.7 | Trace | | 38 | | | |
| 10 | 6.61 | | | 39 | | | |
| 11 | 7.31 | | | 40 | | | |
| 12 | 6.9 | | | 41 | | | |
| 13 | 7.55 | Trace | | 42 | | | |
| 14 | 8.74 | | | 43 | | | |
| 15 | 8.68 | | | 44 | | | |
| 16 | 7.71 | | | 45 | | | |
| 17 | 6.87 | | | 46 | | | |
| 18 | 6.7 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON - FUEL CALIBRATION SPILL# 84-0011 DATE 8/3/90 TIME 13:30

STORAGE TANK LEVEL 1. 97 G. 2.

CUMULATIVE TOTAL 1085 G GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.35 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | 10.25 | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.66 | | | 30 | | | |
| 2 | 6.39 | | | 31 | | | |
| 3 | 5.34 | | | 32 | | | |
| 4 | 7.06 | | | 33 | | | |
| 5 | 7.42 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.63 | | | 36 | | | |
| 8 | 7.35 | | | 37 | | | |
| 9 | 6.75 | TRACE | | 38 | | | |
| 10 | 6.58 | | | 39 | | | |
| 11 | 7.25 | | | 40 | | | |
| 12 | 6.86 | | | 41 | AFTER BAIL | | |
| 13 | 7.48 | 7.43 | 0.55 | 13 | 8.04 | N/P | |
| 14 | 8.65 | | | 43 | | | |
| 15 | 8.59 | | | 44 | | | |
| 16 | 7.64 | | | 45 | | | |
| 17 | 6.83 | | | 46 | | | |
| 18 | 6.62 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Calibration - Calverton SPILL# 84-0011 DATE 8/10/90 TIME 1330

STORAGE TANK LEVEL 1. 1040. 2.

CUMULATIVE TOTAL 1092 G GALLONS BAILED 0.50

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.26 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | | | | 30 | | | |
| 2 | 6.33 | | | 31 | | | |
| 3 | 5.26 | | | 32 | | | |
| 4 | 7.05 | | | 33 | | | |
| 5 | 7.4 | | | 34 | | | |
| 6 | — | | | 35 | After | Bailed | |
| 7 | 7.59 | | | 36 | | | |
| 8 | 7.3 | | | 37 | | | |
| 9 | 6.67 | 6.62 | .05 | | 6.73 | | |
| 10 | 6.55 | | | 39 | | | |
| 11 | 7.27 | 7.24 | .03 | 11. | 7.25 | | |
| 12 | 6.88 | | | 41 | | | |
| 13 | 7.73 | 7.41 | .32 | 13. | 7.85 | 7.84 | .01 |
| 14 | 8.65 | | | 43 | | | |
| 15 | 8.6 | | | 44 | | | |
| 16 | 7.65 | | | 45 | | | |
| 17 | 6.79 | | | 46 | | | |
| 18 | 6.61 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Galveston - Fuel Cal. SPILL# 84-0071 DATE 7/20/90 TIME 1900

STORAGE TANK LEVEL 1. 97 G 2.

CUMULATIVE TOTAL 1085 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.95 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.3 | | | 30 | | | |
| 2 | 6.14 | | | 31 | | | |
| 3 | 5.07 | | | 32 | | | |
| 4 | 6.81 | | | 33 | | | |
| 5 | 7.18 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.98 | | | 36 | | | |
| 8 | 7.1 | | | 37 | | | |
| 9 | 6.41 | Trace | | 38 | | | |
| 10 | 6.31 | | | 39 | | | |
| 11 | 6.98 | | | 40 | | | |
| 12 | 6.61 | | | 41 | | | |
| 13 | 7.26 | | | 42 | | | |
| 14 | 8.41 | | | 43 | | | |
| 15 | 8.36 | | | 44 | | | |
| 16 | 7.99 | | | 45 | | | |
| 17 | 6.56 | | | 46 | | | |
| 18 | 6.36 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Col. SPILL# 84-0011 DATE 7/27/90 TIME 14:30

STORAGE TANK LEVEL 1 97G. 2.

CUMULATIVE TOTAL 1085G. GALLONS BAILED 0.10

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.65 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.01 | | | 30 | | | |
| 2 | 6.6 | | | 31 | | | |
| 3 | 5.6 | | | 32 | | | |
| 4 | 7.18 | | | 33 | | | |
| 5 | 7.5 | | | 34 | After Bailed | | |
| 6 | — | | | 35 | | | |
| 7 | 7.55 | | | 36 | | | |
| 8 | 7.27 | | | 37 | | | |
| 9 | 6.8 | 6.74 | .06 | 38. | 6.84 | | |
| 10 | 6.75 | | | 39 | | | |
| 11 | 7.39 | | | 40 | | | |
| 12 | 7.15 | | | 41 | | | |
| 13 | 7.72 | 7.67 | .05 | 42. | 7.79 | | |
| 14 | 8.75 | | | 43 | | | |
| 15 | 8.71 | | | 44 | | | |
| 16 | 7.76 | | | 45 | | | |
| 17 | 6.88 | | | 46 | | | |
| 18 | 6.7 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Cal SPILL# 84-0011 DATE 2/6/90 TIME 1000

STORAGE TANK LEVEL 1. 63 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.75 | Trace | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.70 | | | 30 | | | |
| 2 | 5.85 | | | 31 | | | |
| 3 | 4.78 | | | 32 | | | |
| 4 | 6.54 | | | 33 | | | |
| 5 | 6.84 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.11 | | | 36 | | | |
| 8 | 6.82 | | | 37 | | | |
| 9 | 6.06 | | | 38 | | | |
| 10 | 6.01 | | | 39 | | | |
| 11 | 6.68 | | | 40 | | | |
| 12 | 6.31 | | | 41 | | | |
| 13 | 6.98 | | | 42 | | | |
| 14 | 8.13 | | | 43 | | | |
| 15 | 8.07 | | | 44 | | | |
| 16 | 7.11 | | | 45 | | | |
| 17 | 6.26 | | | 46 | | | |
| 18 | 6.04 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Col. SPILL# 84-0011 DATE 7/19/90 TIME 1400

STORAGE TANK LEVEL 1 756. 2.

CUMULATIVE TOTAL 10636 GALLONS BAILED 0.25

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.25 | 6.74 | .51 | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.62 | | | 30 | | | |
| 2 | 5.89 | | | 31 | | | |
| 3 | 7.99 | | | 32 | | | |
| 4 | 6.61 | | | 33 | | | |
| 5 | 6.98 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.14 | | | 36 | After Bailed | | |
| 8 | 6.84 | | | 37 | | | |
| 9 | 5.01 | 4.71 | .30 | 9. | 5.12 | 5.11 | .01 |
| 10 | 6.13 | | | 39 | | | |
| 11 | 6.74 | | | 40 | | | |
| 12 | 6.50 | | | 41 | | | |
| 13 | 7.1 | | | 42 | | | |
| 14 | 8.22 | | | 43 | | | |
| 15 | 8.17 | | | 44 | | | |
| 16 | 7.21 | | | 45 | | | |
| 17 | 6.33 | | | 46 | | | |
| 18 | 6.12 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Cal. SPILL# 84-0011 DATE 6/21/90 TIME 1300

STORAGE TANK LEVEL 1 63-G. 2.

CUMULATIVE TOTAL 1051G. GALLONS BAILED 0.20

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.67 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.51 | | | 30 | | | |
| 2 | 5.71 | | | 31 | | | |
| 3 | 4.66 | | | 32 | | | |
| 4 | 6.4 | | | 33 | | | |
| 5 | 6.76 | | | 34 | | | |
| 6 | — | | | 35 | AFTER | BAILED | |
| 7 | 7.01 | | | 36 | | | |
| 8 | 6.72 | | | 37 | | | |
| 9 | 6.08 | 5.86 | .22 | 7. | 6.03 | Trace | |
| 10 | 5.9 | | | 39 | | | |
| 11 | 6.57 | | | 40 | | | |
| 12 | 6.29 | | | 41 | | | |
| 13 | 6.88 | | | 42 | | | |
| 14 | 8.04 | | | 43 | | | |
| 15 | 7.97 | | | 44 | | | |
| 16 | 7. | | | 45 | | | |
| 17 | 6.14 | | | 46 | | | |
| 18 | 5.94 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Cal. SPILL# 84-0011 DATE 6/29/90 TIME 13:30

STORAGE TANK LEVEL 1. 63.6 2.

CUMULATIVE TOTAL 1051G. GALLONS BAILED 0.20

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.87 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 6.16 | | | 30 | | | |
| 2 | 5.95 | | | 31 | | | |
| 3 | 4.88 | | | 32 | | | |
| 4 | 6.60 | | | 33 | | | |
| 5 | 6.98 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.21 | | | 36 | | | |
| 8 | 6.93 | | | 37 | | | |
| 9 | 6.42 | 6.12 | .90 | | 6.94 | Trace | |
| 10 | 6.11 | | | 39 | | | |
| 11 | 6.78 | | | 40 | | | |
| 12 | 6.41 | | | 41 | | | |
| 13 | 7.08 | | | 42 | | | |
| 14 | 8.29 | | | 43 | | | |
| 15 | 8.15 | | | 44 | | | |
| 16 | 7.20 | | | 45 | | | |
| 17 | 6.36 | | | 46 | | | |
| 18 | 6.14 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Pal SPILL# 84-0011 DATE 6/7/90 TIME 12:30

STORAGE TANK LEVEL 1. 63 G 2.

CUMULATIVE TOTAL 1051 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.41 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.47 | | | 30 | | | |
| 2 | 5.35 | | | 31 | | | |
| 3 | 4.84 | | | 32 | | | |
| 4 | 6.1 | | | 33 | | | |
| 5 | 6.47 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.7 | | | 36 | | | |
| 8 | 6.42 | | | 37 | | | |
| 9 | 4.34 | Trace | | 38 | | | |
| 10 | 5.41 | | | 39 | | | |
| 11 | 6.24 | Trace | | 40 | | | |
| 12 | 5.98 | | | 41 | | | |
| 13 | 6.49 | | | 42 | | | |
| 14 | 7.8 | | | 43 | | | |
| 15 | 7.73 | | | 44 | | | |
| 16 | 6.74 | | | 45 | | | |
| 17 | 5.8 | | | 46 | | | |
| 18 | 5.59 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: [illegible] SPILL# [illegible] DATE 6-13-90 TIME [illegible]

STORAGE TANK LEVEL 1 63 G. 2. _____

CUMULATIVE TOTAL 1051 G. GALLONS BAILED _____

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | [illegible] | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | Water [illegible] | | |
| 1 | 5.3[illegible] | | | 30 | | | |
| 2 | 5.7[illegible] | | | 31 | | | |
| 3 | 4.[illegible] | | | 32 | | | |
| 4 | 6.[illegible]4 | | | 33 | | | |
| 5 | 6.63 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 6.8[illegible] | | | 36 | | | |
| 8 | [illegible] | | | 37 | | | |
| 9 | [illegible] | T[illegible] | | 38 | 5.60 | | |
| 10 | [illegible] | | | 39 | - | | |
| 11 | [illegible] | 6.41 | .00 | 40 | [illegible] | | |
| 12 | [illegible] | | | 41 | | | |
| 13 | [illegible] | | | 42 | | | |
| 14 | 7.8[illegible] | | | 43 | | | |
| 15 | [illegible] | | | 44 | | | |
| 16 | 6.84 | | | 45 | | | |
| 17 | [illegible] | | | 46 | | | |
| 18 | [illegible] | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv Tucl CAL. Area SPILL# 84-0011 DATE 5-24-90 TIME 1100

STORAGE TANK LEVEL 1. 63 G 2.

CUMULATIVE TOTAL 1051 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.05 | TRACE | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.28 | | | 30 | | | |
| 2 | 6.04 | | | 31 | | | |
| 3 | 5.00 | | | 32 | | | |
| 4 | 6.60 | | | 33 | | | |
| 5 | 6.90 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.60 | | | 36 | | | |
| 8 | 6.76 | | | 37 | | | |
| 9 | 6.17 | | | 38 | | | |
| 10 | 6.17 | | | 39 | | | |
| 11 | 6.84 | | | 40 | | | |
| 12 | 6.50 | | | 41 | | | |
| 13 | 6.93 | | | 42 | | | |
| 14 | 8.20 | | | 43 | | | |
| 15 | 8.15 | | | 44 | | | |
| 16 | 8.17 | | | 45 | | | |
| 17 | 6.29 | | | 46 | | | |
| 18 | 6.10 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 610
Calverton, NY 11933
Tel: (516)369-4900

: action Firetraining Spill# 82-0923 Date 5-17-91 Time 0830
torage tank level 1.59.25 gal ?. gal Total gallons bailed 0.12 gal
. iping rate 32 gpm Total gallons pumped 25 2220 Pressure psi
umulative total 220.29 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| 1W | | | | 18 | 11.52 | | |
| 1 | 13.25 | 13.15 | .10 | 19 | | | |
| 2 | 12.19 | | | 20 | | | |
| 3 | 12.5 | | | 21 | | | |
| 4 | 14.27 | | | 22 | | | |
| 5 | 13.18 | | | 23 | | | |
| 6 | 11.97 | | | 24 | | | |
| 7 | 12.77 | Trace | | 25 | | | |
| 8 | 13.5 | | | 26 | | | |
| 9 | 16.7 | | | 27 | | | |
| 10 | 13.5 | | | 28 | | | |
| 11 | 18.9 | | | AFTER BAILING | | | |
| 12 | 14.94 | | | # | DTW | DTP | Product |
| 13 | 14.36 | | | 6 | 13.14 | Trace | |
| 14 | 15. | | | | | | |
| 15 | 14.47 | | | | | | |
| 16 | 16.34 | | | | | | |
| 17 | 12.73 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fuel Cal. SPILL# 84-0011 DATE 5-10-90 TIME 1030

STORAGE TANK LEVEL 1. 63 G. 2.

CUMULATIVE TOTAL 1051 G.

GALLONS BAILED trace

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.70 | | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | Bailing | |
| 1 | 5.68 | | | 30 | | | |
| 2 | 5.80 | | | 31 | | | |
| 3 | 4.74 | | | 32 | | | |
| 4 | 6.46 | | | 33 | | | |
| 5 | 6.83 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 7.13 | | | 36 | | | |
| 8 | 6.71 | | | 37 | | | |
| 9 | 6.07 | 6.04 | .03 | 38 | 6.08 | | |
| 10 | 5.94 | | | 39 | | | |
| 11 | 6.65 | 6.64 | .01 | 40 | 6.72 | | |
| 12 | 6.24 | | | 41 | | | |
| 13 | 6.91 | | | 42 | | | |
| 14 | 8.09 | | | 43 | | | |
| 15 | 8.03 | | | 44 | | | |
| 16 | 7.05 | | | 45 | | | |
| 17 | 6.21 | | | 46 | | | |
| 18 | 6.01 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ocation Firetraining Spill# 92-0923 Date 5-30-91 Time 0830
orage tank level 59.51 gal Cumulative total 220.55 Total gallons bailed 0.06
umping rate 32 gpm Total gallons pumped 220.29 Pressure ____psi
Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____
oil Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____
l Levels 1 ____ 2 ____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| MW | | | | 18 | 11.66 | | |
| | 13.46 | 13.33 | .13 | 19 | | | |
| 3 | 12.98 | Trace | | 20 | | | |
| | 12.24 | | | 21 | | | |
| 4 | 14.47 | | | 22 | | | |
| | 13.36 | | | 23 | | | |
| 6 | 12.13 | | | 24 | | | |
| | 12.96 | Trace | | 25 | | | |
| | 13.7 | | | 26 | | | |
| 9 | 16.88 | | | 27 | | | |
| 10 | 13.7 | | | 28 | | | |
| 11 | 19.08 | | | 29 | | | |
| 12 | 14.54 | | | 30 | | | |
| 13 | 15.13 | | | AFTER BAILING | | | |
| 14 | 15.18 | | | # | DTW | DTP | Product |
| 15 | 14.66 | | | 1. | 13.53 | 13.5 | .03 |
| 16 | 16.52 | | | | | | |
| 17 | 12.92 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Cal. SPILL# 84-0011 DATE 4/25/90 TIME 1330

STORAGE TANK LEVEL 1. 630 2.

CUMULATIVE TOTAL 1051 G.

GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.46 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.85 | | | 30 | | | |
| 2 | 5.37 | | | 31 | | | |
| 3 | 4.44 | | | 32 | | | |
| 4 | 6.17 | | | 33 | | | |
| 5 | 6.53 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.8 | | | 36 | | | |
| 8 | 6.51 | | | 37 | | | |
| 9 | 5.5 | Trace | | 38 | | | |
| 10 | 5.68 | | | 39 | | | |
| 11 | 6.95 | Trace | | 40 | | | |
| 12 | 5.94 | | | 41 | | | |
| 13 | 6.65 | | | 42 | | | |
| 14 | 7.82 | | | 43 | | | |
| 15 | 7.77 | | | 44 | | | |
| 16 | 6.82 | | | 45 | | | |
| 17 | 5.92 | | | 46 | | | |
| 18 | 5.71 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-14-91 Time 0830

Location: Calverton - Hietraining Spill # 82-0929

Storage tank level 59.88 gallons Recovered to date 220.92 gal.

Pump rate : 32 gpm Tot.gal. pumped 09113 Tot.gal.bailed 0.12

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.76 | | |
| 1 | 13.54 | 13.44 | .10 | | | | |
| 2 | 12.49 | | | | | | |
| 3 | 12.35 | | | | AFTER BAILED | | |
| 4 | 14.62 | | | 1. | 13.44 | Trace | |
| 5 | 13.47 | | | 7. | 13.09 | | |
| 6 | 12.27 | | | | | | |
| 7 | 13.13 | 13.09 | .04 | | | | |
| 8 | 13.84 | Trace | | | | | |
| 9 | 17. | Trace | | | | | |
| 10 | 13.82 | | | | | | |
| 11 | 19.23 | | | | | | |
| 12 | 14.68 | | | | | | |
| 13 | 15.28 | | | | | | |
| 14 | 15.69 | | | | | | |
| 15 | 14.8 | | | | | | |
| 16 | 16.64 | | | | | | |
| 17 | 13.02 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Cal. SPILL# 84-0011 DATE 4/12/90 TIME 13:30

STORAGE TANK LEVEL 1. 63 G. 2.

CUMULATIVE TOTAL 1051 G.

GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.6 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4. | | | 30 | | | |
| 2 | 5.5 | | | 31 | | | |
| 3 | 4.52 | | | 32 | | | |
| 4 | 6.91 | | | 33 | | | |
| 5 | 6.67 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.97 | | | 36 | | | |
| 8 | 6.7 | | | 37 | | | |
| 9 | 4.91 | Trace | | 38 | | | |
| 10 | 5.85 | | | 39 | | | |
| 11 | 6.5 | Trace | | 40 | | | |
| 12 | 6.09 | | | 41 | | | |
| 13 | 6.67 | | | 42 | | | |
| 14 | 7.94 | | | 43 | | | |
| 15 | 7.87 | | | 44 | | | |
| 16 | 6.9 | | | 45 | | | |
| 17 | 6.07 | | | 46 | | | |
| 18 | 5.86 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-22-91 Time 1000

Location: Calverton - Fire training Spill # 82-0923

Storage tank level 60.63 gallons Recovered to date 221.67 gal

Pump rate : 33 gpm Tot.gal. pumped 951061 Tot.gal.bailed 0.50

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | After | Bailing | |
| 1 | 13.93 | 13.62 | .31 | 1. | 13.61 | Trace | |
| 2 | 12.65 | Trace | | 3. | 12.52 | | |
| 3 | 12.65 | 12.51 | .14 | 7. | 13.25 | | |
| 4 | 14.79 | | | 9. | 17.15 | Trace | |
| 5 | 13.65 | | | | | | |
| 6 | 12.43 | | | | | | |
| 7 | 13.29 | 13.25 | .04 | 28 | | | |
| 8 | 14. | | | 29 | | | |
| 9 | 17.32 | 17.12 | .20 | 30 | | | |
| 10 | 13.96 | | | 31 | | | |
| 11 | 19.37 | | | 32 | | | |
| 12 | 14.85 | | | 33 | | | |
| 13 | 15.45 | | | 34 | | | |
| 14 | 15.5 | | | 35 | | | |
| 15 | 14.95 | | | 36 | | | |
| 16 | 16.76 | | | 37 | | | |
| 17 | 13.2 | | | 38 | | | |
| 18 | 12. | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Calibration SPILL# 84-0011 DATE 3/29/90 TIME 1300

STORAGE TANK LEVEL 1 63 G. 2.

CUMULATIVE TOTAL 1051 G

GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.5 | Trace | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.7 | | | 30 | | | |
| 2 | 6.11 | | | 31 | | | |
| 3 | 5.05 | | | 32 | | | |
| 4 | 6.76 | | | 33 | | | |
| 5 | 7.12 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.4 | | | 36 | | | |
| 8 | 7.12 | | | 37 | | | |
| 9 | 6.38 | Trace | | 38 | | | |
| 10 | 6.3 | | | 39 | | | |
| 11 | 6.95 | | | 40 | | | |
| 2 | 6.53 | | | 41 | | | |
| 3 | 7.23 | | | 42 | | | |
| 4 | 8.41 | | | 43 | | | |
| 5 | 8.35 | | | 44 | | | |
| 16 | 7.41 | | | 45 | | | |
| | 6.51 | | | 46 | | | |
| 18 | 6.32 | | | 47 | | | |
| | | | | 48 | | | |
| 20 | | | | 49 | | | |
| | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 2-17-91 Time 1000

Location: Grumman Calverton Fire Training Spill # 82-0923

Storage tank level 70 gallons corrections → Recovered to date 231 gal.

Pump rate : 35 gpm Tot.gal. pumped 322160 Tot.gal.bailed .25

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | Seal-on | | | | After Bailing | | |
| 1 | 14.22 | 14.00 | .22 | 1 | 14.04 | | |
| 2 | 13.06 | 13.03 | .03 | 2 | 13.07 | | |
| 3 | 13.02 | 12.91 | .11 | 3 | 12.96 | | |
| 4 | 15.14 | | | | - | | |
| 5 | 13.98 | | | | - | | |
| 6 | 12.76 | | | | - | | |
| 7 | 13.68 | 13.64 | .04 | 7 | 13.91 | | |
| 8 | 14.34 | | | | - | | |
| 9 | 17.68 | 17.52 | .16 | 9 | 17.62 | | |
| 10 | 14.34 | | | | | | |
| 11 | 19.73 | | | | | | |
| 12 | 15.20 | | | | | | |
| 13 | 15.81 | | | | | | |
| 14 | 15.83 | | | | | | |
| 15 | 15.79 | | | | | | |
| 16 | 17.12 | | | | | | |
| 17 | 13.52 | | | | | | |
| 18 | 12.26 | | | | | | |
| | | | | | | | |
| | | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman / Calverton / Fuel Calibration SPILL# 84-0011 DATE 3-15-90 TIME 1130

STORAGE TANK LEVEL 1 63 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.44 | 7.43 | .01 | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | | | |
| 1 | 5.43 | | | 30 | | | |
| 2 | 6.43 | | | 31 | | | |
| 3 | 5.43 | | | 32 | | | |
| 4 | 6.96 | | | 33 | | | |
| 5 | 7.27 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 7.43 | | | 36 | | | |
| 8 | 7.14 | | | 37 | | | |
| 9 | 6.65 | TRACE | | 38 | | | |
| 10 | 6.58 | | | 39 | | | |
| 11 | 7.20 | TRACE | | 40 | | | |
| 12 | 6.90 | | | 41 | | | |
| 13 | 7.54 | | | 42 | | | |
| 14 | 8.56 | | | 43 | | | |
| 15 | 8.51 | | | 44 | | | |
| 16 | 7.55 | | | 45 | | | |
| 17 | 6.57 | | | 46 | | | |
| 18 | 6.51 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-31-91 Time 0915

Location: GRUMMAN CALL FIRE TRAIN AREA Spill # 82-0923

Storage tank level 71 gallons Recovered to date 232 gal.

Pump rate : 32 gpm Tot.gal. pumped 091766 Tot.gal.bailed 50

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 12.39 | | |
| 1 | 14.29 | 14.13 | 0.16 | 19 | | | |
| 2 | 13.33 | 13.13 | 0.20 | 20 | | | |
| 3 | 13.04 | TRACE | | 21 | | | |
| 4 | 15.33 | | | | AFTER BAILED | | |
| 5 | 14.14 | | | 1 | 14.19 | TRACE | |
| 6 | 12.92 | | | 2 | 14.21 | 14.19 | 0.02 |
| 7 | 13.81 | 13.75 | 0.06 | 7 | 13.77 | TRACE | |
| 8 | 14.50 | | | 9 | 17.67 | 17.64 | 0.03 |
| 9 | 17.71 | 17.62 | 0.09 | 27 | | | |
| 10 | 14.48 | TRACE | | 28 | | | |
| 11 | 19.92 | | | 29 | | | |
| 12 | 15.34 | | | 30 | | | |
| 13 | 15.98 | | | 31 | | | |
| 14 | 15.99 | | | 32 | | | |
| 15 | 15.45 | | | 33 | | | |
| 16 | 17.25 | | | 34 | | | |
| 17 | 13.67 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calv. Fuel Calibration SPILL# 84-0011 DATE 2/27/90 TIME 1430

STORAGE TANK LEVEL 1. 63 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.10 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.05 | | | 30 | | | |
| 2 | 6.25 | | | 31 | | | |
| 3 | 4.19 | | | 32 | | | |
| 4 | 6.75 | | | 33 | | | |
| 5 | 7.06 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.24 | | | 36 | | | |
| 8 | 6.94 | | | 37 | | | |
| 9 | 5.78 | | | 38 | | | |
| 10 | 6.37 | | | 39 | | | |
| 11 | 7.00 | Trace | | 40 | | | |
| 12 | 6.72 | | | 41 | | | |
| 13 | 7.18 | | | 42 | | | |
| 14 | 8.40 | | | 43 | | | |
| 15 | 8.35 | | | 44 | | | |
| 16 | 7.35 | | | 45 | | | |
| 17 | 6.45 | | | 46 | | | |
| 18 | 6.30 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

HPC ENVIRONMENTAL SERVICES
P.O. Box 610
Calverton, NY 11933
Tel: (516)369-4900

Action Firetraining Spill# 84-0923 Date 8-16-91 Time 0900
Storage tank level 1: 72 gal 2: _____ gal Total gallons bailed 0.50 gal
Pump rate 32 gpm Total gallons pumped 164639 Pressure _____ psi
Cumulative total 233 gal

| Well | DTW | DTP | Product | Well | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | | | | 10 | 12.46 | | |
| | 14.48 | 14.17 | .31 | 10 | | | |
| 2 | 13.25 | 13.15 | .10 | 20 | | | |
| | 13.22 | 13.12 | .10 | 21 | | | |
| 4 | 15.4 | | | 22 | | | |
| | 14.23 | | | 23 | | | |
| 6 | 13. | | | 24 | | | |
| | 14.02 | 13.85 | .17 | 25 | | | |
| 8 | 14.57 | | | 26 | | | |
| | 17.92 | 17.67 | .25 | 27 | | | |
| 10 | 14.54 | | | 28 | | | |
| 11 | 20.01 | | | After Bailing | | | |
| 12 | 15.43 | | | Well | DTW | DTP | Product |
| 13 | 16.12 | | | 1. | 14.2 | Trace | |
| 14 | 16.76 | | | 2. | 13.12 | | |
| 15 | 15.53 | | | 3. | 13.15 | | |
| 16 | 17.3 | | | 7. | 13.84 | Trace | |
| 17 | 13.72 | | | 9. | 17.7 | Trace | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Calibration SPILL# 84-0011 DATE 2/14/90 TIME 0930

STORAGE TANK LEVEL 1 63 G 2.

CUMULATIVE TOTAL 1051 GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.29 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW.1 | | | | 26 | | | |
| PW.2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1. | 3.88 | | | 30 | | | |
| 2 | 5.21 | | | 31 | | | |
| 3 | 4.31 | | | 32 | | | |
| 4 | 6.07 | | | 33 | | | |
| 5 | 6.4 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.68 | | | 36 | | | |
| 8 | 6.4 | | | 37 | | | |
| 9 | 5.25 | Trace | | 38 | | | |
| 10 | 5.58 | | | 39 | | | |
| 11 | 6.31 | Trace | | 40 | | | |
| 12 | 5.99 | | | 41 | | | |
| 13 | 6.49 | | | 42 | | | |
| 14 | 7.72 | | | 43 | | | |
| 15 | 7.67 | | | 44 | | | |
| 16 | 6.7 | | | 45 | | | |
| 17 | 5.82 | | | 46 | | | |
| 18 | 5.68 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-30-91 Time 0830

Location: Fire training Spill # 82-0923

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : 32 gpm Tot.gal. pumped 229693 Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | after | bailing | |
| 1 | 13.83 | 13.71 | .12 | 1. | 13.92 | | |
| 2 | 12.71 | Trace | | 3. | 12.75 | | |
| 3 | 12.71 | 12.64 | .07 | 7. | 13.42 | | |
| 4 | 14.95 | | | 25 | | | |
| 5 | 13.73 | | | 26 | | | |
| 6 | 12.50 | | | 27 | | | |
| 7 | 13.42 | 13.35 | .07 | 28 | | | |
| 8 | 14.11 | | | 29 | | | |
| 9 | 17.21 | Trace | | 30 | | | |
| 10 | 14.05 | | | 31 | | | |
| 11 | 19.54 | | | 32 | | | |
| 12 | 14.81 | | | 33 | | | |
| 13 | 15.63 | | | 34 | | | |
| 14 | 15.58 | | | 35 | | | |
| 15 | 15.01 | | | 36 | | | |
| 16 | 16.79 | | | 37 | | | |
| 17 | 13.23 | | | 38 | | | |
| 18 | 11.96 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVIC.
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-4

84-0011

CATION: Calverton Fuel Calcination DATE 1/31/90 TIME 1330

STORAGE TANK LEVEL 1. 63 G. 2. 3. 4.

MULATIVE TOTAL 1051 G.

PUMPING RATE RW1 OFF RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.50 | 6.29 | .21 | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 3.75 | | | 28. | | | |
| 2. | 5.33 | | | 29. | | | |
| 3. | 3.64 | | | 30. | | | |
| 4. | 6.04 | | | 31. | | | |
| 5. | 6.42 | | | 32. | | | |
| 6. | [illegible] | | | 33. | | | |
| 7. | 6.75 | | | 34. | | | |
| 8. | 6.46 | | | 35. | | | |
| 9. | 4.21 | Trace | | 36. | | | |
| 10. | 5.50 | | | 37. | | | |
| 1. | 6.25 | Trace | | 38. | | | |
| 12. | 5.81 | | | 39. | | | |
| 3. | 6.27 | | | 40. | | | |
| 14. | [illegible] | | | 41. | | | |
| [illegible] | [illegible] | | | 42. | | | |
| 16. | [illegible] | | | 43. | | | |
| [illegible] | [illegible] | | | 44. | | | |
| 18. | 5.58 | | | 45. | | | |
| [illegible] | | | | 46. | | | |
| 20. | | | | 47. | | | |
| [illegible] | | | | 48. | | | |
| [illegible] | | | | 49. | | | |
| [illegible] | | | | 50. | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-13-91 Time 0830

Location: Firetraining Spill # _____

Storage tank level _____ gallons Recovered to date _____ gal

Pump rate : 32 gpm Tot.gal. pumped 293313 Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | after | bailing | |
| 1 | 14.13 | 13.93 | .20 | 1. | 13.93 | Trace | |
| 2 | 13. | 12.92 | .08 | 2. | 12.96 | | |
| 3 | 12.89 | 12.86 | .03 | 3. | 12.84 | | |
| 4 | 15.15 | | | 7. | 13.58 | | |
| 5 | 13.98 | | | 9. | 17.4 | | |
| 6 | 12.74 | | | 27 | | | |
| 7 | 13.72 | 13.59 | .13 | 28 | | | |
| 8 | 14.29 | | | 29 | | | |
| 9 | 17.94 | 17.44 | .50 | 30 | | | |
| 10 | 14.28 | | | 31 | | | |
| 11 | 19.75 | | | 32 | | | |
| 12 | 15.19 | | | 33 | | | |
| 13 | 15.83 | | | 34 | | | |
| 14 | 15.8 | | | 35 | | | |
| 15 | 15.26 | | | 36 | | | |
| 16 | 17.03 | | | 37 | | | |
| 17 | 13.45 | | | 38 | | | |
| 18 | 12.23 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

el: 654-4900

MPC ENVIRONMENTAL SERVICES

P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

84-0011

LOCATION: Calverton Fuel/Calverton DATE 1/16/90 TIME 1300

STORAGE TANK LEVEL 1. 63 G 2. 3. 4.

CUMULATIVE TOTAL 1051 G

PUMPING RATE RW1 OFF RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.23 | 7.08 | .15 | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 4.92 | | | 28. | | | |
| 2. | 6.15 | | | 29. | | | |
| 3. | 5.08 | | | 30. | | | |
| 4. | 6.79 | | | 31. | | | |
| 5. | 7.15 | | | 32. | | | |
| 6. | mis | | | 33. | | | |
| 7. | 7.44 | | | 34. | | | |
| 8. | 7.17 | | | 35. | | | |
| 9. | 10.46 | TRACE | | 36. | | | |
| 10. | 6.31 | | | 37. | | | |
| 11. | 6.98 | | | 38. | | | |
| 12. | 6.56 | | | 39. | | | |
| 13. | 6.88 | | | 40. | | | |
| 14. | 8.42 | | | 41. | | | |
| 15. | 8.33 | | | 42. | | | |
| 16. | 7.39 | | | 43. | | | |
| 17. | 6.54 | | | 44. | | | |
| 18. | 6.33 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-27-91 Time 0900

Location: Firetraining Spill # 82-0923

Storage tank level ____ gallons Recovered to date ____ gal

Pump rate : 32 gpm Tot.gal. pumped 359362 Tot.gal.bailed ____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | | | |
| 1 | 14.15 | 13.98 | .17 | 22 | after | bailing | |
| 2 | 13.15 | 12.95 | .20 | 1 | 14.02 | Trace | |
| 3 | 12.55 | | | 2 | 13.02 | Trace | |
| 4 | 15.27 | | | 7 | 13.86 | | |
| 5 | 14.03 | | | 8 | 13.46 | | |
| 6 | 12.82 | | | 9 | 17.63 | | |
| 7 | 13.85 | 13.64 | .21 | 28 | | | |
| 8 | 14.45 | 14.44 | .01 | 29 | | | |
| 9 | 17.68 | 17.51 | .17 | 30 | | | |
| 10 | 14.4 | Trace | | 31 | | | |
| 11 | 19.9 | | | 32 | | | |
| 12 | 15.31 | | | 33 | | | |
| 13 | 15.93 | | | 34 | | | |
| 14 | 15.93 | | | 35 | | | |
| 15 | 15.36 | | | 36 | | | |
| 16 | 17.12 | | | 37 | | | |
| 17 | 13.54 | | | 38 | | | |
| 18 | 13.3 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES

P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

84-0011

LOCATION: Cabe Fuel Cal DATE 1/4/90 TIME 1200

STORAGE TANK LEVEL 1. 63 GAL. 2. 3. 4.

CUMULATIVE TOTAL 1051 GAL. BAILED 0.13 G.

PUMPING RATE RW1 62-45 0779 RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.2 | 6.95 | .25 | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 5.43 | | | 28. | | | |
| 2. | 6.04 | | | 29. | | | |
| 3. | 4.98 | | | 30. | | | |
| 4. | 6.69 | | | 31. | | | |
| 5. | 7.06 | | | 32. | | | |
| 6. | — | | | 33. | | | |
| 7. | 7.37 | | | 34. | | | |
| 8. | 7.08 | | | 35. | | | |
| 9. | 6.98 | 6.24 | .14 | 9. | 6.38 | Trace | |
| 10. | 6.82 | | | 37. | | | |
| 11. | 6.86 | | | 38. | | | |
| 12. | 6.48 | | | 39. | | | |
| 13. | 7.91 | | | 40. | | | |
| 14. | 8.93 | | | 41. | | | |
| 15. | 8.26 | | | 42. | | | |
| 16. | 7.9 | | | 43. | | | |
| 17. | 6.42 | | | 44. | | | |
| 18. | 6.21 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910008/2 01/14/91

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:01/02/91 RECEIVED:01/02/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

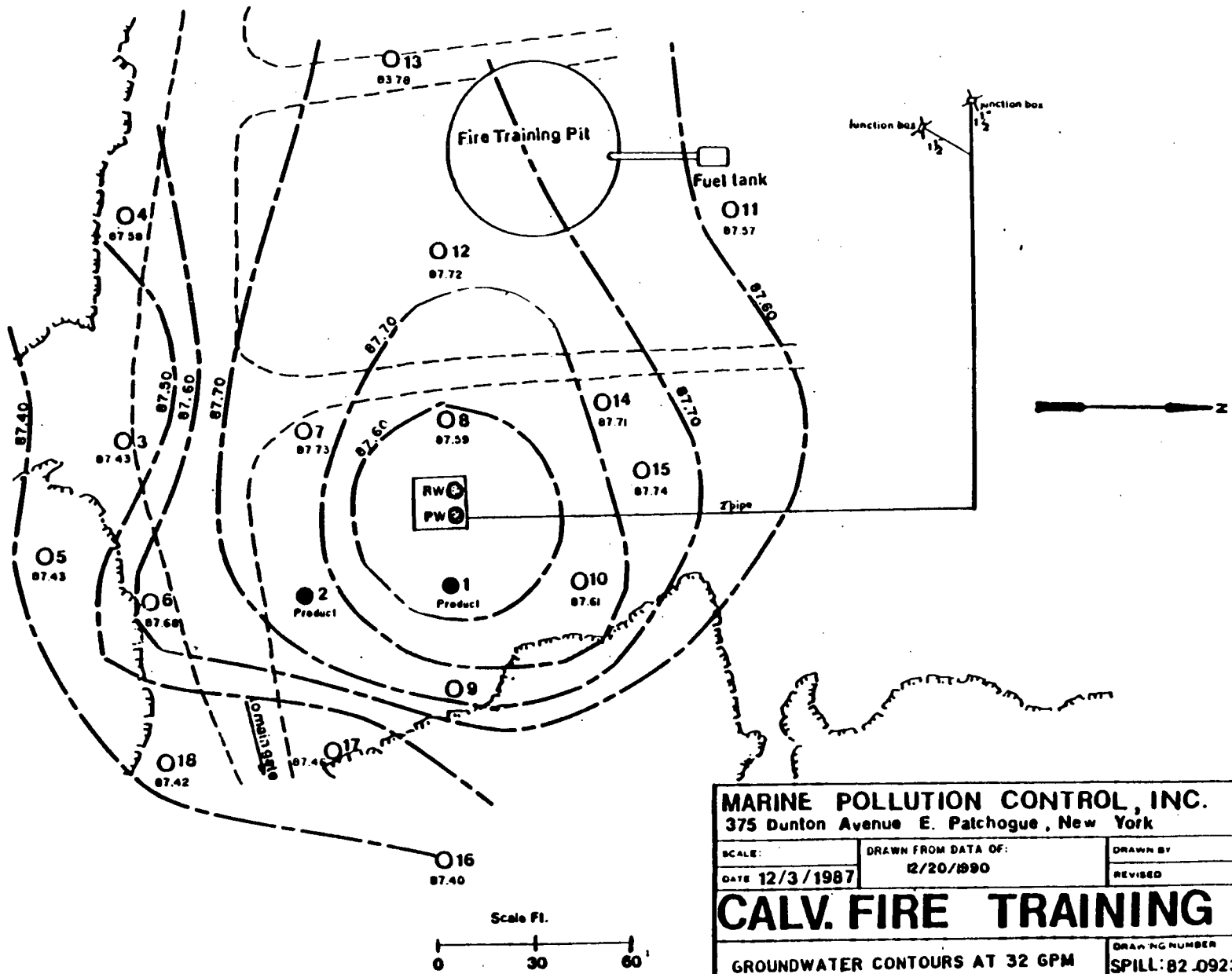
cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

rn= 26 NYSDOH ID# 10320 530

| WELL | TOP OF PIPE ELEVATION |
|---|---|
| 1 | 101.87 |
| 2 | 100.78 |
| 3 | 100.72 |
| 4 | 103.10 |
| 5 | 101.76 |
| 6 | 100.78 |
| 7 | 101.73 |
| 8 | 102.32 |
| 9 | 100.39 |
| 10 | 102.32 |
| 11 | 107.74 |
| 12 | 103.32 |
| 13 | 100.01 |
| 14 | 103.92 |
| 15 | 103.38 |
| 16 | 104.84 |
| 17 | 101.29 |
| 18 | 100.00 |




MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

| SCALE: | DRAWN FROM DATA OF: | DRAWN BY |
|---|---|---|
| DATE 12/3/1987 | 12/20/1990 | REVISED |

# CALV. FIRE TRAINING

GROUNDWATER CONTOURS AT 32 GPM

DRAWING NUMBER SPILL: 82-0923

531

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTIN

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911049/2 04/05/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:03/27/91 RECEIVED:03/27/91

SAMPLE: Water sample, #82-0923, 1000

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, J. Selva-GAC, MPC

REMARKS:

DIRECTOR

532

rn= 4270 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTIN

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911990/2 06/11/91

Grumman Aerospace Corporation
Mail Station A-04-06
Calverton, NY 11933
ATTN: Charles Smith

PO# 30-28955

SOURCE OF SAMPLE: Grumman Aerospace, Calverton
COLLECTED BY: Client DATE COL'D:05/31/91 RECEIVED:06/03/91

SAMPLE: Water sample, fire training, 0930

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: H. Keahey/GAC, J. Goff/MPC

REMARKS:

DIRECTOR

533

rn= 8558 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912780/1 08/12/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:07/31/91 RECEIVED:08/01/91

SAMPLE: Water sample, 9:30

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: J. Ohlmann, J. Selva-GAC, MPC

REMARKS:

534

DIRECTOR

rn= 12428 NYSDOH ID# 10220

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911534 05/09/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:04/30/91 RECEIVED:04/30/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |

cc: J. Ohlmann, J. Selva MPC

REMARKS:

535

DIRECTOR

ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

# Grumman - Calverton

# Fire Training Area

Prepared by:

MPC Environmental Services
October 11, 1991

P.O. Box 610
460 Edwards Avenue, Calverton, NY 11933
516-369-4900 FAX 516-369-4909

536

An Equal Opportunity Employer

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910373/1

02/06/91

Grumman Aerospace Corporation
Mail Station A-03-116
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Fire Training, Calverton
COLLECTED BY: MPC DATE COL'D:01/31/91 RECEIVED:01/31/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | |
|---|---|---|
| Benzene | ug/L | <1 |
| Toluene | ug/L | <1 |
| Ethyl Benzene | ug/L | 2 |
| m + p Xylene | ug/L | 7 |
| o Xylene | ug/L | 2 |

ANALYTICAL PARAMETERS

cc: J. Ohlmann, John Selva & MPC

REMARKS:

DIRECTOR

537

rn= 1499

NYSDOH ID# 10320

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES 84-0011

P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

LOCATION: GRUMMAN CALV. FUEL CAL AREA DATE 1-8-90 TIME 1230

STORAGE TANK LEVEL 1. 63 GAL. 2. 3. 4.

CUMULATIVE TOTAL 1051 GAL.

PUMPING RATE RW1 68 GPM RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.70 | 7.52 | 0.18 | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 5.80 | | | 28. | | | |
| 2. | 6.59 | | | 29. | | | |
| 3. | 3.22 | | | 30. | | | |
| 4. | 7.05 | | | 31. | | | |
| 5. | 7.35 | | | 32. | | | |
| 6. | — | | | 33. | | | |
| 7. | 7.65 | | | 34. | | | |
| 8. | 7.35 | | | 35. | | | |
| 9. | 6.59 | TRACE | | 36. | | | |
| 10. | 6.70 | | | 37. | | | |
| 11. | 7.27 | | | 38. | | | |
| 12. | 7.03 | | | 39. | | | |
| 13. | 7.70 | | | 40. | | | |
| 14. | 8.75 | | | 41. | | | |
| 15. | 8.69 | | | 42. | | | |
| 16. | 7.70 | | | 43. | | | |
| 17. | 6.70 | | | 44. | | | |
| 18. | 6.60 | | | 45. | | | |
| 19. | | | | 46. | | | |
| 20. | | | | 47. | | | |
| 21. | | | | 48. | | | |
| 22. | | | | 49. | | | |
| 23. | | | | 50. | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 10/3/91 Time 084

Location: Grumman Gal. Fire Training Area Spill # 82-0923

Storage tank level _____ gallons Recovered to date 234.0 gal.

Pump rate : 32 gpm Tot.gal. pumped 38685 Tot.gal.bailed .25

| Well # | DTW | DTP | Product | # | DTW AFTER BAILER | DTP | Product |
|---|---|---|---|---|---|---|---|
| KW | | | | 21 | | | |
| 1 | 14.32 | 14.10 | 0.22 | 22 | 14.14 | TRACE | |
| 2 | 13.12 | 13.10 | 0.02 | 23 | 13.11 | TRACE | |
| 3 | 13.07 | 13.05 | 0.02 | 24 | 13.05 | TRACE | |
| 4 | 15.36 | | | 25 | 13 | | |
| 5 | 14.15 | | | 26 | | | |
| 6 | 12.91 | | | 27 | | | |
| 7 | 13.85 | 13.75 | 0.10 | 28 | 13.77 | TRACE | |
| 8 | 14.50 | TRACE | | 29 | | | |
| 9 | 17.61 | | | 30 | | | |
| 10 | 14.48 | | | 31 | | | |
| 11 | 19.96 | | | 32 | | | |
| 12 | 15.40 | | | 33 | | | |
| 13 | 16.01 | | | 34 | | | |
| 14 | 16.00 | | | 35 | | | |
| 15 | 15.46 | | | 36 | | | |
| 16 | 17.22 | | | 37 | | | |
| 17 | 13.65 | | | 38 | | | |
| 18 | 12.39 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

Tel: 654-4900

MPC ENVIRONMENTAL SERVICES

P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772

Fax: 654-49

84-0011

OCATION: Cabs Fuel Calibration DATE 1/23/90 TIME 1200

STORAGE TANK LEVEL 1. 63 G 2. 3. 4.

JMULATIVE TOTAL 1051 G

PUMPING RATE RW1 OFF RW2 RW3 RW4

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.1 | 6.96 | .14 | 24. | | | |
| RW 2. | | | | 25. | | | |
| RW 3. | | | | 26. | | | |
| RW 4. | | | | 27. | | | |
| 1. | 4.46 | | | 28. | | | |
| 2. | 5.85 | | | 29. | | | |
| 3. | 4.92 | | | 30. | | | |
| 4. | 6.7 | | | 31. | | | |
| 5. | 7.06 | | | 32. | | | |
| 6. | — | | | 33. | | | |
| 7. | 7.38 | | | 34. | | | |
| 8. | 7.09 | | | 35. | | | |
| 9. | 5.53 | Trace | | 36. | | | |
| 10. | 6.24 | | | 37. | | | |
| 11. | 6.88 | Trace | | 38. | | | |
| 12. | 6.48 | | | 39. | | | |
| 3. | 6.79 | | | 40. | | | |
| 14. | 8.35 | | | 41. | | | |
| 5. | 8.28 | | | 42. | | | |
| 16. | 7.31 | | | 43. | | | |
| 7. | 6.46 | | | 44. | | | |
| 18. | 6.25 | | | 45. | | | |
| ). | | | | 46. | | | |
| 20. | | | | 47. | | | |
| . | | | | 48. | | | |
| 22. | | | | 49. | | | |
| . | | | | 50. | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9/20/91 Time 0900

Location: GRUMMAN-CALV. FIRE TRAINING AREA Spill # 82-0923

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : 33 gpm Tot.gal. pumped 327514 Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | | 1230 | |
| 1 | 14.15 | 14.05 | 0.10 | 19 | | | |
| 2 | 13.05 | TRACE | | | AFTER BAILED | | |
| 3 | 12.99 | TRACE | | 1 | 14.09 | TRACE | |
| 4 | 15.29 | | | 7 | 13.72 | TRACE | |
| 5 | 14.06 | | | 23 | | | |
| 6 | 12.85 | | | 24 | | | |
| 7 | 13.80 | 1370 | 0.10 | 25 | | | |
| 8 | 14.44 | TRACE | | 26 | | | |
| 9 | 17.55 | TRACE | | 27 | | | |
| 10 | 14.40 | | | 28 | | | |
| 11 | 19.90 | | | 29 | | | |
| 12 | 15.30 | | | 30 | | | |
| 13 | 15.95 | | | 31 | | | |
| 14 | 15.94 | | | 32 | | | |
| 15 | 15.38 | | | 33 | | | |
| 16 | 17.15 | | | 34 | | | |
| 17 | 13.57 | | | 35 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FUEL CAL SPILL# 84-0011 DATE 2-7-90 TIME 1115

STORAGE TANK LEVEL 1 63. G. 2

CUMULATIVE TOTAL 1051 GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.30 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 3.50 | | | 30 | | | |
| 2 | 5.11 | | | 31 | | | |
| 3 | 4.20 | | | 32 | | | |
| 4 | 6.01 | | | 33 | | | |
| 5 | 6.39 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.67 | | | 36 | | | |
| 8 | 6.44 | | | 37 | | | |
| 9 | 4.79 | TRACE | | 38 | | | |
| 10 | 5.50 | | | 39 | | | |
| 11 | 6.18 | TRACE | | 40 | | | |
| 12 | 6.79 | | | 41 | | | |
| 13 | 6.37 | | | 42 | | | |
| 14 | 7.65 | | | 43 | | | |
| 15 | 7.59 | | | 44 | | | |
| 16 | 6.60 | | | 45 | | | |
| 17 | 5.77 | | | 46 | | | |
| 18 | 5.55 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-6-91 Time 0900

Location: GRUMMAN CALV. FIRE TRAINING AREA Spill # 82-0923

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : 33 gpm Tot.gal. pumped 262461 Tot.gal.bailed .10

| Well# | DTW | DTP | Product | # | DTW AFTER | DTP BAILED | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | | | |
| 1 | 13.95 | 13.85 | 0.10 | 22 | 13.87 | 13.86 | 0.01 |
| 2 | 12.84 | TRACE | | 23 | | | |
| 3 | 12.77 | TRACE | | 24 | | | |
| 4 | 15.08 | | | 25 | | | |
| 5 | 13.87 | | | 26 | | | |
| 6 | 12.62 | | | 27 | | | |
| 7 | 13.50 | 13.47 | 0.03 | 28 | 13.48 | TRACE | |
| 8 | 14.25 | TRACE | | 29 | | | |
| 9 | 17.35 | TRACE | | 30 | | | |
| 10 | 14.20 | | | 31 | | | |
| 11 | 19.69 | | | 32 | | | |
| 12 | 15.10 | | | 33 | | | |
| 13 | 15.75 | | | 34 | | | |
| 14 | 15.75 | | | 35 | | | |
| 15 | 15.50 | | | 36 | | | |
| 16 | 16.95 | | | 37 | | | |
| 17 | 13.37 | | | 38 | | | |
| 18 | 12.09 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman / Calverton / Fuel Cal. SPILL# 84-0011 DATE 2-23-90 TIME 1100

STORAGE TANK LEVEL 1. 63 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED 0.06 G.

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.20 | TRACE | | 22 | | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | - | | | 26 | | | |
| PW 2 | - | | | 27 | | | |
| IW | - | | | 28 | | | |
| | - | | | 29 | After | rain | |
| 1 | 4.34 | | | 30 | | | |
| 2 | 6.13 | | | 31 | | | |
| 3 | 4.02 | | | 32 | | | |
| 4 | 6.67 | | | 33 | | | |
| 5 | 6.97 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 7.10 | | | 36 | | | |
| 8 | 6.82 | | | 37 | | | |
| 9 | 4.97 | 4.95 | .02 | 38 | 6.20 | | |
| 10 | 6.21 | | | 39 | | | |
| 11 | 6.90 | 6.88 | .02 | 40 | 7.33 | | |
| 12 | 6.61 | | | 41 | | | |
| 13 | 6.78 | | | 42 | | | |
| 14 | 8.26 | | | 43 | | | |
| 15 | 8.22 | | | 44 | | | |
| 16 | 7.26 | | | 45 | | | |
| 17 | 6.35 | | | 46 | | | |
| 18 | 6.19 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-22-91 Time 0830

Location: GRUMMAN CALV. FIRE TRAINING AREA Spill # 82-0923

Storage tank level 73 gallons Recovered to date 234 gal.

Pump rate : 32 gpm Tot.gal. pumped 1924070 Tot.gal.bailed 1 GAL

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | AFTER BAILED | | |
| 1 | 13.75 | 13.52 | 0.23 | 1 | 13.60 | TRACE | |
| 2 | 12.70 | 12.52 | 0.18 | 2 | 12.58 | TRACE | |
| 3 | 12.63 | 12.50 | 0.13 | 3 | 12.58 | 12.57 | 0.01 |
| 4 | 14.85 | | | | | | |
| 5 | 13.57 | | | | | | |
| 6 | 12.32 | | | | | | |
| 7 | 13.31 | 13.21 | 0.10 | 7 | 13.25 | TRACE | |
| 8 | 13.98 | | | 26 | | | |
| 9 | 17.00 | TRACE | | 27 | | | |
| 10 | 14.27 | | | 28 | | | |
| 11 | 19.50 | | | 29 | | | |
| 12 | 14.90 | | | 30 | | | |
| 13 | 15.58 | | | 31 | | | |
| 14 | 15.50 | | | 32 | | | |
| 15 | 14.90 | | | 33 | | | |
| 16 | 16.60 | | | 34 | | | |
| 17 | 13.02 | | | 35 | | | |
| 18 | 11.75 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FUEL CAL. SPILL# 84-0011 DATE 3-5-90 TIME 1030

STORAGE TANK LEVEL 1. 6.3 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED

Flowmeter #1. 77 Gpm Gallons Pumped 473886

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.38 | TRACE | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.25 | | | 30 | | | |
| 2 | 6.35 | | | 31 | | | |
| 3 | 5.35 | | | 32 | | | |
| 4 | 6.88 | | | 33 | | | |
| 5 | 7.20 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.35 | | | 36 | | | |
| 8 | 7.08 | | | 37 | | | |
| 9 | 6.22 | TRACE | | 38 | | | |
| 10 | 6.50 | | | 39 | | | |
| 11 | 7.11 | | | 40 | | | |
| 12 | 6.82 | | | 41 | | | |
| 13 | 7.45 | | | 42 | | | |
| 14 | 8.50 | | | 43 | | | |
| 15 | 8.47 | | | 44 | | | |
| 16 | 7.47 | | | 45 | | | |
| 17 | 6.60 | | | 46 | | | |
| 18 | 6.42 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-9-91 Time 200

Location: GRUMMAN CALV. FIRE TRAINING AREA Spill # 82-0423

Storage tank level 71.50 gallons Recovered to date 232.50 gal.

Pump rate : 33 gpm Tot.gal. pumped _____ Tot.gal.bailed .50

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 12.55 | | |
| 1 | 14.41 | 14.21 | 0.20 | 19 | | | |
| 2 | 13.45 | 13.21 | 0.24 | 20 | | | |
| 3 | 13.17 | TRACE | | 21 | | | |
| 4 | 15.45 | | | 22 | AFTER BAILED | | |
| 5 | 14.25 | | | 23 1 | 17.24 | TRACE | |
| 6 | 13.05 | | | 24 2 | 13.25 | 13.24 | 0.01 |
| 7 | 13.87 | TRACE | | 25 9 | 17.79 | TRACE | |
| 8 | 14.06 | | | 26 | | | |
| 9 | 17.85 | 17.75 | 0.10 | 27 | | | |
| 10 | 14.60 | | | 28 | | | |
| 11 | 20.05 | | | 29 | | | |
| 12 | 15.47 | | | 30 | | | |
| 13 | 16.10 | | | 31 | | | |
| 14 | 16.11 | | | 32 | | | |
| 15 | 15.57 | | | 33 | | | |
| 16 | 17.36 | | | 34 | | | |
| 17 | 13.77 | | | 35 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Cal SPILL# 94-0011 DATE 3/23/90 TIME 14:30

STORAGE TANK LEVEL 1 6.3 G. 2.

CUMULATIVE TOTAL 1051 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.9 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.86 | | | 30 | | | |
| 2 | 5.9 | | | 31 | | | |
| 3 | 4.89 | | | 32 | | | |
| 4 | 6.6 | | | 33 | | | |
| 5 | 6.96 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.26 | | | 36 | | | |
| 8 | 6.98 | | | 37 | | | |
| 9 | 5.6 | | | 38 | | | |
| 10 | 6.15 | | | 39 | | | |
| 11 | 6.78 | Trace | | 40 | | | |
| 12 | 6.39 | | | 41 | | | |
| 13 | 7.06 | | | 42 | | | |
| 14 | 8.29 | | | 43 | | | |
| 15 | 8.16 | | | 44 | | | |
| 16 | 7.2 | | | 45 | | | |
| 17 | 6.35 | | | 46 | | | |
| 18 | 6.17 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-26-91 Time 1030

Location: Grumman - Firetraining Spill # 82-0923

Storage tank level 70.50 gallons Recovered to date 231.50 gal.

Pump rate : 33 gpm Tot.gal. pumped 0689750 Tot.gal.bailed .50

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 12.37 | | |
| 1 | 14.19 | 13.98 | .21 | 19 | | | |
| 2 | 13.17 | 13. | .17 | 20 | after | bailing | |
| 3 | 12.97 | 12.92 | .05 | 1. | 14.03 | | |
| 4 | 15.22 | | | 2. | 13.01 | | |
| 5 | 14.01 | | | 3. | 12.93 | Trace | |
| 6 | 12.81 | | | 7. | 13.67 | | |
| 7 | 13.72 | 13.64 | .08 | 9. | 17.51 | | |
| 8 | 14.4 | | | 26 | | | |
| 9 | 17.6 | 17.48 | .12 | 27 | | | |
| 10 | 14.39 | | | 28 | | | |
| 11 | 19.8 | | | 29 | | | |
| 12 | 15.25 | | | 30 | | | |
| 13 | 15.9 | | | 31 | | | |
| 14 | 15.88 | | | 32 | | | |
| 15 | 15.32 | | | 33 | | | |
| 16 | 17.11 | | | 34 | | | |
| 17 | 13.54 | | | 35 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calv Grumman Full Cal Area SPILL# 84-0011 DATE 4-5-90 TIME 1100

STORAGE TANK LEVEL 1 6.3 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED 2

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.20 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.05 | | | 30 | | | |
| 2 | 6.01 | | | 31 | | | |
| 3 | 4.82 | | | 32 | | | |
| 4 | 6.65 | | | 33 | | | |
| 5 | 6.95 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.15 | | | 36 | | | |
| 8 | 7.85 | | | 37 | | | |
| 9 | 5.15 | | | 38 | | | |
| 10 | 6.23 | | | 39 | | | |
| 11 | 6.87 | TRACE | | 40 | | | |
| 12 | 6.57 | | | 41 | | | |
| 13 | 6.90 | | | 42 | | | |
| 14 | 8.27 | | | 43 | | | |
| 15 | 8.24 | | | 44 | | | |
| 16 | 7.25 | | | 45 | | | |
| 17 | 6.35 | | | 46 | | | |
| 18 | | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-10-91 Time 1330

Location: GRUMMAN CAMP. FIRE TRAINING AREA Spill # 82-0923

Storage tank level 60.83 gallons Recovered to date 221.87 gal

Pump rate : 32 gpm Tot.gal. pumped 003174 Tot.gal.bailed .20

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | AFTER BAILED | | |
| 1 | 14.05 | 13.85 | 0.20 | 1 | 13.89 | 13.88 | 0.01 |
| 2 | 12.90 | TRACE | | | | | |
| 3 | 12.82 | 12.78 | 0.04 | 3 | 12.78 | TRACE | |
| 4 | 15.05 | | | 25 | | | |
| 5 | 13.90 | | | 26 | | | |
| 6 | 12.68 | | | 27 | | | |
| 7 | 13.50 | TRACE | | 28 | | | |
| 8 | 14.30 | | | 29 | | | |
| 9 | 17.55 | TRACE | | 30 | | | |
| 10 | 14.22 | | | 31 | | | |
| 11 | 19.65 | | | 32 | | | |
| 12 | 15.10 | | | 33 | | | |
| 13 | 15.70 | | | 34 | | | |
| 14 | 15.75 | | | 35 | | | |
| 15 | 15.20 | | | 36 | | | |
| 16 | 17.76 | | | 37 | | | |
| 17 | 13.43 | | | 38 | | | |
| 18 | 12.20 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: [illegible] SPILL# [illegible] DATE [illegible] TIME [illegible]

STORAGE TANK LEVEL 1 63 G. 2.

CUMULATIVE TOTAL 1051 G.

GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | [illegible] | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 3.25 | | | 30 | | | |
| 2 | [illegible] | | | 31 | | | |
| 3 | 3.84 | | | 32 | | | |
| 4 | 6.01 | | | 33 | | | |
| 5 | 6.34 | | | 34 | | | |
| 6 | - | | | 35 | | | |
| 7 | 6.67 | | | 36 | | | |
| 8 | 6.39 | | | 37 | | | |
| 9 | 4.31 | TRACE | | 38 | | | |
| 10 | 5.47 | | | 39 | | | |
| 11 | 6.19 | | | 40 | | | |
| 12 | [illegible] | | | 41 | | | |
| 13 | [illegible] | | | 42 | | | |
| 14 | 7.65 | | | 43 | | | |
| 15 | [illegible] | | | 44 | | | |
| 16 | 6.61 | | | 45 | | | |
| 17 | 5.76 | | | 46 | | | |
| 18 | 5.64 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-21-91 Time 0830

Location: GRUMMAN CALV FIRE TRAIN AREA Spill # 82-0923

Storage tank level 60.13 gallons Recovered to date 221.17 gal.

Pump rate : 31 gpm Tot.gal. pumped 962971 Tot.gal.bailed .25

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | 11.85 | | |
| 1 | 13.80 | 13.52 | 0.28 | | | | |
| 2 | 12.60 | TRACE | | | | | |
| 3 | 14.47 | TRACE | | | AFTER | BAILED | |
| 4 | 14.71 | | | 1 | 13.58 | TRACE | |
| 5 | 13.57 | | | | | | |
| 6 | 12.35 | | | | | | |
| 7 | 13.17 | TRACE | | | | | |
| 8 | 13.92 | TRACE | | | | | |
| 9 | 17.09 | | | 27 | | | |
| 10 | 13.90 | | | 28 | | | |
| 11 | 19.30 | | | 29 | | | |
| 12 | 14.75 | | | 30 | | | |
| 13 | 15.38 | | | 31 | | | |
| 14 | 15.42 | | | 32 | | | |
| 15 | 14.85 | | | 33 | | | |
| 16 | 16.70 | | | 34 | | | |
| 17 | 13.10 | | | 35 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton - Fuel Col. SPILL# 84-0011 DATE 5/2/90 TIME 1300

STORAGE TANK LEVEL 1 63 G. 2.

CUMULATIVE TOTAL 1051 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.68 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.78 | | | 30 | | | |
| 2 | 5.68 | | | 31 | | | |
| 3 | 4.66 | | | 32 | | | |
| 4 | 6.39 | | | 33 | | | |
| 5 | 6.75 | | | 34 | | | |
| 6 | —— | | | 35 | | | |
| 7 | 7.04 | | | 36 | | | |
| 8 | 6.75 | | | 37 | | | |
| 9 | 5.88 | Trace | | 38 | | | |
| 10 | 5.9 | | | 39 | | | |
| 11 | 6.57 | Trace | | 40 | | | |
| 12 | 6.14 | | | 41 | | | |
| 13 | 6.84 | | | 42 | | | |
| 14 | 8.03 | | | 43 | | | |
| 15 | 7.95 | | | 44 | | | |
| 16 | 7. | | | 45 | | | |
| 17 | 6.14 | | | 46 | | | |
| 18 | 5.94 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-7-91 Time 1000

Location: GRUMMAN CALV. FIRE TRAINING AREA Spill # 82-0923

Storage tank level 59.76 gallons Recovered to date 220.80 gal.

Pump rate : 33 gpm Tot.gal. pumped 837822 Tot.gal.bailed .25

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | AFTER BAILED | | |
| 1 | 13.70 | 13.40 | 0.30 | 1 | 13.50 | 13.46 | 0.04 |
| 2 | 12.45 | | | 20 | | | |
| 3 | 12.30 | TRACE | | 21 | | | |
| 4 | 14.55 | | | 22 | | | |
| 5 | 13.42 | | | 23 | | | |
| 6 | 12.20 | | | 24 | | | |
| 7 | 13.02 | | | 25 | | | |
| 8 | 13.75 | | | 26 | | | |
| 9 | 16.95 | | | 27 | | | |
| 10 | 13.80 | | | 28 | | | |
| 11 | 19.15 | | | 29 | | | |
| 12 | 14.59 | | | 30 | | | |
| 13 | 15.20 | | | 31 | | | |
| 14 | 15.25 | | | 32 | | | |
| 15 | 14.71 | | | 33 | | | |
| 16 | 16.58 | | | 34 | | | |
| 17 | 12.97 | | | 18 | 11.75 | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Cell SPILL# 84-0011 DATE 5/17/90 TIME 1190

STORAGE TANK LEVEL 1 63 G. 2.

CUMULATIVE TOTAL 1051 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.9 | Trace | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.07 | | | 30 | | | |
| 2 | 5.75 | | | 31 | | | |
| 3 | 3.26 | | | 32 | | | |
| 4 | 6.46 | | | 33 | | | |
| 5 | 6.8 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.95 | | | 36 | | | |
| 8 | 6.64 | | | 37 | | | |
| 9 | 4.5 | | | 38 | | | |
| 10 | 6. | | | 39 | | | |
| 11 | 6.64 | Trace | | 40 | | | |
| 12 | 6.4 | | | 41 | | | |
| 13 | 5.7 | | | 42 | | | |
| 14 | 8.12 | | | 43 | | | |
| 15 | 8.08 | | | 44 | | | |
| 16 | 7.12 | | | 45 | | | |
| 17 | 6.14 | | | 46 | | | |
| 18 | 5.95 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calc Fire Training Area Spill# 92-0923 Date 5-24-91 Time 11:00

Storage tank level 59.45 gal Cumulative total 220.49 Total gallons bailed 20

Pumping rate 30 gpm Total gallons pumped 792570 Pressure ____ psi

Air Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

Air Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

Pool Levels 1 ____ 2 ____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.58 | | |
| 1 | 13.45 | 13.27 | 0.18 | 19 | | | |
| 2 | 12.32 | | | 20 | | | |
| 3 | 12.21 | | | 21 | | | |
| 4 | 14.41 | | | 22 | | | |
| 5 | 13.30 | | | 23 | | | |
| 6 | 12.10 | | | 24 | | | |
| 7 | 12.90 | TRACE | | 25 | | | |
| 8 | 13.65 | | | 26 | | | |
| 9 | 16.85 | | | 27 | | | |
| 10 | 13.62 | | | 28 | | | |
| 11 | 19.00 | | | 29 | | | |
| 12 | 14.70 | | | 30 | | | |
| 13 | 15.05 | | | AFTER BAILING | | | |
| 14 | 15.15 | | | # | DTW | DTP | Product |
| 15 | 14.60 | | | 1 | 13.30 | TRACE | |
| 16 | 16.50 | | | | | | |
| 17 | 12.85 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton-Fuel Cal. SPILL# 84-0011 DATE 6/1/90 TIME 1330

STORAGE TANK LEVEL 1. 6.3 G. 2.

CUMULATIVE TOTAL 1051 G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 6.73 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.77 | | | 30 | | | |
| 2 | 5.68 | | | 31 | | | |
| 3 | 4.7 | | | 32 | | | |
| 4 | 6.28 | | | 33 | | | |
| 5 | 6.59 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 6.78 | | | 36 | | | |
| 8 | 6.49 | | | 37 | | | |
| 9 | 5.47 | Trace | | 38 | | | |
| 10 | 5.85 | | | 39 | | | |
| 11 | 6.48 | Trace | | 40 | | | |
| 12 | 6.38 | | | 41 | | | |
| 13 | 6.82 | | | 42 | | | |
| 14 | 7.89 | | | 43 | | | |
| 15 | 7.84 | | | 44 | | | |
| 16 | 6.88 | | | 45 | | | |
| 17 | 5.98 | | | 46 | | | |
| 18 | 5.78 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

# Grumman - Calverton

# Fuel Calibration Area

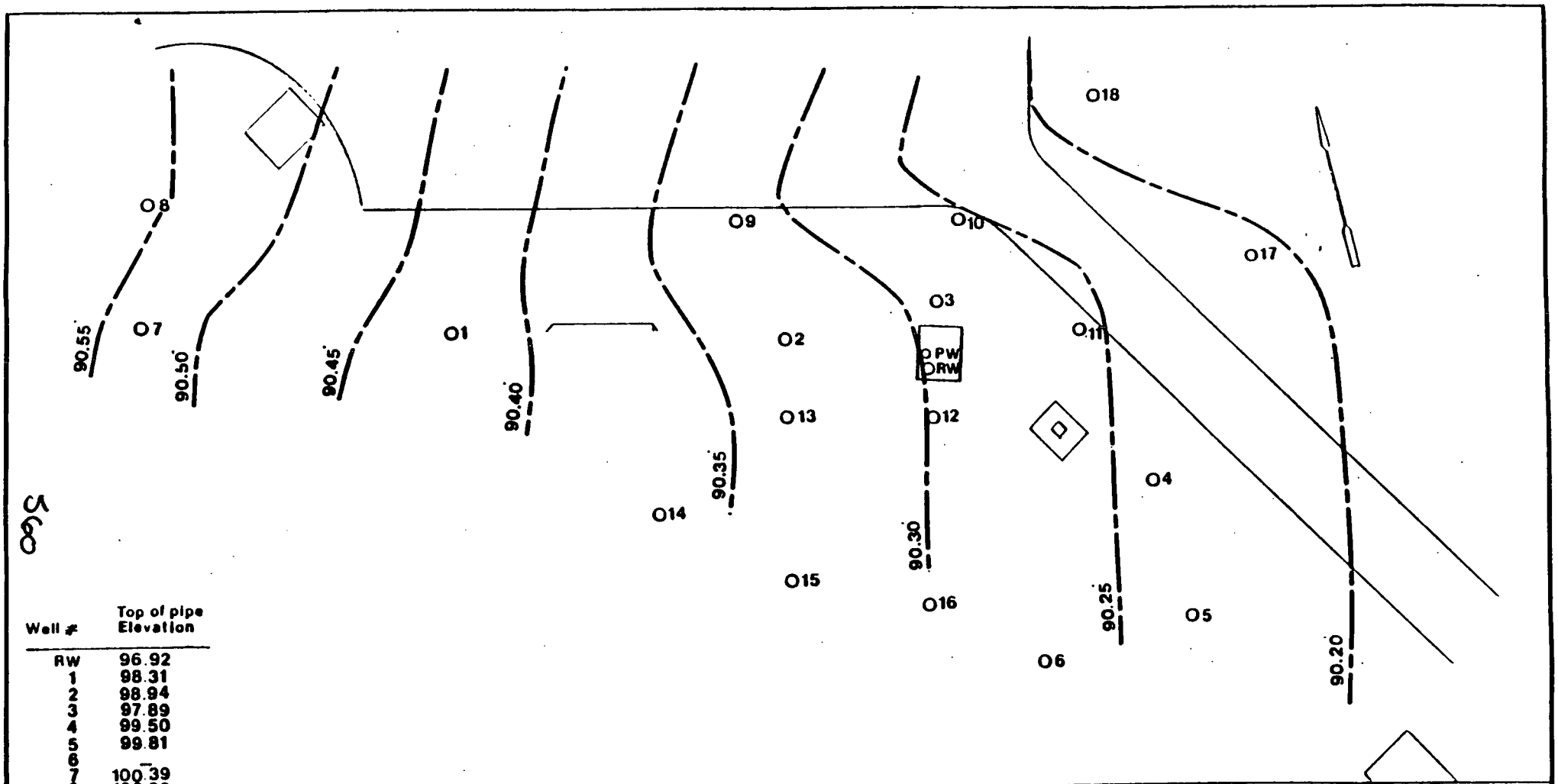
Prepared by:

MPC Environmental Services
October 11, 1991

P.O. Box 610
460 Edwards Avenue, Calverton, NY 11933
516-369-4900 FAX 516-369-4909



An Equal Opportunity Employer




| Well # | Top of pipe Elevation |
|---|---|
| RW | 96.92 |
| 1 | 98.31 |
| 2 | 98.94 |
| 3 | 97.89 |
| 4 | 99.50 |
| 5 | 99.81 |
| 6 | — |
| 7 | 100.39 |
| 8 | 100.20 |
| 9 | 99.33 |
| 10 | 99.17 |
| 11 | 99.77 |
| 12 | 99.28 |
| 13 | 100.00 |
| 14 | 101.16 |
| 15 | 101.06 |
| 16 | 100.06 |
| 17 | 99.24 |
| 18 | 99.12 |

**MARINE POLLUTION CONTROL**
375 Dunton Avenue E. Patchogue, New York

SCALE 1" = 30'
APPROVED BY:
DRAWN BY
DATE 12/3/1987
REVISED

# CALVERTON FUEL CAL.

**GROUND WATER CONTOUR MAP**
Contour drawn according to relative elevation

DRAWING NUMBER
Spill 84-0011

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912780/2 08/12/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:07/31/91 RECEIVED:08/01/91

SAMPLE: Water sample, 10:30

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <2 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | <4 | |

cc: J. Ohlmann, J. Selva-GAC, MPC

REMARKS:

DIRECTOR

561

rn= 12429 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911990/1 06/11/91

Grumman Aerospace Corporation
Mail Station A-04-06
Calverton, NY 11933
ATTN: Charles Smith PO# 30-28955

SOURCE OF SAMPLE: Grumman Aerospace, Calverton
COLLECTED BY: Client DATE COL'D:05/31/91 RECEIVED:06/03/91

SAMPLE: Water sample, fuel cal. area, 0900

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 4 | |
| Ethyl Benzene | ug/L | <1 | |
| m Xylene | ug/L | <2 | |
| o+p Xylene | ug/L | 22 | |

cc: H. Keahey/GAC, J. Goff/MPC

REMARKS:

DIRECTOR

562

rn= 8557 NYSDOH ID# 10320

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 10/3/94 Time 0945

Location: Grumman Calv. Fuel Cal. Area Spill # 84-0011

Storage tank level _____ gallons Recovered to date 180.7 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.88 | 7.70 | 0.18 | 21 | | | |
| 1 | 6.60 | | | 22 | | | |
| 2 | 6.77 | | | 23 | | | |
| 3 | 5.75 | | | 24 | | | |
| 4 | 7.40 | | | 25 | | | |
| 5 | 7.74 | | | 26 | | | |
| 6 | — | | | 27 | | | |
| 7 | 7.90 | | | 28 | | | |
| 8 | 7.60 | | | 29 | | | |
| 9 | 7.07 | | | 30 | | | |
| 10 | 6.95 | | | 31 | | | |
| 11 | 7.60 | TRACE | | 32 | | | |
| 12 | 7.25 | | | 33 | | | |
| 13 | 7.90 | TRACE | | 34 | | | |
| 14 | 8.96 | | | 35 | | | |
| 15 | 8.91 | | | 36 | | | |
| 16 | 7.95 | | | 37 | | | |
| 17 | 7.16 | | | 38 | | | |
| 18 | 6.96 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910008/1

01/14/91

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:01/02/91 RECEIVED:01/02/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 6 | |

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

564

rn= 25 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910373/2

02/06/91

Grumman Aerospace Corporation
Mail Station A-03-116
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:01/31/91 RECEIVED:01/31/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | |
|---|---|---|
| Benzene | ug/L | 2 |
| Toluene | ug/L | 4 |
| Ethyl Benzene | ug/L | <1 |
| m + p Xylene | ug/L | 6 |
| o Xylene | ug/L | 11 |

ANALYTICAL PARAMETERS

cc:J. Ohlmann, John Selva & MPC

REMARKS:

DIRECTOR

565

rn= 1500 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911049/1 04/05/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:03/27/91 RECEIVED:03/27/91

SAMPLE: Water sample, #84-0011, 1200

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | 1 | |
| Toluene | ug/L | 2 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | 33 | |
| o Xylene | ug/L | 11 | |

cc: J. Ohlmann, J. Selva-GAC, MPC

REMARKS:

DIRECTOR

rn= 4269 NYSDOH ID# 10320 566

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910008/1

01/14/91

Grumman Aerospace Corporation
Mail Station A03-12
Bethpage, NY 11714
ATTN: Harvey Keahey

PO# 30-28955

SOURCE OF SAMPLE: Fuel Calibration, Calverton
COLLECTED BY: MPC DATE COL'D:01/02/91 RECEIVED:01/02/91

SAMPLE: Water sample

| ANALYTICAL PARAMETERS | | |
|---|---|---|
| Benzene | ug/L | 1 |
| Toluene | ug/L | <1 |
| Ethyl Benzene | ug/L | <1 |
| m + p Xylene | ug/L | <2 |
| o Xylene | ug/L | 6 |

ANALYTICAL PARAMETERS

cc: J. Ohlmann, J. Selva, MPC

REMARKS:

DIRECTOR

rn= 25

NYSDOH ID# 10320

567

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9/20/91 Time 1015

Location: Grumman Corw. Fuel Cal Area Spill # 84-0011

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed .05

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| 0 | 7.92 | 7.75 | 0.17 | 18 | 7.00 | | |
| 1 | 6.40 | | | 19 | | | |
| 2 | 6.80 | | | 20 | | | |
| 3 | 5.80 | | | 21 | | | |
| 4 | 7.45 | | | 22 | | | |
| 5 | 7.77 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.90 | | | 25 | | | |
| 8 | 7.63 | | | 26 | | | |
| 9 | 6.85 | | | | AFTER BAILED | | |
| 10 | 6.99 | | | | | | |
| 11 | 7.75 | 7.65 | 0.10 | | 7.68 | | |
| 12 | 7.30 | | | 30 | | | |
| 13 | 7.93 | 7.92 | 0.01 | 31 | | | |
| 14 | 9.00 | | | 32 | | | |
| 15 | 8.95 | | | 33 | | | |
| 16 | 8.00 | | | 34 | | | |
| 17 | 7.21 | | | 35 | | | |

NPC ENVIRONMENTAL SERVICES
P.O. Box 610 Calverton, NY 11933
Tel: (516) 369-4900

Date 9-27-91 Time 1200

Location: Fuel Calibration Spill # 84-0011

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate: on gpm Tot. gal. pumped _____ Tot. gal. bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| [illegible] | 7.52 | 7.48 | .04 | 21 | | | |
| 1 | 5.49 | | | 22 | | | |
| 2 | 6.32 | | | 23 | | | |
| 3 | 5.5 | | | 24 | | | |
| 4 | 7.18 | | | 25 | | | |
| 5 | 7.5 | | | 26 | | | |
| 6 | ——— | | | 27 | | | |
| 7 | 7.64 | | | 28 | | | |
| 8 | 7.34 | | | 29 | | | |
| 9 | 6.66 | | | 30 | | | |
| 10 | 6.68 | | | 31 | | | |
| 11 | 7.34 | Trace | | 32 | | | |
| 12 | 7.03 | | | 33 | | | |
| 13 | 7.62 | Trace | | 34 | | | |
| 14 | 8.74 | | | 35 | | | |
| 15 | 8.7 | | | 36 | | | |
| 16 | 7.76 | | | 37 | | | |
| 17 | 6.92 | | | 38 | | | |
| 18 | 6.71 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-6-91 Time 1045

Location: GRUMMAN-CALW. FUEL CAL. AREA Spill # _____

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed .25

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.42 | 7.35 | 0.07 | 21 | | | |
| 1 | 5.52 | | | 22 | | | |
| 2 | 5.75 | | | 23 | | | |
| 3 | 5.27 | | | 24 | | | |
| 4 | 7.03 | | | 25 | | | |
| 5 | 7.37 | | | 26 | | | |
| 6 | — | | | 27 | | | |
| 7 | 7.51 | | | 28 | | | |
| 8 | 7.21 | | | 29 | | | |
| 9 | 6.47 | | | 30 | | | |
| 10 | 6.55 | | | 31 | | | |
| 11 | 7.55 | 7.15 | 0.40 | 32 | 7.27 | 7.25 | 0.02 |
| 12 | 6.89 | | | 33 | 7.52 | | |
| 13 | 7.57 | 7.50 | 0.07 | 34 | | | |
| 14 | 8.60 | | | 35 | | | |
| 15 | 8.55 | | | 36 | | | |
| 16 | 7.60 | | | 37 | | | |
| 17 | 6.77 | | | 38 | | | |
| 18 | 6.60 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-13-91 Time 1300

Location: Fuel Calibration Spill # _____

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : on gpm Tot.gal. pumped _____ Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.74 | 7.58 | .16 | 18 | 6.88 | | |
| 1 | 6.76 | | | 19 | | | |
| 2 | 6.68 | | | 20 | | | |
| 3 | 5.65 | | | 21 | | | |
| 4 | 7.91 | | | 22 | | | |
| 5 | 7.65 | | | 23 | | | |
| 6 | ——— | | | 24 | | | |
| 7 | 7.8 | | | 25 | | | |
| 8 | 7.52 | | | 26 | | | |
| 9 | 7. | | | 27 | | | |
| 10 | 6.85 | | | 28 | after | bailing | |
| 11 | 7.54 | 7.47 | .07 | 11. | 7.44 | | |
| 12 | 7.15 | | | 30 | | | |
| 13 | 7.85 | 7.78 | .07 | 13. | 7.86 | | |
| 14 | 8.86 | | | 32 | | | |
| 15 | 8.81 | | | 33 | | | |
| 16 | 7.85 | | | 34 | | | |
| 17 | 7.05 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-22-91 Time 1130

Location: GRUMMAN CALV. FUEL DEPOT AREA Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.55 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 15.27 | | |
| 1 | 16.30 | TRACE | | 19 | 14.06 | | |
| 2 | 15.09 | | | 20 | 13.69 | | |
| 3 | 14.90 | | | 21 | 14.40 | | |
| 4 | 17.35 | | | 22 | 14.20 | | |
| 5 | 17.00 | | | 23 | 15.00 | | |
| 6 | 16.15 | | | 24 | 14.20 | | |
| 7 | 16.14 | | | 25 | 14.77 | | |
| 8 | DRY | | | 26 | 14.65 | | |
| 9 | 16.95 | | | 27 | 11.85 | | |
| 10 | 18.00 | | | 28 | 14.59 | | |
| 11 | 17.24 | | | 29 | 14.30 | | |
| 12 | 18.51 | | | 30 | 14.40 | | |
| 13 | 14.47 | | | A | 15.27 | | |
| 14 | 15.50 | | | B | 15.36 | | |
| 15 | 14.80 | | | C | 16.41 | | |
| 16 | 15.17 | | | D | 17.20 | | |
| 17 | 15.10 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-30-91 Time 1100

Location: Fuelcalibration Spill # 84-0011

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : on gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.37 | 7.27 | .10 | 21 | | | |
| 1 | 6.33 | | | 22 | after | bailing | |
| 2 | 6.37 | | | 23 | | | |
| 3 | 5.33 | | | 13. | 8.13 | Trace | |
| 4 | 6.98 | | | 25 | | | |
| 5 | 7.39 | | | 26 | | | |
| 6 | ——— | | | 27 | | | |
| 7 | 7.47 | | | 28 | | | |
| 8 | 7.18 | | | 29 | | | |
| 9 | 6.64 | Trace | | 30 | | | |
| 10 | 6.51 | | | 31 | | | |
| 11 | 7.08 | | | 32 | | | |
| 12 | 6.88 | | | 33 | | | |
| 13 | 8.33 | 7.29 | 1.04 | 34 | | | |
| 14 | 8.54 | | | 35 | | | |
| 15 | 8.48 | | | 36 | | | |
| 16 | 7.54 | | | 37 | | | |
| 17 | 6.72 | | | 38 | | | |
| 18 | 6.52 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-9-91 Time 0930

Location: GRUMMAN GALV. FUEL DEPOT AREA Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.51 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed 0

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| SW | | | | 18 | 16.17 | | |
| 1 | 17.22 | | | 19 | 14.95 | | |
| 2 | 15.98 | | | 20 | 14.55 | | |
| 3 | 15.84 | | | 21 | 15.95 | | |
| 4 | 18.25 | | | 22 | 15.07 | | |
| 5 | 17.90 | | | 23 | 15.90 | | |
| 6 | 17.06 | | | 24 | 15.10 | | |
| 7 | 17.05 | | | 25 | 15.64 | | |
| | DRY | | | 26 | 15.51 | | |
| | 17.82 | TRACE | | 27 | 12.73 | | |
| 10 | 18.90 | | | 28 | 15.50 | | |
| 11 | 18.15 | | | 29 | 15.20 | | |
| 12 | 19.45 | TRACE | | 30 | 15.35 | | |
| 13 | 15.42 | | | A | 15.19 | | |
| 14 | 16.37 | | | B | 15.29 | | |
| 15 | 15.70 | | | C | 17.32 | | |
| 16 | 16.10 | | | D | 18.11 | | |
| 17 | 16.00 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610 Calverton, NY 11933
Tel: (516) 369-4900

Date 8-16-91 Time 1030

Location: Fuel Depot, Calverton Grumman Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.55 gal.

Pump rate : _____ gpm Tot. gal. pumped _____ Tot. gal. bailed 0.04

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| MW | | | | 21 | 14.42 | | |
| 1 | 17.1 | | | 22 | 14.94 | | |
| 2 | 16.52 | | | 23 | 15.75 | | |
| 3 | 15.72 | | | 24 | 14.98 | | |
| 4 | 18.87 | | | 25 | 15.52 | | |
| 5 | 17.74 | | | 26 | 15.39 | | |
| 6 | 16.93 | | | 27 | 12.6 | | |
| 7 | 16.92 | | | 28 | 15.38 | | |
| 8 | DRY | | | 29 | 15.05 | | |
| 9 | 17.74 | 17.67 | .07 | 30 | 15.22 | | |
| 10 | 18.75 | | | A | 16.32 | | |
| 11 | 18. | | | B | 16.15 | | |
| 12 | 19.3 | | | C | 17.19 | | |
| 13 | 15.3 | | | D | 17.96 | | |
| 14 | 16.26 | | | 35 | | | |
| 15 | 15.56 | | | 36 | | | |
| 16 | 15.97 | | | 37 | after | bailing | |
| 17 | 15.85 | | | 9 | 17.69 | Trace | |
| 18 | 16.02 | | | 39 | | | |
| 19 | 14.8 | | | 40 | | | |
| 20 | 15.81 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-26-91 Time 1100

Location: Grumman-Fuel Depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.49 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed .12

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 14.36 | | |
| 1 | 17.06 | | | 22 | 14.94 | | |
| 2 | 15.82 | | | 23 | 15.66 | | |
| 3 | 15.66 | | | 24 | 14.92 | | |
| 4 | 18.07 | | | 25 | 15.45 | | |
| 5 | 17.67 | Trace | | 26 | 15.93 | | |
| 6 | 16.9 | | | 27 | 12.52 | | |
| 7 | 16.87 | | | 28 | 15.32 | | |
| 8 | DRY | | | 29 | 15.05 | | |
| 9 | 17.77 | 17.69 | .14 | 30 | 15.17 | | |
| 10 | 18.7 | | | A | 15.96 | | |
| 11 | 17.92 | Trace | | B | 16.1 | | |
| 12 | 19.25 | | | C | 17.19 | | |
| 13 | 15.26 | | | D | 17.93 | | |
| 14 | 16.2 | | | | after | bailing | |
| 15 | 15.51 | | | 9. | 17.67 | | |
| 16 | 15.99 | | | | | | |
| 17 | 15.78 | | | | | | |
| 18 | 15.99 | | | | | | |
| 19 | 14.74 | | | | | | |
| 20 | 15.76 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-31-91 Time 1145

Location: Grumman Calv. Fuel Depot Area Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.51 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed 0.02

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 16.10 | | |
| 1 | 17.19 | | | 19 | 14.83 | | |
| 2 | 15.08 | | | 20 | 14.46 | | |
| 3 | 15.79 | | | 21 | 15.88 | | |
| 4 | 18.19 | | | 22 | 15.02 | | |
| 5 | 17.83 | TRACE | | 23 | 15.79 | | |
| 6 | 16.99 | | | 24 | 15.01 | | |
| 7 | 16.97 | | | 25 | 15.56 | | |
| 8 | DRY | | | 26 | 15.42 | | |
| 9 | 17.83 | 17.79 | 0.04 | 27 | 12.62 | | |
| 10 | 18.81 | | | 28 | 15.43 | | |
| 11 | 18.04 | TRACE | | 29 | 15.29 | | |
| 12 | 19.34 | TRACE | | 30 | 15.16 | | |
| 13 | 15.37 | | | A | 16.13 | | |
| 14 | 16.32 | | | B | 16.22 | | |
| 15 | 15.62 | | | C | 17.25 | | |
| 16 | 16.02 | | | D | 18.04 | | |
| 17 | 15.91 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610 Calverton, NY 11933
Tel: (516) 369-4900

Date 7-10-91 Time 1245

Location: GRUMMAN CALW. FUEL CAL. AREA Spill # 84-0011

Storage tank level 129.15 gallons Recovered to date 1117.15 gal.

Pump rate : ON gpm Tot.gal. pumped _____ Tot.gal.bailed .50

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| KW | 8.45 | 8.35 | 0.10 | 21 | | | |
| 1 | 6.95 | | | 22 | | | |
| 2 | 7.35 | | | 23 | | | |
| 3 | 6.35 | | | 24 | | | |
| 4 | 7.95 | | | 25 | | | |
| 5 | 8.30 | | | 26 | | | |
| 6 | — | | | | | | |
| 7 | 8.39 | | | | | | |
| 8 | 8.10 | | | | | | |
| 9 | 7.64 | | | | AFTER BAILED | | |
| 10 | 7.55 | | | | | | |
| 11 | 8.32 | 8.12 | 0.20 | 11 | 8.17 | TRACE | |
| 12 | 7.84 | | | | | | |
| 13 | 8.59 | 8.30 | 0.29 | 13 | 8.35 | TRACE | |
| 14 | 9.50 | | | 35 | | | |
| 15 | 9.45 | | | 36 | | | |
| 16 | 8.50 | | | 37 | | | |
| 17 | 7.70 | | | 38 | | | |
| 18 | 7.53 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-12-91 Time 1230

Location: Gulf Calverton Fuel Calibration Spill # 84-0011

Storage tank level 175 gallons ← corrections → Recovered to date 1163 gal.

Pump rate : 60 gpm Tot.gal. pumped 299876 Tot.gal.bailed .75

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.61 | 8.45 | .16 | | | | |
| 1 | 7.58 | | | | | | |
| 2 | 7.46 | | | | | | |
| 3 | 6.44 | | | | | | |
| 4 | 8.09 | | | | | | |
| 5 | 8.45 | | | | | | |
| 6 | - | | | | | | |
| 7 | 8.52 | | | | | | |
| 8 | Sampling | | | | | | |
| 9 | 7.75 | | | | | | |
| 10 | 7.64 | | | | After | Bailing | |
| 11 | 8.41 | 8.26 | .15 | 11 | 8.76 | | |
| 12 | 7.94 | | | | | | |
| 13 | 9.06 | 8.31 | .75 | 13 | 10.28 | 10.18 | .10 |
| 14 | 9.64 | | | | | | |
| 15 | 9.59 | | | | | | |
| 16 | 8.66 | | | | | | |
| 17 | 7.81 | | | | | | |
| 18 | 7.63 | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-21-91 Time 0945

Location: Grumman Calv. Fuel Cal Area Spill # 84-0011

Storage tank level 128.55 gallons Recovered to date 1116.55 gal.

Pump rate : ON gpm Tot.gal. pumped _____ Tot.gal.bailed 0.10

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.04 | 7.97 | 0.07 | 18 | 7.11 | | |
| | 7.02 | | | | | | |
| 2 | 6.99 | | | | | | |
| 3 | 5.95 | | | | | | |
| 4 | 7.55 | | | | AFTER | BAILED | |
| 5 | 7.90 | | | RW | 8.04 | 7.97 | 0.07 |
| 6 | — | | | | | | |
| 7 | 8.00 | | | | | | |
| 8 | 7.72 | | | | | | |
| 9 | 7.18 | | | | | | |
| 10 | 7.15 | | | | | | |
| 11 | 7.76 | | | | | | |
| 12 | 7.45 | | | | | | |
| 13 | 8.05 | | | | | | |
| 14 | 9.12 | | | | | | |
| 15 | 9.08 | | | | | | |
| 16 | 8.12 | | | | | | |
| 17 | 7.30 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-27-91 Time 1000

Location: Calverton - Fuel Calibration Spill # 84-0011

Storage tank level 128.65 gallons Recovered to date 1116.65 gal.

Pump rate : DN gpm Tot.gal. pumped _____ Tot.gal.bailed 0.10

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.15 | 8.02 | .13 | | | | |
| 1 | 7.17 | | | | After | Bailing | |
| 2 | 7.05 | | | P.W. | 8.1 | 8.06 | .04 |
| 3 | 6.04 | | | | | | |
| 4 | 7.65 | | | | | | |
| 5 | 7.98 | | | | | | |
| 6 | — | | | | | | |
| 7 | 8.1 | | | | | | |
| 8 | 7.84 | | | | | | |
| 9 | 7.36 | | | | | | |
| 10 | 7.24 | | | | | | |
| 11 | 7.87 | | | | | | |
| 12 | 7.57 | | | | | | |
| 13 | 8.17 | | | | | | |
| 14 | 9.2 | | | | | | |
| 15 | 9.16 | | | | | | |
| 16 | 8.22 | | | | | | |
| 17 | 7.41 | | | | | | |
| 18 | 7.22 | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-7-91 Time 1130

Location: Grumman Calv. Fuel Cal. Area Spill # 84-0011

Storage tank level 128.45 gallons Recovered to date 1116.45 gal.

Pump rate : 0 gpm Tot.gal. pumped 799876 Tot.gal.bailed 0

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.87 | 7.80 | 0.07 | 18 | 6.87 | | |
| 1 | 6.19 | | | 19 | | | |
| 2 | 6.75 | | | 20 | | | |
| 3 | 5.70 | | | 21 | | | |
| 4 | 7.31 | | | 22 | | | |
| 5 | 7.65 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.80 | | | 25 | | | |
| 8 | 7.50 | | | 26 | | | |
| 9 | 6.95 | | | 27 | | | |
| 10 | 6.90 | | | 28 | | | |
| 11 | 7.55 | | | 29 | | | |
| 12 | 7.20 | | | 30 | | | |
| 13 | 7.80 | | | 31 | | | |
| 14 | 8.90 | | | 32 | | | |
| 15 | 8.84 | | | 33 | | | |
| 16 | 7.90 | | | 34 | | | |
| 17 | 7.05 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-14-91 Time 1100

Location: Calverton - Fuel Calibration Spill # 84-0011

Storage tank level 128.45 gallons Recovered to date 1116.45 gal.

Pump rate : on gpm Tot.gal. pumped — Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.8 | Trace | | 18 | 6.97 | | |
| 1 | 6.8 | | | 19 | | | |
| 2 | 6.84 | | | 20 | | | |
| 3 | 5.8 | | | 21 | | | |
| 4 | 7.44 | | | 22 | | | |
| 5 | 7.76 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.88 | | | 25 | | | |
| 8 | 7.6 | | | 26 | | | |
| 9 | 7.06 | | | 27 | | | |
| 10 | 6.98 | | | 28 | | | |
| 11 | 7.62 | | | 29 | | | |
| 12 | 7.3 | | | 30 | | | |
| 13 | 7.9 | | | 31 | | | |
| 14 | 9 | | | 32 | | | |
| 15 | 8.95 | | | 33 | | | |
| 16 | 8 | | | 34 | | | |
| 17 | 7.15 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

..ution Fuel Calibration Spill# 84-0011 Date 5-30-92 Time 1200
..age tank level 128.45 gal Cumulative total 1116.45 Total gallons bailed 0.20
..mping rate (on) gpm Total gallons pumped _____ Pressure _____ psi
Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____
.. Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| 1 | 7.58 | 7.35 | .29 | | | | |
| 1 | 5.8 | | | 17 | 6.8 | | |
| | 6.38 | | | 18 | 6.63 | | |
| | 5.9 | | | 19 | | | |
| | 7.05 | | | 20 | | | |
| | 7.4 | | | 21 | | | |
| 6 | — | | | 22 | | | |
| | 7.62 | | | 23 | | | |
| 0 | 7.34 | | | 24 | | | |
| | 6.65 | | | 25 | | | |
| 0 | 6.57 | | | 26 | | | |
| 1 | 7.25 | | | 27 | | | |
| 2 | 6.82 | | | AFTER BAILING | | | |
| 3 | 7.47 | | | # | DTW | DTP | Product |
| 4 | 8.64 | | | P.W. | 7.44 | 7.96 | .08 |
| 5 | 8.6 | | | | | | |
| 6 | 7.65 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Grumman Calv.

cation FUEL CAL AREA Spill# 84-0011 Date 5-24-91 Time 1200

: age tank level 128.25 gal Cumulative total 1116.25 Total gallons bailed .25

mping rate ON gpm Total gallons pumped _____ Pressure _____ psi

· Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____

(1 Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

: Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 7.75 | 7.65 | 0.10 | 18 | 6.73 | | |
| | 6.71 | | | 19 | | | |
| | 6.60 | | | 20 | | | |
| | 5.59 | | | 21 | | | |
| | 7.20 | | | 22 | | | |
| | 7.50 | | | 23 | | | |
| | — | | | 24 | | | |
| | 7.67 | | | 25 | | | |
| | 7.40 | | | 26 | | | |
| | 6.85 | | | 27 | | | |
| | 6.77 | | | 28 | | | |
| | 7.40 | | | 29 | | | |
| | 7.10 | | | 30 | | | |
| | 7.70 | | | AFTER BAILING | | | |
| | 8.76 | | | # | DTW | DTP | Product |
| | 8.70 | | | RW. | 7.75 | 7.65 | .10. |
| | 7.75 | | | | | | |
| | 6.90 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610
Calverton, NY 11933
Tel: (516)369-4900

tion Fuel Calibration Spill# 84-0011 Date 5-17-96 Time 1100
rage tank level 1. 128 gal 2. ____ gal Total gallons bailed 0.25 gal
ing rate OFF gpm Total gallons pumped ——— Pressure ____ psi
ulative total 1116. gal

| ll# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 7.6 | 7.35 | .25 | 18 | 6.56 | | |
| | 6.28 | | | 19 | | | |
| | 6.43 | | | 20 | | | |
| | 5.42 | | | 21 | | | |
| | 7.01 | | | 22 | | | |
| | 7.32 | | | 23 | | | |
| | ——— | | | 24 | | | |
| | 7.5 | | | 25 | | | |
| | 7.22 | | | 26 | | | |
| | 6.7 | | | 27 | | | |
| 10 | 6.59 | | | 28 | | | |
| | 7.21 | | | AFTER BAILING | | | |
| | 6.92 | | | # | DTW | DTP | Product |
| | 7.52 | | | R.W. | 7.58 | 7.48 | .10 |
| 14 | 8.6 | | | | | | |
| | 8.55 | | | | | | |
| 16 | 7.59 | | | | | | |
| 7 | 6.72 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

: tion Grumman Calverton Fuel Calibration Spill# 84-0011 Date 5-10-91 Time 1000
orage tank level 1. 127.75 gal 2. _____ gal Total gallons bailed 0 gal
ping rate ON gpm Total gallons pumped 799876 Pressure _____ psi
ulative total 1115.75 gal

| ll# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.28 | 7.24 | .04 | 18 | 6.39 | | |
| | 5.49 | | | 19 | | | |
| 2 | 6.28 | | | 20 | | | |
| | 3.79 | | | 21 | | | |
| 4 | 6.84 | | | 22 | | | |
| | 7.16 | | | 23 | | | |
| 6 | - | | | 24 | | | |
| 7 | 7.32 | | | 25 | | | |
| 8 | 7.02 | | | 26 | | | |
| 9 | 4.48 | | | 27 | | | |
| 10 | 5.25 | | | 28 | | | |
| 11 | 7.05 | | | AFTER BAILING | | | |
| 12 | 6.78 | | | # | DTW | DTP | Product |
| 13 | 7.32 | | | | | | |
| 14 | 8.45 | | | | | | |
| 15 | 8.40 | | | | | | |
| 16 | 7.43 | | | | | | |
| 17 | 6.56 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ation Fuel Calibration Spill# 84-0011 Date 4-26-91 Time 1100

ge tank level 127.75 gal Cumulative total 115.756 Total gallons bailed 0.10

ping rate off gpm Total gallons pumped 799852 Pressure ____ psi

Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

l Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

| ell# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 6.60 | 6.50 | .10 | | | | |
| | 4.64 | | | 17 | 6.00 | | |
| | 5.58 | | | 18 | 5.78 | | |
| | 4.52 | | | 19 | | | |
| 4 | 6.24 | | | 20 | | | |
| | 6.58 | | | 21 | | | |
| 6 | — | | | 22 | | | |
| | 6.90 | | | 23 | | | |
| 0 | 6.69 | | | 24 | | | |
| | 6.87 | | | 25 | | | |
| 10 | 5.72 | | | 26 | | | |
| 1 | 6.43 | Trace | | 27 | | | |
| 12 | 6.05 | | | AFTER BAILING | | | |
| 13 | 6.64 | | | # | DTW | DTP | Product |
| 4 | 7.86 | | | R.W. | 6.50 | | |
| 15 | 7.77 | | | | | | |
| 16 | 6.82 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 610
Calverton, NY 11933
Tel: (516)369-4900

ction Fuel Calibration Spill # 84-0011 Date 5-17-96 Time 1100
rage tank level 1. 128 gal 2. _____ gal Total gallons bailed 0.25 gal
ing rate OFF gpm Total gallons pumped _____ Pressure _____ psi
ulative total 1116. gal

| Well | DTW | DTP | Product | Well | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 7.6 | 7.35 | .25 | 10 | 6.56 | | |
| | 6.28 | | | 19 | | | |
| | 6.43 | | | 20 | | | |
| | 5.42 | | | 21 | | | |
| | 7.01 | | | 22 | | | |
| | 7.32 | | | 23 | | | |
| | — | | | 24 | | | |
| | 7.5 | | | 25 | | | |
| | 7.22 | | | 26 | | | |
| | 6.7 | | | 27 | | | |
| 10 | 6.59 | | | 28 | | | |
| | 7.21 | | | AFTER BAILING | | | |
| | 6.92 | | | Well | DTW | DTP | Product |
| | 7.52 | | | P.W. | 7.58 | 7.48 | .10 |
| | 8.6 | | | | | | |
| | 8.55 | | | | | | |
| 16 | 7.59 | | | | | | |
| 7 | 6.72 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

cation Grumman Calv. Fuel Cal Spill# 84-0011 Date 4/19/91 Time 0945

orage tank level 127.65 gal Cumulative total 115.65G Total gallons bailed 0

mping rate OFF gpm Total gallons pumped _____ Pressure _____ psi

ir Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____

il Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

Pool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.37 | 7.33 | 0.04 | 18 | 6.50 | | |
| 1 | 5.04 | | | 19 | | | |
| 2 | 6.26 | | | 20 | | | |
| 3 | 3.49 | | | 21 | | | |
| 4 | 6.92 | | | 22 | | | |
| 5 | 7.25 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.58 | | | 25 | | | |
| 8 | 7.29 | | | 26 | | | |
| 9 | 6.42 | | | 27 | | | |
| 10 | 6.52 | | | 28 | | | |
| 11 | 7.04 | | | 29 | | | |
| 12 | 6.84 | | | 30 | | | |
| 13 | 7.33 | | | AFTER BAILING | | | |
| 14 | 8.60 | | | # | DTW | DTP | Product |
| 15 | 8.57 | | | | | | |
| 16 | 7.58 | | | | | | |
| 17 | 6.62 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

tion Grumman Calv Fuel Cnc Spill# 84-0011 Date 5-3-91 Time 1200

ge tank level 127.75 gal Cumulative total 115.75 Total gallons bailed 0

ing rate OFF gpm Total gallons pumped — Pressure ____ psi

stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

l Levels 1 _____ 2 _____

| l# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 7.20 | TRACE | | 18 | 6.27 | | |
| | 4.90 | | | 19 | | | |
| | 6.15 | | | 20 | | | |
| | 5.11 | | | 21 | | | |
| | 6.75 | | | 22 | | | |
| | 7.05 | | | 23 | | | |
| | — | | | 24 | | | |
| | 7.22 | | | 25 | | | |
| | 6.95 | | | 26 | | | |
| | 6.30 | | | 27 | | | |
| | 6.30 | | | 28 | | | |
| | 6.95 | | | 29 | | | |
| | 6.65 | | | 30 | | | |
| | 6.98 | | | AFTER BAILING | | | |
| | 8.35 | | | # | DTW | DTP | Product |
| | 8.30 | | | | | | |
| | 7.35 | | | | | | |
| | 6.45 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

. cation Grumman Calverton Fuel Calibration Spill# 84-0011 Date 4-5-91 Time 1100
orage tank level 1. 127.65 gal 2. _____ gal Total gallons bailed trace gal
mping rate 38 gpm Total gallons pumped 799792 Pressure _____ psi
mulative total 1115.65 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.13 | Trace | | 18 | 6.26 | | |
| 1 | 5.11 | | | 19 | | | |
| 2 | 5.99 | | | 20 | | | |
| 3 | 7.77 | | | 21 | | | |
| 4 | 6.70 | | | 22 | | | |
| 5 | 7.03 | | | 23 | | | |
| 6 | - | | | 24 | | | |
| 7 | 7.39 | | | 25 | | | |
| 8 | 7.11 | | | 26 | | | |
| 9 | 6.44 | | | 27 | | | |
| 10 | 6.30 | | | 28 | | | |
| 11 | 6.91 | 6.90 | .01 | AFTER BAILING | | | |
| 12 | 6.65 | | | # | DTW | DTP | Product |
| 13 | 7.29 | | | 11 | 6.90 | | |
| 14 | 8.42 | | | | | | |
| 15 | 8.33 | | | | | | |
| 16 | 7.35 | | | | | | |
| 17 | 6.39 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

cation Grumman Calv. Fuel Cal Spill# 84-0011 Date 4/19/91 Time 0945

orage tank level 127.65 gal Cumulative total 115.65G Total gallons bailed 0

mping rate OFF gpm Total gallons pumped _____ Pressure _____ psi

ir Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____

il Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

Pool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.37 | 7.33 | 0.04 | 18 | 6.50 | | |
| 1 | 5.04 | | | 19 | | | |
| 2 | 6.26 | | | 20 | | | |
| 3 | 3.49 | | | 21 | | | |
| 4 | 6.92 | | | 22 | | | |
| 5 | 7.25 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.58 | | | 25 | | | |
| 8 | 7.29 | | | 26 | | | |
| 9 | 6.42 | | | 27 | | | |
| 10 | 6.52 | | | 28 | | | |
| 11 | 7.04 | | | 29 | | | |
| 12 | 6.84 | | | 30 | | | |
| 13 | 7.33 | | | AFTER BAILING | | | |
| 14 | 8.60 | | | # | DTW | DTP | Product |
| 15 | 8.57 | | | | | | |
| 16 | 7.58 | | | | | | |
| 17 | 6.62 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ocation Grumman Calv Fuel Cal Spill# 84-0011 Date 3/15/91 Time 1030

orage tank level 127.64 gal Cumulative total 1115.64 Total gallons bailed 0

mping rate 52 gpm Total gallons pumped 790439 Pressure ____ psi

ir Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

il Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

ool Levels 1 ____ 2 ____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| | 7.09 | | | 18 | 6.20 | | |
| 1 | 3.95 | | | 19 | | | |
| 2 | 6.00 | | | 20 | | | |
| 3 | 2.86 | | | 21 | | | |
| 4 | 6.82 | | | 22 | | | |
| 5 | 6.99 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.30 | | | 25 | | | |
| 8 | 7.00 | | | 26 | | | |
| 9 | 4.60 | | | 27 | | | |
| 10 | 4.70 | | | 28 | | | |
| 11 | 6.82 | TRACE | | 29 | | | |
| 12 | 6.59 | | | 30 | | | |
| 13 | 6.65 | | | AFTER BAILING | | | |
| 14 | 8.31 | | | # | DTW | DTP | Product |
| 15 | 8.29 | | | | | | |
| 16 | 7.29 | | | | | | |
| 17 | 6.35 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

. cation Grumman Calverton Fuel Calibration Spill# 84-0011 Date 4-5-91 Time 1100
orage tank level 1. 127.65 gal 2. _____ gal Total gallons bailed trace gal
mping rate 38 gpm Total gallons pumped 799792 Pressure _____ psi
mulative total 1115.65 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.13 | Trace | | 18 | 6.26 | | |
| 1 | 5.11 | | | 19 | | | |
| 2 | 5.99 | | | 20 | | | |
| 3 | 7.77 | | | 21 | | | |
| 4 | 6.70 | | | 22 | | | |
| 5 | 7.03 | | | 23 | | | |
| 6 | - | | | 24 | | | |
| 7 | 7.39 | | | 25 | | | |
| 8 | 7.11 | | | 26 | | | |
| 9 | 6.44 | | | 27 | | | |
| 10 | 6.30 | | | 28 | | | |
| 11 | 6.91 | 6.90 | .01 | AFTER BAILING | | | |
| 12 | 6.65 | | | # | DTW | DTP | Product |
| 13 | 7.29 | | | 11 | 6.90 | | |
| 14 | 8.42 | | | | | | |
| 15 | 8.33 | | | | | | |
| 16 | 7.35 | | | | | | |
| 17 | 6.39 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location GRUMMAN, CALVERTON FUEL CALIBRATION AREA Spill# 84-0011 Date 2/21/91 Time 1200

Storage tank level 1. 127.64 gal 2. _____ gal Total gallons bailed 0 gal

Pumping rate ON gpm Total gallons pumped — Pressure _____ psi

Cumulative total 1115.64 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.68 | trace | | 18 | 6.38 | | |
| 1 | 4.90 | | | 19 | | | |
| 2 | 6.64 | | | 20 | | | |
| 3 | 5.65 | | | 21 | | | |
| 4 | 7.29 | | | 22 | | | |
| 5 | 7.60 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.81 | | | 25 | | | |
| 8 | 7.53 | | | 26 | | | |
| 9 | 6.68 | | | 27 | | | |
| 10 | 6.86 | | | 28 | | | |
| 11 | 7.50 | trace | | AFTER BAILING | | | |
| 12 | 7.20 | | | # | DTW | DTP | Product |
| 13 | 7.29 | | | | | | |
| 14 | 8.88 | | | | | | |
| 15 | 8.83 | | | | | | |
| 16 | 7.86 | | | | | | |
| 17 | 7.01 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Fuel Calibration Spill# 84-0011 Date 3-22-91 Time 1900

Storage tank level 1. 127.64 gal 2. _____ gal Total gallons bailed 0 gal

Pumping rate 63 gpm Total gallons pumped 796236 Pressure _____ psi

Cumulative total 1115.64 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| 1W | 6.94 | | | 18 | 6.04 | | |
| | 4.17 | | | 19 | | | |
| 3 | 5.85 | | | 20 | | | |
| 4 | 2.94 | | | 21 | | | |
| | 6.5 | Trace | | 22 | | | |
| 6 | 6.83 | | | 23 | | | |
| 7 | — | | | 24 | | | |
| 8 | 7.18 | | | 25 | | | |
| 9 | 6.9 | | | 26 | | | |
| 10 | 6.14 | | | 27 | | | |
| 11 | 6.06 | | | 28 | | | |
| 12 | 6.7 | Trace | | AFTER BAILING | | | |
| 13 | 6.45 | | | # | DTW | DTP | Product |
| 14 | 7.06 | | | | | | |
| 15 | 8.2 | | | | | | |
| 16 | 8.14 | | | | | | |
| 17 | 7.5 | | | | | | |
| | 6.2 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

R H Ch

LOCATION: Calverton Fuel Calibration SPILL# 84 0011 DATE 2,28,91 TIME 1430

STORAGE TANK LEVEL 1. 12½ P W FROZEN 2.

CUMULATIVE TOTAL GALLONS BAILED

T.G.P. 784929 OFF

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7'8½ | " 7.71 | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5'0¼ | " 5.02 | | 30 | | | |
| 2 | 6'9" | 6.75 | | 31 | | | |
| 3 | 3'6¾ | " 3.56 | | 32 | | | |
| 4 | 7'3" | 7.25 | | 33 | | | |
| 5 | 7'6¾ | " 7.56 | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7'10½ | " 7.88 | | 36 | | | |
| 8 | 7'7¼ | " 7.60 | | 37 | | | |
| 9 | 6'7½" | 6.62 | | 38 | | | |
| 10 | 6'10½ | " 6.88 | | 39 | | | |
| 11 | 7'5½ | " 7.46 | | 40 | | | |
| 12 | 7'2½ | " 7.21 | | 41 | | | |
| 13 | 7'9½ | " 7.79 | | 42 | | | |
| 14 | 8'11" | 8.92 | | 43 | | | |
| 15 | 8'10¼ | " 8.85 | | 44 | | | |
| 16 | 7'10½ | " 7.88 | | 45 | | | |
| 17 | 6'11½ | " 6.96 | | 46 | | | |
| 18 | 6'9¾ | " 6.81 | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610
Calverton, NY 11933
Tel: (516) 369-4900

Spill # 84-0011

TION: Grumman Calv. Fuel Cal Area DATE 3/8/91 TIME 0930

AGE TANK LEVEL 1. 127.64 GAL 2. 3. 4.

LATIVE TOTAL 1115.64 GAL.

ING RATE RW1 47 Gpm RW2 RW3 RW4

| ELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| W 1. | 6.91 | | | 24. | | | |
| V 2. | | | | 25. | | | |
| V 3. | | | | 26. | | | |
| ...V 4. | | | | 27. | | | |
| | 4.82 | | | 28. | | | |
| | 5.80 | | | 29. | | | |
| | 2.95 | | | 30. | | | |
| | 6.42 | | | 31. | | | |
| | 6.75 | | | 32. | | | |
| 8. | — | | | 33. | | | |
| | 5.22 | | | 34. | | | |
| 8. | 5.55 | | | 35. | | | |
| | 5.90 | | | 36. | | | |
| 10. | 6.00 | | | 37. | | | |
| | 6.70 | TRACE | | 38. | | | |
| 12. | 6.40 | | | 39. | | | |
| | 6.80 | | | 40. | | | |
| 4. | 8.12 | | | 41. | | | |
| | 8.05 | | | 42. | | | |
| 8. | 7.07 | | | 43. | | | |
| | 6.15 | | | 44. | | | |
| 8. | 6.00 | | | 45. | | | |
| | | | | 46. | | | |
| P. | | | | 47. | | | |
| | | | | 48. | | | |
| | | | | 49. | | | |
| | | | | 50. | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv Fuel Gal Area SPILL# 84-0011 DATE 2/8/91 TIME 1230

STORAGE TANK LEVEL 1 127.64 GAL. 2

CUMULATIVE TOTAL 1115.64 GAL. GALLONS BAILED 0

116 Gpm TGP. 776241

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.60 | 7.59 | 0.01 | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.39 | | | 30 | | | |
| 2 | 6.57 | | | 31 | | | |
| 3 | 5.55 | | | 32 | | | |
| 4 | 7.15 | | | 33 | | | |
| 5 | 7.45 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.66 | | | 36 | | | |
| 8 | 7.39 | | | 37 | | | |
| 9 | 6.45 | | | 38 | | | |
| | 6.72 | | | 39 | | | |
| 11 | 7.35 | TRACE | | 40 | | | |
| 12 | 7.05 | | | 41 | | | |
| 13 | 7.67 | | | 42 | | | |
| 14 | 8.72 | | | 43 | | | |
| 15 | 8.69 | | | 44 | | | |
| 16 | 7.72 | | | 45 | | | |
| 17 | 6.85 | | | 46 | | | |
| 18 | 6.70 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

cation Calverton Fuel Cul. Spill# 84-0011 Date 2-28-91 Time 1430

orage tank level 1. 127.64 gal 2. _____ gal Total gallons bailed 0 gal

mping rate ON gpm Total gallons pumped 784929 Pressure _____ psi

mulative total 1115.64 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.71 | | | 18 | 6.81 | | |
| 1 | 5.02 | | | 19 | | | |
| 2 | 6.75 | | | 20 | | | |
| 3 | 3.56 | | | 21 | | | |
| 4 | 7.25 | | | 22 | | | |
| 5 | 7.56 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.88 | | | 25 | | | |
| 8 | 7.60 | | | 26 | | | |
| 9 | 6.62 | | | 27 | | | |
| 10 | 6.88 | | | 28 | | | |
| 11 | 7.46 | | | AFTER BAILING | | | |
| 12 | 7.21 | | | # | DTW | DTP | Product |
| 13 | 7.79 | | | | | | |
| 14 | 8.92 | | | | | | |
| 15 | 8.85 | | | | | | |
| 16 | 7.88 | | | | | | |
| 17 | 6.96 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FUEL/CALIBRATION SPILL# 84.0011 DATE 1.24.91 TIME 1200

STORAGE TANK LEVEL 1. 127.62 GAL 2.

CUMULATIVE TOTAL 1115.62 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.13 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.62 | | | 30 | | | |
| 2 | 6.10 | | | 31 | | | |
| 3 | 5.10 | | | 32 | | | |
| 4 | 6.71 | | | 33 | | | |
| 5 | 7.00 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.25 | | | 36 | | | |
| 8 | 6.96 | | | 37 | | | |
| 9 | 6.33 | | | 38 | | | |
| 10 | 6.27 | | | 39 | | | |
| 11 | 6.92 | TRACE | | 40 | | | |
| 12 | 6.62 | | | 41 | | | |
| 13 | 7.25 | | | 42 | | | |
| 14 | 8.29 | | | 43 | | | |
| 15 | 8.25 | | | 44 | | | |
| 16 | 7.27 | | | 45 | | | |
| 17 | 6.42 | | | 46 | | | |
| 18 | 6.25 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Cal. SPILL# 84-0011 DATE 2/14/91 TIME 1200

STORAGE TANK LEVEL 1. 127.64 GAL. 2.

CUMULATIVE TOTAL 115.64 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.33 | | | 30 | | | |
| 2 | 6.58 | | | 31 | | | |
| 3 | 9.00 | | | 32 | | | |
| 4 | 7.15 | | | 33 | | | |
| 5 | 7.46 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.64 | | | 36 | | | |
| 8 | 7.37 | | | 37 | | | |
| 9 | 7.04 | | | 38 | | | |
| 10 | 5.40 | | | 39 | | | |
| 11 | 7.33 | | | 40 | | | |
| 12 | 7.08 | | | 41 | | | |
| 13 | 7.75 | | | 42 | | | |
| 14 | 8.77 | | | 43 | | | |
| 15 | 8.73 | | | 44 | | | |
| 16 | 7.73 | | | 45 | | | |
| 17 | 6.85 | | | 46 | | | |
| 18 | 6.71 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calv. Fuel Calibration SPILL# 89-0011 DATE 1991 TIME 1200

STORAGE TANK LEVEL 1 127.62 G. 2.

CUMULATIVE TOTAL 1115.62 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.73 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 5.83 | | | 30 | | | |
| 2 | 6.71 | | | 31 | | | |
| 3 | 5.71 | | | 32 | | | |
| 4 | 7.37 | | | 33 | | | |
| 5 | 7.58 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.75 | | | 36 | | | |
| 8 | 7.50 | | | 37 | | | |
| 9 | 5.37 | | | 38 | | | |
| 10 | 6.15 | | | 39 | | | |
| 11 | 7.50 | TRACE | | 40 | | | |
| 12 | 7.21 | | | 41 | | | |
| 13 | 7.83 | | | 42 | | | |
| 14 | 8.85 | | | 43 | | | |
| 15 | 8.79 | | | 44 | | | |
| 16 | 7.83 | | | 45 | | | |
| 17 | 7.00 | | | 46 | | | |
| 18 | 6.85 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calibration Fuel Calibration SPILL# 84-0011 DATE 1-31-91 TIME 1030

STORAGE TANK LEVEL 1 127.64 GAL 2.

CUMULATIVE TOTAL 1115.64 GAL. GALLONS BAILED 0.02 GAL

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.36 | 7.34 | .02 | 22 | | | |
| RW 2. | – | | | 23 | | | |
| RW 3. | – | | | 24 | | | |
| RW 4. | – | | | 25 | | | |
| PW 1 | – | | | 26 | | | |
| PW 2 | – | | | 27 | | | |
| IW | – | | | 28 | | | |
| | – | | | 29 | | | |
| 1. | 4.93 | | | 30 | | | |
| 2 | 6.36 | | | 31 | | | |
| 3 | 4.89 | | | 32 | | | |
| 4 | 6.93 | | | 33 | | | |
| 5 | 7.23 | | | 34 | | | |
| 6 | – | | | 35 | | | |
| 7 | 7.46 | | | 36 | | | |
| 8 | 7.19 | | | 37 | | | |
| 9 | 5.97 | | | | AFTER BAILING | | |
| 10 | 6.49 | | | | | | |
| 11 | 7.17 | 7.14 | .03 | | 7.19 | | |
| 12 | 6.86 | | | 41 | | | |
| 13 | 7.42 | | | 42 | | | |
| 14 | 8.53 | | | 43 | | | |
| 15 | 8.46 | | | 44 | | | |
| 16 | 7.51 | | | 45 | | | |
| 17 | 6.67 | | | 46 | | | |
| 18 | 6.49 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

TEL. 516 - 654-4900

# MARINE POLLUTION CONTROL, INC.

P.O. BOX 2220

EAST PATCHOGUE, N.Y. 11772

March 26, 1984

Grumman - Calverton
Plan 1" = 30'

## MWN-1

| | | |
|---|---|---|
| | 0'-1' | Light brown - med./fine sand |
| S-1 | 1'-2' | Dark brown - med./fine sand, slight odor |
| S-2 | 2'-3' | Gray brown - med./fine sand, strong odor/moist |
| S-3 | 3'-5' | Gray brown - fine sand, strong odor/moist |
| S-4 | 5'-6' | Light gray brown - fine sand, strong odor/moist |
| S-5 | 6'-10' | Dark gray brown - fine sand, strong odor/moist |
| S-6 | 10'-15' | Light gray - wet fine sand/silt, odor |

(DTW = 3')

DTW = 4.22' from T.O.C.

## MWN-2

| | | |
|---|---|---|
| S-1 | 0'-1' | Gray brown - med. sand, strong odor/dry |
| S-2 | 1'-6' | Dark gray brown - med./fine sand, heavy odor |
| S-3 | 6'-10' | Light gray brown - med./fine silty sand, odor |

(DTW = 3-4')

DTW = 3.86' from T.O.C.

## MWN-3

| | | |
|---|---|---|
| S-1 | 0'-4' | Dark gray brown - med. sand, odor @ 1' (moist @ 2') |
| S-2 | 4'-8' | Light gray - med./silty sand, odor - moister material |
| S-3 | 8'-10' | Light gray - med./silty sand, strong odor - very moist |

(DTW = 3')

DTW = 2.92' from T.O.C.

## MWN-4

| | | |
|---|---|---|
| S-1 | 0'-3' | Brown sand loam (5% gravel), slight odor @ 1', dry fill |
| S-2 | 3'-7' | Lighter brown - med. sand (5% gravel) - less odor, dry |
| S-3 | 7'-10' | Light white/brown - med. sand, no odor - moist |

DTW = 4.44' from T.O.C.

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fuel Cal Area SPILL# 84-0011 DATE 1/16/91 TIME 1100

STORAGE TANK LEVEL 1. 127.62 GAL. 2.

CUMULATIVE TOTAL 1115.62 GAL GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.13 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 3.90 | | | 30 | | | |
| 2 | 6.10 | | | 31 | | | |
| 3 | 5.05 | | | 32 | | | |
| 4 | 6.70 | | | 33 | | | |
| 5 | 7.00 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.24 | | | 36 | | | |
| 8 | 6.97 | | | 37 | | | |
| 9 | 6.20 | | | 38 | | | |
| 10 | 6.26 | | | 39 | | | |
| 11 | 6.93 | 6.92 | 0.01 | 40 | | | |
| 12 | 6.62 | | | 41 | | | |
| 13 | 6.90 | | | 42 | | | |
| 14 | 8.30 | | | 43 | | | |
| 15 | 8.25 | | | 44 | | | |
| 16 | 7.27 | | | 45 | | | |
| 17 | 6.45 | | | 46 | | | |
| 18 | 6.25 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

# SAMPLE/CORE LOG

Boring/Well 14,15 Project/No. Grumman - Calverton Page 1 of 2

Site Location Fuel Calibration Drilling Started 11/20/87 Drilling Completed ____

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Return from Auge

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger - Boom Truck

Drilling Contractor MPC Driller Tim Mayel Helper Kevin Jackson

Prepared By John Goff Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 5' | - | - | Fine sand, light brown |
| 5' | 9' | - | - | Fine, gray sand slight odor (petro) -> 5'-7' * |
| 9' | 13' | - | - | Fine to silty gray sand |
| 13' | 15 | - | - | gray turning to gray-brown silt |
| | | | | Total Pipe = 17' |
| | | | | stick up = 3' |
| | | | | Total Drilled 14' |
| | | | | |
| 0 | 5' | | | Fine, light brown sand |
| 5' | 9' | | | Fine gray sand, faint odor (petro) |
| 9' | 13' | | | Fine to silty gray sand |
| 13' | 15' | | | gray turning to brown silt |
| | | | | |
| | | | | Total Pipe 17' 6" |
| | | | | stick up 2' 6" |
| | | | | Total Drilled 15' |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Calibration Area SPILL# 84-0011 DATE 1-2-91 TIME 1100

STORAGE TANK LEVEL 1 127.62 G. 2.

CUMULATIVE TOTAL 1115.62 G. GALLONS BAILED 0.12

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.5 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.48 | | | 30 | | | |
| 2 | 6.49 | | | 31 | | | |
| 3 | 5.5 | | | 32 | | | |
| 4 | 7.07 | Trace | | 33 | | | |
| 5 | 7.38 | | | 34 | | | |
| 6 | ——— | | | 35 | | | |
| 7 | 7.58 | | | 36 | | | |
| 8 | 7.31 | | | 37 | | | |
| 9 | 6.68 | | | 38 | AFTER | BAILED | |
| 10 | 6.64 | | | 39 | | | |
| 11 | 7.42 | 7.26 | .16 | 11 | 7.28 | Trace | |
| 12 | 7. | | | 41 | | | |
| 13 | 7.41 | | | 42 | | | |
| 14 | 8.68 | | | 43 | | | |
| 15 | 8.6 | | | 44 | | | |
| 16 | 7.64 | | | 45 | | | |
| 17 | 6.81 | | | 46 | | | |
| 18 | 6.62 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MWN-5

| | | |
|---|---|---|
| S-1 | 0'-4' | Yellow brown - med./fine sand loam, no odor - dry |
| S-2 | 4'-6' | Lighter yellow/tan - med. sand, no odor |
| S-3 | 6'-10' | White/tan - med. sand, no silt/no odor - very moist |

DTW = 4.71' from T.O.C.

MWN-6

| | | |
|---|---|---|
| S-1 | 0'-3' | Brown - med. sandy loam with aggregates, dry - no odor |
| S-2 | 3'-6' | Lighter brown - med. sand, no aggregates, dry - no odor |
| S-3 | 6'-10' | White/tan - med. sand, no silts, moist - no odor |

DTW = 4.84' from T.O.C.

MWN-7

| | | |
|---|---|---|
| S-1 | 0'-4' | Brown - med. sand with aggregates, dry - no odor |
| S-2 | 4'-6' | Light brown sand - med./fine, dry - no odor |
| S-3 | 6'-10' | Yellow/brown - med. sand, some silt, moist - no odor |

DTW = 4.98' from T.O.C.

MWN-8

| | | |
|---|---|---|
| S-1 | 0'-3' | Light brown - med./fine sand, some silt, dry - no odor |
| S-2 | 3'-6' | Gray brown - med. sand, moist - no odor |
| S-3 | 6'-10' | Dark gray brown - med. sand, moister - slight odor (10-10 flush oil possibly) |

DTW = 4.87 from T.O.C.

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ocation Grumman Calv Fire Train Spill# 82-0923 Date 5-3-91 Time 1100

orage tank level 59.05 gal Cumulative total 220.09 Total gallons bailed .05

mping rate 28 gpm Total gallons pumped 698604 Pressure ____psi

Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

l Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

ool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.40 | | |
| 1 | 13.18 | 13.10 | 0.08 | 19 | | | |
| 2 | 12.11 | | | 20 | | | |
| 3 | 12.00 | | | 21 | | | |
| | 14.27 | | | 22 | | | |
| 5 | 13.10 | | | 23 | | | |
| 6 | 11.90 | | | 24 | | | |
| 7 | 12.70 | TRACE | | 25 | | | |
| 8 | 13.45 | TRACE | | 26 | | | |
| 9 | 16.65 | | | 27 | | | |
| 10 | 13.46 | | | 28 | | | |
| 11 | 18.85 | | | 29 | | | |
| 12 | 14.30 | | | 30 | | | |
| 13 | 14.90 | | | AFTER BAILING | | | |
| 14 | 14.95 | | | # | DTW | DTP | Product |
| 15 | 14.42 | | | 1 | 13.11 | TRACE | |
| 16 | 16.25 | | | | | | |
| 17 | 12.65 | | | | | | |

# SAMPLE/CORE LOG

Boring/Well 16, 17, 18 Project/No. Grumman - Calverton Page 2 of 2

Site Location Fuel Calibration Drilling Started 11/20/87 Drilling Completed —

Total Depth Drilled _____ feet Hole Diameter _____ inches Type of Sample/Coring Device Return from Auger

Length and Diameter of Coring Device _____ Sampling Interval _____ feet

Land-Surface Elev. _____ feet ☐ Surveyed ☐ Estimated Datum _____

Drilling Fluid Used _____ Drilling Method Auger - Boom Truck

Drilling Contractor _____ Driller J. Mayer Helper K. Jackson

Prepared By John Goff Hammer Weight _____ Hammer Drop _____ inches

| | Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|---|
| 16 | 0 | 5' | | | Fine brown sand |
| | 5' | 9' | | | Fine to silty light tan sand |
| | 9' | 11' | | | tan turning to gray silt faint unknown odor |
| | 11' | 13' | | | gray silt |
| | 13' | 15' | | | gray turning to brown silt |
| | | | | | Total Pipe 17' |
| | | | | | Stick up 2' |
| | | | | | Total Drilled 15' |
| | | | | | |
| 17 | 0' | 15' | | | Fine to silty sand, lt brown turning to light tan No Odor |
| | | | | | Total Pipe 16' |
| | | | | | stick up 1' |
| | | | | | Total Drilled 15' |
| | | | | | |
| 18 | 0' | 8' | | | Fine tan sand |
| | 8' | 9' | | | Gray fine sand No Odor Total Pipe 16' 6" |
| | 9' | 15' | | | light tan sand stick up 1' 6 |
| | | | | | Total Drilled 15' |

613

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calv. Fire Train Area Spill # 82-0923 Date 4/19/91 Time 0845

Storage tank level 58.88 gal Cumulative total 29.92 Total gallons bailed 10

Pumping rate 31 gpm Total gallons pumped 651650 Pressure ____ psi

Air Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

Soil Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

Pool Levels 1 ____ 2 ____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.71 | | |
| 1 | 13.55 | 13.43 | 0.12 | 19 | | | |
| 2 | 12.46 | | | 20 | | | |
| 3 | 12.33 | | | 21 | | | |
| 4 | 14.57 | | | 22 | | | |
| 5 | 13.42 | | | 23 | | | |
| 6 | 12.21 | | | 24 | | | |
| 7 | 13.07 | TRACE | | 25 | | | |
| 8 | 13.80 | | | 26 | | | |
| 9 | 16.95 | | | 27 | | | |
| 10 | 13.78 | | | 28 | | | |
| 11 | 19.19 | | | 29 | | | |
| 12 | 14.62 | | | 30 | | | |
| 13 | 15.23 | | | AFTER BAILING | | | |
| 14 | 15.29 | | | # | DTW | DTP | Product |
| 15 | 14.75 | | | 1 | 13.46 | 13.45 | 0.01 |
| 16 | 16.58 | | | | | | |
| 17 | 13.00 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

. cation Grumman Calverton Fuel Calibration Spill# 84-0011 Date 4-5-91 Time 1100
orage tank level 1. 127.65 gal 2. _____ gal Total gallons bailed trace gal
mping rate 38 gpm Total gallons pumped 799792 Pressure _____ psi
mulative total 1115.65 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.13 | Trace | | 18 | 6.26 | | |
| 1 | 5.11 | | | 19 | | | |
| 2 | 5.99 | | | 20 | | | |
| 3 | 7.77 | | | 21 | | | |
| 4 | 6.70 | | | 22 | | | |
| 5 | 7.03 | | | 23 | | | |
| 6 | - | | | 24 | | | |
| 7 | 7.39 | | | 25 | | | |
| 8 | 7.11 | | | 26 | | | |
| 9 | 6.44 | | | 27 | | | |
| 10 | 6.30 | | | 28 | | | |
| 11 | 6.91 | 6.90 | .01 | AFTER BAILING | | | |
| 12 | 6.65 | | | # | DTW | DTP | Product |
| 13 | 7.29 | | | 11 | 6.90 | | |
| 14 | 8.42 | | | | | | |
| 15 | 8.33 | | | | | | |
| 16 | 7.35 | | | | | | |
| 17 | 6.39 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calverton Fire Training Spill # 82-0923 Date 4-5-91 Time 0900

Storage tank level 1. 58.67 gal 2. _____ gal Total gallons bailed 0.50 gal

Pumping rate 37 gpm Total gallons pumped 599617 Pressure _____ psi

Cumulative total 219.72 gal

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 13.64 | 13.44 | .20 | 18 | 11.61 | | |
| 1 | 13.44 | 13.32 | .12 | 19 | | | |
| 2 | 12.33 | | | 20 | | | |
| 3 | 12.20 | | | 21 | | | |
| 4 | 14.42 | | | 22 | | | |
| 5 | 13.31 | | | 23 | | | |
| 6 | 12.11 | | | 24 | | | |
| 7 | 12.98 | 12.93 | .05 | 25 | | | |
| 8 | 13.68 | 13.67 | .01 | 26 | | | |
| 9 | 16.84 | | | 27 | | | |
| 10 | 13.67 | | | 28 | | | |
| 11 | 19.06 | | | AFTER BAILING | | | |
| 12 | 14.49 | | | # | DTW | DTP | Product |
| 13 | 15.11 | | | RW | 13.53 | | |
| 14 | 15.16 | | | 1 | 13.35 | | |
| 15 | 14.63 | | | 7 | 12.97 | | |
| 16 | 16.50 | | | 8 | 13.70 | | |
| 17 | 12.86 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ı-ation Fuel Calibration Spill# 84-0011 Date 3-22-91 Time 1900

: rage tank level 1. 127.64 gal 2. _____ gal Total gallons bailed 0 gal

ımping rate 63 gpm Total gallons pumped 796236 Pressure _____ psi

. ulative total 1115.64 gal

| ell# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| 1W | 6.94 | | | 18 | 6.04 | | |
| | 4.17 | | | 19 | | | |
| | 5.85 | | | 20 | | | |
| | 2.94 | | | 21 | | | |
| | 6.5 | Trace | | 22 | | | |
| 5 | 6.83 | | | 23 | | | |
| | — | | | 24 | | | |
| 7 | 7.18 | | | 25 | | | |
| 8 | 6.9 | | | 26 | | | |
| 9 | 6.14 | | | 27 | | | |
| 10 | 6.06 | | | 28 | | | |
| 11 | 6.7 | Trace | | AFTER BAILING | | | |
| 12 | 6.45 | | | # | DTW | DTP | Product |
| 13 | 7.06 | | | | | | |
| 14 | 8.2 | | | | | | |
| 15 | 8.14 | | | | | | |
| 16 | 7.5 | | | | | | |
| 17 | 6.2 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Liretraining Spill# 82-0923 Date 3-22-91 Time 0900
torage tank level 1. 58.05 gal 2. _____ gal Total gallons bailed 0.40 gal
Pumping rate 30 gpm Total gallons pumped 527036 Pressure — psi
umulative total 219.10 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.58 | | |
| 1 | 13.42 | 13.3 | .12 | 19 | | | |
| 2 | 12.33 | | | 20 | | | |
| 3 | 12.2 | | | 21 | | | |
| 4 | 14.43 | | | 22 | | | |
| 5 | 13.29 | | | 23 | | | |
| 6 | 12.08 | | | 24 | | | |
| 7 | 13.05 | 12.91 | .14 | 25 | | | |
| 8 | 13.67 | Trace | | 26 | | | |
| 9 | 16.83 | | | 27 | | | |
| 10 | 13.66 | Trace | | 28 | | | |
| 11 | 19.1 | | | AFTER BAILING | | | |
| 12 | 14.5 | | | # | DTW | DTP | Product |
| 13 | 15.13 | | | 1. | 13.42 | Trace | |
| 14 | 15.16 | | | 7. | 13.06 | Trace | |
| 15 | 14.63 | | | | | | |
| 16 | 16.45 | | | | | | |
| 17 | 12.85 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610
Calverton, NY 11933
Tel: (516) 369-4900

Spill # 84-0011

TION: Grumman Calv. Fuel Cal Area DATE 3/8/91 TIME 0930

AGE TANK LEVEL 1. 127.64 GAL 2. 3. 4.

LATIVE TOTAL 1115.64 GAL.

ING RATE RW1 47 Gpm RW2 RW3 RW4

| ELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| W 1. | 6.91 | | | 24. | | | |
| V 2. | | | | 25. | | | |
| V 3. | | | | 26. | | | |
| V 4. | | | | 27. | | | |
| | 4.82 | | | 28. | | | |
| | 5.80 | | | 29. | | | |
| | 2.95 | | | 30. | | | |
| | 6.42 | | | 31. | | | |
| | 6.75 | | | 32. | | | |
| | — | | | 33. | | | |
| | 5.22 | | | 34. | | | |
| | 5.55 | | | 35. | | | |
| | 5.90 | | | 36. | | | |
| 10. | 6.00 | | | 37. | | | |
| | 6.70 | TRACE | | 38. | | | |
| 12. | 6.40 | | | 39. | | | |
| | 6.80 | | | 40. | | | |
| | 8.12 | | | 41. | | | |
| | 8.05 | | | 42. | | | |
| | 7.07 | | | 43. | | | |
| | 6.15 | | | 44. | | | |
| | 6.00 | | | 45. | | | |
| | | | | 46. | | | |
| | | | | 47. | | | |
| | | | | 48. | | | |
| | | | | 49. | | | |
| | | | | 50. | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calv. Fire Train Area Spill# 82-0923 Date 3/8/91 Time 0843

Storage tank level 17.55 gal Cumulative total 218.60 Total gallons bailed .20

Pumping rate 33 gpm Total gallons pumped 466256 Pressure ____ psi

Air Stripper Blower ON/OFF ____ Temp ____ fpm ____ Battery ____

Soil Venting System ON/OFF ____ Temp ____ fpm ____ Battery ____

Pool Levels 1 ____ 2 ____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.60 | | |
| 1 | 13.50 | 13.32 | 0.18 | 19 | | | |
| 2 | 12.35 | TRACE | | 20 | | | |
| 3 | 12.30 | | | 21 | | | |
| 4 | 14.55 | | | 22 | | | |
| 5 | 13.35 | | | 23 | | | |
| 6 | 12.12 | | | 24 | | | |
| 7 | 13.05 | 12.95 | 0.10 | 25 | | | |
| 8 | 13.75 | | | 26 | | | |
| 9 | 16.85 | | | 27 | | | |
| 10 | 13.73 | | | 28 | | | |
| 11 | 19.19 | | | 29 | | | |
| 12 | 14.60 | | | 30 | | | |
| 13 | 15.22 | | | AFTER BAILING | | | |
| 14 | 15.25 | | | # | DTW | DTP | Product |
| 15 | 14.70 | | | 1 | 13.40 | 13.36 | 0.04 |
| 16 | 16.47 | | | 7 | 12.98 | 12.96 | 0.02 |
| 17 | 12.90 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

cation Calverton Fuel Cul. Spill# 84-0011 Date 2.28.91 Time 1430

orage tank level 1. 127.64 gal 2. _____ gal Total gallons bailed 0 gal

mping rate ON gpm Total gallons pumped 784929 Pressure _____ psi

mulative total 1115.64 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.71 | | | 18 | 6.81 | | |
| 1 | 5.02 | | | 19 | | | |
| 2 | 6.75 | | | 20 | | | |
| 3 | 3.56 | | | 21 | | | |
| 4 | 7.25 | | | 22 | | | |
| 5 | 7.56 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.88 | | | 25 | | | |
| 8 | 7.60 | | | 26 | | | |
| 9 | 6.62 | | | 27 | | | |
| 10 | 6.88 | | | 28 | | | |
| 11 | 7.46 | | | AFTER BAILING | | | |
| 12 | 7.21 | | | # | DTW | DTP | Product |
| 13 | 7.79 | | | | | | |
| 14 | 8.92 | | | | | | |
| 15 | 8.85 | | | | | | |
| 16 | 7.88 | | | | | | |
| 17 | 6.96 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calv. Fire Train Spill# 82-0923 Date 3/15/91 Time 0930

Storage tank level 17.65 gal Cumulative total 218.70 Total gallons bailed :10

Pumping rate 31 gpm Total gallons pumped 497188 Pressure ____psi

Air Stripper Blower ON/OFF ____ Temp _____ fpm _____ Battery _____

Oil Venting System ON/OFF ____ Temp _____ fpm _____ Battery _____

Pool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 11.66 | | |
| 1 | 13.51 | 13.40 | 0.11 | 19 | | | |
| 2 | 12.43 | | | 20 | | | |
| 3 | 12.30 | | | 21 | | | |
| 4 | 14.55 | | | 22 | | | |
| 5 | 13.40 | | | 23 | | | |
| 6 | 12.17 | | | 24 | | | |
| 7 | 13.05 | 12.97 | 0.08 | 25 | | | |
| 8 | 13.75 | | | 26 | | | |
| 9 | 16.90 | | | 27 | | | |
| 10 | 13.75 | | | 28 | | | |
| 11 | 19.19 | | | 29 | | | |
| 12 | 14.60 | | | 30 | | | |
| 13 | 15.20 | | | AFTER BAILING | | | |
| 14 | 15.27 | | | # | DTW | DTP | Product |
| 15 | 14.71 | | | 1 | 13.43 | 13.41 | 0.02 |
| 16 | 16.55 | | | 7 | 13.00 | TRACE | |
| 17 | 12.95 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Cal. SPILL# 84-0011 DATE 2/14/91 TIME 1200

STORAGE TANK LEVEL 1 127.64 GAL. 2.

CUMULATIVE TOTAL 115.64 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.33 | | | 30 | | | |
| 2 | 6.58 | | | 31 | | | |
| 3 | 9.00 | | | 32 | | | |
| 4 | 7.15 | | | 33 | | | |
| 5 | 7.46 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.64 | | | 36 | | | |
| 8 | 7.37 | | | 37 | | | |
| 9 | 7.04 | | | 38 | | | |
| 10 | 5.40 | | | 39 | | | |
| 11 | 7.33 | | | 40 | | | |
| 12 | 7.08 | | | 41 | | | |
| 13 | 7.75 | | | 42 | | | |
| 14 | 8.77 | | | 43 | | | |
| 15 | 8.73 | | | 44 | | | |
| 16 | 7.73 | | | 45 | | | |
| 17 | 6.85 | | | 46 | | | |
| 18 | 6.71 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Calverton Fire training Spill# 82-0923 Date 2.28.91 Time 1100

Storage tank level 1. 57.35 gal 2. _____ gal Total gallons bailed 0.25 gal

Pumping rate 32 gpm Total gallons pumped 431050 Pressure _____ psi

Cumulative total 218.40 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | | | |
| 1 | 13.83 | 13.71 | .13 | 19 | | | |
| 2 | 12.73 | | | 20 | | | |
| 3 | 12.60 | | | 21 | | | |
| 4 | 14.83 | | | 22 | | | |
| 5 | 13.71 | | | 23 | | | |
| 6 | 13.50 | | | 24 | | | |
| 7 | 17.35 | trace | | 25 | | | |
| 8 | 14.08 | | | 26 | | | |
| 9 | 17.29 | 17.21 | .08 | 27 | | | |
| 10 | 14.06 | | | 28 | | | |
| 11 | 19.48 | | | AFTER BAILING | | | |
| 12 | 14.92 | | | # | DTW | DTP | Product |
| 13 | 15.52 | | | 1 | 13.73 | | |
| 14 | 15.54 | | | 9 | 17.23 | | |
| 15 | 15.02 | | | | | | |
| 16 | 16.85 | | | | | | |
| 17 | 13.25 | | | | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calibration Fuel Calibration SPILL# 84-0011 DATE 1-31-91 TIME 1030

STORAGE TANK LEVEL 1 127.64 GAL 2.

CUMULATIVE TOTAL 1115.64 GAL. GALLONS BAILED 0.02 GAL

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.36 | 7.34 | .02 | 22 | | | |
| RW 2. | – | | | 23 | | | |
| RW 3. | – | | | 24 | | | |
| RW 4. | – | | | 25 | | | |
| PW 1 | – | | | 26 | | | |
| PW 2 | – | | | 27 | | | |
| IW | – | | | 28 | | | |
| | – | | | 29 | | | |
| 1. | 4.93 | | | 30 | | | |
| 2 | 6.36 | | | 31 | | | |
| 3 | 4.89 | | | 32 | | | |
| 4 | 6.93 | | | 33 | | | |
| 5 | 7.23 | | | 34 | | | |
| 6 | – | | | 35 | | | |
| 7 | 7.46 | | | 36 | | | |
| 8 | 7.19 | | | 37 | | | |
| 9 | 5.97 | | | | AFTER BAILING | | |
| 10 | 6.49 | | | | | | |
| 11 | 7.17 | 7.14 | .03 | | 7.19 | | |
| 12 | 6.86 | | | 41 | | | |
| 13 | 7.42 | | | 42 | | | |
| 14 | 8.53 | | | 43 | | | |
| 15 | 8.46 | | | 44 | | | |
| 16 | 7.51 | | | 45 | | | |
| 17 | 6.67 | | | 46 | | | |
| 18 | 6.49 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Gleason Calverton Fire training SPILL# 82-0923 DATE 1-31-91 TIME 0900

STORAGE TANK LEVEL 1. 56.85 GAL. 2.

CUMULATIVE TOTAL 217.90 GAL. GALLONS BAILED 0.25 GAL

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 13.65 | 13.52 | .13 | 22 | 13.60 | | |
| RW 2. | - | | | 23 | | | |
| RW 3. | - | | | 24 | | | |
| RW 4. | - | | | 25 | | | |
| PW 1 | 10.52 | | | 26 | | | |
| PW 2 | - | | | | | | |
| IW | - | | | | | | |
| | - | | | | AFTER | BAILED | |
| 1. | 13.46 | 13.38 | .08 | 1 | 13.44 | | |
| 2 | 13.40 | | | 31 | | | |
| 3 | 12.28 | | | 32 | | | |
| 4 | 14.54 | | | 33 | | | |
| 5 | 13.39 | | | 34 | | | |
| 6 | 12.15 | | | 35 | | | |
| 7 | 13.07 | 13.01 | .06 | 7 | 13.10 | | |
| 8 | 13.74 | 13.73 | .01 | 8 | 13.76 | | |
| 9 | 16.89 | | | 9 | | | |
| 10 | 13.74 | 13.73 | .01 | 10 | 13.76 | | |
| 11 | 19.23 | | | 40 | | | |
| 12 | 14.59 | | | 41 | | | |
| 13 | 15.24 | | | 42 | | | |
| 14 | 15.26 | | | 43 | | | |
| 15 | 14.71 | | | 44 | | | |
| 16 | 16.53 | | | 45 | | | |
| 17 | 12.91 | | | 46 | | | |
| 18 | 11.65 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fuel Cal Area SPILL# 84-0011 DATE 1/16/91 TIME 1100

STORAGE TANK LEVEL 1. 127.62 GAL. 2.

CUMULATIVE TOTAL 1115.62 GAL GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.13 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 3.90 | | | 30 | | | |
| 2 | 6.10 | | | 31 | | | |
| 3 | 5.05 | | | 32 | | | |
| 4 | 6.70 | | | 33 | | | |
| 5 | 7.00 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.24 | | | 36 | | | |
| 8 | 6.97 | | | 37 | | | |
| 9 | 6.20 | | | 38 | | | |
| 10 | 6.26 | | | 39 | | | |
| 11 | 6.93 | 6.92 | 0.01 | 40 | | | |
| 12 | 6.62 | | | 41 | | | |
| 13 | 6.90 | | | 42 | | | |
| 14 | 8.30 | | | 43 | | | |
| 15 | 8.25 | | | 44 | | | |
| 16 | 7.27 | | | 45 | | | |
| 17 | 6.45 | | | 46 | | | |
| 18 | 6.25 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv Fire Train SPILL# 82-0923 DATE 1/16/91 TIME 09.

STORAGE TANK LEVEL 1 56.35 GAL 2.

CUMULATIVE TOTAL 217.40 GAL GALLONS BAILED .20

SYSTEM IS OFF

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 13.65 | TRACE | | 30 | | | |
| 2 | 12.65 | TRACE | | 31 | | | |
| 3 | 12.61 | | | 32 | | | |
| 4 | 14.90 | | | 33 | | | |
| 5 | 13.70 | | | | AFTER | BAILED | |
| 6 | 12.45 | | | | | | |
| 7 | 13.50 | 13.27 | 0.23 | 7 | 13.34 | 13.31 | 0.03 |
| 8 | 14.05 | TRACE | | 37 | | | |
| 9 | 17.15 | | | 38 | | | |
| 10 | 14.05 | | | 39 | | | |
| 11 | 19.65 | | | 40 | | | |
| 12 | 14.95 | | | 41 | | | |
| 13 | 15.62 | | | 42 | | | |
| 14 | 15.60 | | | 43 | | | |
| 15 | 15.05 | | | 44 | | | |
| 16 | 16.78 | | | 45 | | | |
| 17 | 13.20 | | | 46 | | | |
| 18 | 11.90 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Calibration Area SPILL# 84-0011 DATE 1-2-91 TIME 1100

STORAGE TANK LEVEL 1 127.62 G. 2.

CUMULATIVE TOTAL 1115.62 G. GALLONS BAILED 0.12

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | 7.5 | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | 29 | | | |
| 1 | 4.48 | | | 30 | | | |
| 2 | 6.49 | | | 31 | | | |
| 3 | 5.5 | | | 32 | | | |
| 4 | 7.07 | Trace | | 33 | | | |
| 5 | 7.38 | | | 34 | | | |
| 6 | — | | | 35 | | | |
| 7 | 7.58 | | | 36 | | | |
| 8 | 7.31 | | | 37 | | | |
| 9 | 6.68 | | | 38 | AFTER | BAILED | |
| 10 | 6.64 | | | 39 | | | |
| 11 | 7.42 | 7.26 | .16 | 11 | 7.28 | Trace | |
| 12 | 7. | | | 41 | | | |
| 13 | 7.41 | | | 42 | | | |
| 14 | 8.68 | | | 43 | | | |
| 15 | 8.6 | | | 44 | | | |
| 16 | 7.64 | | | 45 | | | |
| 17 | 6.81 | | | 46 | | | |
| 18 | 6.62 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CABU. FIRE TRAINING SPILL# 82-0923 DATE 1991 TIME 090c

STORAGE TANK LEVEL 1 56:15 GAL. 2

CUMULATIVE TOTAL 217.20 GAL. GALLONS BAILED 0.25 G.

system is OFF

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | | | |
| RW 2. | | | | 23 | | | |
| RW 3. | | | | 24 | | | |
| RW 4. | | | | 25 | | | |
| PW 1 | | | | 26 | | | |
| PW 2 | | | | 27 | | | |
| IW | | | | 28 | | | |
| | | | | | AFTER | BAIL | |
| 1 | 14.00 | 13.92 | .08 | 1 | 13.96 | | |
| 2 | 13.02 | 12.98 | .04 | 2 | 13.00 | | |
| 3 | 12.88 | | | 32 | | | |
| 4 | 15.17 | | | 33 | | | |
| 5 | 14.00 | | | 34 | | | |
| 6 | 12.75 | | | 35 | | | |
| 7 | 13.77 | 13.56 | .21 | 7 | 13.64 | | |
| 8 | 14.33 | | | 37 | | | |
| 9 | 17.46 | | | 38 | | | |
| 10 | 14.29 | | | 39 | | | |
| 11 | 19.88 | | | 40 | | | |
| 12 | 15.25 | | | 41 | | | |
| 13 | 15.90 | | | 42 | | | |
| 14 | 15.83 | | | 43 | | | |
| 15 | 15.29 | | | 44 | | | |
| 16 | 17.08 | | | 45 | | | |
| 17 | 13.98 | | | 46 | | | |
| 18 | 12.21 | | | 47 | | | |
| 19 | | | | 48 | | | |
| 20 | | | | 49 | | | |
| 21 | | | | 50 | | | |

MWN-5

| | | |
|---|---|---|
| S-1 | 0'-4' | Yellow brown - med./fine sand loam, no odor - dry |
| S-2 | 4'-6' | Lighter yellow/tan - med. sand, no odor |
| S-3 | 6'-10' | White/tan - med. sand, no silt/no odor - very moist |

DTW = 4.71' from T.O.C.

MWN-6

| | | |
|---|---|---|
| S-1 | 0'-3' | Brown - med. sandy loam with aggregates, dry - no odor |
| S-2 | 3'-6' | Lighter brown - med. sand, no aggregates, dry - no odor |
| S-3 | 6'-10' | White/tan - med. sand, no silts, moist - no odor |

DTW = 4.84' from T.O.C.

MWN-7

| | | |
|---|---|---|
| S-1 | 0'-4' | Brown - med. sand with aggregates, dry - no odor |
| S-2 | 4'-6' | Light brown sand - med./fine, dry - no odor |
| S-3 | 6'-10' | Yellow/brown - med. sand, some silt, moist - no odor |

DTW = 4.98' from T.O.C.

MWN-8

| | | |
|---|---|---|
| S-1 | 0'-3' | Light brown - med./fine sand, some silt, dry - no odor |
| S-2 | 3'-6' | Gray brown - med. sand, moist - no odor |
| S-3 | 6'-10' | Dark gray brown - med. sand, moister - slight odor (10-10 flush oil possibly) |

DTW = 4.87 from T.O.C.

MPC
ENVIRONMENTAL SERVICES
A Division of Marine Pollution Control

Grumman - Calverton

Fuel Depot

Spill #82 - 1680

Prepared by:

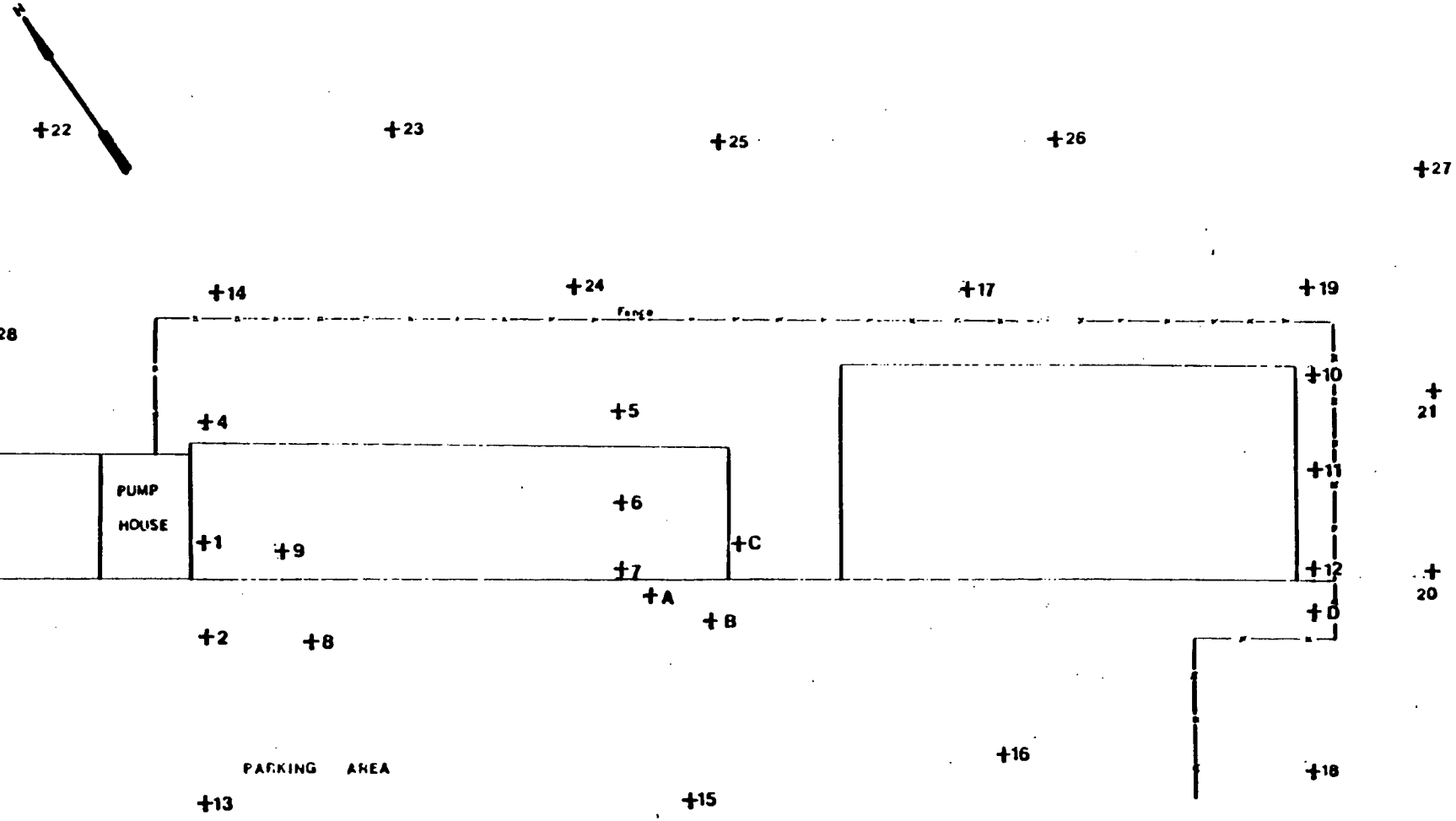
MPC Environmental Services
October 11, 1991

P.O. Box 610
460 Edwards Avenue, Calverton, NY 11933
516-369-4900 FAX 516-369-4909



An Equal Opportunity Employer

| Wells | Top of pipe elevation |
|---|---|
| 1 | 102.55 |
| 2 | 101.31 |
| 3 | 101.22 |
| 4 | 103.54 |
| 5 | 103.07 |
| 6 | 102.22 |
| 7 | 102.16 |
| 8 | 101.55 |
| 9 | 103.15 |
| 10 | 103.81 |
| 11 | 103.07 |
| 12 | 104.37 |
| A | 101.37 |
| B | 101.45 |
| C | 102.48 |
| D | 103.05 |
| 13 | 100.77 |
| 14 | 101.67 |
| 15 | 100.88 |
| 16 | 101.19 |
| 17 | 101.04 |
| 18 | 101.24 |
| 19 | 99.86 |
| 20 | 100.96 |
| 21 | 99.44 |
| 22 | 100.37 |
| 23 | 101.08 |
| 24 | 100.26 |
| 25 | 100.74 |
| 26 | 100.50 |
| 27 | 97.57 |
| 28 | 100.84 |




Scale Ft.

0' 30' 60'

MARINE POLLUTION CONTROL, INC.
375 Dunton Avenue E. Patchogue, New York

SCALE: 1" = 30'
DATE: 3/22/1989
APPROVED BY:
REVISED: 6/26/1989

# CALVERTON FUEL DEPOT

WELL LOCATIONS

spill: 82_1680

FIGURE

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910476/1 02/14/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton, Fuel Depot
COLLECTED BY: MPC DATE COL'D:02/07/91 RECEIVED:02/08/91

SAMPLE: Water Sample, MW#30, 1400

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | <1 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | <1 | |
| Petrol. Hydrocarbons | mg/L | 0.4 | |

cc:Ohlmann, Selva & G. Vassilev-MPC

REMARKS:

DIRECTOR Thomas Bowell

634

rn= 1946 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C910476/2 02/14/91

Grumman Aerospace Corporation
Mail Station A03-116
Bethpage, NY 11714
ATTN: Harvey Keahey PO# 30-28955

SOURCE OF SAMPLE: Grumman, Calverton, Fuel Depot
COLLECTED BY: MPC DATE COL'D:02/07/91 RECEIVED:02/08/91

SAMPLE: Water Sample, MW#29, 1429

| ANALYTICAL PARAMETERS | | | ANALYTICAL PARAMETERS |
|---|---|---|---|
| Benzene | ug/L | <1 | |
| Toluene | ug/L | 20 | |
| Ethyl Benzene | ug/L | <1 | |
| m + p Xylene | ug/L | <2 | |
| o Xylene | ug/L | 9 | |
| Petrol. Hydrocarbons | mg/L | 1.6 | |

cc:Ohlmann, Selva & G. Vassilev-MPC

REMARKS:

DIRECTOR Thomas R. Stout

635

rn= 1947 NYSDOH ID# 10320

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 10/3/91 Time 1100

Location: GRUMMAN. CALV. FUEL DEPOT AREA Spill # 89-1680

Storage tank level _____ gallons Recovered to date 110.55 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 15.41 | | |
| 1 | 16.77 | TRACE | | 22 | 14.66 | | |
| 2 | 15.55 | | | 23 | 15.45 | | |
| 3 | 15.40 | | | 24 | 14.61 | | |
| 4 | 17.80 | | | 25 | 15.15 | | |
| 5 | 17.40 | | | 26 | 15.00 | | |
| 6 | 16.58 | | | 27 | 12.17 | | |
| 7 | 16.57 | | | 28 | 15.05 | | |
| 8 | DRY | | | 29 | 14.75 | | |
| 9 | 17.40 | | | 30 | 14.92 | | |
| 10 | 18.37 | | | 31 A | 15.71 | | |
| 11 | 17.60 | | | 32 B | 15.80 | | |
| 12 | 18.90 | | | 33 C | 16.84 | S. TRACE | |
| 13 | 15.00 | | | 34 D | 17.63 | | |
| 14 | 15.95 | | | 35 | | | |
| 15 | 15.22 | | | 36 | | | |
| 16 | 15.60 | | | 37 | | | |
| 17 | 15.47 | | | 38 | | | |
| 18 | 15.65 | | | 39 | | | |
| 19 | 14.40 | | | 40 | | | |
| 20 | 14.02 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-27-91 Time 1100

Location: Fuel Depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date _____ gal

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 13.92 | | |
| 1 | 16.6 | Trace | | 22 | 14.5 | | |
| 2 | 15.34 | | | 23 | 15.24 | | |
| 3 | 15.22 | | | 24 | 14.46 | | |
| 4 | 17.61 | | | 25 | 14.98 | | |
| 5 | 17.26 | | | 26 | 14.89 | | |
| 6 | 16.45 | | | 27 | 12.06 | | |
| 7 | 16.45 | | | 28 | 14.88 | | |
| 8 | DRY | | | 29 | 14.55 | | |
| 9 | 17.27 | | | 30 | 14.72 | | |
| 10 | 18.26 | | | A | 15.57 | | |
| 11 | 17.51 | | | B | 15.68 | | |
| 12 | 18.81 | | | C | 16.7 | | |
| 13 | 14.81 | | | D | 17.5 | | |
| 14 | 15.76 | | | 35 | | | |
| 15 | 15.1 | | | 36 | | | |
| 16 | 15.5 | | | 37 | | | |
| 17 | 15.33 | | | 38 | | | |
| 18 | 15.56 | | | 39 | | | |
| 19 | 14.3 | | | 40 | | | |
| 20 | 15.34 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9/20/91 Time 1130

Location: GRUMMAN CALV. FUEL DEPOT AREA Spill # 82-1650

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 15.60 | | |
| 1 | 16.70 | TRACE | | 19 | 14.35 | | |
| 2 | 15.47 | | | 20 | 13.97 | | |
| 3 | 15.35 | | | 21 | 15.35 | | |
| 4 | 17.75 | | | 22 | 14.59 | | |
| 5 | 17.35 | | | 23 | 15.35 | | |
| 6 | 16.52 | | | 24 | 14.55 | | |
| 7 | 16.51 | | | 25 | 15.02 | | |
| 8 | DRY | | | 26 | 14.95 | | |
| 9 | 17.35 | | | 27 | 12.10 | | |
| 10 | 18.30 | | | 28 | 15.00 | | |
| 11 | 17.55 | | | 29 | 14.71 | | |
| 12 | 18.85 | | | 30 | 14.85 | | |
| 13 | FLOODED | | | A | 15.65 | | |
| 14 | 15.88 | | | B | 15.75 | | |
| 15 | 15.17 | | | C | 16.76 | TRACE | |
| 16 | 15.55 | | | D | 17.55 | | |
| 17 | 15.45 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-13-91 Time 1030

Location: Fuel Depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 19.8 | | |
| 1 | 16.56 | | | 22 | 14.43 | | |
| 2 | 15.39 | | | 23 | 15.18 | | |
| 3 | 15.2 | | | 24 | 14.42 | | |
| 4 | 17.6 | | | 25 | 14.94 | | |
| 5 | 17.2 | | | 26 | 14.79 | | |
| 6 | 16.36 | | | 27 | 11.94 | | |
| 7 | 16.36 | | | 28 | 14.84 | | |
| 8 | DRY | | | 29 | 14.57 | | |
| 9 | 17.2 | | | 30 | 14.71 | | |
| 10 | 18.15 | | | A. | 15.51 | | |
| 11 | 17.4 | | | B. | 15.61 | | |
| 12 | 18.71 | | | C. | 16.64 | | |
| 13 | 14.77 | | | D. | 17.38 | | |
| 14 | 15.71 | | | 35 | | | |
| 15 | 15.01 | | | 36 | | | |
| 16 | 15.4 | | | 37 | | | |
| 17 | 15.27 | | | 38 | | | |
| 18 | 15.43 | | | 39 | | | |
| 19 | 14.18 | | | 40 | | | |
| 20 | 15.2 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 9-6-91 Time 1145

Location: GRUMMAN CALV. FUEL DEPOT AREA Spill # _____

Storage tank level _____ gallons Recovered to date _____ gal

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 15.07 | | |
| 1 | 16.40 | TRACE | | 22 | 14.29 | | |
| 2 | 15.20 | | | 23 | 15.05 | | |
| 3 | 15.05 | | | 24 | 14.25 | | |
| 4 | 17.45 | | | 25 | 14.80 | | |
| 5 | 17.05 | | | 26 | 14.65 | | |
| 6 | 16.21 | | | 27 | 11.83 | | |
| 7 | 16.20 | | | 28 | 14.68 | | |
| 8 | DRY | | | 29 | 14.40 | | |
| 9 | 17.05 | | | 30 | 15.05 | | |
| 10 | 18.01 | | | A | 15.35 | | |
| 11 | 17.25 | | | B | 15.45 | | |
| 12 | 18.60 | TRACE | | C | 16.50 | | |
| 13 | 14.62 | | | D | 17.25 | | |
| 14 | 15.57 | | | 35 | | | |
| 15 | 14.85 | | | 36 | | | |
| 16 | 15.27 | | | 37 | | | |
| 17 | 15.13 | | | 38 | | | |
| 18 | 15.31 | | | 39 | | | |
| 19 | 14.05 | | | 40 | | | |
| 20 | 13.07 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-30-91 Time 0930

Location: Fuel Depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date _____ gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 13.50 | | |
| 1 | 16.28 | | | 22 | 14.19 | | |
| 2 | 15.02 | | | 23 | 14.92 | | |
| 3 | 14.92 | | | 24 | 14.13 | | |
| 4 | 17.30 | | | 25 | 14.65 | | |
| 5 | 16.92 | | | 26 | 14.50 | | |
| 6 | 16.08 | | | 27 | 11.67 | | |
| 7 | 16.08 | | | 28 | 14.57 | | |
| 8 | DRY | | | 29 | 14.30 | | |
| 9 | 16.92 | | | 30 | 14.43 | | |
| 10 | 17.84 | | | A. | 15.21 | | |
| 11 | 17.08 | | | B. | 15.29 | | |
| 12 | 18.39 | | | C. | 16.33 | | |
| 13 | Flooded | | | D. | 17.06 | | |
| 14 | 15.44 | | | 35 | | | |
| 15 | 14.71 | | | 36 | | | |
| 16 | 15.09 | | | 37 | | | |
| 17 | 14.97 | | | 38 | | | |
| 18 | 15.14 | | | 39 | | | |
| 19 | 14.89 | | | 40 | | | |
| 20 | 14.90 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-22-91 Time 1000

Location: GRUMMAN CALO. FUEL CAL. AREA Spill # 84-0011

Storage tank level 180.67 gallons Recovered to date 1168.67 gal.

Pump rate : OL gpm Tot.gal. pumped _____ Tot.gal.bailed 1.5 GAL

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 7.10 | 7.00 | 0.10 | 18 | 6.20 | | |
| 1 | 4.58 | | | 19 | | | |
| 2 | 4.99 | | | 20 | | | |
| 3 | 4.95 | | | 21 | | | |
| 4 | 6.70 | | | 22 | | | |
| 5 | 7.07 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 7.20 | | | 25 | | | |
| 8 | 6.90 | | | 26 | | | |
| 9 | 5.60 | | | | AFTER BAILED | | |
| 10 | 6.15 | | | | | | |
| 11 | 7.25 | 6.80 | 0.45 | 11 | 7.02 | 7.00 | 0.02 |
| 12 | 6.55 | | | | | | |
| 13 | 7.95 | 7.05 | 0.90 | 13 | 7.38 | TRACE | |
| 14 | 8.30 | | | 32 | | | |
| 15 | 8.22 | | | 33 | | | |
| 16 | 7.30 | | | 34 | | | |
| 17 | 6.40 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

cation Fuel calibration Spill# 84-0011 Date 8-16-91 Time 1300
torage tank level 1. 179.17 gal 2. _____ gal Total gallons bailed 2 gal
mping rate on gpm Total gallons pumped _____ Pressure _____ psi
mulative total 1167.17 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| [illegible] | 8.52 | 8.3 | .22 | 18 | 7.58 | | |
| | 6.7 | | | 19 | | | |
| 2 | 6.99 | | | 20 | | | |
| 3 | 6.36 | | | 21 | | | |
| 4 | 8.01 | | | 22 | | | |
| 5 | 8.33 | | | 23 | | | |
| 6 | ——— | | | 24 | | | |
| 7 | 8.44 | | | 25 | | | |
| 8 | 8.15 | | | 26 | | | |
| 9 | 7.52 | | | 27 | | | |
| 10 | 7.56 | | | 28 | | | |
| 11 | 8.38 | 8.16 | .22 | AFTER BAILING | | | |
| 12 | 7.87 | | | # | DTW | DTP | Product |
| 13 | 9.4 | 8.23 | 1.17 | 11. | 8.2 | | |
| 14 | 9.55 | | | 13. | 9.42 | 9.39 | .03 |
| 15 | 9.5 | | | R.W. | 8.45 | 8.35 | .10 |
| 16 | 8.56 | | | | | | |
| 17 | 7.76 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 8-9-91 Time 1030

Location: GRUMMAN CONV. FUEL CAL AREA Spill # 84-0011

Storage tank level 177.17 gallons Recovered to date 1165.17 gal.

Pump rate : ON gpm Tot.gal. pumped _____ Tot.gal.bailed .80 GAL

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.88 | 8.80 | 0.08 | 18 | 7.79 | | |
| 1 | 7.60 | | | 19 | | | |
| 2 | 7.60 | | | 20 | | | |
| 3 | 6.56 | | | 21 | | | |
| 4 | 8.22 | | | 22 | | | |
| 5 | 8.55 | | | 23 | | | |
| 6 | — | | | 24 | | | |
| 7 | 8.65 | | | 25 | | | |
| 8 | 8.39 | | | 26 | | | |
| 9 | 7.90 | | | 27 | | | |
| 10 | 7.80 | | | 28 | | | |
| 11 | 8.37 | TRACE | | 29 | AFTER BAILED | | |
| 12 | 8.09 | | | 30 | | | |
| 13 | 9.40 | 8.40 | 1.00 | 31 | 8.76 | 8.72 | 0.04 |
| 14 | 9.76 | | | 32 | | | |
| 15 | 9.71 | | | 33 | | | |
| 16 | 8.75 | | | 34 | | | |
| 17 | 8.00 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-31-91 Time 1030

Location: Grumman Calv. Fuel Car Area Spill # 84-0011

Storage tank level 176.37 gallons Recovered to date 1164.37 gal.

Pump rate : ON gpm Tot.gal. pumped _____ Tot.gal.bailed 1.25

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.51 | 8.42 | 0.09 | 18 | 7.67 | | |
| 1 | 7.31 | | | | | | |
| 2 | 7.46 | | | | | | |
| 3 | 6.44 | | | | | | |
| 4 | 8.08 | | | | | | |
| 5 | 8.42 | | | | | | |
| 6 | — | | | | AFTER BAILED | | |
| 7 | 8.50 | | | | | | |
| 8 | 8.25 | | | | | | |
| 9 | 7.75 | | | | | | |
| 10 | 7.65 | | | | | | |
| 11 | 8.50 | 8.26 | 0.24 | 11 | 8.37 | 8.33 | 0.04 |
| 12 | 7.94 | | | | | | |
| 13 | 9.42 | 8.31 | 1.11 | 13 | 8.83 | 8.79 | 0.04 |
| 14 | 9.62 | | | | | | |
| 15 | 9.58 | | | | | | |
| 16 | 8.62 | | | | | | |
| 17 | 7.83 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-26-91 Time 10:30

Location: Grumman - Fuel Calibration Spill # 84-0011

Storage tank level 175.12 gallons Recovered to date 1163.12 gal.

Pump rate : 0.01 gpm Tot.gal. pumped 799876 Tot.gal.bailed 0.12

| Well # | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | 8.35 | 8.32 | .03 | | after | bailing | |
| 1 | 6.83 | | | 11 | 8.15 | Trace | |
| 2 | 7.34 | | | 23 | | | |
| 3 | 6.93 | | | 24 | | | |
| 4 | 7.99 | | | 25 | | | |
| 5 | 8.31 | | | 26 | | | |
| 6 | ——— | | | 27 | | | |
| 7 | 8.4 | | | 28 | | | |
| 8 | 8.13 | | | 29 | | | |
| 9 | 7.64 | | | 30 | | | |
| 10 | 7.54 | | | 31 | | | |
| 11 | 8.28 | 8.15 | .19 | 32 | | | |
| 12 | 7.85 | | | 33 | | | |
| 13 | 8.63 | | | 34 | | | |
| 14 | 9.54 | | | 35 | | | |
| 15 | 9.48 | | | 36 | | | |
| 16 | 8.53 | | | 37 | | | |
| 17 | 7.72 | | | 38 | | | |
| 18 | 7.53 | | | 39 | | | |
| 19 | | | | 40 | | | |
| 20 | | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-17-91 Time 1130

Location: Grumman Calverton Fuel depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.37 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed 0.02

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | – | | | 21 | 13.86 | | |
| 1 | 17.03 | 17.01 | .02 | 22 | 14.87 | | |
| 2 | 15.96 | | | 23 | 15.65 | | |
| 3 | 15.64 | | | 24 | 14.89 | | |
| 4 | 18.03 | | | 25 | 15.42 | | |
| 5 | 17.66 | | | 26 | 15.30 | | |
| 6 | 15.87 | | | 27 | 12.50 | | |
| 7 | 16.86 | | | 28 | 15.29 | | |
| 8 | Dry | | | 29 | 15.09 | | |
| 9 | 17.76 | 17.73 | .03 | 30 | 15.12 | | |
| 10 | 18.70 | | | A | 15.98 | | |
| 11 | 17.96 | | | B | 16.08 | | |
| | 17.95 | 17.93 | .02 | C | 17.12 | | |
| 13 | 15.23 | | | D | 17.92 | | |
| 14 | 16.17 | | | | After Bailing | | |
| 15 | 15.51 | | | 1 | 17.04 | | |
| 16 | 15.91 | | | 9 | 17.78 | | |
| 17 | 15.78 | | | 12 | 17.97 | | |
| 18 | 15.99 | | | | | | |
| 19 | 14.72 | | | | | | |
| 20 | 15.75 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 7-10-91 Time 1130

Location: GRUMMAN CALV. FUEL DEPOT AREA Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.35 gal

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 14.25 | | |
| 1 | 16.95 | | | 22 | 14.82 | | |
| 2 | 15.70 | | | 23 | 15.57 | | |
| 3 | 15.56 | | | 24 | 14.84 | | |
| 4 | 17.95 | | | 25 | 15.30 | | |
| 5 | 17.60 | | | 26 | 15.20 | | |
| 6 | 16.75 | | | 27 | 12.40 | | |
| 7 | 16.74 | | | 28 | 15.20 | | |
| 8 | DRY | | | 29 | 14.95 | | |
| 9 | 17.56 | TRACE | | 30 | 15.05 | | |
| 10 | 18.55 | | | A | 15.89 | | |
| 11 | 17.80 | | | B | 15.99 | | |
| 12 | 19.12 | | | C | 17.02 | | |
| 13 | 15.15 | | | D | 17.85 | | |
| 14 | 16.10 | | | 35 | | | |
| 15 | 15.40 | | | 36 | | | |
| 16 | TRUCK. | | | 37 | | | |
| 17 | 15.67 | | | 38 | | | |
| 18 | 15.89 | | | 39 | | | |
| 19 | 14.60 | | | 40 | | | |
| 20 | 15.64 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-27-91 Time 1000

Location: Fuel Depot Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.35 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 13.95 | | |
| 1 | 16.96 | | | 22 | 14.53 | | |
| 2 | 15.44 | | | 23 | 15.3 | | |
| 3 | 15.3 | | | 24 | 14.52 | | |
| 4 | 17.67 | | | 25 | 15.02 | | |
| 5 | 17.31 | | | 26 | 14.9 | | |
| 6 | 16.51 | | | 27 | 12.11 | | |
| 7 | 16.51 | | | 28 | 14.95 | | |
| 8 | DRY | | | 29 | 14.66 | | |
| 9 | 17.29 | | | 30 | 14.78 | | |
| 10 | 18.3 | | | A. | 15.87 | | |
| 11 | 17.54 | | | B. | 15.73 | — | |
| 12 | 18.84 | | | C. | 16.76 | — | |
| 13 | Flooded | | | D. | 17.52 | — | |
| 14 | 15.81 | | | [illegible] | | | |
| 15 | 15.13 | | | [illegible] | | | |
| 16 | 15.55 | | | [illegible] | — | | |
| 17 | 15.39 | | | [illegible] | | | |
| 18 | 15.58 | | | [illegible] | | | |
| 19 | 14.32 | | | [illegible] | | | |
| 20 | 15.35 | | | [illegible] | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-21-91 Time 1100

Location: Grumman Calv. Fuel Depot Area Spill # 82-1680

Storage tank level _____ gallons Recovered to date 110.35 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed _____

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | 15.47 | | |
| 1 | 16.51 | | | | 14.21 | | |
| 2 | 15.31 | | | | 15.25 | | |
| 3 | 15.18 | | | | 13.90 | | |
| 4 | 17.57 | | | | 14.40 | | |
| 5 | 17.20 | | | | 15.20 | | |
| 6 | 16.35 | | | | 14.40 | | |
| 7 | 16.34 | | | | 14.94 | | |
| 8 | DRY | | | | 14.80 | | |
| 9 | 17.19 | | | | 11.99 | | |
| 10 | 18.19 | | | | 14.81 | | |
| 11 | 17.41 | | | | 14.52 | | |
| 12 | 18.74 | | | | 14.70 | | |
| 13 | 14.78 | | | A | 15.52 | | |
| 14 | 15.70 | | | B | 15.60 | | |
| 15 | 15.02 | | | C | 16.62 | | |
| 16 | 15.41 | | | D | 17.44 | | |
| 17 | 15.27 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-14-91 Time 1100

Location: Fuel Depot

Spill # 82-1680

Storage tank level _____ gallons

Recovered to date 110.35 gal.

Pump rate : _____ gpm

Tot.gal. pumped _____

Tot.gal.bailed 0

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | | 13.71 | | |
| 1 | 16.63 | | | | 14.3 | | |
| 2 | 15.21 | | | | 15.06 | | |
| 3 | 15.06 | | | | 14.3 | | |
| 4 | 17.45 | | | | 14.82 | | |
| 5 | 17.07 | | | | 14.7 | | |
| 6 | 16.27 | | | | 11.87 | | |
| 7 | 16.27 | | | | 14.71 | | |
| 8 | DRY | | | | 14.43 | | |
| 9 | 17.09 | | | | 14.56 | | |
| 10 | 18.05 | | | A. | 15.4 | | |
| 11 | 17.3 | | | B. | 15.5 | | |
| 12 | 18.61 | | | C. | 16.52 | | |
| 13 | 14.64 | | | D. | 17.3 | | |
| 14 | 15.56 | | | | | | |
| 15 | 14.89 | | | | | | |
| 16 | 15.3 | | | | | | |
| 17 | 16.16 | | | | | | |
| 18 | 15.35 | | | | | | |
| 19 | 14.1 | | | | | | |
| 20 | 15.12 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 6-7-91 Time 1230

Location: GRUMMAN CALV. FUEL DEPOT AREA Spill # 82-1680

Storage tank level — gallons Recovered to date 110.35 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed 0

Air Stripper Blower: ON/OFF _____ fpm _____ temp _____ battery _____

Soil Venting System: ON/OFF _____ fpm _____ temp _____ battery _____

Pool Levels (feet) : Pool 1 _____ Pool 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 15.49 | | |
| 1 | 16.40 | | | 19 | 14.00 | | |
| 2 | 15.12 | | | 20 | 15.05 | | |
| 3 | 15.00 | | | 21 | 13.65 | | |
| 4 | 17.40 | | | 22 | 14.22 | | |
| 5 | 17.00 | | | 23 | 15.03 | | |
| 6 | 16.17 | | | 24 | 14.20 | | |
| 7 | 16.16 | | | 25 | 14.72 | | |
| 8 | DRY | | | 26 | 14.60 | | |
| 9 | 17.00 | | | 27 | 11.80 | | |
| 10 | 17.95 | | | 28 | 14.75 | | |
| 11 | 17.22 | | | 29 | 14.35 | | |
| 12 | 17.51 | | | 30 | 14.50 | | |
| 13 | 14.59 | | | A | 15.31 | | |
| 14 | 15.50 | | | B | 15.41 | | |
| 15 | 14.80 | | | C | 16.44 | | |
| 16 | 15.21 | | | D | 17.25 | | |
| 17 | 15.30 | | | 35 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Depot SPILL# 82-1680 DATE 5-30-91 TIME 1000

STORAGE TANK LEVEL 1 — 2.

CUMULATIVE TOTAL 110,356. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.2 | | |
| RW 2. | | | | 23 | 14.92 | | |
| RW 3. | | | | 24 | 14.16 | | |
| RW 4. | | | | 25 | 14.66 | | |
| PW 1 | | | | 26 | 14.59 | | |
| PW 2 | | | | 27 | 11.72 | | |
| IW | | | | 28 | 14.6 | | |
| | | | | 29 | 14.92 | | |
| 1 | 16.33 | | | 30 | 14.41 | | |
| 2 | 15.1 | | | A. | 15.26 | | |
| 3 | 14.95 | | | B. | 15.36 | | |
| 4 | 17.32 | | | C. | 16.4 | | |
| 5 | 16.94 | | | D. | 17.15 | | |
| 6 | 16.19 | | | 35 | | | |
| 7 | 16.19 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.95 | | | 38 | | | |
| 10 | 17.9 | | | 39 | | | |
| 11 | 17.15 | | | 40 | | | |
| 12 | 18.47 | | | 41 | | | |
| 13 | 14.59 | | | 42 | | | |
| 14 | 15.46 | | | 43 | | | |
| 15 | 14.78 | | | 44 | | | |
| 16 | 15.18 | | | 45 | | | |
| 17 | 15. | | | 46 | | | |
| 18 | 15.8 | | | 47 | | | |
| 19 | 13.94 | | | 48 | | | |
| 20 | 14.98 | | | 49 | | | |
| 21 | 13.58 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610 Calverton, NY 11933
Tel:(516)369-4900

Date 5.24.91 Time 1315

Location: GRUMMAN CALVERTON FUEL DEPOT Spill # 82-1680

Storage tank level 0 gallons Recovered to date 110.35 gal.

Pump rate : _____ gpm Tot.gal. pumped _____ Tot.gal.bailed 0

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 21 | 13.50 | | |
| 1 | 16.22 | | | 22 | 14.10 | | |
| 2 | 15.00 | | | 23 | 14.85 | | |
| 3 | 14.89 | | | 24 | 14.06 | | |
| 4 | 17.25 | | | 25 | 14.60 | | |
| 5 | 16.85 | | | 26 | 14.44 | | |
| 6 | 16.02 | | | 27 | 11.62 | | |
| 7 | 16.00 | | | 28 | 14.49 | | |
| 8 | DRY | | | 29 | 14.20 | | |
| 9 | 16.90 | | | 30 | 14.35 | | |
| 10 | 17.81 | | | A | 15.16 | | |
| 11 | 17.07 | | | B | 15.25 | | |
| 12 | 18.39 | | | C | 16.30 | | |
| 13 | 14.45 | | | D | 17.11 | | |
| 14 | 15.37 | | | 35 | | | |
| 15 | 14.70 | | | 36 | | | |
| 16 | 15.10 | | | 37 | | | |
| 17 | 14.95 | | | 38 | | | |
| 18 | 15.12 | | | 39 | | | |
| 19 | 13.89 | | | 40 | | | |
| 20 | 14.90 | | | 41 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Depot SPILL# 82-1680 DATE 5-17-91 TIME 1000

STORAGE TANK LEVEL 1 _____ 2. _____

CUMULATIVE TOTAL 110.35G GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 13.96 | | |
| RW 2. | | | | 23 | 14.71 | | |
| RW 3. | | | | 24 | 13.93 | | |
| RW 4. | | | | 25 | 14.46 | | |
| PW 1 | | | | 26 | 14.31 | | |
| PW 2 | | | | 27 | 11.5 | | |
| IW | | | | 28 | 14.35 | | |
| | | | | 29 | 14.08 | | |
| 1 | 16.1 | | | 30 | 14.21 | | |
| 2 | 14.86 | | | A | 15.03 | | |
| 3 | 14.7 | | | B | 15.13 | | |
| 4 | 17.11 | | | C | 16.16 | | |
| 5 | 16.72 | | | D | 16.92 | | |
| 6 | 15.91 | | | 35 | | | |
| 7 | 15.91 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.72 | | | 38 | | | |
| 10 | 17.69 | | | 39 | | | |
| 11 | 16.93 | | | 40 | | | |
| 12 | 18.24 | | | 41 | | | |
| 13 | 14.32 | | | 42 | | | |
| 14 | 14.93 | | | 43 | | | |
| 15 | 14.55 | | | 44 | | | |
| 16 | 14.94 | | | 45 | | | |
| 17 | 14.8 | | | 46 | | | |
| 18 | 14.98 | | | 47 | | | |
| 19 | 13.72 | | | 48 | | | |
| 20 | 14.76 | | | 49 | | | |
| 21 | 13.95 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calverton Fuel depot SPILL# 82-1680 DATE 5-10-91 TIME 1130

STORAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 G. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | - | | | 22 | Flooded | | |
| RW 2. | - | | | 23 | 14.56 | | |
| RW 3. | - | | | 24 | 13.77 | | |
| RW 4. | - | | | 25 | Flooded | | |
| PW 1 | - | | | 26 | 14.16 | | |
| PW 2 | - | | | 27 | 11.33 | | |
| IW | - | | | 28 | 14.21 | | |
| | - | | | 29 | 13.95 | | |
| 1 | 15.94 | | | 30 | 14.05 | | |
| 2 | 14.72 | | | A | 14.68 | | |
| 3 | 14.56 | | | B | 14.98 | | |
| 4 | 17.00 | | | C | 16.00 | | |
| 5 | 16.56 | | | D | 16.78 | | |
| 6 | 15.75 | | | 35 | | | |
| 7 | 15.25 | | | 36 | | | |
| 8 | Dry | | | 37 | | | |
| 9 | 16.57 | | | 38 | | | |
| 10 | 17.53 | | | 39 | | | |
| 11 | 16.77 | | | 40 | | | |
| 12 | 18.08 | | | 41 | | | |
| 13 | 13.78 | | | 42 | | | |
| 14 | 15.09 | | | 43 | | | |
| 15 | 14.38 | | | 44 | | | |
| 16 | 14.79 | | | 45 | | | |
| 17 | 14.63 | | | 46 | | | |
| 18 | 14.83 | | | 47 | | | |
| 19 | 13.57 | | | 48 | | | |
| 20 | 13.16 | | | 49 | | | |
| 21 | 14.60 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FUEL DEPOT SPILL# 82-1680 DATE 5.3.91 TIME 1300

STORAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | TRUCK | | |
| RW 2. | | | | 23 | 14.50 | | |
| RW 3. | | | | 24 | 13.72 | | |
| RW 4. | | | | 25 | 14.25 | | |
| PW 1 | | | | 26 | 14.06 | | |
| PW 2 | | | | 27 | 11.25 | | |
| IW | | | | 28 | 14.15 | | |
| | | | | 29 | 14.00 | | |
| 1 | 15.85 | | | 30 | 13.89 | | |
| 2 | 14.65 | | | A | 14.80 | | |
| 3 | 14.50 | | | B | 14.90 | | |
| 4 | 16.90 | | | C | 15.90 | | |
| 5 | 16.50 | | | D | 16.70 | | |
| 6 | 15.65 | | | 35 | | | |
| 7 | 15.67 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.50 | | | 38 | | | |
| 10 | 17.45 | | | 39 | | | |
| 11 | 16.70 | | | 40 | | | |
| 12 | 18.00 | | | 41 | | | |
| 13 | FLOODED | | | 42 | | | |
| 14 | 15.03 | | | 43 | | | |
| 15 | 14.30 | | | 44 | | | |
| 16 | 14.70 | | | 45 | | | |
| 17 | 14.60 | | | 46 | | | |
| 18 | 14.75 | | | 47 | | | |
| 19 | 13.47 | | | 48 | | | |
| 20 | 14.50 | | | 49 | | | |
| 21 | 13.10 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Depot SPILL# 82-1680 DATE 4-26-91 TIME 1100

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 13.81 | | |
| RW 2. | | | | 23 | 14.6 | | |
| RW 3. | | | | 24 | 13.81 | | |
| RW 4. | | | | 25 | 14.34 | | |
| PW 1 | | | | 26 | 14.17 | | |
| PW 2 | | | | 27 | 11.34 | | |
| IW | | | | 28 | 14.24 | | |
| | | | | 29 | 14.18 | | |
| 1 | 15.98 | | | 30 | 14.09 | | |
| 2 | 14.75 | | | A | 14.91 | | |
| 3 | 1[illegible].09 | | | B. | 14.99 | | |
| 4 | 17 | | | C. | 16.02 | | |
| 5 | 16.6 | | | D. | 16.77 | | |
| 6 | 15.78 | | | 35 | | | |
| 7 | 15.78 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.6 | | | 38 | | | |
| 10 | 17.54 | | | 39 | | | |
| 11 | 16.78 | | | 40 | | | |
| 12 | 18.08 | | | 41 | | | |
| 13 | 14.16 | | | 42 | | | |
| 14 | 15.12 | | | 43 | | | |
| 15 | 14.4 | | | 44 | | | |
| 16 | 14.79 | | | 45 | | | |
| 17 | 14.66 | | | 46 | | | |
| 18 | 14.82 | | | 47 | | | |
| 19 | 14.57 | | | 48 | | | |
| 20 | 14.6 | | | 49 | | | |
| 21 | 13.19 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Land Fuel Depot Spill# 82-1680 Date 4/19/91 Time 1030

Storage tank level _____gal Cumulative total 110.35G Total gallons bailed 0

Pumping rate _____gpm Total gallons pumped _____ Pressure _____psi

Air Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____

Soil Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

Pool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 15.33 | | |
| 1 | 16.48 | | | 19 | 14.06 | | |
| 2 | 15.25 | | | 20 | 15.08 | | |
| 3 | 15.08 | | | 21 | 13.71 | | |
| 4 | 17.48 | | | 22 | 14.36 | | |
| 5 | 17.08 | | | 23 | 15.08 | | |
| 6 | 16.25 | | | 24 | 14.29 | | |
| 7 | 16.26 | | | 25 | 14.80 | | |
| 8 | DRY | | | 26 | 14.67 | | |
| 9 | 17.09 | | | 27 | 11.84 | | |
| 10 | 18.04 | | | 28 | 14.72 | | |
| 11 | 17.29 | | | 29 | 14.58 | | |
| 12 | 18.58 | | | 30 | 14.46 | | |
| 13 | 14.68 | | | A | 15.42 | | |
| 14 | 15.62 | | | B | 15.50 | | |
| 15 | 14.92 | | | C | 16.51 | | |
| 16 | 15.32 | | | D | 17.31 | | |
| 17 | 15.17 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

ocation Grumman Calv Fuel Depot Area Spill# 82-1680 Date 4/10/91 Time 1100

orage tank level _____gal Cumulative total 110.35 Total gallons bailed 0

umping rate _____gpm Total gallons pumped _____ Pressure _____psi

r Stripper Blower ON/OFF _____ Temp _____ fpm _____ Battery _____

il Venting System ON/OFF _____ Temp _____ fpm _____ Battery _____

ool Levels 1 _____ 2 _____

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | | | | 18 | 15.30 | | |
| 1 | 16.45 | | | 19 | 14.00 | | |
| 2 | 15.20 | | | 20 | 15.05 | | |
| 3 | 15.06 | | | 21 | 13.65 | | |
| 4 | 17.45 | | | 22 | 14.26 | | |
| 5 | 17.06 | | | 23 | 15.05 | | |
| 6 | 16.23 | | | 24 | 14.27 | | |
| 7 | 16.22 | | | 25 | 14.80 | | |
| 8 | DRY | | | 26 | 14.65 | | |
| 9 | 17.06 | | | 27 | 11.81 | | |
| 10 | 17.99 | | | 28 | 14.75 | | |
| 11 | 17.23 | | | 29 | 14.45 | | |
| 12 | 18.55 | | | 30 | 14.58 | | |
| 13 | 14.67 | | | | | | |
| 14 | 15.60 | | | A | 15.40 | | |
| 15 | 14.89 | | | B | 15.46 | | |
| 16 | 15.25 | | | C | 16.50 | | |
| 17 | 15.10 | | | D | 17.25 | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

Location Grumman Calverton Fieldport Spill# 82-1630 Date 4-5-91 Time 1200

Storage tank level 1. — gal 2. _____ gal Total gallons bailed 0 gal

Pumping rate _____ gpm Total gallons pumped — Pressure _____ psi

Cumulative total 110.35 gal

| Well# | DTW | DTP | Product | # | DTW | DTP | Product |
|---|---|---|---|---|---|---|---|
| RW | - | | | 18 | 15.14 | | |
| 1 | 16.31 | | | 19 | 13.88 | | |
| 2 | 15.07 | | | 20 | 14.90 | | |
| 3 | 14.93 | | | 21 | 13.51 | | |
| 4 | 17.31 | | | 22 | 14.14 | | |
| 5 | 16.90 | | | 23 | 14.89 | | |
| 6 | 16.09 | | | 24 | 14.11 | | |
| 7 | 16.11 | | | 25 | 14.63 | | |
| 8 | Dry | | | 26 | 14.47 | | |
| 9 | 16.92 | | | 27 | 11.63 | | |
| 10 | 17.84 | | | 28 | 14.56 | | |
| 11 | 17.09 | | | | | | |
| 12 | 18.39 | | | | | | |
| 13 | 14.50 | | | A | 15.22 | | |
| 14 | 15.44 | | | B | 15.30 | | |
| 15 | 14.72 | | | C | 16.33 | | |
| 16 | 15.11 | | | D | 17.13 | | |
| 17 | 14.96 | | | | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Depot SPILL# 82-1680 DATE 3-27-91 TIME 1100

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.07 | | |
| RW 2. | | | | 23 | 14.81 | | |
| RW 3. | | | | 24 | 14.01 | | |
| RW 4. | | | | 25 | 14.55 | | |
| PW 1 | | | | 26 | 14.39 | | |
| PW 2 | | | | 27 | 11.55 | | |
| IW | | | | 28 | 14.48 | | |
| | | | | 29 | 14.21 | | |
| 1 | 16.22 | | | 30 | 14.36 | | |
| 2 | 14.98 | | | 31 A. | 15.12 | | |
| 3 | 14.83 | | | 32 B. | 15.21 | | |
| 4 | 17.22 | | | 33 C. | 16.24 | | |
| 5 | 16.81 | | | 34 D. | 16.98 | | |
| 6 | 16. | | | 35 | | | |
| 7 | 16.01 | | | 36 | | | |
| 8 | DRY. | | | 37 | | | |
| 9 | 16.83 | | | 38 | | | |
| 10 | 17.74 | | | 39 | | | |
| 11 | 17. | | | 40 | | | |
| 12 | 18.29 | | | 41 | | | |
| 13 | 14.43 | | | 42 | | | |
| 14 | 15.35 | | | 43 | | | |
| 15 | 14.63 | | | 44 | | | |
| 16 | 15.01 | | | 45 | | | |
| 17 | 14.86 | | | 46 | | | |
| 18 | 15.01 | | | 47 | | | |
| 19 | 13.79 | | | 48 | | | |
| 20 | 14.81 | | | 49 | | | |
| 21 | 13.4 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Fuel Depot SPILL# 82-1680 DATE 3-22-91 TIME 1130

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110.35 GAL GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.08 | | |
| RW 2. | | | | 23 | 14.8 | | |
| RW 3. | | | | 24 | 14.02 | | |
| RW 4. | | | | 25 | 14.52 | | |
| PW 1 | | | | 26 | 14.38 | | |
| PW 2 | | | | 27 | 11.53 | | |
| IW | | | | 28 | 14.47 | | |
| | | | | 29 | 14.2 | | |
| 1 | 16.21 | | | 30 | 14.33 | | |
| 2 | 15. | | | A | 15.11 | | |
| 3 | 14.82 | | | B | 15.2 | | |
| 4 | 17.21 | | | C | 16.24 | | |
| 5 | 16.81 | | | D | 16.97 | | |
| 6 | 16.01 | | | 35 | | | |
| 7 | 16. | | | 36 | | | |
| 8 | DRY. | | | 37 | | | |
| 9 | 16.83 | | | 38 | | | |
| 10 | 17.75 | | | 39 | | | |
| 11 | 16.96 | | | 40 | | | |
| 12 | 18.3 | | | 41 | | | |
| 13 | 14.37 | | | 42 | | | |
| 14 | 15.35 | | | 43 | | | |
| 15 | 14.62 | | | 44 | | | |
| 16 | 15. | | | 45 | | | |
| 17 | 14.84 | | | 46 | | | |
| 18 | 15.01 | | | 47 | | | |
| 19 | 13.76 | | | 48 | | | |
| 20 | 14.8 | | | 49 | | | |
| 21 | 13.39 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2228
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALV. FUEL DEPOT SPILL# 82-1680 DATE 3/15/91 TIME 1115

DRAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.12 | | |
| RW 2. | | | | 23 | 14.85 | | |
| RW 3. | | | | 24 | TRUCK | | |
| RW 4. | | | | 25 | 12.30 | (flooded) | |
| PW 1 | | | | 26 | 14.40 | | |
| PW 2 | | | | 27 | 11.55 | | |
| IW | | | | 28 | 13.86 | | |
| | | | | 29 | 14.25 | | |
| 1. | FLOODED | | | 30 | FLOODED | | |
| 2 | 15.00 | | | A | 15.10 | | |
| 3 | 14.85 | | | B | 15.23 | | |
| 4 | 17.25 | | | C | 16.25 | | |
| 5 | 16.85 | | | D | 17.05 | | |
| 6 | 16.00 | | | 35 | | | |
| 7 | 16.00 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.82 | | | 38 | | | |
| 10 | 17.75 | | | 39 | | | |
| 11 | 16.99 | | | 40 | | | |
| 12 | 18.30 | | | 41 | | | |
| 13 | FLOODED | | | 42 | | | |
| 14 | 15.39 | | | 43 | | | |
| 15 | 14.65 | | | 44 | | | |
| 16 | 15.06 | | | 45 | | | |
| 17 | 14.90 | | | 46 | | | |
| 18 | 15.09 | | | 47 | | | |
| 19 | 13.87 | | | 48 | | | |
| 0 | 14.80 | | | 49 | | | |
| 21 | 13.40 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: GRUMMAN CALU FUEL DEPOT SPILL# 82-1680 DATE 3/8/91 TIME 1030

ORAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.20 | | |
| RW 2. | | | | 23 | 14.91 | | |
| RW 3. | | | | 24 | 14.12 | | |
| RW 4. | | | | 25 | 14.67 | | |
| PW 1 | | | | 26 | 14.47 | | |
| PW 2 | | | | 27 | 11.64 | | |
| IW | | | | 28 | 14.59 | | |
| | | | | 29 | 14.30 | | |
| 1. | 16.30 | | | 30 | 14.45 | | |
| 2 | 15.07 | | | A | 15.21 | | |
| 3 | TRUCK | | | B | 15.31 | | |
| 4 | 17.30 | | | C | 16.35 | | |
| 5 | 16.90 | | | D | 17.10 | | |
| 6 | 16.07 | | | 35 | | | |
| 7 | 16.07 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.90 | | | 38 | | | |
| 10 | 17.85 | | | 39 | | | |
| 11 | 17.07 | | | 40 | | | |
| 12 | 18.40 | | | 41 | | | |
| 13 | 14.50 | | | 42 | | | |
| 14 | 15.47 | | | 43 | | | |
| 15 | 14.75 | | | 44 | | | |
| 16 | 15.11 | | | 45 | | | |
| 17 | 14.97 | | | 46 | | | |
| 18 | 15.14 | | | 47 | | | |
| 19 | 13.90 | | | 48 | | | |
| 0 | 14.90 | | | 49 | | | |
| 21 | 13.50 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O.Box 610
Calverton, NY 11933
Tel:(516)369-4900

LOCATION: Calverton Fuel depot SPILL# 82-1680 DATE 2-21-91 TIME 1000

STORAGE TANK LEVEL 1 _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.50 | | |
| RW 2. | | | | 23 | 15.23 | | |
| RW 3. | | | | 24 | 14.45 | | |
| RW 4. | | | | 25 | 14.98 | | |
| PW 1 | | | | 26 | 14.80 | | |
| PW 2 | | | | 27 | 12.00 | | |
| IW | | | | 28 | 14.90 | | |
| | | | | 29 | 14.76 | | |
| 1 | 16.65 | | | 30 | 14.62 | | |
| 2 | 15.42 | | | A | 15.57 | | |
| 3 | 15.27 | | | B | 15.66 | | |
| 4 | 17.64 | | | C | 16.70 | | |
| 5 | 17.25 | | | D | 17.42 | | |
| 6 | 16.45 | | | 35 | | | |
| 7 | 16.46 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.26 | | | 38 | | | |
| 10 | 18.20 | | | 39 | | | |
| 11 | 17.45 | | | 40 | | | |
| 12 | 18.75 | | | 41 | | | |
| 13 | 14.80 | | | 42 | | | |
| 14 | 15.70 | | | 43 | | | |
| 15 | 15.08 | | | 44 | | | |
| 16 | 15.47 | | | 45 | | | |
| 17 | 15.31 | | | 46 | | | |
| 18 | 15.50 | | | 47 | | | |
| 19 | 14.23 | | | 48 | | | |
| 20 | 15.26 | | | 49 | | | |
| 21 | 13.86 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. Box 610
Calverton, NY 11933
Tel: (516) 369-4900

# 82-1680

LOCATION: Calverton Fuel Depot DATE 2/28/91 TIME 1300

STORAGE TANK LEVEL 1. _____ 2. _____ 3. _____ 4. _____

CUMULATIVE TOTAL 110.35 GAL.

PUMPING RATE RW1 _____ _____ RW3 _____ RW4 _____

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| A | 15.67 | | | 24. | 14.58 | | |
| B | 15.77 | | | 25. | 15.08 | | |
| C | 16.81 | | | 26. | 14.94 | | |
| D | 17.54 | | | 27. | 12.10 | | |
| 1. | 16.77 | | | 28. | 15.00 | | |
| 2. | 15.50 | | | 29. | 14.73 | | |
| 3. | 15.37 | | | 30. | 14.85 | | |
| 4. | 17.75 | | | 31. | | | |
| 5. | 17.35 | | | 32. | | | |
| 6. | 16.54 | | | 33. | | | |
| | 16.54 | | | 34. | | | |
| 8. | DRY | | | 35. | | | |
| 9. | 17.37 | | | 36. | | | |
| 10. | 18.33 | | | 37. | | | |
| 11. | 17.58 | | | 38. | | | |
| 12. | 18.88 | | | 39. | | | |
| 13. | 14.98 | | | 40. | | | |
| 14. | 15.88 | | | 41. | | | |
| 15. | 15.19 | | | 42. | | | |
| 16. | 15.56 | | | 43. | | | |
| 17. | 15.42 | | | 44. | | | |
| 18. | 15.62 | | | 45. | | | |
| 19. | 14.35 | | | 46. | | | |
| 20. | 15.37 | | | 47. | | | |
| 21. | 13.98 | | | 48. | | | |
| | 14.60 | | | 49. | | | |
| 2 | 15.35 | | | 50. | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FUEL DEPOT SPILL# 82-1680 DATE 2/14/91 TIME 1030

STORAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| A | 15.42 | | | 22 | 14.33 | | |
| B | 15.52 | | | 23 | 15.08 | | |
| C | 16.56 | | | 24 | 14.31 | | |
| D | 17.29 | | | 25 | FLOODED | | |
| PW 1 | | | | 26 | CAR | | |
| PW 2 | | | | 27 | 16.85 | | |
| IW | | | | 28 | 14.75 | | |
| | | | | 29 | 14.46 | | |
| 1 | 16.50 | | | 30 | 14.62 | | |
| 2 | 15.27 | | | 31 | | | |
| 3 | 15.13 | | | 32 | | | |
| 4 | 17.50 | | | 33 | | | |
| 5 | 17.10 | | | 34 | | | |
| 6 | 16.29 | | | 35 | | | |
| 7 | 16.29 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.13 | | | 38 | | | |
| 10 | 18.08 | | | 39 | | | |
| 11 | 17.31 | | | 40 | | | |
| 12 | 18.62 | | | 41 | | | |
| 13 | 19.67 | | | 42 | | | |
| 14 | 15.62 | | | 43 | | | |
| 15 | FLOODED | | | 44 | | | |
| 16 | 16.33 | | | 45 | | | |
| 17 | 15.17 | | | 46 | | | |
| 18 | 15.37 | | | 47 | | | |
| 19 | 14.08 | | | 48 | | | |
| 20 | 15.10 | | | 49 | | | |
| 21 | 13.71 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv. Fuel Depot Area SPILL# 821680 DATE 2/8/91 TIME 113

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.30 | | |
| RW 2. | | | | 23 | 15.07 | | |
| RW 3. | | | | 24 | 14.30 | | |
| RW 4. | | | | 25 | 14.85 | | |
| PW 1 | | | | 26 | 14.65 | | |
| PW 2 | | | | 27 | 11.81 | | |
| IW | | | | 28 | 14.75 | | |
| | | | | 29 | 14.62 | | |
| 1 | 16.50 | | | 30 | 14.47 | | |
| 2 | 15.29 | | | A | 15.40 | | |
| 3 | 15.10 | | | B | 15.50 | | |
| 4 | 17.50 | | | C | 16.50 | | |
| 5 | 17.10 | | | D | 17.30 | | |
| 6 | 16.25 | | | 35 | | | |
| 7 | 16.24 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.10 | | | 38 | | | |
| 10 | 18.01 | | | 39 | | | |
| 11 | 17.25 | | | 40 | | | |
| 12 | 18.58 | | | 41 | | | |
| 13 | 14.70 | | | 42 | | | |
| 14 | 15.67 | | | 43 | | | |
| 15 | TRUCK | | | 44 | | | |
| 16 | 15.30 | | | 45 | | | |
| 17 | 15.13 | | | 46 | | | |
| 18 | 15.34 | | | 47 | | | |
| 19 | 14.06 | | | 48 | | | |
| 20 | 15.10 | | | 49 | | | |
| 21 | 13.68 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman / Calverton / Fuel depot SPILL# 82-1680 DATE 1-31-91 TIME 1130

STORAGE TANK LEVEL 1. _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | - | | | 22 | 14.15 | | |
| RW 2. | - | | | 23 | 14.86 | | |
| RW 3. | - | | | 24 | 14.10 | | |
| RW 4. | - | | | 25 | 14.62 | | |
| PW 1 | - | | | 26 | 14.44 | | |
| PW 2 | - | | | 27 | 11.61 | | |
| IW | - | | | 28 | 14.56 | | |
| | - | | | A | 15.21 | | |
| 1. | 16.30 | | | B | 15.29 | | |
| 2 | 15.09 | | | C | 16.32 | | |
| 3 | 14.94 | | | D | 17.04 | | |
| 4 | 17.31 | | | 33 | | | |
| 5 | 16.89 | | | 34 | | | |
| 6 | 16.08 | | | 35 | | | |
| 7 | 16.09 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.91 | | | 38 | | | |
| 10 | 17.80 | | | 39 | | | |
| 11 | 17.06 | | | 40 | | | |
| 12 | 18.36 | | | 41 | | | |
| 13 | 14.52 | | | 42 | | | |
| 14 | 15.44 | | | 43 | | | |
| 15 | 14.23 | | | 44 | | | |
| 16 | 15.10 | | | 45 | | | |
| 17 | 14.94 | | | 46 | | | |
| 18 | 15.14 | | | 47 | | | |
| 19 | 13.84 | | | 48 | | | |
| 20 | 14.90 | | | 49 | | | |
| 21 | 13.48 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: CALVERTON FUEL DEPOT SPILL# 82-1680 DATE 1,24,91 TIME 1000

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110:35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| A | 15.08 | | | 22 | 14.04 | | |
| B | 15.17 | | | 23 | 14.77 | | |
| C | 16.19 | | | 24 | 13.98 | | |
| D | 16.85 | | | 25 | 14.50 | | |
| PW 1 | | | | 26 | 13.29 | | |
| PW 2 | | | | 27 | 11.44 | | |
| IW | | | | 28 | 14.46 | | |
| | | | | 29 | | | |
| 1 | 16.19 | | | 30 | | | |
| 2 | 14.96 | | | 31 | | | |
| 3 | 14.83 | | | 32 | | | |
| 4 | 17.19 | | | 33 | | | |
| 5 | 16.77 | | | 34 | | | |
| 6 | 15.94 | | | 35 | | | |
| 7 | 15.94 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 16.79 | | | 38 | | | |
| 10 | 17.64 | | | 39 | | | |
| 11 | 16.88 | | | 40 | | | |
| 12 | 18.21 | | | 41 | | | |
| 13 | 14.39 | | | 42 | | | |
| 14 | 15.33 | | | 43 | | | |
| 15 | 14.56 | | | 44 | | | |
| 16 | 14.94 | | | 45 | | | |
| 17 | 14.79 | | | 46 | | | |
| 18 | 14.96 | | | 47 | | | |
| 19 | 13.67 | | | 48 | | | |
| 20 | 14.69 | | | 49 | | | |
| 21 | 13.29 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Grumman Calv Fuel Depot SPILL# 821680 DATE 1/16/91 TIME 100

STORAGE TANK LEVEL 1 _____ 2. _____

CUMULATIVE TOTAL _____ GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.32 | | |
| RW 2. | | | | 23 | 15.04 | | |
| RW 3. | | | | 24 | 14.22 | | |
| RW 4. | | | | 25 | TRUCK | | |
| PW 1 | | | | 26 | 15.57 | | |
| PW 2 | | | | 27 | 11.70 | | |
| IW | | | | 28 | 13.20 | | |
| | | | | A | 15.20 | | |
| 1 | 16.40 | | | B | 15.40 | | |
| 2 | 15.25 | | | C | 16.45 | | |
| 3 | 15.07 | | | D | 17.15 | | |
| 4 | 17.45 | | | 33 | | | |
| 5 | 17.02 | | | 34 | | | |
| 6 | 16.20 | | | 35 | | | |
| 7 | 16.19 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.05 | | | 38 | | | |
| 10 | 17.90 | | | 39 | | | |
| 11 | 17.15 | | | 40 | | | |
| 12 | 18.45 | | | 41 | | | |
| 13 | ICE | | | 42 | | | |
| 14 | 15.58 | | | 43 | | | |
| 15 | 14.80 | | | 44 | | | |
| 16 | — | | | 45 | | | |
| 17 | 15.07 | | | 46 | | | |
| 18 | 15.20 | | | 47 | | | |
| 19 | 13.95 | | | 48 | | | |
| 20 | 14.95 | | | 49 | | | |
| 21 | 13.56 | | | 50 | | | |

MPC ENVIRONMENTAL SERVICES
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton Fuel Depot SPILL# 82-1680 DATE 1991 TIME 103

STORAGE TANK LEVEL 1 _____ 2. _____

CUMULATIVE TOTAL 110.35 GAL. GALLONS BAILED 0

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| A | FLOODED | | | 22 | FLOODED | | |
| B | FLOODED | | | 23 | 15.33 | | |
| C | 16.79 | | | 24 | 14.54 | | |
| D | 17.50 | | | 25 | CAR | | |
| PW 1 | | | | 26 | 14.88 | | |
| PW 2 | | | | 27 | 12.04 | | |
| IW | | | | 28 | FLOODED | | |
| | | | | 29 | | | |
| 1 | 16.73 | | | 30 | | | |
| 2 | 15.50 | | | 31 | | | |
| 3 | 15.37 | | | 32 | | | |
| 4 | 17.77 | | | 33 | | | |
| 5 | 17.37 | | | 34 | | | |
| 6 | 16.50 | | | 35 | | | |
| 7 | 16.50 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.37 | | | 38 | | | |
| 10 | 18.25 | | | 39 | | | |
| 11 | 17.50 | | | 40 | | | |
| 12 | 18.83 | | | 41 | | | |
| 13 | FLOODED | | | 42 | | | |
| 14 | 15.88 | | | 43 | | | |
| 15 | FLOODED | | | 44 | | | |
| 16 | 15.54 | | | 45 | | | |
| 17 | 15.37 | | | 46 | | | |
| 18 | 15.54 | | | 47 | | | |
| 19 | 14.25 | | | 48 | | | |
| 20 | 15.29 | | | 49 | | | |
| 21 | 13.83 | | | 50 | | | |

**MPC ENVIRONMENTAL SERVICES**
P.O. BOX 2220
EAST PATCHOGUE, N.Y. 11772
(516) 654-4900

LOCATION: Calverton- Fuel Depot SPILL# 82-1680 DATE 1-2-90 TIME 1030

STORAGE TANK LEVEL 1. 2.

CUMULATIVE TOTAL 110.35 G GALLONS BAILED 0.00

| WELL # | DTW | DTP | PRODUCT | # | DTW | DTP | PRODUCT |
|---|---|---|---|---|---|---|---|
| RW 1. | | | | 22 | 14.56 | | |
| RW 2. | | | | 23 | 15.3 | | |
| RW 3. | | | | 24 | 14.5 | | |
| RW 4. | | | | 25 | 15.01 | | |
| PW 1 | | | | 26 | 14.83 | | |
| PW 2 | | | | 27 | 11.98 | | |
| IW | | | | 28 | 14.97 | | |
| | | | | A | 15.6 | | |
| 1 | 16.67 | | | B. | 15.68 | | |
| 2 | 15.46 | | | C. | 16.72 | | |
| 3 | Truck. | | | D. | 17.41 | | |
| 4 | 17.7 | | | 33 | | | |
| 5 | 17.27 | Trace | | 34 | | | |
| 6 | 16.47 | | | 35 | | | |
| 7 | 16.47 | | | 36 | | | |
| 8 | DRY | | | 37 | | | |
| 9 | 17.31 | | | 38 | | | |
| 10 | 18.18 | | | 39 | | | |
| 11 | 17.42 | | | 40 | | | |
| 12 | 18.74 | | | 41 | | | |
| 13 | 14.9 | | | 42 | | | |
| 14 | 15.84 | | | 43 | | | |
| 15 | 15.1 | | | 44 | | | |
| 16 | 15.46 | | | 45 | | | |
| 17 | 15.32 | | | 46 | | | |
| 18 | 15.48 | | | 47 | | | |
| 19 | 14.21 | | | 48 | | | |
| 20 | 15.24 | | | 49 | | | |
| 21 | 13.83 | | | 50 | | | |

W13

# SAMPLE/CORE LOG

Boring/Well P1 Project/No. 82-1680 Page ____ of ____

Site Location Grumman Calverton Fuel depot Drilling Started 5/11/89 Drilling Completed 5/11/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller ____ Helper ____

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | Topsoil, brown silty sand no odor |
| 2 | 5 | | | Lt. brown fine - med sand poorly sorted |
| | | | | 10% gravel no odor. |
| 5 | 10 | | | tan med sand poorly sorted no odor |
| 10 | 15 | | | Lt. tan med sand small to coarse |
| | | | | Poorly sorted no odor |
| 15 | 20 | | | Lt. tan med sand slight odor |
| | | | | * PI - 1.0 ppm |
| 22 | 25 | | | Grey tan med sand strong odor |
| | | | | * PI - 150-162 |
| 25 | 30 | | | Grey tan med sand strong odor |
| | | | | * PI = 120-170 |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC w/ locking cap + 12" manhole |
| | | | | 20' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | 675 |

W 14

# SAMPLE/CORE LOG

Boring/Well P-2 Project/No. 82-1680 Page ____ of ____

Site Location Calverton Fuel Depot Drilling Started 5/11/89 Drilling Completed 5/11/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller ____ Helper ____

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | Topsoil brown silty sand |
| 2 | 5 | | | tan med sand w/ a few pebbles |
| | | | | No odor |
| 5 | 20 | | | lt. tan med sand fairly well sorted |
| | | | | * No odor slight odor 15-20 |
| | | | | PI down |
| 20 | 25 | | | * strong odor @ 22' very strong @ 25' |
| | | | | sand grey in color becoming darker |
| | | | | w depth ≈ 150 ppm |
| 25 | 30 | | | * grey med sand strong odor |
| | | | | sample taken |
| | | | | |
| | | | | Casing |
| | | | | 4" PVC w/ 12" manhole + locking cap |
| | | | | 20' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | 6760 |

W15

# SAMPLE/CORE LOG

Boring/Well P3 Project/No. 82-1680 Page ____ of ____

Site Location Grumman Calverton Fuel depot Drilling Started 5/11/89 Drilling Completed 5/11/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | Topsoil, brown silty sand |
| 2 | 5 | | | brown med sand w/ a few pebbles |
| | | | | no odor |
| 5 | 10 | | | tan med sand poorly sorted, sub-angular |
| | | | | no odor |
| 10 | 25 | | | lt. tan med sand fairly well sorted |
| | | | | sub angular - sub rounded no odor |
| 25 | 30 | | | lt tan med sand sub-rounded no odor |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC w/ locking cap 12" manhole |
| | | | | 20' 0.020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | 677 |

W16

# SAMPLE/CORE LOG

Boring/Well P-4 Project/No. 82-1680 Page ____ of ____

Site Location Grumman Calverton Fuel depot Drilling Started 5/11/89 Drilling Completed 5/11/89

Total Depth Drilled 30' feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return/split spoon

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2' | | | Topsoil, med grain sand w/ small |
| | | | | % gravel no odor |
| 2 | 5 | | | Tan med grain sand fairly well sorted |
| | | | | sub-rounded no odor |
| 5 | 15 | | | Lt. tan med grain sand, well sorted |
| | | | | no odor |
| | Core | Rec | | |
| 15 | 17 | | | Lt tan med-sand well sorted |
| | | | | No odor |
| 20 | 22 | | | tan coarse-med sand, poorly sorted |
| | | | | 10% pebbles sample sat. no odor |
| 25 | 27 | | | med - coarse sand poorly sorted |
| | | | | no odor sample sat. |
| 30 | 32 | | | Same as previous |
| | | | | Casing |
| | | | | 4" PVC casing w/ locking cap |
| | | | | 12" manhole |
| | | | | 20' .020 screen |
| | | | | 10' blank |

678

W17

# SAMPLE/CORE LOG

Boring/Well P-5 Project/No. 82-1680 Page ____ of ____

Site Location Galveston Fuel depot, Texas City Drilling Started 5/12/89 Drilling Completed 5/12/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger return

Length and Diameter of Coring Device ____ Sampling Interval ____

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inc

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | Topsoil med brown sand. |
| 2 | 5 | | | lt brown med sand Fairly well |
| | | | | sorted - rounded No odor |
| 5 | 10 | | | tan med sand, well sorted rounded |
| | | | | No odor |
| 10 | 20 | | | same as previous, lighter in color |
| 20 | 30 | | | same as previous, no odor |
| | | | | |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC 12" mh w/ locking cap |
| | | | | 20' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

W18

# SAMPLE/CORE LOG

Boring/Well P6 Project/No. 82-1680 Page ____ of ____

Site Location Grumman Calverton Fuel depot Drilling Started 5/12/89 Drilling Completed 5/12/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | topsoil brown silty sand |
| | | | | no odor |
| 2 | 5 | | | tan med. sand fairly well sorted |
| | | | | No odor |
| 5 | 15 | | | lt. tan med sand fairly well |
| | | | | sorted No odor |
| 15 | 20 | | | lt tan med sand well sorted |
| | | | | no odor |
| 20 | 30 | | | lt. tan med sand well sorted |
| | | | | sub rounded no odor |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC 12" manhole w/ locking cap |
| | | | | 20' screen .020 |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | |
| | | | | 680 |

W19

# SAMPLE/CORE LOG

Boring/Well P-7 Project/No. 82-1680 Page ____ of ____

Site Location Brunman Calverton Fuel Depot Drilling Started 5/12/89 Drilling Completed 5/12/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device AUGER return

Length and Diameter of Coring Device ____ Sampling Interval ____

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method HS Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sasik Hammer Weight ____ Hammer Drop ____ inc

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | topsoil, brown med sand |
| 2 | 5 | | | lt Brown med sand, fairly well sorted |
| | | | | no odor |
| 5 | 10 | | | tan med sand well sorted sub-rounded |
| | | | | no odor |
| 10 | 15 | | | lt tan med sand. well sorted, rounded, |
| | | | | no odor |
| 15 | 20 | | | same as previous no odor |
| 20 | 30 | | | same as previous very faint odor |
| | | | | .7-.5 T.P II @ 25' odor fainter w/ |
| | | | | depth |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC 12" mh w/locking cap |
| | | | | 20' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | 681 |

W20

# SAMPLE/CORE LOG

Boring/Well PB Project/No. 82-1680 Page ____ of ____

Site Location Grumman Calverton Fuel Depot Drilling Started 5/12/89 Drilling Completed 5/12/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____ feet

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sosik Hammer Weight ____ Hammer Drop ____ inches

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 3 | | | topsoil, brown silty sand 5% gravel |
| 3 | 5 | | | tan med sand fairly well sorted |
| | | | | No odor |
| 5 | 15 | | | lt. tan med sand fairly well sorted |
| | | | | No odor |
| 15 | 70 | | | lt tan med sand fairly well sorted |
| | | | | * strong odor @ 18' tip 70 ppm |
| 20 | 30 | | | lt tan grey med sand fairly well sorted |
| | | | | * Tip 90.0 strong odor |
| | | | | |
| | | | | CASING |
| | | | | 4" PVC w/locking cap 12" manhole |
| | | | | 70' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | 682 |

# SAMPLE/CORE LOG

Boring/Well W21 P-9 Project/No. 82-1680 Grumman Page ____ of ____

Site Location Calverton Fuel depot Drilling Started 5/12/89 Drilling Completed 5/12/89

Total Depth Drilled ____ feet Hole Diameter ____ inches Type of Sample/Coring Device Auger Return

Length and Diameter of Coring Device ____ Sampling Interval ____

Land-Surface Elev. ____ feet ☐ Surveyed ☐ Estimated Datum ____

Drilling Fluid Used ____ Drilling Method Auger

Drilling Contractor MPC Driller Don Klaus Helper Scott

Prepared By Charlie Sasik Hammer Weight ____ Hammer Drop ____ inc

| Sample/Core Depth (feet below land surface) From | To | Core Recovery (feet) | Time/Hydraulic Pressure or Blows per 6 inches | Sample/Core Description |
|---|---|---|---|---|
| 0 | 2 | | | top soil, brown med sand |
| 2 | 5 | | | tan med sand, fairly well sorted |
| | | | | no odor |
| 5 | 15 | | | lt tan med sand, well sorted sub |
| | | | | rounded no odor |
| 15 | 20 | | | lt tan-grey med sand, well sorted |
| | | | | * very slight odor 2.1-3.2 ppm Tip |
| 20 | 30 | | | same as previous odor - fainter |
| | | | | * w/ depth 3.2-.09 ppm Tip |
| | | | | |
| | | | | casing |
| | | | | 4" PVC 12" mh w/locking cap |
| | | | | 20' .020 screen |
| | | | | 10' blank |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

683

# APPENDIX D

# SELECTED WATER SUPPLY DATA