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Final
Five-Year Review Report

for

Naval Station Newport
Newport, Rhode Island

Northern Division
Naval Facilities Engineering Command

Contract Number N62472-90-D-1298
Contract Task Order 0282

December 1999

TETRA TECH NUS, INC.

W5299215F

FINAL
FIVE-YEAR REVIEW REPORT

FOR

NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Northern Division
Environmental Branch, Code 1812BJH
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop No. 2
Lester, Pennsylvania 19113-2090

Submitted by:
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CONTRACT NUMBER N62472-90-D-1298
"CLEAN" Contract Task Order No. 0282

December 1999

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Project Number N7538

December 23, 1999

Mr. James Shafer
Remedial Project Manager
Northern Division, Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop 82
Lester, Pennsylvania 19113

Reference: CLEAN Contract No. N62472-90-D-1298
Contract Task Order 0282

Subject: Final Five-Year Review Report
Naval Station Newport
Newport, Rhode Island

Dear Mr. Shafer:

Enclosed is one copy of the Final Five-Year Review Report for Naval Station Newport. Pursuant to your request, copies of the report have been sent overnight to EPA for delivery on December 27th, 1999 and sent U.S. mail to RIDEM, and Naval Station Newport.

Please contact me if you have any questions about this transmittal.

Sincerely,

Charles D. Race
Project Manager

CR:ms

Enclosure

c: M. Griffin, NSN (w/enc.-6)
K.Keckler, EPA (w/enc.-2)
P.Kulpa, RIDEM (w/enc.-2)
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1.0 INTRODUCTION

This document presents the first five-year review of the Naval Station Newport (NSN), formerly the Naval Education and Training Center (NETC), Superfund Site in Newport, Rhode Island. Tetra Tech NUS (TtNUS) has conducted this five-year review under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Task Order (CTO) 282, as requested by the Navy. This five-year review addresses two operable units at two NSN sites which have had remedial actions implemented as of the writing of this five-year review:

- Site 01 - McAllister Point Landfill, Source Control Operable Unit; and
- Site 13 - Tank Farm Five, Interim Remedial Action for Tanks 53 and 56, to address the Groundwater Containment Operable Unit.

These two sites are included in this first five-year review of NSN, as appropriate for their progress in remediation, pursuant to the U.S. Environmental Protection Agency's (EPA) Supplemental Five-Year Review Guidance (Office of Solid Waste and Emergency Response (OSWER) Directive 9355.7-02A, July 1994). The other NSN sites and study areas (defined in the Federal Facility Agreement, FFA), are in various stages of investigation and are therefore not included in this first five-year review. It is recommended that the investigations for these sites continue as planned (see summary below). Interim measures have been implemented, or are scheduled to be implemented, to restrict access to these sites and study areas under investigation. Each of the sites and study areas are listed below with interim measures that have been or are to be implemented by the Navy, and with their respective FFA investigation schedules.

These sites and study areas include:

Study Area 04 – Coddington Cove Rubble Fill Area – Fence restricts access.

Draft SI Work Plan	June 28, 2004
Draft SI	September 7, 2005
Draft RI Work Plan	November 23, 2006
Draft RI	February 3, 2008
Draft FS	January 18, 2009
Draft Proposed Plan	November 28, 2009
Draft ROD	August 3, 2010

Study Area 07 – Tank Farm No. 1– Fence restricts access.

Draft SI Work Plan	February 13, 2004
Draft SI	April 25, 2005
Draft RI Work Plan	April 26, 2006
Draft RI	July 7, 2007

Draft FS	June 20, 2008
Draft Proposed Plan	May 3, 2009
Draft ROD	January 6, 2010

Study Area 08 – Naval Underwater Warfare Center (NUWC) Disposal Area – Posting signs and launching a public awareness campaign in early 2000.

Draft SI	March 25, 2003
Draft RI Work Plan	March 26, 2004
Draft RI	March 8, 2005
Draft FS	February 20, 2006
Draft Proposed Plan	January 9, 2007

Site 09 – Old Fire Fighting Training Area – Fence restricts access.

Draft FS	February 24, 2001
Draft Proposed Plan	September 7, 2002
Draft ROD	May 6, 2003

Study Area 10 – Tank Farm No. 2 – Fence restricts access.

Draft SI Work Plan	February 13, 2004
Draft SI	April 25, 2005
Draft RI Work Plan	April 26, 2006
Draft RI	July 7, 2007
Draft FS	June 20, 2008
Draft Proposed Plan	May 3, 2009
Draft ROD	January 6, 2010

Study Area 11 - Tank Farm No. 3 – Fence restricts access.

Draft SI Work Plan	February 13, 2004
Draft SI	April 25, 2005
Draft RI Work Plan	April 26, 2006
Draft RI	July 7, 2007
Draft FS	June 20, 2008
Draft Proposed Plan	May 3, 2009
Draft ROD	January 6, 2010

Site 12 – Tank Farm No. 4 – Fence to be installed in early 2000.

Draft RI Work Plan	March 22, 2004
Draft RI	June 2, 2005
Draft FS	May 17, 2006
Draft Proposed Plan	March 30, 2007
Draft ROD	December 3 2007

Site 13 – Tank Farm No. 5– Fence restricts access.

Draft FS	December 30, 2002
Draft Proposed Plan	September 15, 2003
Draft ROD	March 16, 2004

Study Area 17 – Gould Island Electroplating Shop– Liquid hazardous materials, asbestos, and lead-based paint to be removed in 2000. Fence restricts access.

Draft SI	August 16, 2000
Draft RI Work Plan	January 29, 2003
Draft RI	October 27, 2004
Draft FS	October 7, 2005
Draft Proposed Plan	August 20, 2006
Draft ROD	April 25, 2007

Study Area 19 – Derecktor Shipyard– Fence restricts access.

Draft Proposed Plan	January 11, 2004
Draft ROD	July 5, 2004

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121 (c) and National Oil and Hazardous Substances Contingency Plan (NCP) Section 300.400(f)(4)(ii) require a review to be conducted, at a minimum, every five (5) years after the initiation of the selected remedial action (RA) at each site. The purpose of the review is to ensure that the selected remedial action remains protective of human health and the environment and is functioning as designed. As directed by EPA, this five-year review is a "Type Ia" review. The Type Ia review emphasizes only relevant protectiveness factors, analyzed at a standard of review appropriate for sites where response is ongoing. Sites generally qualify for a Type Ia review until construction is completed and the site qualifies for listing on the Construction Completion List (CCL) (OSWER Directive 9355.7-02A, July 1994).

The activities conducted for the five-year review were based on EPA's Supplemental Five-Year Review Guidance (OSWER Directive 9355.7-02A, July 1994) and an EPA Region I letter to the Navy dated March 10, 1999. According to the OSWER directive referenced above, a Type Ia review is to include a document review of the ROD Summary and monitoring information. The report is to include an introduction; a discussion of remedial objectives; areas of noncompliance with those objectives; recommendations; a statement on whether the remedy remains protective; and notice of the next five-year review. This information is included in the sections which follow, for each of the two applicable sites addressed under this five-year review.

2.0 McALLISTER POINT LANDFILL (SITE 01) – SOURCE CONTROL OPERABLE UNIT

The sections below present information required for the Type Ia five-year review for the McAllister Point Landfill, as referenced in the EPA OSWER Directive 9355.7-02A, July 1994.

2.1 SITE CHARACTERISTICS

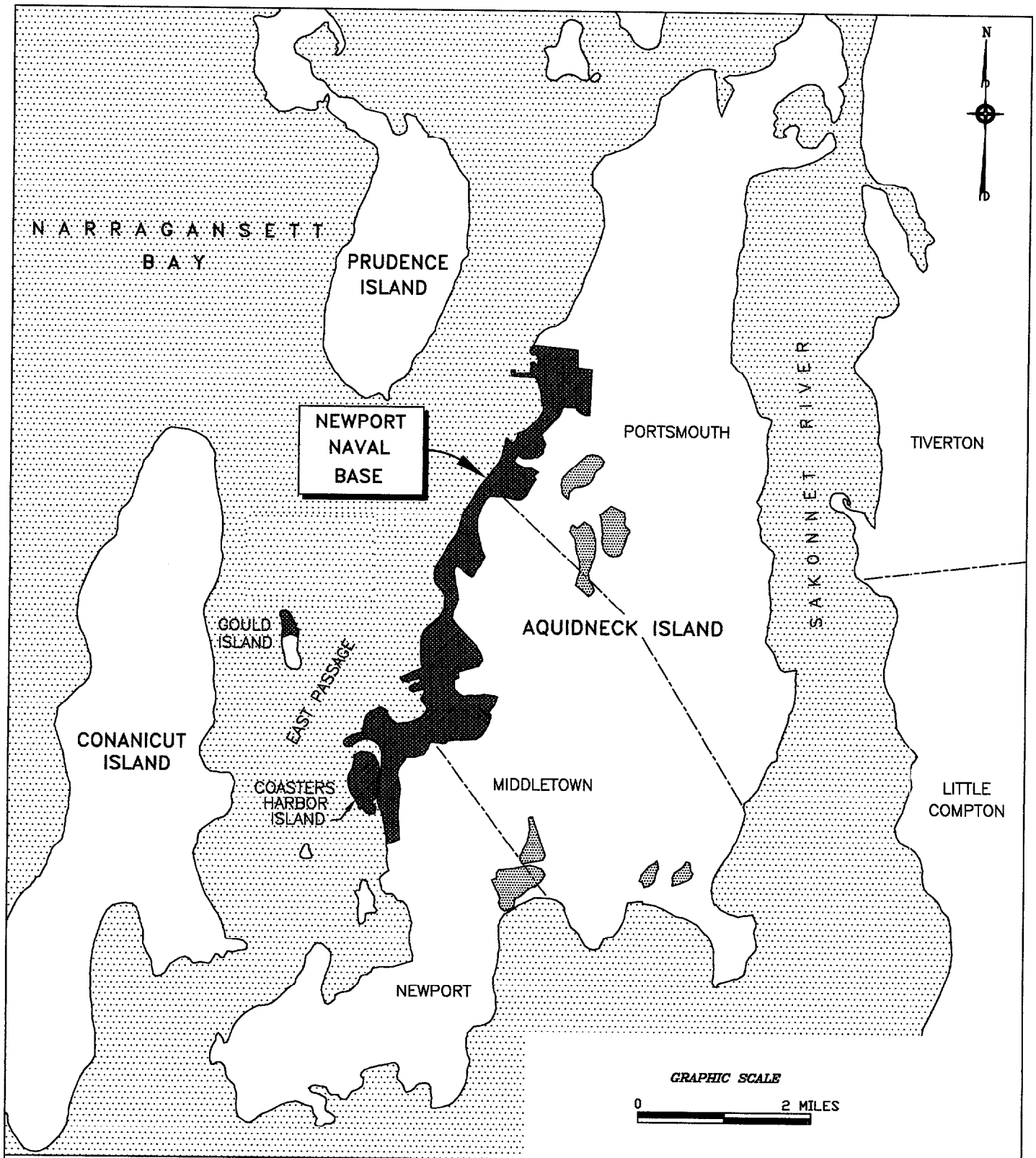
Background information including a brief site description and site history of the McAllister Point Landfill is discussed below.

Physical Characteristics

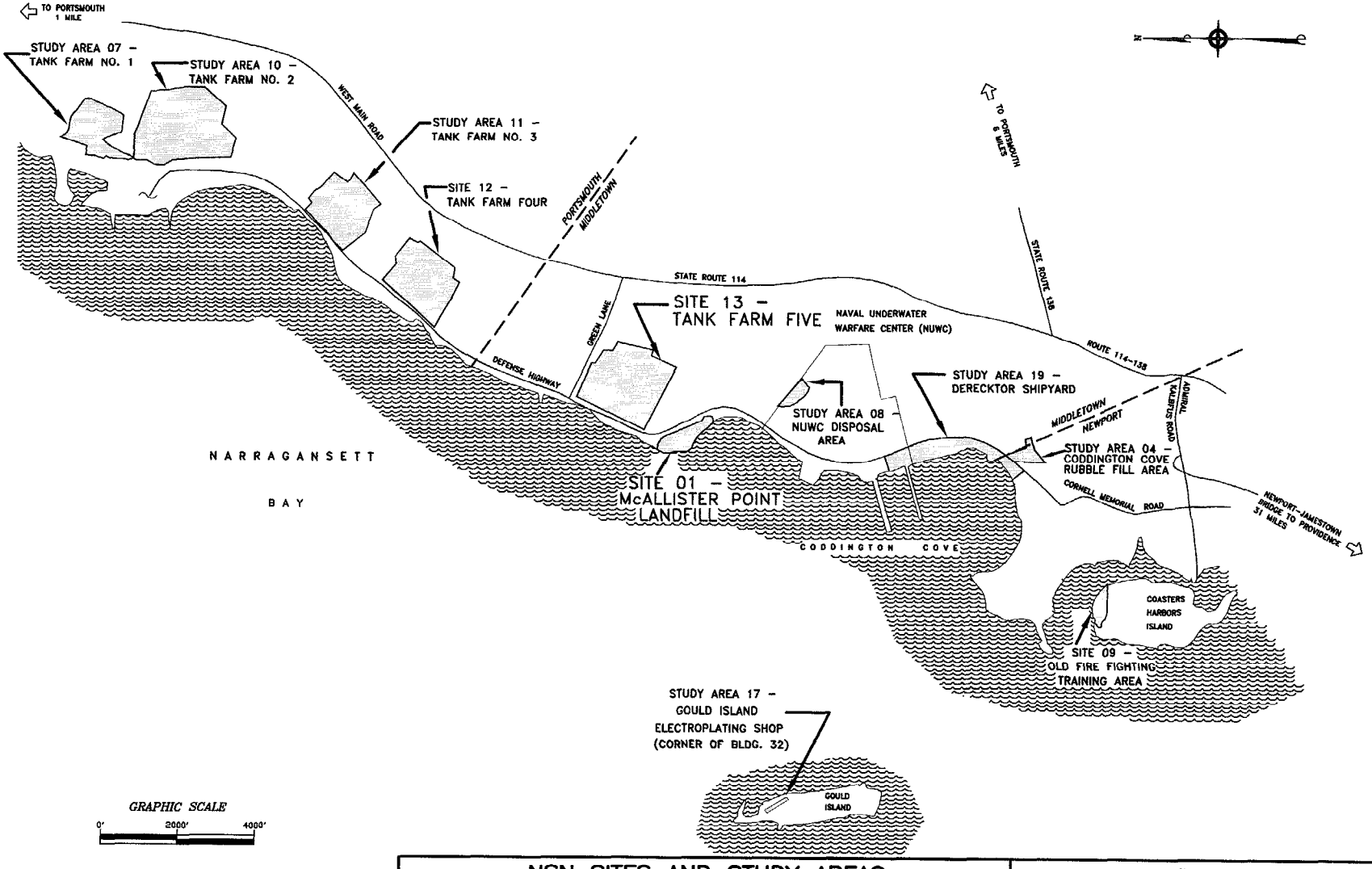
NSN is located in Middletown, Rhode Island, on the west shore of Aquidneck Island, facing the east passage of Narragansett Bay (Figure 1). McAllister Point Landfill (Site 01), part of NSN, covers approximately 11.5 acres in the central portion of the NSN facility, and is situated between the Defense Highway (to the east) and Narragansett Bay (to the north, south, and west) (Figure 2). A right-of-way for the Rhode Island Department of Transportation runs in a north-south direction along the eastern side of the site, parallel to the Defense Highway. Access to the site is via an access road off of Defense Highway, through a gate in the south-central portion of the site (Figure 3).

Currently, the landfill is covered by a multi-media low-permeability cap that prevents direct exposure to and further erosion of landfill materials. This cap was constructed in 1995 and 1996 as part of the remedial action described below in Section 2.2. The surface of the cap is vegetated and graded to promote runoff of precipitation, thus minimizing potential infiltration that could cause further leaching of landfill contaminants. The toe of the landfill slope facing Narragansett Bay is covered with a stone revetment to protect the cap from wave erosion. The capped area, excluding the revetment, is fenced. Access to the shoreline adjacent to the landfill is not entirely restricted.

A passive gas vent system was installed during construction of the cap to dissipate potential offgas buildup that could disturb the capping materials. A network of groundwater monitoring wells on site are available for use as part of the long-term monitoring program.

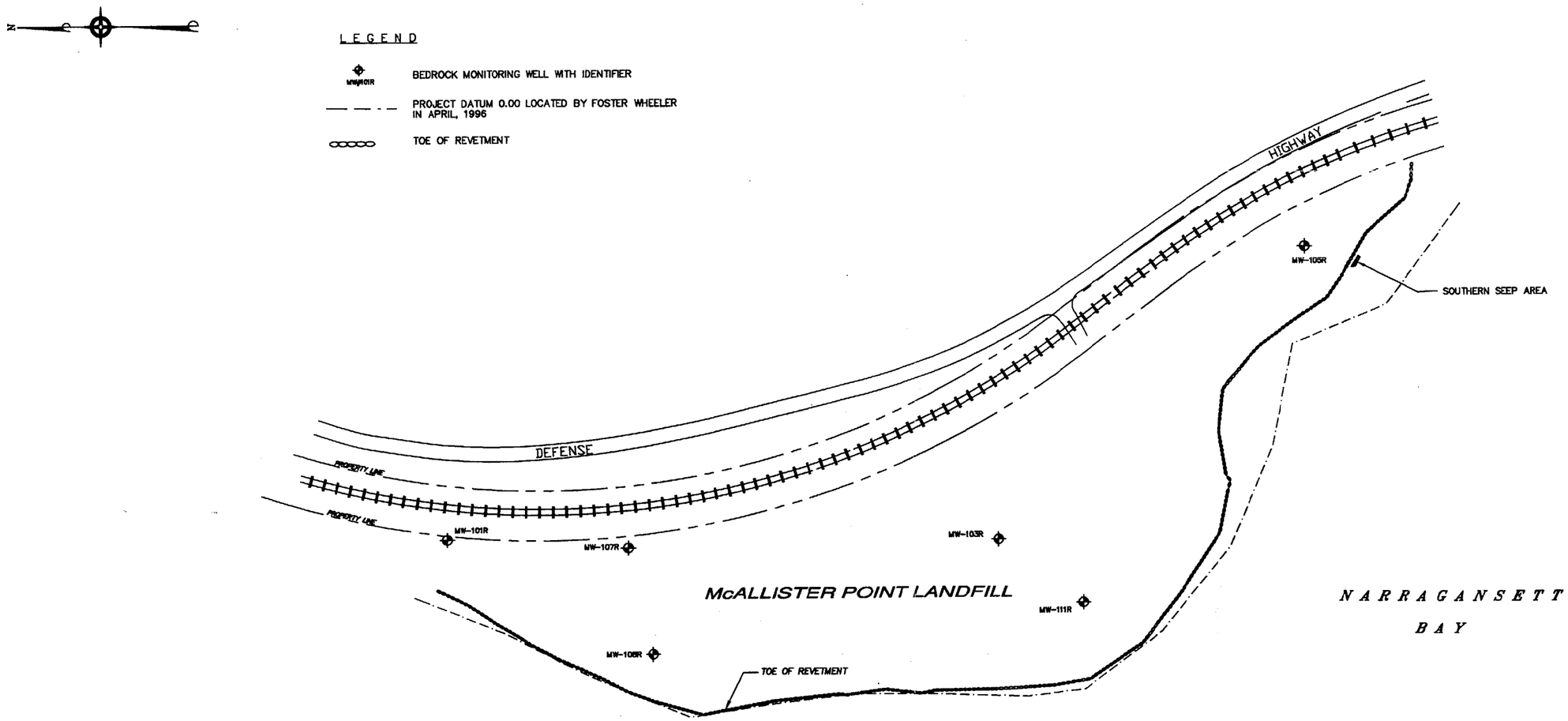


SITE LOCUS			FIGURE 1
NAVAL STATION NEWPORT			TETRA TECH NUS, INC.
NEWPORT, RHODE ISLAND			55 Jonspin Road Wilmington, MA 01887 (978)658-7899
DRAWN BY:	D.W. MACDOUGALL	REV.:	0
CHECKED BY:	B. O'NEILL	DATE:	SEPTEMBER 29, 1999
SCALE:	AS NOTED	ACAD NAME:	C:\DWG\NAVY\MC_PT\SITE_LOC



NSN SITES AND STUDY AREAS			FIGURE 2
NAVAL STATION NEWPORT			
NEWPORT, RHODE ISLAND			
DRAWN BY:	D.W. MACDOUGALL	REV.:	0
CHECKED BY:	B. O'NEILL	DATE:	OCTOBER 14, 1999
SCALE:	AS NOTED	FILE NO.:	C:\DWG\NAVY\MC_PT\SITE_MAP

TETRA TECH NUS, INC.
55 Jonspin Road Wilmington, MA 01887
(978)658–7899



NOTES:
1. PLAN NOT TO BE USED FOR DESIGN.
2. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
3. SITE FEATURES COMPILED FORM A PLAN BY TRC, 1993.

GRAPHIC SCALE

0' 200' 400'

1 INCH = 200 FEET

McALLISTER POINT LANDFILL			FIGURE 3
NAVAL STATION NEWPORT			TETRA TECH NUS, INC.
NEWPORT, RHODE ISLAND			55 Jonspin Road Wilmington, MA 01887 (978)658-7899
DRAWN BY:	A. PUTNAM	REV.:	0
CHECKED BY:	R. O'NEILL	DATE:	SEPTEMBER 29, 1999
SCALE:	1" = 200'	FILE NO.:	I:\DWG\NAVY\MC_PT\LANDFILL.DWG

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CTO 282

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Site History

McAllister Point Landfill was the site of a sanitary landfill that operated over a 20-year period. From 1955 until the mid-1970's the site accepted all wastes generated at the Naval complex. The landfill received waste from all operational areas (machine shops, ship repair, etc.), Navy housing areas (domestic refuse), and from the 55 ships homeported at Newport prior to 1973 (approximately fourteen 40-cubic yard containers each day). The materials disposed of at the site reportedly included spent acids, paints, solvents, waste oils (diesel, lubrication, and fuel), polychlorinated biphenyl (PCB)-contaminated transformer oil; domestic refuse; and construction debris.

During the period of 1955 through 1964, wastes were trucked to the site, spread out with a bulldozer, and covered. In the late 1950's or early 1960's, an incinerator was built at the landfill. From that time through about 1970, approximately 98 percent of all the wastes were burned before being disposed of in the landfill. The incinerator was closed around 1970 due to the resultant air emissions. During the remaining years that the site was operational, all wastes were again disposed of directly into the landfill. Based on a review of aerial photographs of the site covering the period from 1965 through 1975, a change in the shape of the shoreline in the central portion of the site is evident, indicating filling of Narragansett Bay in this area. After disposal activities ceased in 1973, a three-foot thick covering of clay/silt was reportedly placed over the central portion of the landfill, and the site then remained inactive.

In November 1989, NSN, including the landfill, was listed on the EPA's National Priority List (NPL) of abandoned or uncontrolled hazardous waste sites subject to requirements of CERCLA and the Superfund Amendments and Reauthorization Act of 1986 (SARA). Following completion of the Phase I Remedial Investigation by TRC, a Record of Decision (ROD) was signed by EPA and the Navy in September 1993 that selected a multi-media, low permeability cap as a source control measure for the landfill, as discussed below in Section 2.2. Construction of the landfill cap commenced in 1995, and was completed in 1996, when the landfill was formally closed in compliance with a Consent Decree Agreement between the Navy and EPA.

Additional information on site use and history can be found in the Draft Final Remedial Investigation Report, Revision 1(B&RE, April 1997).

2.2 DISCUSSION OF REMEDIAL OBJECTIVES

As part of the Draft Final Focused Feasibility Study (FFS), remedial action objectives were developed for the site to aid in the development and screening of response alternatives, to mitigate existing and future potential threats to human health and the environment. As summarized in the ROD, these remedial action objectives were:

- To minimize potential environmental impacts by minimizing off-site migration of potentially contaminated surface soils, and by limiting the infiltration of precipitation to the underlying waste within the landfill area, thereby minimizing leachate generation; and

- To minimize potential risk to human health associated with exposure to the landfill area.

The selected remedy (Alternative 4) for McAllister Point Landfill is a "source control" alternative, designed to provide containment and isolation of the landfill contents, control of leachate generation as a result of infiltration, protection against surface erosion and landfill gas migration, and the performance of additional site investigations, as discussed below. (It is noted that the management of contaminant migration at the site via groundwater, sediment, and landfill gas, is being addressed under a second operable unit, and through additional site investigations. Information addressing management of migration issues is presented in the "Feasibility Study (FS) for Marine Sediment/Management of Migration" (TtNUS, February 1999). The FS was developed to address marine sediment, groundwater, and landfill gas migration concerns at the landfill. The Draft Record of Decision for Marine Sediment/Management of Migration which presents the Selected Remedy was submitted to the EPA and the Rhode Island Department of Environmental Management (RIDEM) in August 1999.)

As stated in the 1993 ROD, the selected "source control" remedy is comprised of the following components:

- Capping of the site with a RCRA Subtitle C multi-layer cap;
- Establishing landfill gas controls to manage landfill gas migration;
- Constructing surface controls to minimize erosion and manage runoff;
- Fencing and institutional controls (deed restrictions) to control site access and future site use;
- Operation and maintenance and site monitoring; and
- Five-year review.

In addition, the ROD contains provisions for undertaking additional studies which include:

- Determining if additional measures, beyond capping, must be taken to reduce the amount of groundwater in contact with the contaminated materials of the landfill;

- Determining the nature and extent of groundwater contamination and whether additional measures, beyond capping, are necessary to meet federal or state groundwater standards and to reduce to acceptable levels any unacceptable risks to human health or the environment from groundwater contamination;

- Determining whether "hot spots" (isolated areas of higher concentrations of contaminants) within the landfill materials, if present, will need to be addressed by a separate remedial action or can be addressed by the landfill cap; and

- Determining the nature and extent of any near-shore sediments that have been affected by site-related contamination, and whether they will need to be addressed by a separate remedial action or whether they can be addressed through consolidation under the landfill cap.

Studies implemented to accomplish these additional objectives include the ongoing quarterly groundwater monitoring being conducted by Foster Wheeler Environmental Corporation (FWENC) as part of the Source Control Operable Unit Operation and Maintenance (O&M) activities, and the FS (TtNUS, February 1999) and Final ROD for Marine Sediment/Management of Migration (U.S. Navy, anticipated December 1999 or January 2000).

The closure activities for the McAllister Point Landfill (Source Control) were completed by FWENC in 1996, and consisted of the following:

- Construction of heavy armor stone revetment to protect the western slope of the landfill from wave erosion;
- Re-grading and reconsolidation of waste material;
- Clean-up of exposed debris within close proximity to the shoreline;
- Covering the fill area with a RCRA Subtitle C multi-layer cap;
- Installing a passive gas collection venting system;
- Installing surface controls to minimize erosion and collect runoff;
- Installing a perimeter chain-link fence and implementing land use controls to control site access;
- Revegetation planting of upland habitat; and

- Installing groundwater monitoring wells to replace the wells that were destroyed during capping of the landfill.

A discussion of applicable or relevant and appropriate federal and state requirements (ARARs) that apply to this site and this remedial action is presented in Section XI, Part B, of the ROD. (As stated in the ROD, "no chemical-specific ARARs are applicable to the selected remedial action".)

Listed below is a summary of the major milestones and reports completed since the signing of the ROD:

- The ROD for the Source Control Operable Unit of the McAllister Point Landfill (Site 01) was signed by the NSN Commanding Officer and the Acting Administrator of EPA, Region I, in September 1993, with RIDEM concurrence.

- The source control remedial action was implemented between 1995 and 1996, when the landfill was closed in compliance with a Consent Decree Agreement between the Navy and EPA.

- The final "Certification Report for Remedial Action" (by Brown & Root Environmental, now TtNUS) was submitted to the Navy, EPA, and RIDEM in February 1997. The report documents and certifies that the methods, procedures, and inspection and testing activities conducted to close the landfill were performed in accordance with the EPA-approved 100 percent design project specifications and drawings, and the Material Quality Assurance/Construction Quality Assurance Plan. The data collected during the project was used as the basis to certify that the landfill was closed in accordance with the project specifications and drawings.

- Under contract to the Navy, FWENC prepared and submitted the "Operation and Maintenance (O&M) Plan" in March 1997.

- The required quarterly and annual reports summarizing: sampling of groundwater and stormwater, and sampling or field screening of landfill gas, as applicable; O&M activities conducted at the landfill; and any discrepancies or variances from the O&M Plan were submitted by FWENC to the Navy, EPA, and RIDEM, as listed below. The O&M program consists of inspecting and repairing system components, as necessary, and collecting and analyzing groundwater, stormwater, and landfill gas samples:

    - Second Quarter Report (April – June 1997) submitted January 1998 (first sampling performed in March 1997)

- Third Quarter Report (July – September 1997) submitted December 1997 (groundwater and landfill vent gas sampling performed in June - July 1997)

- Fourth Quarter Report (October – December 1997) submitted January 1998 (sampling performed in September 1997)

- First Annual Report – O&M Activities (summarizes activities and results from 1997, the initial year of post-closure monitoring) submitted September 1998

- Fifth Quarter Report (January - March 1998) submitted May 1998 (sampling performed in January 1998)

- Sixth Quarter Report (April – June 1998) submitted August 1998 (sampling performed in April 1998)

- Seventh Quarter Report (July – September 1998) submitted November 1998 (groundwater sampling performed in July 1998; landfill vent gas samples for laboratory analysis and field screening, collected in August 1998)

- Eighth Quarter Report (October – December 1998) submitted March 1999 (groundwater sampling and landfill vent gas field screening performed in October 1998)

- Second Annual Report – O&M Activities (summarizes activities and results from 1998, the second year of post-closure monitoring) submitted March 1999

- Ninth Quarter Report (January – March 1999) submitted June 1999 (no groundwater sampling performed this quarter; landfill vent gas field screening and laboratory samples collected between March and April 1999)

The post-closure O&M activities, begun in March 1997, have now been conducted for over two years, with required summary reports submitted to EPA and RIDEM as detailed above. The O&M activities included quarterly measurement of groundwater levels, quarterly groundwater sampling, quarterly facility inspections, and landfill gas monitoring (field screening and laboratory analysis). The results of these activities, including all analytical data, are presented in the quarterly and annual reports listed above. A brief overview of the results of the O&M activities and sampling is presented below.

Groundwater Sampling and Analysis

As stated in the 1998 Draft Annual Report – O&M Activities, groundwater samples were collected for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total and dissolved metals, and wet chemistry parameters. The report also states that groundwater data was subjected to a qualitative evaluation of changes in chemical concentrations over time. The reports generally indicate that some contaminant concentrations in groundwater have decreased over time, including xylene concentrations in several wells, and several SVOCs. For total VOCs, the results showed a high degree of variability and no trends were identified.

The reports indicate that metals groundwater results are variable. Some monitoring wells did appear to show increasing concentrations of some metals over the course of the two-year quarterly sampling program, including barium, nickel, and zinc at MW-105S, and zinc at MW-103S.

The groundwater monitoring results supporting these findings, as presented in the "Annual Report – O&M Activities – 1998," are attached as Appendix A.

It is noted that the FS for Marine Sediment/Management of Migration concluded that no cleanup actions are recommended at this time for groundwater; however, it is recommended that additional data are needed to evaluate the trends of contaminant levels in the future. The Navy will continue environmental monitoring for a minimum of a 30 year period, as agreed to in the Source Control ROD, to assess the need for future actions.

Landfill Gas Monitoring and Analysis

Landfill vent gas samples and ambient air samples were collected in July 1997, August 1998 and in March-April 1999. Samples were analyzed in an off site laboratory for VOCs in July 1997, and for VOCs, SVOCs, methane, and total hydrocarbons during the other two sampling events. Vent gas samples were also collected and field-screened for percent oxygen, percent carbon dioxide, hydrogen sulfide, percent methane, and percent lower explosive limit (LEL) during these events, and in October 1998.

In general, maximum concentrations of VOCs were observed in gas vent samples collected from the center of the landfill, with lower levels of VOCs observed in the southern perimeter riser pipes and northern gas vents. Predominant VOCs included freon 12, freon 114, acetone, 2-butanone, and tetrahydrofuran. The highest concentrations of total hydrocarbons and methane were also reported primarily in the central portion of the landfill. Samples from the northern perimeter riser pipes also

contained some of the higher levels of total hydrocarbons. All analytical and field-screening results are presented in the applicable quarterly and annual monitoring reports listed above.

Although contaminants were detected in direct vent gas samples, it is noted that ambient air samples collected from the landfill perimeter indicated only trace levels of some contaminants. It is noted that the FS for Marine Sediment/Management of Migration concluded that no cleanup actions are recommended at this time for landfill gas, however, the Navy will continue monitoring, as agreed to in the Source Control ROD, to assess the need for future actions.

Stormwater Sampling

The O&M Plan requires that one set of stormwater samples be collected and analyzed from the southern culvert outlet during the two-year period following closure of the landfill (between January 1997 and December 1998). However, no precipitation events of sufficient magnitude to produce runoff at the designated surface water sampling location were observed, therefore, stormwater sampling has not yet taken place during the monitoring program. As stated in the 1998 Draft Annual Report – O&M Activities, the southern culvert was inspected during each of the quarterly sampling events and was found to be dry. As of the last quarterly report (dated June 1999), provisions had been made to allow for more continuous monitoring of stormwater runoff at the designated location, for sampling purposes.

Inspection of System Components

In addition to the sampling and analysis activities summarized above, quarterly or semiannual inspections (as specified in the O&M Plan) are conducted of the source control remedial action system components, including: the landfill cap; stormwater drainage system; stone revetment; gas monitoring wells and vents; access road and entrance ramp; perimeter fence; vegetation; and groundwater monitoring system.

One recurring problem that had been noted was erosion observed along the landfill access road at the site entrance; however, this problem was corrected in early 1998. The repairs were effective in reducing rain-related washouts. In addition, several small animal burrows have been observed in the soil covering the impermeable landfill cap, however, the burrow holes did not appear to extend through the impermeable layers of the cap.

As detailed in the O&M inspection reports listed above, all system components continue to perform satisfactorily.

2.3 AREAS OF NONCOMPLIANCE

Any substantial aspect of the remedial action that fails to conform to remedial objectives would be considered an area of noncompliance. Based on the information evaluated as part of this Type Ia five-year review, no substantial areas of noncompliance with the remedial objectives were noted.

Minor discrepancies or problem areas which have already been addressed are noted below, however, these do not constitute substantial areas of noncompliance:

- The stormwater samples to be collected from the southern culvert, per the O&M Plan, have not yet been collected, since runoff at the designated sample location has not yet been observed, according to the quarterly and annual O&M reports. Per FWENC, provisions have been made to allow for more continuous monitoring of the designated location for observations of potential runoff and sample collection.

- Previous erosion that had taken place along the access road has been repaired, and the repairs are reported to be effectively preventing additional rain-related washouts along the access road.

- "Institutional controls" (deed restrictions) were listed in the ROD as a component of the source control remedy. However, a Navy policy clarification has determined that the Navy is not authorized to implement deed restrictions, therefore, the deed itself has not been modified. The Navy can, however, enter into Land Use Control agreements with regulators regarding future use of the property while under Navy control. In addition, the Navy can request that GSA include covenants to the deed prohibiting certain uses only at the time the property leaves government ownership. In place of actual modifications to the deed, the Navy has implemented "land use controls," e.g., the property is fenced and gated, so that the Navy controls the use of, and access to, the property.

2.4 RECOMMENDATIONS

No further response actions are required at this time.

Ongoing O&M activities are continuing, and are summarized in quarterly and annual reports. Trends in groundwater contaminant levels should continue to be evaluated and reported under the O&M sampling activities. Additional data obtained from sampling of landfill vent gases and ambient air should also continue to be evaluated in future O&M activities, to assess the need for active gas collection and treatment.

In the event that the property is excessed by the Navy in the future, the deed restrictions which are listed as a component of the source control remedy should be implemented by GSA at that time.

2.5 STATEMENT ON PROTECTIVENESS

The purpose of the five-year review is to ensure that the selected remedial action remains protective of human health and the environment and is functioning as designed. The source control remedy selected for McAllister Point Landfill has been successfully implemented, and remains protective of human health and the environment. Long-term operation and maintenance, including groundwater and landfill gas sampling, is ongoing. As stated in the Final Record of Decision for Marine Sediment/Management of Migration, McAllister Point Landfill, based on data evaluated thus far, "neither groundwater nor landfill gases at the site pose an unacceptable risk to people or the environment". Signing of the ROD is anticipated in December 1999 or early 2000.

3.0 TANK FARM FIVE, TANKS 53 AND 56 (SITE 13) – GROUNDWATER CONTAINMENT OPERABLE UNIT

The sections below present information required for the Type Ia five-year review for Tank Farm Five, Tanks 53 and 56, as referenced in the EPA OSWER Directive 9355.7-02A, July 1994.

3.1 SITE CHARACTERISTICS

Background information including a brief site description and site history of Tank Farm Five, Tanks 53 and 56, is discussed below.

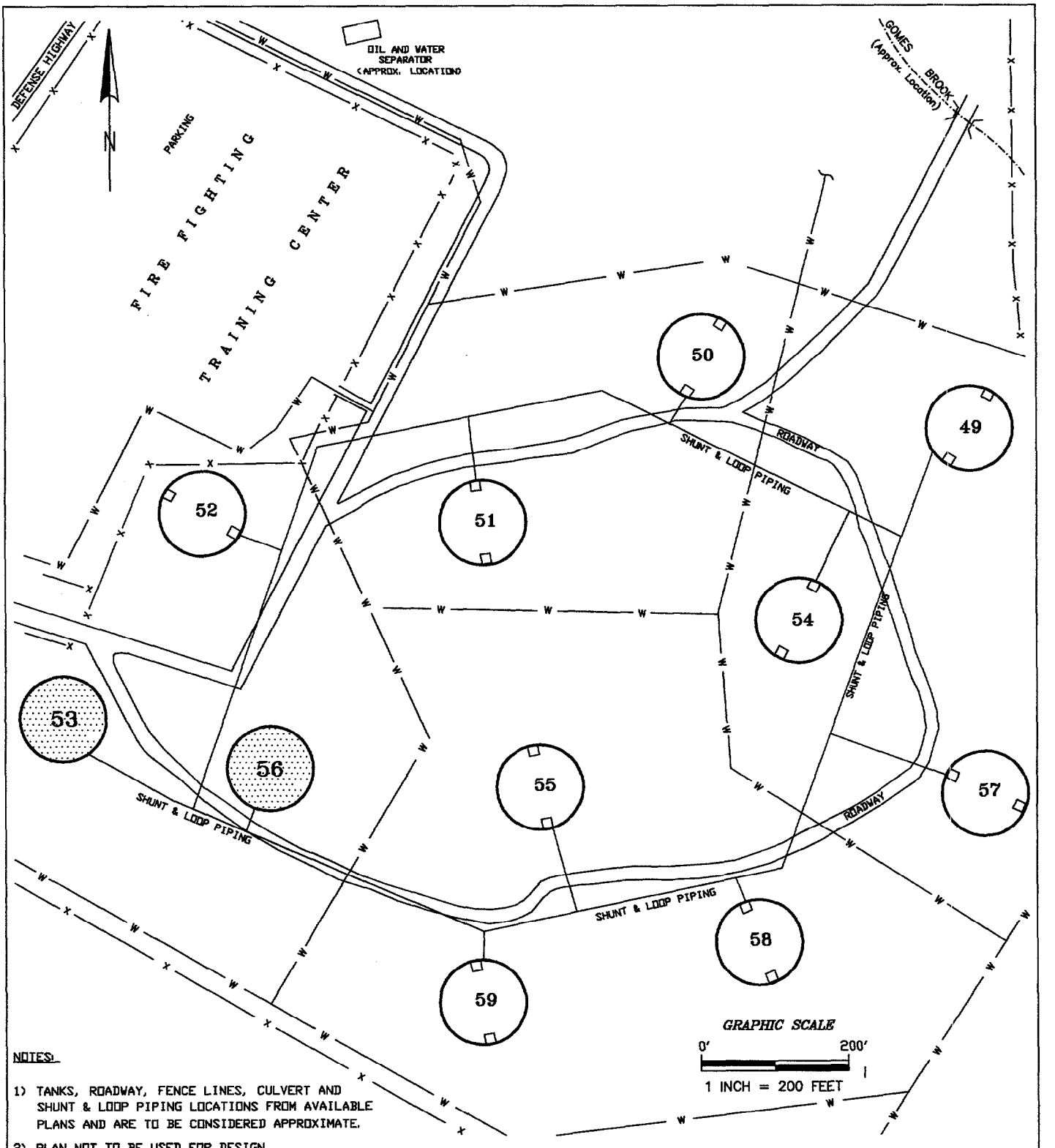
Physical Characteristics

Tank Farm Five, Tanks 53 and 56, is located in the central portion of the NSN facilities, in Middletown, Rhode Island (Figure 2). The 85-acre tank farm is the site of eleven underground storage tanks (USTs), numbered 49 through 59 (Figure 4). Tanks 53 and 56 are located in the western portion of the Tank Farm Five site. A paved road provides access to the site, passing between the tank locations in a loop. Topography generally slopes to the north. Gomes Brook is located approximately 1,200 feet north of Tanks 53 and 56, passing through the northeastern portion of the site and draining toward the west into Narragansett Bay. Tank Farm Five is bordered to the northwest by Defense Highway, to the southwest by a cemetery, to the east by residences, and to the northeast by Greene's Lane.

During 1942, the tanks were constructed of reinforced concrete and had a capacity of approximately 2.52 million gallons. The tanks were constructed in a blasted bedrock socket. The tanks are approximately 116 feet in diameter and 33 feet deep. The tanks were covered by approximately 4 feet of soil and were surrounded by a 4-foot wide, crushed-rock ring drain system. The ring drain system was installed to remove groundwater from around the tank and to prevent tank damage caused by hydraulic stresses and tank flotation.

Site History

The tanks were originally used to store fuel oils from approximately World War II through 1974. In 1975, as part of an oil recovery program, the Navy began using the tanks to store used oil for alternate use as a heating fuel oil (TRC, 1993a). In 1982, RIDEM adopted hazardous waste regulations that were applicable to the waste oils stored in Tanks 53 and 56. Subsequent sampling of the waste oils in 1983 indicated that the oil and sludge layers were considered hazardous due to elevated concentrations of lead. Also, the water phase was found to contain dissolved hydrocarbon compounds.



NOTES:

1) TANKS, ROADWAY, FENCE LINES, CULVERT AND SHUNT & LOOP PIPING LOCATIONS FROM AVAILABLE PLANS AND ARE TO BE CONSIDERED APPROXIMATE.

2) PLAN NOT TO BE USED FOR DESIGN.

TANK FARM 5 – TANKS 53 & 56 LOCATION	FIGURE 4
NAVAL STATION NEWPORT	TETRA TECH NUS, INC.
NEWPORT, RI	55 Jonspin Road Wilmington, MA 01887 (978)658-7899

DRAWN BY:	R.G. DEWSNAP	REV.:	0
CHECKED BY:	B. O'NEILL	DATE:	SEPTEMBER 29, 1998
SCALE:	1" = 200'	ACAD NAME:	DWG\NETC\CTO143\W_P_ADD\FIG_3.DWG

In 1984, the Navy decided to discontinue use of the tanks. In 1985, results of a groundwater sampling round from monitoring wells located within the Tank 53 ring drain indicated the presence of chlorinated and aromatic hydrocarbon compounds. In September 1985, RIDEM issued NSN a Hazardous Waste Facility Permit for Tanks 53 and 56, which included a stipulation for removing the contents and closing the tanks in accordance with federal hazardous waste regulations and in accordance with RIDEM requirements for USTs used for oil and hazardous substance storage.

Further investigations conducted in 1986 confirmed the presence of VOCs in the Tank 53 ring drain. Lower concentrations of VOCs were detected in groundwater up to 150 feet downgradient of Tank 53. In January 1990, oil was observed overflowing from the tank gauging chamber and onto the ground as a result of surface water entering the tank through cracks in the tank roof. The Navy took immediate action to lower the level in the tank to prevent further overflow. RIDEM issued an Immediate Compliance Order, which required that the Navy remove the contents of the tank, begin remediation of contaminated groundwater and soils surrounding the tank, and initiate an investigation to determine the extent of oil contamination in the vicinity of Tank 53.

In 1992, pursuant to the Immediate Compliance Order, the Navy completed the removal of sludge, oil, and water from the tank, and cleaned the interior surfaces of the tank. Also in 1992, an Interim Action ROD was signed by EPA and the Navy that selected a management of migration alternative consisting of groundwater extraction, treatment and discharge as an interim remedial action for the Tanks 53 and 56 site. Additional pertinent site activity since implementation of the Interim Action ROD is included below in Section 3.2.

Additional information on site use and history can also be found in the Remedial Investigation Report (TRC, 1992) and the Soil Investigation Report – Tank Farm Five – Tanks 53 and 56 (TRC, 1993c).

3.2 DISCUSSION OF REMEDIAL OBJECTIVES

Remedial action objectives were developed for the site to mitigate existing and future potential threats to human health and the environment. As summarized in the Interim Action ROD, these remedial action objectives were:

- To minimize further migration of the contaminated groundwater;
- To minimize any future negative impact to Gomes Brook and Narragansett Bay resulting from discharge of contaminated groundwater;
- To reduce the potential risk associated with the future ingestion of contaminated groundwater; and
- To reduce the time required for restoration of the aquifer.

The selected management of migration remedy is comprised of the following components:

- Groundwater extraction to contain contaminated groundwater and prevent its migration and potential discharge to surface water bodies;
- Groundwater treatment using coagulation/filtration and UV oxidation to treat organic and inorganic contaminants;
- Discharge of treated groundwater to the local wastewater treatment facility;
- Continued groundwater monitoring to confirm the capture of contaminated groundwater.

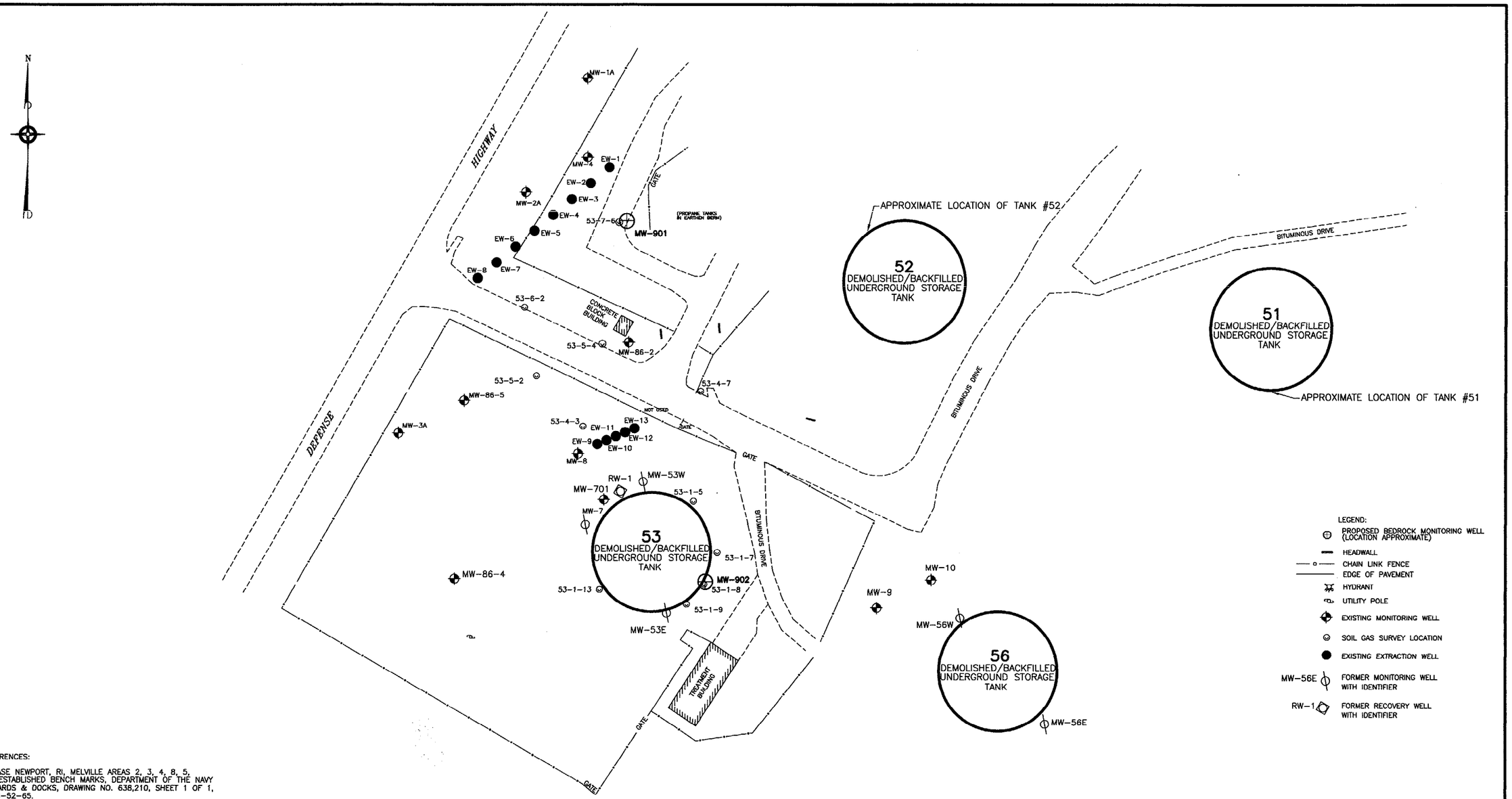
A more detailed description of the remedial components is provided in the Interim Action ROD.

In 1993, the design for the groundwater extraction and treatment/containment system was completed, and construction of the system was completed in December 1994. The system was designed to contain groundwater in the vicinity of Tank 53 and to prevent it from migrating further toward Narragansett Bay. The system consists of two sets of extraction wells and a treatment system. The first set of extraction wells (EW-9 through EW-13) is located approximately 60 to 70 feet northwest of Tank 53 and a second set (EW-1 through EW-8) is located approximately 280 feet northwest of Tank 53. In addition to the extraction wells, groundwater monitoring wells MW-1A, MW-2A, and MW-3A were installed downgradient of the second set of extraction wells (Figure 5).

The groundwater extraction and treatment system operated during the period from December 1994 to December 1996 when the system was shut down because analytical results for influent samples were below the cleanup levels established in the Interim Action ROD (cleanup levels from the ROD are presented in Table 1). Also within this time period (1995 to 1996) the Navy conducted a source removal action at Tank 53, as discussed below, which likely contributed to meeting the established cleanup levels in groundwater.

While the selected interim remedial action for the Tanks 53 and 56 site is a groundwater management of migration remedy, and does not have a "source control" component as part of the Interim Action ROD implemented under CERCLA, the Navy elected to also implement a separate source removal action. As stated in the Interim Action ROD, the soil contamination in the vicinity of Tanks 53 and 56, and soil cleanup strategies were to be evaluated separately: investigation and remediation of soil contamination at Tanks 53 and 56 are subject to RIDEM UST regulations, while the investigation and remediation of groundwater contamination is addressed under CERCLA, and by the Interim Action ROD signed by EPA and the Navy in September 1992.

Soil conditions at the tanks were investigated and reported separately, as summarized in "Soil Investigation, Tank Farm Five, Tanks 53 and 56" (TRC, 1993c). The report presented the Navy's



NOTES AND REFERENCES:

1. U.S. NAVAL BASE NEWPORT, RI, MELVILLE AREAS 2, 3, 4, 8, 5, LOCATION OF ESTABLISHED BENCH MARKS, DEPARTMENT OF THE NAVY BUREAU OF YARDS & DOCKS, DRAWING NO. 638,210, SHEET 1 OF 1, SKETCH NO. C-52-65.
   BM NO. 5 (TANK FARM NO. 5) IS A SQUARE CUT ON N.W. COR. OF R.R. BRIDGE ABUT'MT 83.5'W. OF INTERSECTION. BM ELEV. ARE REFERRED TO THE DATUM OF M.L.W.=0.00.
2. VERTICAL DATUM IS BASED ON LOCAL MEAN LOW WATER (SEE NOTE #2).
3. HORIZONTAL DATUM IS BASED ON THE STATE OF RHODE ISLAND GRID COORDINATE SYSTEM (NAD 1983).
4. PLAN NOT TO BE USED FOR DESIGN.
5. ALL LOCATIONS TO BE CONSIDERED APPROXIMATE.
6. SELECTED SOIL GAS AND MONITORING WELL LOCATIONS ARE SHOWN.
7. MW-701 MAY HAVE BEEN DAMAGED DURING TANK 53 DEMOLITION AND BACKFILLING.

GRAPHIC SCALE

0' 100' 200'

1 INCH = 100 FEET

TANKS 53 & 56 – WELL LOCATIONS			FIGURE 5
TANK FARM FIVE			TETRA TECH NUS, INC.
NAVAL STATION NEWPORT, NEWPORT, RI			55 Jonspin Road Wilmington, MA 01887 (978)658-7899
DRAWN BY:	R.G. DEWSNAP	REV.: 0	
CHECKED BY:	C. RACE	DATE: OCTOBER 14, 1999	
SCALE:	1" = 100'	FILE NO.:\DWG\NETC\TANKFRM5\PROPBED_A_1A	

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TABLE 1
GROUNDWATER CLEANUP LEVELS
TANKS 53 AND 56, TANK FARM FIVE
NAVAL STATION NEWPORT, NEWPORT, RHODE ISLAND

Carcinogenic Contaminants of Concern	Cleanup Level (ppb)	Basis	Level of Risk
VOLATILE ORGANICS			
Benzene	5	MCL	2×10^{-06}
Tetrachloroethene	5	MCL	4×10^{-06}
Trichloroethene	5	MCL	6×10^{-07}
Vinyl Chloride	2	MCL	4×10^{-05}
INORGANICS			
Arsenic	50	MCL	*
Beryllium	1	MCL	5×10^{-05}
Lead	15	AL	NA
			SUM 1×10^{-04}

Non-carcinogenic Contaminants of Concern	Cleanup Level (ppb)	Basis	Target Endpoint of Toxicity	Hazard Index
VOLATILE ORGANICS				
1,2-Dichloroethene (cis-)	70	MCLG	Decreased hematocrit and hemoglobin	8×10^{-02}
1,2-Dichloroethene (trans-)	100	MCLG	Decreased hematocrit and hemoglobin	6×10^{-02}
1,1,1-Trichloroethane	200	MCLG	Liver	2×10^{-02}
INORGANICS				
Cadmium	5	MCLG	Proteinuria	1×10^{-01}
Chromium (Total)	100	MCLG	None observed	2×10^{-01}
Manganese	3650	Risk	CNS	1
Thallium	0.5	MCLG	Increased SGOT and LDH levels, alopecia	9×10^{-02}
				SUM 1

Note: The Hazard Index is summed for only those indicator compounds with the same or similar target endpoints.

MCL - Maximum Contaminant Level, National Primary Drinking Water Regulations, Final Rule Amendments to Safe Drinking Water Act (SDWA), U.S. EPA, Effective July 1992.

MCLG - Maximum Contaminant Level Goal, based on health considerations only, Final Rule Amendments to SDWA, U.S.EPA, Effective July 1992.

AL - Action Level representative of drinking water quality at the tap, U.S. EPA, May 7, 1991.

* The cleanup level for arsenic has been set at the MCL of 50 ppb. The carcinogenic risk posed by arsenic at 50 ppb in groundwater will be approximately 1 in 1,000. However, in light of recent studies indicating that many skin tumors arising from oral exposure to arsenic are non-lethal and in light of the possibility that the dose-response curve for the skin cancers may be sublinear (in which case the cancer potency factor used to generate risk estimates will be overstated), it is EPA policy to manage these risks downward by as much as a factor of ten. As a result, the carcinogenic risks for arsenic at this Site have been managed as if they were 1 in 10,000. (See EPA memorandum, "Recommended Agency Policy on the Carcinogenic Risk Associated with the Ingestion of Inorganic Arsenic" dated June 21, 1988).

Reference: This table is "Table 3" taken in its entirety, without revision, from the "Record of Decision for an Interim Remedial Action at Tank Farm 5, Tanks 53 and 56, Groundwater Operable Unit, Naval Education and Training Center, Newport, Rhode Island, September 1992".

selected remedial alternative for soil at Tanks 53 and 56, and from 1995 through 1996 contaminated soils surrounding Tank 53 were removed and disposed of off site under a RCRA action. It is noted that remediation of soil near Tank 56 was determined not necessary, based on sampling and analytical data. The ring drain at Tank 53 was re-constructed with clean stone/soils. However, the ring drain pumping system was not placed back into operation, rather, the tank was ballasted with clean water to address concerns about flotation.

Analytical results from 11 wells (monitoring and extraction wells) sampled during three events conducted between December 1996 and August 1997, following implementation of the interim remedial action, are summarized in the "Technical Memorandum – Summary of Analytical Results – Sample Round 3 for Tank 53 – Tank Farm 5" (B&R Environmental, 1997). Sample results are included for wells MW-2A, MW-3A, MW-4, MW-8, MW-86-1, MW-86-2, MW-86-4, MW-86-5, EW-7, EW-13, MW-701. Groundwater samples were analyzed for VOCs, SVOCs, metals, pesticides/PCBs, and petroleum hydrocarbons. Analytical results identify near detection limit concentrations of analytes in the first row of extraction wells (EW-9 to EW-13); no analytes have been detected in the perimeter extraction wells (EW-1 to EW-8) (B&R Environmental, 1997). The report states that results for potential contaminants of concern do not exceed current (August 1996) RIDEM Class GA groundwater quality standards. The report concludes that based on the analytical results from these events and from previous investigations "it appears that the removal action that the Navy conducted in the ring drain has effectively removed the source of contamination and concentrations of potential contaminants of concern have attenuated. Consequently, the extraction and treatment system should remain shut down."

The groundwater monitoring results supporting these findings, as presented in the "Technical Memorandum – Summary of Analytical Results – Sample Round 3 for Tank 53 – Tank Farm 5" (B&R Environmental, 1997), are attached as Appendix B.

A discussion of applicable or relevant and appropriate federal and state requirements (ARARs) that apply to this site and this remedial action is presented in Section XI, Part B, of the ROD. The groundwater cleanup levels established in the ROD are presented in Table 1.

Listed below is a summary of the major milestones and reports completed since the signing of the ROD:

- The ROD for the Interim Remedial Action – Groundwater Operable Unit – Tank Farm Five, Tanks 53 and 56, (Site 13) was signed by the NSN Commanding Officer and the Regional Administrator of EPA Region I in September 1992, with RIDEM concurrence.

- Construction of the groundwater and extraction treatment system was completed in December 1994, and the system was operated between 1994 and 1996, when the system was shut down because analytical results for influent samples were below the cleanup levels established in the Interim Action ROD.

- Post-remedial action groundwater sampling events conducted: December 1996, March 1997, and August 1997.

- Technical Memorandum – Summary of Analytical Results – Sample Round 1 for Tank 53 – Tank Farm 5 (B&R Environmental, March 1997). Summarizes results of first groundwater sampling event (post-remedial action).

- Technical Memorandum – Summary of Analytical Results – Sample Round 2 for Tank 53 – Tank Farm 5 (B&R Environmental, June 1997). Summarizes results of second groundwater sampling event (post-remedial action).

- Technical Memorandum – Summary of Analytical Results – Sample Round 3 for Tank 53 – Tank Farm 5 (B&R Environmental, 1997). Summarizes results of three groundwater sampling events, and recommends that the groundwater extraction and treatment system should remain shut down.

- February 17, 1998 letter from RIDEM to Navy approving demolition of six tanks at Tank Farm 5, and requesting the installation of two additional bedrock wells downgradient of Tank 53 in conjunction with the Tanks 53 and 56 groundwater investigation operable unit, and requesting the performance of a soil gas survey to assist in locating the wells in optimal locations.

- Final Work Plan Addendum 8, Passive Soil Gas Survey, Tanks 53 and 56, Tank Farm 5 (TtNUS, August 1998). Work Plan to scope the passive soil gas survey in order to assist in locating the RIDEM-requested bedrock monitoring wells at Tanks 53 and 56.

- Demolition of the tanks at Tank Farm 5 was completed in 1998. The tanks were imploded individually, with the demolition objective being to collapse and separate the tank roof from the tank walls while maintaining the basic structural integrity of the tank floor and side walls. A 15-foot layer of sand was placed into the tank to absorb the shock from the collapsing tank roof and to fill voids between the tank floor and roof. The ballast waters were removed from the tanks and pump rooms prior to sand placement. Following tank demolition, each tank site was backfilled with certified clean fill.

- Passive Soil Gas Investigation Report, Tanks 53 and 56, Tank Farm 5 (TtNUS, August 1999). Presents results of soil gas investigation and recommends proposed locations for two bedrock monitoring wells downgradient of Tank 53, per RIDEM request. (It is noted that the associated bedrock groundwater investigation is anticipated to be completed by January 2000.)

3.3 AREAS OF NONCOMPLIANCE

Any substantial aspect of the remedial action that fails to conform to remedial objectives would be considered an area of noncompliance. Based on the information evaluated as part of this Type Ia five-year review, no areas of noncompliance with the remedial objectives were noted.

3.4 RECOMMENDATIONS

No further response actions are required at this time. (Evaluation of additional groundwater sampling results will be conducted by the Navy following completion of the additional bedrock monitoring well installations and sampling requested by RIDEM.)

3.5 STATEMENT ON PROTECTIVENESS

The purpose of the five-year review is to ensure that the selected remedial action remains protective of human health and the environment and is functioning as designed. The groundwater management of migration remedy selected for Tank Farm 5, Tanks 53 and 56, has been successfully implemented. The system was shut down in December 1996 because analytical results for influent samples were below the cleanup levels established in the Interim Action ROD. Groundwater monitoring data indicates that contaminants do not remain on site at levels that pose an unacceptable risk to human health or the environment.

4.0 NEXT FIVE-YEAR REVIEW

Consistent with CERCLA and the NCP, a five-year review is to be performed five (5) years after the initiation of the selected remedial action at each site. Given that this first five-year review of NSN is occurring in 1999, the next five-year review will be due in 2004. Pursuant to EPA's Supplemental Five-Year Review Guidance (OSWER Directive 9355.7-02A, July 1994), any additional sites or operable units at NSN which initiate remedies under CERCLA subsequent to the two sites covered in this first five-year review should be incorporated into future reviews, as appropriate.

REFERENCES

Brown & Root Environmental, Certification Report for Remedial Action, McAllister Point Landfill Cap Construction, Naval Education and Training Center, Newport, Rhode Island, February 1997.

Brown & Root Environmental, Technical Memorandum, Summary of Analytical Results - Sample Round 1 for Tank 53, Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, March 1997.

Brown & Root Environmental, Remedial Investigation Report, McAllister Point Landfill, Naval Education and Training Center, Newport, Rhode Island, April 1997.

Brown & Root Environmental, Technical Memorandum, Summary of Analytical Results - Sample Round 2 for Tank 53, Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, June 1997.

Brown & Root Environmental, Technical Memorandum, Summary of Analytical Results - Sample Round 3 for Tank 53, Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, October 1997.

Foster Wheeler Environmental Corporation, Operations and Maintenance User Manual - McAllister Point Landfill, Naval Education and Training Center, Newport, Rhode Island, May 1997.

Foster Wheeler Environmental Corporation, Annual Monitoring Report, Operation and Maintenance Activities, January 1 to December 31, 1997, Site 01 - McAllister Point Landfill, Naval Education and Training Center, Newport, Rhode Island, September 1998.

Foster Wheeler Environmental Corporation, Annual Monitoring Report, Operation and Maintenance Activities, January 1 to December 31, 1998, Site 01 - McAllister Point Landfill, Naval Station Newport, Newport, Rhode Island, July 1999.

Foster Wheeler Environmental Corporation, Ninth Quarterly Report, Operation and Maintenance Activities, January 1 to March 31, 1999, Site 01 - McAllister Point Landfill, Naval Station Newport, Newport, Rhode Island, June 1999.

Rhode Island Department of Environmental Management (RIDEM), Letter from Warren S. Angell (Office of Waste Management) to Al Haring (U.S. Dept. of Navy, Environmental Restoration Branch), February 17, 1998.

Tetra Tech NUS, Inc. (TtNUS), Final Work Plan Addendum 8, Passive Soil Gas Survey, Tanks 53 and 56, Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, August 1998.

Tetra Tech NUS, Inc. (TtNUS), Passive Soil Gas Investigation Report, Tanks 53 and 56, Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, August 1999.

Tetra Tech NUS, Inc. (TtNUS), Feasibility Study for Marine Sediment/Management of Migration, McAllister Point Landfill, Naval Station Newport, Newport, Rhode Island, February 1999.

TRC, Final Report - Remedial Investigation (Technical Report and Risk Assessment Technical Report), Naval Education and Training Center, Newport, Rhode Island, Contract No. N62472-86-C-1282, January 1992.

TRC, Remedial Design Work Plan, Ground Water Treatment Interim Action near Tanks 53 and 56 at Tank Farm 5, Naval Education and Training Center, Newport, Rhode Island, January 1993a.

TRC, (Draft Final) Focused Feasibility Study Report, Site 01 – McAllister Point Landfill, Naval Education and Training Center, Newport, Rhode Island, January 1993b.

TRC, Soil Investigation, Tank Farm Five – Tanks 53 and 56, Naval Education and Training Center, Newport, Rhode Island, December 1993c.

U.S. Navy, Record of Decision for an Interim Remedial Action at Tank Farm 5, Tanks 53 and 56, Groundwater Operable Unit Naval Education and Training Center, Newport, Rhode Island, September 1992.

U.S. Navy, Record of Decision – Source Control Operable Unit – Site 01 – McAllister Point Landfill, Naval Education and Training Center, Newport, Rhode Island, September 1993.

U.S. Navy, Final Record of Decision for Marine Sediment/Management of Migration, McAllister Point Landfill Site, Naval Station Newport, Newport, Rhode Island, anticipated December 1999 or January 2000.

U.S. EPA, Supplemental Five-Year Review Guidance, OSWER Directive 9355.7-02A, July 1994.

APPENDIX A
GROUNDWATER ANALYTICAL RESULTS – QUARTERLY MONITORING
MCALLISTER POINT LANDFILL, NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

(From: "Annual Monitoring Report (1998), Operation and Maintenance Activities" by Foster Wheeler Environmental Corporation, July 1999.)

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 1R	FWENC [5] MONITORING WELL - 101R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Acetone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs			0	0		0		0		0		2		5		5	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	ND	10	3 J		ND	10	ND	10	ND	10	ND	10	ND	10
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	3.1	ND	3	ND	3	ND	2	ND	2	ND	5
Arsenic	36		27.9 J	ND	2	ND	2.0	ND	2	ND	2	ND	2	ND	2	ND	2
Barium	3.9	d	114	ND	0.7	ND	2.9	ND	2.3	ND	14.5	1.5 B		5.2 B		1.3 B	
Beryllium	5.3	b	4.1	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		1.2 J	ND	0.2	0.87		ND	0.6	ND	0.6	ND	1	ND	1	ND	0.5
Chromium [4]	50		176 J	ND	0.7	ND	0.60	ND	0.5	ND	0.5	ND	0.6	ND	0.6	0.73 B	
Cobalt	3	d	129 J	ND	0.7	ND	0.70	ND	1.2	ND	1	ND	0.6	4.6 B		ND	0.5
Copper	2.4		189 J	ND	2	ND	2.0	ND	3	ND	12	1.9 B		3.7 B		ND	2
Iron	1000	b	262000 J	30.7	12	ND	33.0	ND	28.5	ND	29.2	36.2 B		24.6 B		58.8 B	
Lead	8.1		275 J	ND	1.5	19.8 J		ND	8	ND	2	ND	2	ND	2	ND	3
Magnesium	NA		45700 J	4510	5	4830		4040 J		3740		3630 B		7000		3820 B	
Manganese	80	d	2540 J	79.6 J	0.5	—		37.8		—		—		—		—	
Mercury	0.025		ND	ND	0.08	ND	0.12	ND	0.09	ND	0.1	ND	0.27	ND	0.27	ND	0.1
Nickel	8.2		256	ND	0.7	8.7		7.6		5.1 J		5.1 B		8.1 B		1.8 B	
Potassium	NA		5250	ND	460	ND	3300	1320		ND	1300	ND	4000	8690		1190 B	
Selenium	71		—	ND	5	ND	5.0	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		0.4	ND	0.6	ND	4.1	ND	2	ND	2	ND	2	163		ND	2
Sodium	NA		27300	26100	800	30300		25800		24700		25800		38900		26200	
Thallium	NA		—	ND	2	ND	2	ND	2	3 J		ND	3	ND	3	ND	4
Vanadium	19	d	14.3 J	ND	0.6	1.4 J		3		3		ND	3	ND	3	ND	1
Zinc	81		550 J	11.2 J	5	10.4 J		ND	8.4	ND	17	7.5 B		14.3 B		12.4 B	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 3S	FWENC [4] MONITORING WELL - 103S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	1	
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	3	
Acetone	NA		ND	5		ND	8	49 J		35		24		ND	5	8	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	10	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		2 J	12	5	9 J		4 J		ND	6	11		9		5	
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	8		9 J		2 J		3 J		68	5	97	5	9	
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	ND	12		8 J		ND	5	4 J		4 J		4 J		2	
Xylene (total)	1.8	d	ND	23		19 J		ND	7	10	5	11		12		6	
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		3	
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		1	
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		5	
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		4	
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		5	
Total VOCs			2	60		46		55		52		118		122		52	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	1 J	15		22 J		14		ND	10	34		38		13	
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	12 J	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	9 J	210 *		240 *		100		63		35		74		51	
2-Methylphenol	NA		3 J	6 J		4 J		1 J		ND	10	100 D		51		2	
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	44		17		4 J		3 J		310 D		140 D		2	
Acenaphthene	710		28	170 *		180 J*		130		140		64		64		49	
Acenaphthylene	300	c	ND	10 *		8 J		ND	10	10		65		12		13	
Anthracene	300	c	3 J	19		18		12		17		15		11		14	
Carbazole	NA		24	120		120 J*		95 J		120		38		57		85	
Chrysene	300	c	ND	ND	10	1 J		ND	10	4 J		4 J		2 J		3	
Dibenzofuran	20	d	15	130 *		150 J*		76		ND	10	50		53		40	
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		5 J	23		23		18		29		36		24		24	
Fluorene	300	c	20	150 *		170 J*		100		120		81 DJ		70		81	
n-Nitrosodiphenylamine	5850	a	ND	ND	10	4 J		ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	98	1400 *		1400 *		1800 (VOC)		530		570 D		180 D		760 (VOC)	
Phenanthrene	4.6		23	160 *		160 J*		100 *		80		67		62		48	
Phenol	2560	b	ND	3 J		ND	10	ND	10	ND	10	ND	10	ND	10	1	
Pyrene	300	c	4 J	10 J		14		10		17		25		17		16	
Di-n-butylphthalate	3.4		1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	4 J		5 J		2 J		4	
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	3 J		3 J		1 J		3	
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	2 J		2 J		ND	10	2	
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	2 J		2 J		ND	10	2	
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	1 J		ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	1 J		ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	5	
Total Metals (ug/l)																	
Antimony	500		176 J	ND	5	ND	3.0	6.1		ND	7.1	ND	2	ND	2	ND	5
Arsenic	36		176 J	ND	2	5.0		76.4		37		33.6		16.2		43.4	
Barium	3.9	d	969 J	119	0.7	146		213		361		199 B		171 B		276	
Beryllium	5.3	b	6.9	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		28 J	ND	0.2	ND	0.40	ND	0.6	ND	0.6	ND	2.4	ND	2.4	1.2 B	
Chromium [4]	50		256 J	ND	0.7	3.0		3.4 J		6.8		3.5 B		5.4 B		4.7 B	
Cobalt	3	d	205 J	ND	0.7	4.5		14.4		6.9		13.8 B		4.6 B		91	
Copper	2.4		1730 J	ND	2	ND	2.0	ND	22.3	ND	44.8	14.7 B		5.2 B		51.8	
Iron	1000	b	341000 J	53600	12	63500		29000		63800		82300		69100		67900	
Lead	8.1		4090 J	ND	1.5	ND	6.0	31		44.3		ND	2	ND	2	ND	3
Magnesium	NA		57000 J	15200	5	17000		20100 J		24800		20300		18400		22100	
Manganese	80	d	1900 J	12900 J	0.5	—		5090		—		—		—		—	
Mercury	0.025		4.51	ND	0.08	ND	0.08	ND	0.27	0.12 J		ND	0.27	ND	0.27	ND	0.1
Nickel	8.2		386	4.2	0.7	10.3		346		43.1		9.5 B		13.8		453	
Potassium	NA		25900	10500	460	15100 J		14700		20000		14800		12800		17100	
Selenium	71		—	13.1 J	5	ND	8.8	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		25 J	ND	0.6	ND	1.7	ND	2	ND	2	23.7		6.2 B		3.2 B	
Sodium	NA		91600 J	43900	800	49100		61700		78600		55800		48800		59000	
Thallium	NA		—	ND	3.8	ND	2	ND	2.8	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	432	ND	0.6	3.6		19.8		29.5		15 B		13.7 B		14 B	
Zinc	81		6800 J	ND	5	16.7 J		156		228		13.9 B		14.6 B		214	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [2] MONITORING WELL - 3R	FWENC [3] MONITORING WELL - 103R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	5	
Acetone	NA		ND	ND	5	ND	5	ND	5	ND	26	ND	5	4 JB		4	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	10	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	3 J		ND	5	ND	5	ND	5
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	4 J		ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	9		ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs			0	0		0		0		16		0		4		9	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		ND	2 J		1 J		2 J		2 J		1 J		ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	1 J		ND	10	1 J		1 J		1 J		ND	10	ND	10
Carbazole	NA		ND	1 J		1 J		1 J		ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	1 J		1 J		1 J		1 J		ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		1 J	2 J		2 J		2 J		2 J		2 J		1 J		2	
Fluorene	300	c	ND	2 J		2 J	10	2 J		2 J		1 J		ND	10	1	
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	3 J		2 J		2 J		ND	10	ND	10	ND	10	ND	10
Phenanthrene	4.6		1 J	7 J		7 J		7 J		6 J		6 J		5 J		4	
Phenol	2560	b	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	9 J	1 J		2 J		1 J		1 J		1 J		1 J		ND	10
Di-n-butylphthalate	3.4		1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	7 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	3.0	ND	3	ND	3	ND	2	ND	2	ND	5
Arsenic	36		34.4 J	ND	2	3.3 J		ND	10.1	7.8		8.7 B		5.9 B		13	
Barium	3.9	d	34.1	ND	0.7	23.0		23.1		ND	31.7	18.7 B		18.3 B		24.2 B	
Beryllium	5.3	b	1.1	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		3.6 J	ND	0.2	ND	0.40	ND	0.6	ND	0.6	1.2 B		1.2 B		0.96 B	
Chromium [4]	50		ND	ND	0.7	0.92 J		0.94 J		0.97 J		ND	0.6	1.3 B		1.5 B	
Cobalt	3	d	44.5 J	20.5		22.2		24.1		24.5		21.3 B		18.3 B		26.4 B	
Copper	2.4		68.6 J	ND	2	ND	2.0	ND	9.9	ND	6.3	3.7 B		3.9 B		8.8 B	
Iron	1000	b	42400 J	24600		24800		26800		27100		24500		19600		33800	
Lead	8.1		91.2	ND	1.5	ND	2.0	ND	6.2	ND	2	ND	2	ND	2	ND	3
Magnesium	NA		15800 J	12300		12700		13200 J		13500		12500		9830		14300	
Manganese	60	d	2400 J	1760 J		—		1870 J		—		—		—		—	
Mercury	0.025		0.12	ND	0.08	ND	0.06	ND	0.09	0.2 J		ND	0.27	ND	0.27	ND	0.1
Nickel	8.2		106	ND	0.7	47.8		48		49.3		45.1		38.8 B		5.6 B	
Potassium	NA		5890	ND	460	3420 J		2190 J		1980 J		ND	4000	ND	4000	1230 B	
Selenium	71		—	7 J		ND	5.0	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		0.5 J	ND	0.6	ND	2.0	ND	2	ND	2	18.1 B		4.8 B		ND	2
Sodium	NA		46200 J	31300		31500		32300		32600		31600		24300		30600	
Thallium	NA		—	ND	2	ND	2	ND	2	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	15.8 J	ND	0.6	2.5		10		10.5		ND	3	ND	3	4.6 B	
Zinc	81		1000 J	22.2		19.9		58.7 J		ND	41	33		28.3 B		50.1	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [5] MONITORING WELL - 4S	FWENC [6] MONITORING WELL - 104S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		ND	5	ND	5	DRY WELL, NO SAMPLE COLLECTED	
Methylene chloride	NA		ND	ND	5							ND	5	ND	5		
Acetone	NA		ND	94								20		33 B			
Carbon disulfide	NA		ND	ND	5							ND	5	ND	5		
1,2-Dichloroethene (total)	11600	a	ND	ND	5							ND	5	ND	5		
1,1,1-Trichloroethane	31200	c	ND	ND	5							ND	5	ND	5		
Trichloroethene	2000	a	ND	ND	5							ND	5	ND	5		
Benzene	700		2 J	ND	5							1 J		1 J			
2-Hexanone	NA		ND	ND	5							ND	5	ND	5		
Tetrachloroethene	NA		ND	ND	5							ND	5	ND	5		
Toluene	5000		ND	6								9		12			
Chlorobenzene	129		ND	22								2 J		ND	5		
Ethylbenzene	430	c	6 J	54								7		8			
Xylene (total)	1.8	d	7 J	110								14		10			
1,2,4-Trimethylbenzene	NA		—	—								—		—			
1,3,5-Trimethylbenzene	NA		—	—								—		—			
n-Butylbenzene	NA		—	—								—		—			
sec-Butylbenzene	NA		—	—								—		—			
4-Isopropyltoluene	NA		—	—								—		—			
Total VOCs			15	286								53		64			
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		ND	10	ND	10	DRY WELL, NO SAMPLE COLLECTED	
1,3-Dichlorobenzene	129		ND	ND	10							ND	10	ND	10		
1,4-Dichlorobenzene	129		12	9 J								5 J		2 J			
2,4-Dimethylphenol	2120	a	ND	ND	10							2 J		ND	10		
2,6-Dinitrotoluene [2]	370	e	ND	ND	10							ND	10	ND	10		
2-Chlorophenol	4380	a	ND	ND	10							ND	10	ND	10		
2-Methylnaphthalene	300	c	1 J	3 J								ND	10	ND	10		
2-Methylphenol	NA		11	ND	10							ND	10	ND	10		
4-Chloro-3-methylphenol [3]	29700	e	ND	8 J								ND	10	ND	10		
4-Methylphenol	NA		ND	ND	10							120 D		43			
Acenaphthene	710		ND	ND	10							ND	10	ND	10		
Acenapthylene	300	c	ND	ND	10							ND	10	ND	10		
Anthracene	300	c	ND	ND	10							ND	10	ND	10		
Carbazole	NA		ND	1 J								ND	10	ND	10		
Chrysene	300	c	ND	ND	10							ND	10	ND	10		
Dibenzofuran	20	d	ND	ND	10							ND	10	ND	10		
Diethylphthalate	3.4		1 J	2 J								2 J					
Fluoranthene	16		ND	ND	10							ND	10	ND	10		
Fluorene	300	c	ND	ND	10							ND	10	ND	10		
n-Nitrosodiphenylamine	5850	a	ND	ND	10							ND	10	ND	10		
Naphthalene	620	b	3 J	15								2 J					
Phenanthrene	4.6		ND	1 J								ND	10	ND	10		
Phenol	2560	b	ND	ND	10							4 J					
Pyrene	300	c	ND	ND	10							ND	10	ND	10		
Di-n-butylphthalate	3.4		4 J	ND	10							ND	10	ND	10		
Benzo(a)anthracene	300	c	ND	ND	10							ND	10	ND	10		
Benzo(b)fluoranthene	300	c	ND	NR	10							ND	10	ND	10		
Benzo(k)fluoranthene	300	c	ND	NR	10							ND	10	ND	10		
Benzo(a)pyrene	300	c	ND	NR	10							ND	10	ND	10		
Indeno (1,2,3-cd)pyrene	300	c	ND	NR	10							ND	10	ND	10		
Benzo(g,h,i)perylene	300	c	ND	NR	10							ND	10	ND	10		
bis(2-Ethylhexyl)phthalate	360		ND	ND	10							58		2 J			
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		ND	2	ND	2	DRY WELL, NO SAMPLE COLLECTED	
Arsenic	36		11.7 J	19.4								20.5		9.3 B			
Barium	3.9	d	67.6	73.2								118 B		119 B			
Beryllium	5.3	b	ND	ND	0.2							ND	0.5	ND	0.5		
Cadmium	9.3		6.2 J	ND	0.2							4 B		4.4 B			
Chromium [4]	50		5.4 J	ND	0.7							0.75 B		7.9 B			
Cobalt	3	d	21	ND	0.7							34.3 B		13.7 B			
Copper	2.4		69.6 J	ND	2							44.8		13.2 B			
Iron	1000	b	69100 J	120000								148000		139000			
Lead	8.1		42.3 J	ND	1.5							24.4		ND	2		
Magnesium	NA		4580 J	32000								25300		24200			
Manganese	80	d	2180 J	1440 J								—		—			
Mercury	0.025		0.19 J	ND	0.08							ND	0.27	ND	0.09		
Nickel	8.2		45	ND	0.7							50.6		37.7 B			
Potassium	NA		6290	31800								21900		23700			
Selenium	71		—	9.4 J								ND	5	ND	5		
Silver	0.92		0.4	ND	0.6							29.9		9.2 B			
Sodium	NA		8920 J	53000								40200		40300			
Thallium	NA		—	ND	4							ND	3	ND	3		
Vanadium	19	d	ND	17.4								7.1 B		18.1 B			
Zinc	81		1030 J	11.4 J								102		75.2			

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 5S	FWENC [4] MONITORING WELL - 105S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)												Duplicates Averaged		Duplicates Averaged			
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	1	
Acetone	NA		ND	51		ND	5	4 J		ND	5	6		ND	5	7	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	2 J		ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	1 J		1 J		ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	5		9		ND	5
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	3 J		ND	5	1	
Ethylbenzene	430	c	ND	12		ND	5	ND	5	ND	5	1 J		1 J		ND	5
Xylene (total)	1.8	d	ND	260		18		ND	5	2 J		6		9		6	
1,2,4-Trimethylbenzene	NA		—	—		—		32		—		—		—		11	
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		1	
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		5	
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Isopropylbenzene	NA		—	—		—		1 J		—		—		—		ND	5
Total VOCs				323		20		37		2		22		20		32	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	6 J		6 J		2 (VOC)	
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	8 J		ND	10	1 J		ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	1 J		ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	63		26		ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	2 J		2 J		ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	1 J		ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	13		ND	10	1 J		ND	10	2 J		4 J		4 (VOC)	
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	ND	10	ND	10	ND	10	2 J		ND	10	ND	10
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	3 J		ND	10	ND	10	ND	10	2 J		1	
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	3.0	ND	3	ND	3	6.6 B		2.1 B		ND	5
Arsenic	36		12 J	ND	2	2.5 J		ND	4	3.2 J		3 B		2.6 B		8.7 B	
Barium	3.9	d	23.9	183	0.7	43.9		42.5		ND	40.2	310		308		195 B	
Beryllium	5.3	b	ND	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		ND	ND	0.2	ND	0.40	ND	0.6	ND	0.6	2.4 B		ND	1	1.3 B	
Chromium [4]	50		ND	ND	0.7	0.77 J		ND	0.5	0.86 J		1.6 B		7.2 B		1.8 B	
Cobalt	3	d	4.7 J	ND	0.7	1.1 J		ND	3.6	ND	2.8	11.6 B		2 B		10.3 B	
Copper	2.4		3.8 J	ND	2	ND	2.0	8.2		ND	4.6	27.8		12.4 B		14.8 B	2
Iron	1000	b	19300 J	46800	12	12400		13800		12200		1E+05		1E+05		50700	
Lead	8.1		ND	ND	1.5	ND	5.6	ND	4.2	ND	2	10		ND	2	ND	3
Magnesium	NA		5060 J	9730	5	4940		5000 J		3950		17400		16550		14900	
Manganese	80	d	679 J	303 J	0.5	—		390		—		—		—		—	
Mercury	0.025		0.14 J	ND	0.08	ND	0.18	ND	0.09	ND	0.09	ND	0.2	ND	0.2	ND	0.1
Nickel	8.2		10.7	ND	0.7	3.8 J		5.1 J		3.4 J		14.4 B		42.5		26.8	0.6
Potassium	NA		6060	9030	460	4090 J		3690		3260		17000		17800		16200	
Selenium	71		—	10.4 J	5	ND	5.0	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		ND	ND	0.6	ND	3.9	ND	2	ND	2	12.7 B		4.2		ND	2
Sodium	NA		15900 J	17900	800	13400		12700		9110		22400		24200		21400	
Thallium	NA		—	ND	2	ND	2	ND	2	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	ND	ND	0.6	1.9 J		5.1		4.3		8.6 B		15.8 B		7.8 d	1
Zinc	81		50.3 J	21.6	5	24.7		ND	31.9	ND	30.4	91.8		242		119	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 5R	FWENC [5] MONITORING WELL - 105R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	2	ND	5
Acetone	NA		ND	ND	5	ND	5	5 J		ND	5	ND	5	3 JB		ND	5
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	2 J		2 J		ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	2	
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs								7		2		0		3		8	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	3.0	ND	3	ND	3	ND	2	2.5 B		ND	5
Arsenic	36		19.2 J	43.7	2	ND	2.0	ND	2.5	ND	2	2.2 B		ND	2	2.5 B	
Barium	3.9	d	17.5	ND	0.7	ND	1.0	2.8 J		ND	12.5	ND	1	1.2 B		1.1 B	
Beryllium	5.3	b	1.1	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		ND	ND	0.2	ND	0.40	ND	0.6	ND	0.6	ND	1	ND	1	ND	0.5
Chromium [4]	50		ND	ND	0.7	ND	0.60	ND	0.5	ND	0.5	ND	0.6	ND	0.6	0.57 B	
Cobalt	3	d	43.8 J	ND	0.7	0.81		ND	2.3	ND	2.3	0.87 B		ND	0.6	1.1 B	
Copper	2.4		6.7 J	ND	2	ND	2.0	5.6 J		ND	9.2	ND	1	2.4 B		ND	2
Iron	1000	b	25600 J	355	12	ND	46.7	130		266		709		856		877	
Lead	8.1		ND	ND	1.5	ND	7.0	ND	2	ND	2	ND	2	3.8		5.1	
Magnesium	NA		8520 J	4240	5	3610		3460 J		3550		3820 B		3400 B		3700 B	
Manganese	80	d	1200 J	190.2	0.5	—		197		—		—		—		—	
Mercury	0.025		0.17	ND	0.08	ND	0.08	ND	0.13	ND	0.09	ND	0.26	ND	0.09	ND	0.1
Nickel	8.2		81.2	ND	0.7	8.1		9.9		8.2		6.2 B		4.4 B		4.6 B	
Potassium	NA		2340	ND	460	ND	3300	ND	1300	2150		ND	4000	ND	4000	1270 B	
Selenium	71		—	17.9	5	ND	5.0	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		ND	ND	0.6	ND	5.2	ND	2	ND	2	5.7 B		4.9 B		ND	2
Sodium	NA		9340 J	9360	800	9320		7820		7080		8740		6870		6950	
Thallium	NA		—	ND 2		ND	2	ND	2	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	7.7 J	ND	0.6	ND	1.0	2.6		2.9		ND	3	ND	3	ND	1
Zinc	81		39.9 J	13.7 J	5	10.6 J		ND	9.5	ND	13.9	5.2 B		8 B		20.4 B	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 7S	FWENC [4] MONITORING WELL - 107R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	3	
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	5	
Acetone	NA		ND	6		ND	5	5 J		ND	5	16		14 B		91	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	26	
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	2 J		2 J		1 J		1 J		1	
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	2 J		ND	5	1 J		1 J		1	
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	1	
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	129		ND	ND	5	1 J		6		3 J		4 J		ND	5	2	
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		5	
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		5	
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		5	
Total VOCs				6		1		15		5		22		16		145	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	8 J		ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	2	
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	2 J		ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	ND	10	2 J		ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	4 J		2 J		6 J		ND	10	3 J		2 J		2	
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	ND	10	ND	10	ND	10	7 J		ND	10	ND	10	ND	10
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	ND	10	ND	10	12		ND	10	ND	10	ND	10
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	3	
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	5.0	ND	3	ND	3	ND	2	ND	2	ND	5
Arsenic	36		114 J	311		237		275		189		334		324		472	
Barium	3.9	d	131	ND	0.7	ND	12.8	42 J		ND	43	27.5 B		21.1 B		26 B	
Beryllium	5.3	b	4.3	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		2.8 J	ND	0.2	ND	0.40	2.9 J		ND	0.6	10.5		4.8 B		13.6	
Chromium [4]	50		153 J	ND	0.7	1.6		7.5 J		6.3		1.4 B		3.3 B		2.5 B	
Cobalt	3	d	743 J	ND	0.7	20.8		326		247		54.4		23.9 B		243	
Copper	2.4		285 J	ND	2	ND	2.0	ND	15.3	ND	4	6.2 B		3.4 B		16.8 B	
Iron	1000	b	216000 J	71200		59700		115000		1E806		69100		61900		56600	
Lead	8.1		190 J	ND	1.5	ND	6.3	ND	2	ND	2	ND	2	ND	2	ND	3
Magnesium	NA		39400 J	11700		7960		15100 J		15000		9600		7680		8690	
Manganese	80	d	17400 J	9260 J		—		17200		—		—		—		—	
Mercury	0.025		0.12	ND	0.08	ND	0.08	ND	0.09	ND	0.1	ND	0.2	ND	0.09	ND	0.1
Nickel	8.2		501	ND	0.7	10.2		51.4		34.4		3.9 B		6.6 B		ND	0.6
Potassium	NA		7310	11300		8260 J		14600 J		13200		11600		8300		9000	
Selenium	71		—	20.6		ND	12.7	ND	5	12.6		ND	5	ND	5	ND	5
Silver	0.92		ND	ND	0.6	ND	3.2	ND	2	ND	2	36.5		2.9 B		ND	2
Sodium	NA		14600 J	22400		19900		25800		25200		16200		13500		16000	
Thallium	NA		—	ND	5.5	ND	2	11.4 J		7.9		ND	3	ND	3	ND	4
Vanadium	19	d	37.2 J	ND	0.6	ND	1.0	12.1 J		13		ND	3	6.9 B	3	4.1 B	
Zinc	81		679 J	ND	5	ND	10.0	58.6 J		ND	35.5	9 B		9 B		64.5	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [2] MONITORING WELL - 8R	FWENC [2] MONITORING WELL - 108R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																DUPLICATES AVERAGED	
Chloroethane	NA		ND	5 J		ND		ND	5	4 J		5		ND	5	5	
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	2	
Acetone	NA		ND	9		ND	5	3 J		ND	5	3 BJ		ND	5	8.5	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	9	
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	2 J		2 J		ND	5	2 J		3 J		2 J	
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	6		ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	129		ND	7		ND	5	6		6		7		ND	5	5	
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs				21				11		10		17		3		31	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [3]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	1 (voc)	
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	5.2	ND	3	ND	6.4	ND	2	ND	2	ND	5
Arsenic	36		24.4 J	65		40.4		31.9		16.8		53.3		49.7		51.8	
Barium	3.9	d	179	ND	0.7	35.1		32.4		ND	43.6	38.9 B		34.4 B		37.5 B	
Beryllium	5.3	b	1.8	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		1.4 J	ND	0.2	ND	0.40	ND	0.6	ND	0.6	2.1 B		1.8 B		1.7 B	
Chromium [4]	50		24.1 J	ND	0.7	2.2		2 J		1.2		0.77 B		0.81 B		2 B	
Cobalt	3	d	258 J	73.3		57.7		70.9		78.1		66.1		42.9 B		46.8 B	
Copper	2.4		91.8 J	ND	2	ND	2.0	ND	6	ND	11.2	4.6 B		4 B		ND	2
Iron	1000	b	36900 J	14900		10600		8120		6160		11200		10000		8935	
Lead	8.1		26.9	ND	1.5	ND	9.2	ND	2	ND	2	ND	2	ND	2	ND	3
Magnesium	NA		118000 J	42100		42500		38500 J		35600		35400		34100		39400	
Manganese	80	d	6330 J	3730 J		—		3710		—		—		—		—	
Mercury	0.025		ND	ND	0.08	ND	0.80	ND	0.09	ND	0.09	ND	0.2	ND	0.2	ND	0.1
Nickel	8.2		235	66.7		45.8		64.9		81.5		54.6		47.7		29.9 B	
Potassium	NA		110000	86200		83200 J		78400		71800		ND	4000	—		ND	2
Selenium	71		—	7.8 J		ND	5.0	ND	5	ND	5	ND	5	ND	5	ND	5
Silver	0.92		ND	ND	0.6	ND	3.5	ND	2	ND	2	ND	2	11.3		ND	2
Sodium	NA		721000 J	198000		198000		183000		193000		183000		162000		173000	
Thallium	NA		—	ND	2	ND	2	ND	2	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	28.7 J	17.8		10.3		25.4		24.1		ND	3	ND	3	7 B	
Zinc	81		156 J	16.7 J	5	ND	10.0	ND	9.6	ND	11.8	6 B		10.5 B		8.2 B	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [5] MONITORING WELL - 11S	FWENC [6] MONITORING WELL - 111S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	MDL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)			DRY WELL, NO SAMPLE COLLECTED	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED	
Chloroethane	NA																
Methylene chloride	NA																
Acetone	NA																
Carbon disulfide	NA																
1,2-Dichloroethene (total)	11600	a															
1,1,1-Trichloroethane	31200	c															
Trichloroethene	2000	a															
Benzene	700																
2-Hexanone	NA																
Tetrachloroethene	NA																
Toluene	5000																
Chlorobenzene	129																
Ethylbenzene	430	c															
Xylene (total)	1.8	d															
1,2,4-Trimethylbenzene	NA																
1,3,5-Trimethylbenzene	NA																
n-Butylbenzene	NA																
sec-Butylbenzene	NA																
4-Isopropyltoluene	NA																
Total VOCs																	
Semivolatile Organic Compounds (ug/l)			DRY WELL, NO SAMPLE COLLECTED	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED	
1,2-Dichlorobenzene	129																
1,3-Dichlorobenzene	129																
1,4-Dichlorobenzene	129																
2,4-Dimethylphenol	2120	a															
2,6-Dinitrotoluene [2]	370	e															
2-Chlorophenol	4380	a															
2-Methylnaphthalene	300	c															
2-Methylphenol	NA																
4-Chloro-3-methylphenol [3]	29700	e															
4-Methylphenol	NA																
Acenaphthene	710																
Acenapthylene	300	c															
Anthracene	300	c															
Carbazole	NA																
Chrysene	300	c															
Dibenzofuran	20	d															
Diethylphthalate	3.4																
Fluoranthene	16																
Fluorene	300	c															
n-Nitrosodiphenylamine	5850	a															
Naphthalene	620	b															
Phenanthrene	4.6	P															
Phenol	2560	b															
Pyrene	300	c															
Di-n-butylphthalate	3.4																
Benzo(a)anthracene	300	c															
Benzo(b)fluoranthene	300	c															
Benzo(k)fluoranthene	300	c															
Benzo(a)pyrene	300	c															
Indeno (1,2,3-cd)pyrene	300	c															
Benzo(g,h,i)perylene	300	c															
bis(2-Ethylhexyl)phthalate	360	P															
Total Metals (ug/l)			DRY WELL, NO SAMPLE COLLECTED	DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED		DRY WELL, NO SAMPLE COLLECTED	
Antimony	500																
Arsenic	36																
Barium	3.9	d															
Beryllium	5.3	b															
Cadmium	9.3																
Chromium [4]	50																
Cobalt	3	d															
Copper	2.4																
Iron	1000	b															
Lead	8.1																
Magnesium	NA																
Manganese	80	d															
Mercury	0.025																
Nickel	8.2																
Potassium	NA																
Selenium	71																
Silver	0.92	P															
Sodium	NA																
Thallium	NA																
Vanadium	19	d															
Zinc	81																

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 11R	FWENC [5] MONITORING WELL - 111R													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)								DUPLICATES AVERAGED						DUPLICATES AVERAGED			
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	2	
Acetone	NA		ND	6			5	6.5 J		ND	5	3 J		5 B		8	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	9	
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs				6				6.5				3		5		19	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Acenaphthene	710		2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluoranthene	16		2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	8 J	2 J		ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenanthrene	4.6		5 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	R		ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	1	
Total Metals (ug/l)																	
Antimony	500		ND	ND	5	ND	3.2	ND	3	ND	3.8	ND	2	ND	2	ND	5
Arsenic	36		22.5 J	67.1	2	120		114		112		95.4		89.6		110	
Barium	3.9	d	164	68.5	0.7	55.3		53.4		ND	57.4	41.1 B		31.4 B		33.4 B	
Beryllium	5.3	b	2	ND	0.2	ND	0.50	ND	1	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		1.6 J	ND	0.2	ND	0.40	ND	0.6	ND	0.6	3.1 B		ND	1	3.1 B	
Chromium [4]	50		82.8 J	ND	0.7	1.6		1.95 J		ND	0.5	ND	0.6	ND	0.6	1.4 B	
Cobalt	3	d	116 J	ND	0.7	8.9		13.45		7.2		4.7 B		5.4 B		9.4 B	
Copper	2.4		267 J	ND	2	ND	2.0	ND	5.9	ND	7	1.1 B		2.5 B		2.2	2
Iron	1000	b	128000 J	3770	12	3850		4200		3000		1790		1630		1380	
Lead	8.1		548	ND	1.5	14.7 J		ND	5.2	ND	2	ND	2	ND	2	ND	3
Magnesium	NA		53100 J	58100	5	60100		55200 J		52100		ND	405	35700		39900	
Manganese	80	d	15900 J	2590 J	0.5	—		2060		—		—		—		—	
Mercury	0.025		0.33	ND	0.08	ND	0.80	ND	0.09	ND	0.1	0.2		ND	0.09	ND	0.1
Nickel	8.2		122	ND	0.7	ND	2.0	5.15 J		ND	3	2.7 B		3.2 B		ND	0.6
Potassium	NA		33500	36300	460	26300 J		20600		25000		33400		—		38300	
Selenium	71		—	9 J	5	ND	5.0	5.7 J		9 J		ND	5	ND	5	ND	5
Silver	0.92		1.3 J	ND	0.6	ND	1.8	ND	2	ND	2	ND	2	48.4		ND	2
Sodium	NA		76800 J	213000	800	208000		197000		212000		227000		199000		202000	
Thallium	NA		—	ND	2	ND	2	ND	2	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	45.8 J	23.5	0.6	12.0		35.4		32.3		ND	3	ND	3	6.8 B	
Zinc	81		1060 J	15.3 J	5	ND	10.0	ND	17.1	ND	15.8	5.2 B		6.8 B		9.8 B	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY GROUND WATER MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [4] MONITORING WELL - 12S	FWENC [4] MONITORING WELL - 112S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98	
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL
Volatile Organic Compounds (ug/l)																	
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	1	
Acetone	NA		ND	6		ND	5	ND	5	ND	5	4 BJ		5 B		3	
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	1 J	5	ND	5
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	1 J		ND	5
Chlorobenzene	129		29	ND	5	5		ND	5	ND	5	ND	5	ND	5	ND	5
Ethylbenzene	430	c	4 J	ND	5	ND	5	ND	5	ND	5	ND	5	2 J		ND	5
Xylene (total)	1.8	d	14	ND	5	1 J		ND	5	ND	5	ND	5	8		ND	5
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		4	
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5
Total VOCs			47	6		6						4		17		8	
Semivolatile Organic Compounds (ug/l)																	
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,3-Dichlorobenzene	129		2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
1,4-Dichlorobenzene	129		13	ND	10	1 J		ND	10	ND	10	ND	10	4 J		ND	10
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	2 J		ND	10
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	1 J		ND	10
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	7 J		ND	10
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	2 J		ND	10
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	620	b	3 J	ND	10	ND	10	ND	10	1 J		ND	10	4 J		ND	10
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Phenol	2560	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Pyrene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	300	c	ND	NR	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	300	c	ND	NR	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	300	c	ND	NR	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Indeno (1,2,3-cd)pyrene	300	c	ND	NR	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Benzo(g,h,i)perylene	300	c	ND	NR	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Total Metals (ug/l)																	
Antimony	500		26.5 J	ND	5	ND	3.0	ND	3.0	ND	3	ND	2	ND	2	ND	5
Arsenic	36		51.6 J	24.5	2	26.7		32.45		27.6		29.7		28.2		17.5	
Barium	3.9	d	112	ND	0.7	30.9		23.6		ND	32.8	24.4 B		69.5 B		33.2 B	
Beryllium	5.3	b	1	ND	0.2	ND	0.50	ND	1.0	ND	1	ND	0.5	ND	0.5	ND	0.2
Cadmium	9.3		10 J	ND	0.2	ND	0.40	ND	0.60	ND	0.6	2.1 B		1.1 B		0.8 B	
Chromium [4]	50		67.9 J	ND	0.7	ND	0.60	ND	0.50	0.56 J		0.91 B		5.4 B		0.6 B	
Cobalt	3	d	43.8	ND	0.7	1.8		4.35		ND	3	1.9 B		ND	U	1.5 B	
Copper	2.4		97.2 J	ND	2	ND	2.0	ND	4.2	ND	3.9	8.3 B		2.6 B		ND	2
Iron	1000	b	87300 J	21000	12	23200		24750		18300		27400		67400		13300	
Lead	8.1		375 J	ND	1.5	ND	8.1	ND	2.85	ND	2	3.7 B		ND	2	ND	3
Magnesium	NA		10000 J	3220	5	3350		3125 J		2570		3360 B		4950 B		3300 B	
Manganese	80	d	2730 J	495 J	0.5	—		544		—		—		—		—	
Mercury	0.025		1.7	ND	0.08	ND	0.08	ND	0.09	ND	0.1	ND	0.2	ND	0.09	ND	0.1
Nickel	8.2		97	ND	0.7	2.8 J		5.9 J		3.2 J		2 B		10.9 B		ND	0.6
Potassium	NA		3070	ND	460	ND	3300	2610 J		1940 J		ND	4000	—		1760 B	
Selenium	71		—	ND	5	ND	6.5	ND	5.0	ND	5	ND	5	ND	5	ND	5
Silver	0.92		11.8	ND	0.6	ND	4.2	ND	2.0	ND	2	ND	2	8.9 B		ND	2
Sodium	NA		7590 J	10700	800	12300		10350		7720		10300		13100		7780	
THALLIUM	NA		—	ND	2	ND	2	ND	2.0	ND	2	ND	3	ND	3	ND	4
Vanadium	19	d	189	ND	0.6	ND	1.0	3.55		3.3		3.9 B		12.1 B		2 B	
Zinc	81		1440 J	23.3	5	12.3 J		ND	13.95	ND	9.3	55.7		66.3		23 B	

TABLE A-1
COMPARISON OF ANALYTICAL RESULTS
QUARTERLY MONITORING
McALLISTER POINT LANDFILL
NAVSTA NEWPORT, RHODE ISLAND

COMPOUND	AWQC [1]		TRC [5] MONITORING WELL - 13S		FWENC [4] MONITORING WELL - 113S													
			Dec-93	Mar-97		Jun-97		Sep-97		Jan-98		Apr-98		Jul-98		Oct-98		
				Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	Result	QL/DL	
Volatile Organic Compounds (ug/l)										DUPLICATES AVERAGED								
Chloroethane	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Methylene chloride	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	1 J		
Acetone	NA		ND	ND	5	ND	5	11		ND	5	ND	5	5 B		11		
Carbon disulfide	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
1,2-Dichloroethene (total)	11600	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
1,1,1-Trichloroethane	31200	c	ND	ND	5	ND	5	2 J		2 J		ND	5	ND	5	ND	5	
Trichloroethene	2000	a	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Benzene	700		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
2-Hexanone	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Tetrachloroethene	NA		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	5		
Toluene	5000		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Chlorobenzene	129		ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Ethylbenzene	430	c	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
Xylene (total)	1.8	d	ND	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	
1,2,4-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5	
1,3,5-Trimethylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5	
n-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5	
sec-Butylbenzene	NA		—	—		—		ND	5	—		—		—		ND	5	
4-Isopropyltoluene	NA		—	—		—		ND	5	—		—		—		ND	5	
Total VOCs								13		2		0		5		17		
Semivolatile Organic Compounds (ug/l)																		
1,2-Dichlorobenzene	129		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
1,3-Dichlorobenzene	129		0.5 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
1,4-Dichlorobenzene	129		2 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
2,4-Dimethylphenol	2120	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
2,6-Dinitrotoluene [2]	370	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
2-Chlorophenol	4380	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
2-Methylnaphthalene	300	c	1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
2-Methylphenol	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
4-Chloro-3-methylphenol [3]	29700	e	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
4-Methylphenol	NA		1 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Acenaphthene	710		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Acenapthylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Carbazole	NA		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Chrysene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Dibenzofuran	20	d	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Diethylphthalate	3.4		ND	ND	10	ND	10	ND	10	4 J		ND	10	ND	10	ND	10	
Fluoranthene	16		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Fluorene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
n-Nitrosodiphenylamine	5850	a	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Naphthalene	620	b	0.9 J	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Phenanthrene	4.6		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Phenol	2560	b	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Di-n-butylphthalate	3.4		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Benzo(a)anthracene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Benzo(b)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Benzo(k)fluoranthene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Benzo(a)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Indeno (1,2,3-cd)pyrene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Benzo(g,h,i)perylene	300	c	ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
bis(2-Ethylhexyl)phthalate	360		ND	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	
Total Metals (ug/l)																		
Antimony	500		34.1	ND	5	ND	6.5	ND	3.0	ND	4.3	ND	2	ND	2	ND	5	
Arsenic	36		117	ND	2	ND	2.0	ND	2.0	ND	2.0	ND	2	ND	2	ND	2	
Barium	3.9	d	228	ND	0.7	34.9		12.4		ND	19	4.3 B		9.9 B		33 B		
Beryllium	5.3	b	4.9	ND	0.2	ND	0.50	ND	1.0	ND	1.0	ND	0.5	ND	0.5	ND	0.2	
Cadmium	9.3		9.9	ND	0.2	ND	0.40	ND	0.60	ND	0.60	ND	1	ND	1	0.51 B		
Chromium [4]	50		146	ND	0.7	ND	0.60	ND	0.50	ND	0.50	ND	0.6	ND	0.6	0.6 B		
Cobalt	3	d	127	ND	0.7	ND	0.70	2.1		ND	1.75	ND	0.6	0.89 B		1.1 B		
Copper	2.4		241	ND	2	ND	2.0	ND	14.7	ND	8.3	8.1 B		11.5 B		6.6 B		
Iron	1000	b	227000	305	12	3640		414		622		1020		2380		1500		
Lead	8.1		1860	ND	1.5	ND	7.8	ND	3.4	2.5 J		ND	2	ND	2	5.5		
Magnesium	NA		32700	2960	5	3210		3200 J		2990		2830 B		2500 B		3090 B		
Manganese	80	d	4020	58.3 J	0.5	—		130		—		—		—		—		
Mercury	0.025		0.23	ND	0.08	ND	0.80	ND	0.09	ND	0.09	ND	0.2	ND	0.09	ND	0.1	
Nickel	8.2		250	ND	0.7	2.4 J		3.9 J		ND	3.0	1.5 B		4.3 B		ND	0.6	
Potassium	NA		8840	ND	460	ND	3300	1870 J		1590		ND	4000	—		1860 B		
Selenium	71		—	ND	5	ND	5.0	ND	5.0	ND	5.0	ND	5	ND	5	ND	5	
Silver	0.92		2	ND	0.6	ND	5.4	ND	2.0	ND	2.0	9.5 B		12.1		ND	2	
Sodium	NA		11600	8010	800	10700		9540		6635		8290		5990		7600		
Thallium	NA		—	ND	2	ND	2	ND	2	ND	2	ND	3	ND	3	ND	4	
Vanadium	19	d	107	ND	0.6	ND	1.0	2.4		2.4		3		ND	5	ND	1	
Zinc	81		858	27.2	5	26.0		50.1 J		ND	18.3	13.4 B		19.9 B		29.2		

NOTES:

1. Ambient Water Quality Criteria (AWQC) from 40 FR 79318, "Quality Criteria for Water", December 1992 (with revisions for metals: May 1995).
   Marine chronic values used unless not available, in which case the lowest of a, b, c, d, or e were used as available.
   a - AWQC acute freshwater value.
   b - AWQC chronic freshwater value.
   c - AWQC acute marine value.
   d - Ecotox Tier II freshwater value (US EPA, ECO Update, Intermittent Bulletin Volume 3, Number 2, January 1996).
   e - Canadian MEQ marine acute value (Environment Canada, The Development of Canadian Marine Environmental Quality (MEQ) Guidelines, 1992.
   P - Value is proposed.

2. Criteria presneted for Dinitrotoluene. No criteria established for 2,6-Dinitrotoluene.

3. Criteria presented for 4-Chlorophenol. No criteria established for 4-Chloro-3-methylphenol.

4. Criteria presented for Chromium as Chromium +6. No criteria established for Chromium +3 or Chromium (total).

5. Data collected by TRC Environmental Corporation as presented in: "Remedial Investigation, Draft Final Report for McAllister Point Landfill, NETC-Newport, Rhode Island", July 1994.

6. Wells installed and sampled by Foster Wheeler Environmental Corporation (FWENC) as described in: "Operations and Maintenance Manual", May 1997.

J - Value estimated due to exceeding quality control criteria.

B - For organic concentrations, the noted compound was detected in the associated laboratory blank.
For inorganic concentrations, the detected concentration is between the IDL and the CRDL.

NA - AWQC value for contaminant was not available.

ND - Not detected above QL/DL reported by analytical laboratory.

NR - Concentration not reported in summary tables prior to October 1998.

MDL - Method Detection Limit reported by analytical laboratory.

QL/DL - Quanitation Limit (for organics) and Detection Limit (for metals) reported by analytical laboratory.

R - Value was rejected due to exceeding quality control criteria.

Shaded values exceed the indicated AWQC value.

——— - Not analyzed.

Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW101R							ML-MW103R						
DATE SAMPLED	3/21/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98	3/21/97	6/24/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA
ANTIMONY	NA	NA	3.0 U	NA	NA	NA	5 U	NA	NA	3.0 U	NA	NA	NA	5 U
ARSENIC	2.3 UJ	2 U	2.2 U	2 U	2.0 U	2.0 U	2 U	7.8 U	9.4 U	9.1 U	8.8	30.5	9.0 B	11.5
BARIUM	2.6 U	4 U	3.1 U	10.8 U	1.9 B	1.5 B	1.2 B	19.7 U	22.5	23.2	29.6 U	184 B	17.9 B	21.7 B
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	0.2 U	NA	NA	1.0 U	NA	NA	NA	0.2 U
CADMIUM	0.44 UJ	0.4 U	0.60 U	0.6 U	1.0 U	1 U	1 U	0.4 U	0.4 U	0.60 U	0.6 U	2.3 B	1.5 B	111 B
CALCIUM	NA	NA	7330	NA	NA	NA	NA	NA	NA	28600	NA	NA	NA	NA
CHROMIUM	0.6 U	0.6 U	0.50 UJ	0.5 U	0.6 U	0.60 U	0.98 B	0.86 UJ	0.63 J	0.68 J	0.65 J	3.3 B	1.4 B	0.74 B
COBALT	NA	NA	1.3 U	NA	NA	NA	NA	NA	NA	23.9	NA	NA	NA	NA
COPPER	2 U	2 U	7.5 U	4.2 UJ	2.2 B	3.2 B	2 U	2 U	2 U	5.4 U	4.7 UJ	5.4 B	3.4 B	2 U
IRON	24.8 U	22.1 U	23.2 U	52.5 U	12.2 B	13.2 B	36.2 B	25600	24800	26000	26800	77400	23000	28800
LEAD	2 U	7.2 UJ	2.0 U	2 U	2.0 U	3.5	3.00 U	2 U	2 UJ	2.0 U	2 U	2.0 U	2.0 U	3 U
MAGNESIUM	4590	5530	3920 J	4210	4220 B	2710 B	3750 B	12700	12700	13100 J	13400	19000	11700	13600
MANGANESE	78.3	NA	81.5	NA	NA	NA	NA	1850	NA	1850	NA	NA	NA	NA
MERCURY	0.08 U	0.08 U	0.09 UJ	0.09 U	0.26 U	0.09 U	0.1 U	0.08 U	0.08 U	0.12 U	0.09 U	0.26 U	0.10 U	0.29
NICKEL	NA	NA	7.1	NA	NA	NA	2 B	NA	NA	47.4	NA	NA	NA	6.7
POTASSIUM	3300 U	3300 U	1300 U	1780	4000 U	4000 U	1170 B	3300 U	3300 U	1730 J	2420	13800	4000 U	1180
SELENIUM	5 U	5 U	5.0 UJ	5 U	5.0 U	5 U	5 U	7.7 UJ	7.9 UJ	5.0 UJ	5 U	7.1 B	5.0 U	5 U
SILVER	0.8 UJ	3.9 U	2.0 UJ	2 U	2.0 U	10.8	2 U	0.8 UJ	2.5 U	2.0 UJ	2 U	2.6 B	2.0 U	2 U
SODIUM	27300	33800	25400	27400	30800	20400	25800	33000	31900	32200	32500	51900	31400	29200
THALLIUM	NA	NA	2.0 U	NA	NA	NA	4 U	NA	NA	2.0 U	NA	NA	NA	4 U
VANADIUM	NA	NA	3.1	NA	NA	NA	1 U	NA	NA	9.7	NA	NA	NA	3.7 B
ZINC	10 U	10 J	13.0 U	12.4 U	8.8 B	10.9 B	15 B	13.1	20.9	41.2 U	50.7	9.4 B	42.8	21.1

B - CRDC>reported concentration>IDL;
J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate;
NS - Not sampled; and NA - Parameter not analyzed.

Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW103S							ML-MW104S						
DATE SAMPLED	3/21/97	6/25/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/25/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
ANTIMONY	NA	NA	3.0 U	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
ARSENIC	6.4 U	11.9 U	65.5	45.8	7.3 B	13.1	NS	17.8	NA	NA	NS	21.0	7.4 B	7.4 B
BARIUM	119	160	255	366	19.2 B	157 B	NS	69.9	NA	NA	NS	120 B	125 B	125 B
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
CADMIUM	0.4 U	0.4 U	0.70 J	0.6 U	1.3 B	1.0 U	NS	0.4 U	NA	NA	NS	3.5 B	1.0 U	1 U
CALCIUM	NA	NA	68900	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
CHROMIUM	2.9 U	3.2	3.0 J	3	0.6 U	4.8 B	NS	2 U	NA	NA	NS	0.6 U	7.0 B	7 B
COBALT	NA	NA	38.9	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
COPPER	2 U	2 U	3.0 U	3 U	3.1 B	1.0 U	NS	2 U	NA	NA	NS	7.6 B	1.0 U	1 U
IRON	59200	68800	44900	52500	24600	64800	NS	113000	NA	NA	NS	155000	136000	136000
LEAD	2 U	14 UJ	6.0 U	2 U	2.0 U	2.0 U	NS	2 U	NA	NA	NS	2.0 U	2.0 U	2 U
MAGNESIUM	15700	18400	21000 J	24800	12600	17100	NS	30800	NA	NA	NS	26700	21800	21800
MANGANESE	12400	NA	6120	NA	NA	NA	NS	1380	NA	NA	NS	NA	NA	NA
MERCURY	0.07 U	0.08 U	0.09 UJ	0.26	0.27 U	1.0 U	NS	0.07 U	NA	NA	NS	0.26 U	0.09 U	0.09 U
NICKEL	NA	NA	253	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
POTASSIUM	11700	16100 J	16600	24900	4000 U	11800	NS	30000	NA	NA	NS	23200	20600	20600
SELENIUM	12.4 UJ	13.7 U	5.0 UJ	7.2 J	5.0 U	5.0 U	NS	13 UJ	NA	NA	NS	6.4 B	5.0 U	5 U
SILVER	0.8 UJ	1.4 UJ	2.0 UJ	2 U	2.0 U	2.0 B	NS	0.8 UJ	NA	NA	NS	3.0 B	4.6 B	4.6 B
SODIUM	46200	52400	65800	92700	31400	45200	NS	49200	NA	NA	NS	42400	37700	37700
THALLIUM	NA	NA	4.1	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
VANADIUM	NA	NA	16.7	NA	NA	NA	NS	NA	NA	NA	NS	NA	NA	NA
ZINC	10 U	10 U	18.9 U	25.2 U	28.7 B	9.5 B	NS	10 U	NA	NA	NS	10.1 B	24.5 B	24.5 B

B - CRDC>reported concentration>IDL;
J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate;
NS - Not sampled; and NA - Parameter not analyzed.

Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW105R							ML-MW105S						
DATE SAMPLED	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA
ANTIMONY	NA	NA	3.0 U	NA	NA	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA
ARSENIC	4.4 U	4.1 U	2.7 U	2 U	2.0 U	2.0 U	2 U	4.1 U	7.7 U	3.0 U	3.1 J	4.2 B	3.1 B	3.1 B
BARIUM	4.1 U	2.2 U	2.0 J	11 U	1.3 B	1.1 B	1.1 B	222	54.1	39.7	35.6 U	336	236	236
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
CADMIUM	0.4 U	1.1 U	0.60 U	0.6 U	1.0 U	1.0 U	1 U	0.4 U	0.4 U	0.60 U	0.6 U	2.3 B	1.0 U	1 U
CALCIUM	NA	NA	5830	NA	NA	NA	NA	NA	NA	10700	NA	NA	NA	NA
CHROMIUM	0.6 U	0.6 U	0.50 U	0.5 U	0.6 U	0.60 U	0.6 U	1.6 U	0.81 J	0.50 U	0.5 U	1.3 B	5.4 B	5.4 B
COBALT	NA	NA	2.4 U	NA	NA	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA
COPPER	2 U	2 U	5.7 J	3 U	2.8 B	2.3 B	2.3 B	2.3 UJ	2 U	3.0 U	3 U	13.2 B	2.3 B	2.3 B
IRON	133 U	28.3 U	80.0 U	122 U	76.2 B	73.5 B	73.5 B	64100	13600	13200	11600	114000	83100	83100
LEAD	2 U	17.4 J	2.0 U	2 U	2.0 U	2.0 U	2 U	5.2 J	13.5 J	3.0 U	2 U	2.0 U	2.0 U	2 U
MAGNESIUM	4480	4450	3490 J	3370	3770 B	3460 B	3460 B	13200	5890	4810 J	3860	18600	12900	12900
MANGANESE	191	NA	94.5	NA	NA	NA	NA	370	NA	384	NA	NA	NA	NA
MERCURY	0.07 U	0.08 U	0.13 U	0.09 U	0.26 U	0.18 B	0.18 B	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	0.17 B	0.18 B
NICKEL	NA	NA	9.4	NA	NA	NA	NA	NA	NA	3.7 J	NA	NA	NA	--
POTASSIUM	3300 U	3300 U	1300 U	1300 U	4000 U	4000 U	4000 U	13500	7500 J	3250	3660	17900	13100	13100
SELENIUM	5 U	5 U	5.0 UJ	6.4 J	5.0 U	5.0 U	5 U	5.4 UJ	5 U	5.0 UJ	5 U	5.0 U	5.0 U	5 U
SILVER	0.8 UJ	3.2 U	2.0 UJ	2 U	2.0 U	2.2 B	2.2 B	0.8 UJ	3.2 U	2.0 UJ	2 U	2.0 U	2.0 U	2 U
SODIUM	9800	10000	9930	6740	8790	7340	7340	22400	13700	11800	9120	24700	19500	19500
THALLIUM	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA	NA	--
VANADIUM	NA	NA	2.6	NA	NA	NA	NA	NA	NA	4.4	NA	NA	NA	--
ZINC	13.1 J	10 U	9.0 U	7.8 UJ	9.0 B	7.3 B	7.3 B	12.3 J	29.8	20.0 U	11.2 UJ	44.4	164	164

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Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW107R							ML-MW108R						
DATE SAMPLED	3/19/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA
ANTIMONY	NA	NA	3.0 UJ	NA	NA	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA
ARSENIC	341	210	288	216	325	368 B	368 B	62.2	48.3	31.3	10.9	56.5	52.2 B	52.2 B
BARIUM	22 U	14.4 U	42.3 J	42.3 U	26.6 B	4.2 B	4.2 B	36.4 U	39.8	33.2	41.5 U	41.2 B	1.1 B	1.1 B
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
CADMIUM	0.4 U	0.4 U	3.0 J	0.6 U	10.5	4.1 B	4.1 B	0.4 U	0.4 U	0.60 U	0.6 U	2.4 B	0.63 B	0.63 B
CALCIUM	NA	NA	47300	NA	NA	NA	NA	NA	NA	34200	NA	NA	NA	NA
CHROMIUM	3.1 U	1.9	7.7 J	6.9	1.5 B	1.0 U	1.0 U	3.1 U	2.4	1.9 J	1	0.62 B	1.0 U	1.0 U
COBALT	NA	NA	338	NA	NA	NA	NA	NA	NA	68.9	NA	NA	NA	NA
COPPER	3.2 UJ	2 U	3.0 U	3 U	5.1 B	69300	69300	2 U	2 U	9.9 U	4.4 U	2.9 B	10500	10500
IRON	78600	56500	120000	11200	67600	2.0 U	2.0 U	14400	11900	8080	5910	11800	2.0 U	2.0 U
LEAD	2 U	12.5 J	2.0 U	2 U	2.0 U	8620	8620	2 U	15.7 J	3.9 U	2 U	2.0 U	35500	35500
MAGNESIUM	13000	8070	15900 J	16300	9460	0.09 U	0.09 U	40900	44700	37100 J	39900	36800	0.09 U	0.09 U
MANGANESE	10700	NA	17900	NA	NA	NA	NA	3680	NA	3630	NA	NA	NA	NA
MERCURY	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	9330	9330	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	4000 U	4000 U
NICKEL	NA	NA	52.9	NA	NA	NA	NA	NA	NA	64.0	NA	NA	NA	NA
POTASSIUM	13700	8790 J	15700	14500	11300	5.0 U	5.0 U	87400	85600 U	76900	81500	4000.0 U	5.0 U	5.0 U
SELENIUM	20.5 U	9.1 UJ	5.0 UJ	21.3	5.1 B	2.0 U	2.0 U	14.6 UJ	5 U	5.0 UJ	5 U	5.0 U	45.5	45.5
SILVER	0.8 UJ	1.5 UJ	2.0 UJ	2 U	3.6 B	14700	14700	0.8 UJ	2 U	2.0 UJ	2 U	2 U	166000	166000
SODIUM	25500	18700	26500	27300	16000	7.3 B	7.3 B	199000	204000	182000	21500	193000	10.1 B	10.1 B
THALLIUM	NA	NA	11.6 J	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA	NA	NA
VANADIUM	NA	NA	12.4 J	NA	NA	NA	NA	NA	NA	25.3	NA	NA	NA	NA
ZINC	21.1	13.9 J	57.0 J	38.7 U	10.5 B	NA	NA	10 U	14.3 J	9.4 U	10.3 UJ	14.9 B	NA	NA

B - CRDC>reported concentration>IDL;
J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate;
NS - Not sampled; and NA - Parameter not analyzed.

Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW111R							ML-MW112S						
DATE SAMPLED	3/20/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NA	NA	NA	15.0 U	NA	NA	NA	NA
ANTIMONY	NA	NA	3.0 U	NA	NA	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA
ARSENIC	70.9	103	117	109	87.9	84.4	84.4	17.7	28.3	27.6	28.3	14.3	19.9	19.9
BARIUM	70.2	53.7	54.7	54.2 U	37.8 B	30.6 B	30.6 B	22.8 U	35	20.9	33.2 U	22.5 B	61.4 B	61.4 B
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	NA	NA	NA	1.0 U	NA	NA	NA	NA
CADMIUM	0.4 UJ	0.4 U	0.60 U	0.6 U	2.7 B	1.2 B	1.2 B	0.4 U	0.4 U	0.60 U	0.6 U	1.4 B	2.2 B	2.2 B
CALCIUM	NA	NA	146000	NA	NA	NA	NA	NA	NA	6330	NA	NA	NA	NA
CHROMIUM	2.8 U	1.2	9.2 J	0.5 U	0.6 U	0.60 U	0.60 U	0.6 U	0.6 U	0.50 U	0.5 U	0.6 U	4.1 B	4.1 B
COBALT	NA	NA	12.4	NA	NA	NA	NA	NA	NA	3.7	NA	NA	NA	NA
COPPER	2 U	2 U	13.8 U	4.6 UJ	1.0 U	1.0 U	1.0 U	2 U	2 U	7.9 U	5.8 UJ	2.9 B	2.5 B	2.5 B
IRON	3300	3420	3160	2790	1530	1390	1390	20500	23000	22000	19700	23600	57700	57700
LEAD	2 U	10.7 UJ	4.8 U	2 U	2.0 U	2.0 U	2.0 U	2 U	12.3 J	3.1 U	2 U	2.0 U	2.0 U	2.0 U
MAGNESIUM	61600	59100	56700 J	52100	37800	34200	34200	3240	3510	2880 J	2890	3260 B	4320 B	4320 B
MANGANESE	2770	NA	2120	NA	NA	NA	NA	501	NA	494	NA	NA	NA	NA
MERCURY	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	0.09 B	0.09 B	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	0.09 B	0.09 B
NICKEL	NA	NA	5.2 J	NA	NA	NA	NA	NA	NA	5.5 J	NA	NA	NA	NA
POTASSIUM	40900	24800 J	21400	25200	31300	32900	32900	3300 U	4120 J	2780	1940	4000 U	4000 U	4000 U
SELENIUM	9.3 UJ	5 U	8.3 J	5 U	5.0 U	5.0 U	5.0 U	6.4 UJ	5 U	5.0 UJ	5 U	5.0 U	5.0 U	5.0 U
SILVER	0.8 UJ	0.83 UJ	2.0 UJ	2 U	2.0 U	51.5	51.5	0.9 UJ	3.7 U	2.0 UJ	2 U	2.0 U	36.7	36.7
SODIUM	236000	197000	207000	212000	212000	180000	180000	10400	10800	9410	8800	10000	11000	11000
THALLIUM	NA	NA	2.0 U	NA	NA	NA	NA	NA	NA	2.0 U	NA	NA	NA	NA
VANADIUM	NA	NA	35.6	NA	NA	NA	NA	NA	NA	2.9	NA	NA	NA	NA
ZINC	10 U	10 U	7.4 U	7 UJ	4.6 B	4.0 B	4.0 B	20.3	15.3 J	13.5 U	12.7 U	21.0 B	41.4	41.4

B - CRDC>reported concentration>IDL;
J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate;
NS - Not sampled; and NA - Parameter not analyzed.

Table A-2
Aqueous Filtered TAL Metals Analysis (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW113S						
DATE SAMPLED	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALUMINUM	NA	NA	15.0 U	NA	NA	NA	NA
ANTIMONY	NA	NA	3.0 U	NA	NA	NA	NA
ARSENIC	2 U	4.2	2.6 U	2 U	2.7 B	2.0 U	2.0 U
BARIUM	8.1 U	37.8	10.2	16 U	3.2 B	8.0 B	8.0 B
BERYLLIUM	NA	NA	1.0 U	NA	NA	NA	NA
CADMIUM	0.4 U	0.48 U	0.60 U	0.6 U	1.0 U	1.0 B	1.0 B
CALCIUM	NA	NA	6040	NA	NA	NA	NA
CHROMIUM	0.6 U	0.6 U	0.50 U	0.5 U	0.6 U	0.60 U	0.60 U
COBALT	NA	NA	1.9 J	NA	NA	NA	NA
COPPER	8.7 U	2 U	6.7 U	6.9 U	7.9 B	5.7 B	5.7 B
IRON	214 U	3430	278	506	15.2 B	1590	1590
LEAD	5.4 J	13.4 J	3.5 U	2 U	2.0 U	8.7	8.7
MAGNESIUM	3080	3450	3020 J	2790	2640 B	2280 B	2280 B
MANGANESE	61.6	NA	123	NA	NA	NA	NA
MERCURY	0.07 U	0.08 U	0.09 UJ	0.09 U	0.2 U	0.09 U	0.09 U
NICKEL	NA	NA	3.2 J	NA	NA	NA	NA
POTASSIUM	3300 U	3300 U	1730 J	1970	4000 U	4000 U	4000 U
SELENIUM	5 U	5 U	5.0 UJ	5 U	5.0 U	5.0 U	5.0 U
SILVER	0.8 UJ	4 U	2.0 UJ	2 U	2.0 U	65.8	65.8
SODIUM	8100	10900	8630	6200	7970	3.0 U	3.0 U
THALLIUM	NA	NA	2.0 U	NA	NA	NA	NA
VANADIUM	NA	NA	2.1	NA	NA	NA	NA
ZINC	46.3	27.6 J	38.8 U	17.1	10.8 B	26.1 B	25.1 B

B - CRDC>reported concentration>IDL;
J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate;
NS - Not sampled; and NA - Parameter not analyzed.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW101R							ML-MW103R						
DATE SAMPLED	3/21/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98	3/21/97	6/25/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	10 U	10	11	17	10 U	11	13	130	150	150	130	140	150	120
AMMONIA	0.3 J	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	5.7	0.1 U	0.1 U	0.2	0.4	0.1 U
CHLORIDE	8 U	70	55	58	64	56	52	8 U	70	9	72	76	50	110
COD	61 U	8 U	8 U	8 U	27 U	8 U	27 U	76 U	6 U	8	8 U	27 U	8 U	27 U
CONDUCTIVITY	240	281	304 J	349	250	262	258	270	590	561 J	549	447	541	547
FLUORIDE	1 U	1 U	0.07 J	0.2	0.13	0.2	0.19	1 U	1 U	0.17 J	0.2	0.18	0.23	0.25
NITRATE/NITRITE	2 J	2.1	3.5	2.6	2.2	1.5	1.2	0.03 UJ	0.08 U	8 U	0.08 U	0.8 U	0.08 U	0.08 U
PH	5.5	5.4 J	5.4	5.6	5.4	5.53	5.5	6	6.1 J	5.9	6	6.2	6.1	6.1
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SULFATES	12	11	13	17	19	17	20	38	39	35	38	39	37	44
TOC	1 U	1 U	6	1 U	3.1	25	1.7	1	2.3	8	1.7	10	28	4.6
TPH	1 U	0.2	1.0 U	1 U	NA	0.5 U	0.5	1 U	2.3	1.0 U	1 U	NA	0.5 U	0.5 U
TURBIDITY	0.3	1 U	0.1 J	0.1	0.1 U	0.1 U	0.4	7.5	1 U	5.0 J	1	0.16	4	3.5

J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate, and
____ - Not Sampled.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW103S							ML-MW104S						
DATE SAMPLED	3/21/97	6/25/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/25/97	9/11/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	300	360	360	86	400	490	480	560	___	___	NS	570	700	NS
AMMONIA	8.4	9.5 J	13	16	18	12	0.2	47	___	___	NS	48	42	NS
CHLORIDE	49	44 J	110	120	78	60	100	81	___	___	NS	65	45	NS
COD	91 U	26	96	81	210	120	163	110	___	___	NS	160	120	NS
CONDUCTIVITY	620	1025	1000 J	1110	590	952	NS	1700	___	___	NS	837	1120	NS
FLUORIDE	1 U	1.4	0.31 J	0.46	0.25	0.4	NS	1	___	___	NS	0.17 U	0.33	NS
NITRATE/NITRITE	0.03 UJ	0.23 J	8 U	0.08 U	0.8 U	0.8 U	NS	0.03	___	___	NS	0.8 U	0.8 U	NS
PH	6	6.1 J	6.8	NA	6.2	6.2	6.1	6.3	___	___	NS	6.4	6.4	NS
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.3	0.1	0.1 U	0.1	___	___	NS	0.1	0.1	NS
SULFATES	6 U	6 U	6 U	6 U	7 U	25 U	NS	6	___	___	NS	76	25 U	NS
TOC	17	18	51	27.7	65	97	NS	28	___	___	NS	88	95	NS
TPH	1 U	25	1.0 U	1 U	NA	0.5 U	6.8	1	___	___	NS	NA	0.5 U	NS
TURBIDITY	23	1 U	50 J	40	9	30	NS	180	___	___	NS	24	420	NS

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U - Value is not detected; UJ - Detection limit is approximate; and
____ - Not Sampled.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW105R							ML-MW105S						
DATE SAMPLED	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	22	25	24	25	24	19	24	200	81	80	62	320	500	170
AMMONIA	0.1 U	0.1 J	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	14	7.6	2.8	3.4	32	26	0.1 U
CHLORIDE	8 U	19	18	17	18	13	14	43	24	80	15	28	30 U	21
COD	13 U	8 U	8 U	8 U	27 U	8 U	27 U	32 U	8	12	12	120	110	64
CONDUCTIVITY	150	134	147 J	136	148	152	145	650	284	277 J	238	578	857	545
FLUORIDE	1 U	0.1 U	0.11 J	0.12	0.16	0.26	0.26	1 U	0.1 U	0.12 J	0.16	0.25	0.32	0.13
NITRATE/NITRITE	0.93 J	1	1.2	0.91	1.3	1.4	0.97	0.44 J	0.49	16	0.45	0.8 U	0.8 U	4 U
PH	6.1	5.9	6.0	6	5.9	6	6	6.6	6.3	6.2	6.1	6.8	6.6	6.4
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SULFATES	12	9	10	11	13	12	14	6 U	12	15	17	7 U	25 U	22
TOC	2	1 U	5 U	1 U	1.5	24	1	13	5	29	5.4	1	91	22
TPH	1 U	0.72 J	1.0 U	1 U	NA	0.5	0.5 U	1 U	6.8	1.0 U	1 U	NA	0.5 U	0.5 U
TURBIDITY	0.52	1 U	1 UR	1	0.13	2.5	48	130 J	1 U	6.0 J	20	0.1	160	48

J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate; and
____ - Not Sampled.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW107R							ML-MW108R						
DATE SAMPLED	3/19/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	170	110	270	270	210	220	90	760	770	730	770	150	820	740
AMMONIA	9.2	0.2	13	13	13	8	0.1 U	63	73	63	62	77	74	0.1 U
CHLORIDE	29	50	3 U	48	31	30 U	20 U	47	170	160	200	140	170	160
COD	52 U	8 U	39	31	27 U	8 U	27 U	180 U	8 U	44	31	48	41	29
CONDUCTIVITY	860	616	966 J	746	490	502	551	1400	2031	1870 J	1920	1200	1820	1740
FLUORIDE	1 U	1 U	0.33 J	0.36	0.23	0.31	0.27	1 U	2.4	0.45 J	0.54	0.47	0.51	0.57
NITRATE/NITRITE	0.03 UJ	0.08 U	15	0.4 U	0.8 U	0.8 U	0.8 U	0.04 J	0.8 U	0.42	0.65	0.8 U	0.8 U	0.77
PH	6.3	6.3	5.7	6.2	6.3	6.3	5.8	6.6	6.6 J	6.6	5.8	6.7	6.61	6.7
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SULFATES	55	43	210	200	68	25 U	72	6 U	6 U	210	6 U	7 U	14 U	14 U
TOC	6.23	3.7	20	8.4	9.3	45	10	16	15	141	14.1	24	34	24
TPH	1 U	28	1.0 U	1 U	NA	0.5 U	0.5 U	1 U	37	1.0 U	1 U	NA	0.5 U	0.5 U
TURBIDITY	95	1 U	40 J	30	8.2	62	20	60	1 U	30 J	30	4.5	75	50

J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate; and
____ - Not Sampled.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW111R							ML-MW112S						
DATE SAMPLED	3/21/97	6/25/97	9/10/97	1/8/98	4/16/98	7/15/98	10/22/98	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	250	200 J	230	230	300	370	400	39	4.8	52	37	45	160	46
AMMONIA	13	0.8 J	12	13	23	20	0.1 U	0.7	1.2	0.7	0.1 U	1.2	0.1 U	0.1 U
CHLORIDE	24	590	560	490	500	440	440	11	22	19	19	21	20	15
COD	3 U	8 U	16	8 U	27 U	28	42	15 U	8 U	10	9	27 U	61	27 U
CONDUCTIVITY	2700	2174	1980 J	1870	1260	1660	1830	220	174	164 J	150	190	355	176
FLUORIDE	1 U	2.5	0.48 J	0.56	0.61	0.65	0.75	1 U	1 U	0.44 J	0.15	0.12	0.26	0.22
NITRATE/NITRITE	0.03 UJ	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.53 J	0.8 UJ	8 U	0.19	0.8 U	0.8 U	0.8 U
PH	7.2	7 J	7.0	6	7.3	7.39	7.6	6.3	6.3 J	6.5	6.1	6.2	6.42	6.2
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SULFATES	66	85 J	80	79	34	31	11	6 U	9.2	6 U	11	13	25 U	13
TOC	9	6.2	8	4.3	12	31	14	3	2.9	9.32	4	8.2	46	5.2
TPH	1 U	23	1.0 U	1 U	NA	0.5 U	0.5 U	1 U	22	1.0 U	1 U	NA	0.5 U	0.5 U
TURBIDITY	27	2	20 J	20	1.44	20	11	5.7	1 U	30 J	20	6	300	8

J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate; and
____ - Not Sampled.

Table A-3
Aqueous Wet Chemistry and TPH Analyses (ug/L)
NAVSTA, McAllister Point Landfill, Annual Groundwater Sampling Report (1998)

SAMPLE NUMBER	ML-MW113S						
DATE SAMPLED	3/20/97	6/24/97	9/9/97	1/8/98	4/16/98	7/15/98	10/22/98
ALKALINITY,AS CACO3	20	29	22	23	21	25	21
AMMONIA	0.1 U	0.6	0.2	0.1 U	0.1 U	0.1 U	0.1 U
CHLORIDE	19	19	20	15	17	14	14
COD	12 U	8 U	8 U	8 U	27 U	8 U	27 U
CONDUCTIVITY	140	126	151 J	126	154	153	146
FLUORIDE	1 U	0.1 U	0.23 J	0.14	0.28	0.17	0.22
NITRATE/NITRITE	0.19 J	1.3 J	0.87	0.84	1.4	4.9	0.65
PH	5.9	5.9	6.1	5.8	5.9	5.87	5.9
PHENOLS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SULFATES	12	11	11	12	12	12	13
TOC	1 UJ	1.4	5 U	1 U	4.5	16	3
TPH	1 U	2.7	1.0 U	1 U	NA	0.5 U	18
TURBIDITY	0.35	1 U	1 UR	0.8	0.15	5	1.8

J - Quantitation is approximate; R - Value is rejected;
U - Value is not detected; UJ - Detection limit is approximate; and
____ - Not Sampled.

TABLE A-4
SUMMARY OF ANALYTICAL PARAMETERS
VOLATILE ORGANIC COMPOUNDS
McALLISTER POINT LANDFILL
NAVSTA NEWPORT RHODE ISLAND

COMPOUND	QD/QL	AWQC	COMMENTS
Chloromethane	5	NA	
Bromomethane	5	NA	
Vinyl chloride	5	NA	
Chloroethane	5	NA	
Methylene chloride	5	NA	
Acetone	5	NA	
Carbon disulfide	5	NA	
1,1-Dichloroethene	5	NA	
1,1-Dichloroethane	5	NA	
1,2-Dichloroethene (total)	10	11600	
Chloroform	5	NA	
1,2-Dichloroethane	5	NA	
2-Butantone	5	NA	No analysis completed for 3/97 sampling event.
Methyl ethyl ketone	5	NA	
1,1,1-Trichloroethane	5	31200	
Carbon tetrachloride	5	NA	
Bromodichloromethane	5	NA	
1,2-Dichloropropane	5	NA	
Cis-1,3-dichloropropene	5	NA	
Trichloroethene	5	NA	
Dibromochloromethane	5	NA	
1,1,2-Trichloroethane	5	NA	
Benzene	5	700	
Trans-1,3-dichloropropene	5	NA	
Bromoform	5	NA	
4-Methyl-2-pentanone	5	NA	
2-Hexanone	5	NA	
Tetrachloroethene	5	NA	
1,1,1,2-Tetrachloroethane	5	2000	
Toluene	5	5000	
Chlorobenzene	5	129	
Ethylbenzene	5	430	
Styrene	5	NA	
Xylene (total)	5	1.8	
Vinyl acetate	5	NA	
1,2,4-Trimethylbenzene	5	NA	Analysis for Sept-97 and Oct-98 samples only
1,3,5-Trimethylbenzene	5	NA	Analysis for Sept-97 and Oct-98 samples only
n-Butylbenzene	5	NA	Analysis for Sept-97 and Oct-98 samples only
sec-Butylbenzene	5	NA	Analysis for Sept-97 and Oct-98 samples only
4-Isopropyltoluene	5	NA	Analysis for Sept-97 and Oct-98 samples only

COMPOUND	QL/DL	AWQC	COMMENTS
n-Nitrosodimethylamine	10	NA	
Pyridine	10	NA	
Aniline	10	NA	
Phenol	10	2560	
bis (2-Chloroethyl) Ether	10	NA	
2-Chlorophenol	10	4380	
1,3-Dichlorobenzene	10	129	
1,4-Dichlorobenzene	10	129	
Benzyl Alcohol	10	NA	
1,2-Dichlorobenzene	10	129	
2-Methylphenol	10	NA	
bis(2-chloroisopropyl)ether	10	NA	
2,2'-oxybis(1-Chloropropane)	10	NA	
4-Methylphenol	10	NA	
N-Nitroso-di-n-propylamine	10	NA	
Hexachloroethane	10	NA	
Nitrobenzene	10	NA	
Isophorone	10	NA	
2-Nitrophenol	10	NA	
2,4-Dimethylphenol	10	2120	
bis(2-Chloroethoxy) methane	10	NA	
Benzoic Acid	10	NA	
2,4-Dichlorophenol	10	NA	
1,2,4-Trichlorobenzene	10	NA	
Naphthalene	10	620	
4-Chloroaniline	10	NA	
Hexachlorobutadiene	10	NA	
4-Chloro-3-Methylphenol	10	29700	
2-Methylnaphthalene	10	300	
Hexachlorocyclopentadiene	10	NA	
2,4,6-Trichlorophenol	10	NA	
2,4,5-Trichlorophenol	10	NA	
2-Chloronaphthalene	10	NA	
2-Nitroaniline	10	NA	
Dimethylphthalate	10	NA	
Acenaphthylene	10	300	
2,6-Dinitrotoluene	10	370	
3-Nitroaniline	10	NA	
Acenaphthene	10	710	
2,4-Dinitrophenol	10	NA	
4-Nitrophenol	10	NA	
Dibenzofuran	10	20	
2,4-Dinitrotoluene	10	NA	
Diethylphthalate	10	3.4	
4-Chlorophenyl-phenylether	10	NA	
Fluorene	10	300	
4-Nitroaniline	10	NA	
4,6-Dinitro-2-methylphenol	10	NA	
N-nitrosodiphenylamine	10	3850	
Azobenzene	10	NA	
4-Bromophenyl-phenylether	10	NA	
Hexachlorobenzene	10	NA	
Pentachlorophenol	10	NA	
Phenanthrene	10	4.6	
Anthracene	10	300	
Carbazole	10	NA	
Di-n-butylphthalate	10	3.4	
Fluoranthene	10	16	
Benzidine	10	NA	
Pyrene	10	300	
Butylbenzylphthalate	10	NA	
3,3'-Dichlorobenzidine	10	NA	
Benzo(a)anthracene	10	300	
Chrysene	10	300	
bis (2-Ethylhexyl) phthalate	10	360	
Di-n-octylphthalate	10	NA	
Benzo(b)fluoranthene	10	300	
Benzo(k)fluoranthene	10	300	
Benzo(a)pyrene	10	300	
Indeno(1,2,3-cd)pyrene	10	300	
Dibenz(a,h)anthracene	10	NA	
Benzo(g,h,i)perylene	10	300	

TABLE A-3
SUMMARY OF ANALYTICAL PARAMETERS
TOTAL AND DISSOLVED METALS
McALLISTER POINT LANDFILL
NAVSTA NEWPORT RHODE ISLAND

METALS	AWQC	COMMENTS
Total		
Antimony	500	
Arsenic	36	
Barium	3.9	
Beryllium	5.3	
Cadmium	9.3	
Chromium	50	
Cobalt	3	
Copper	2.4	
Iron	1000	
Lead	8.1	
Magnesium	NA	
Manganese	80	
Mercury	0.025	
Nickel	8.2	
Potassium	NA	
Selenium	71	
Silver	0.92	
Sodium	NA	
Thallium	NA	
Vanadium	19	
Zinc	81	
Dissolved		
Arsenic	36	
Barium	3.9	
Cadmium	9.3	
Chromium	50	
Copper	2.4	
Iron	1000	
Lead	8.1	
Magnesium	NA	
Manganese	80	
Mercury	0.025	
Potassium	NA	
Selenium	71	
Silver	0.92	
Sodium	NA	
Zinc	81	

BOLD - Indicates analyte identified on O&M Plan.
NA - AWQC value for contaminant was not available.
AWQC - Concentrations in parts-per-billion.
QL/DL - Quanitation limit (for organics) and Detection limit (for metals) in ug/kg, reported by laboratory.

Figure A-1
MW-103S; Total Volatile Organic Compounds and Xylene

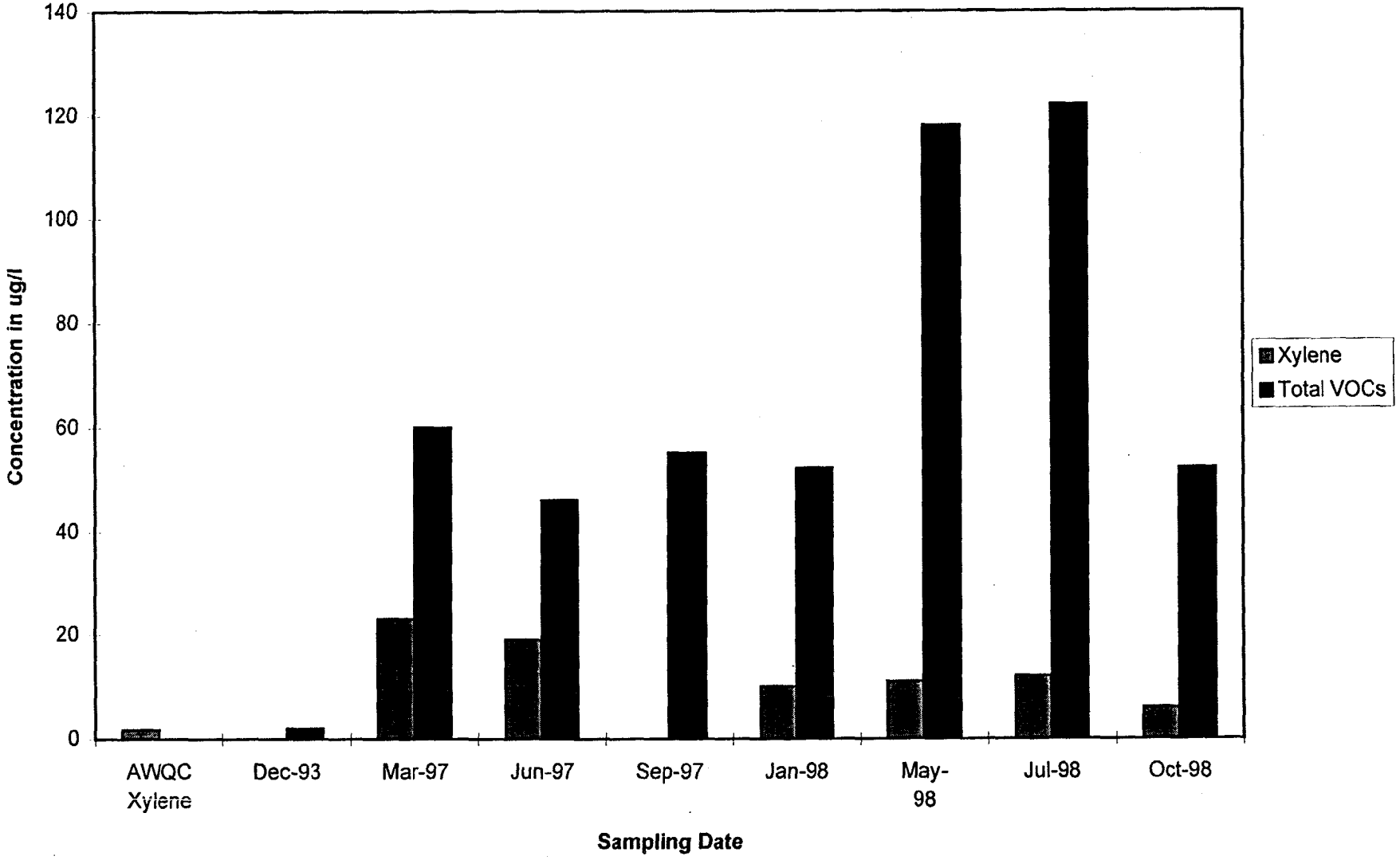


Figure A-2
MW-104S; Total Volatile Organic Compounds and Xylene

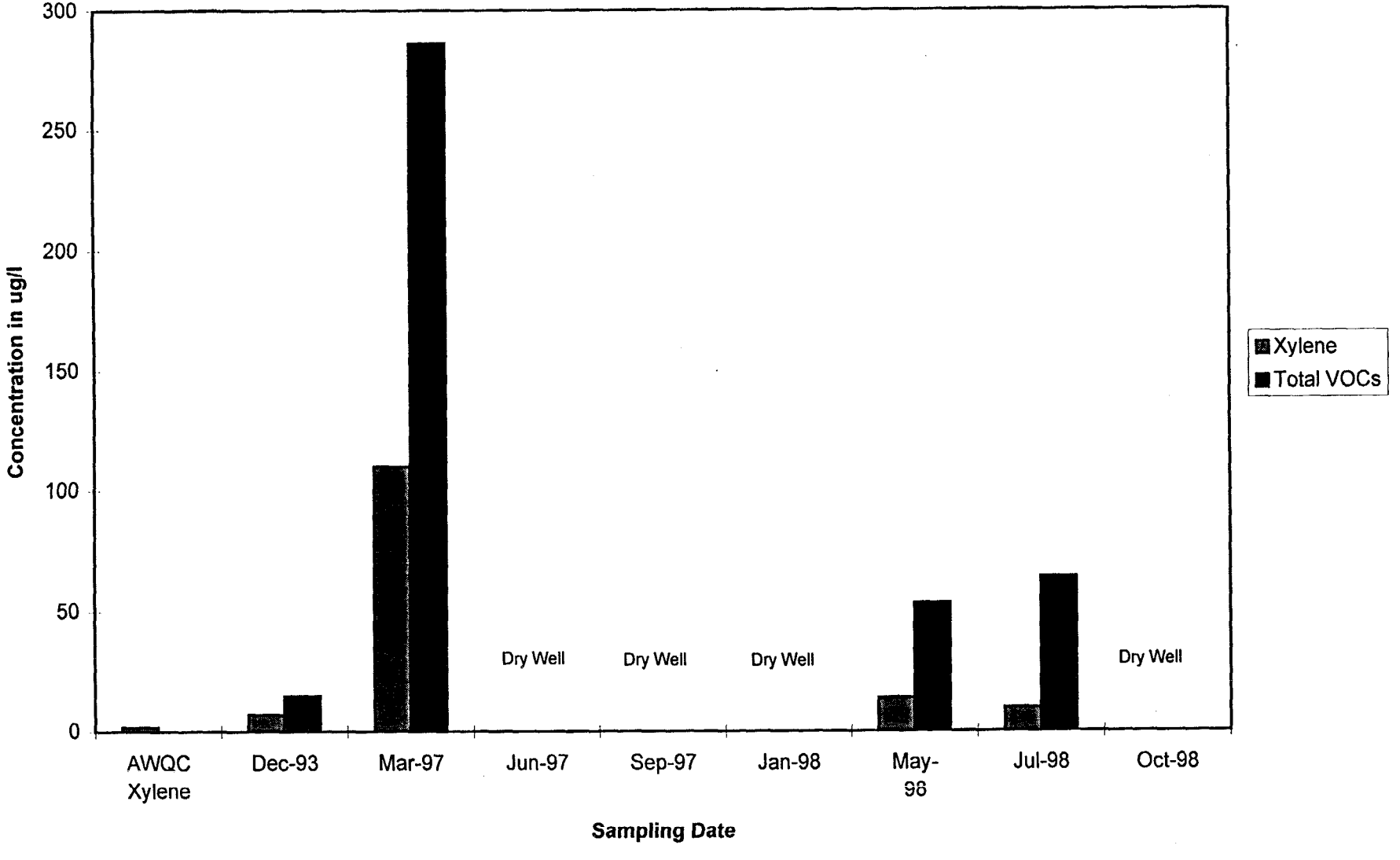


Figure A-3
MW-105S; Total Volatile Organic Compounds and Xylene

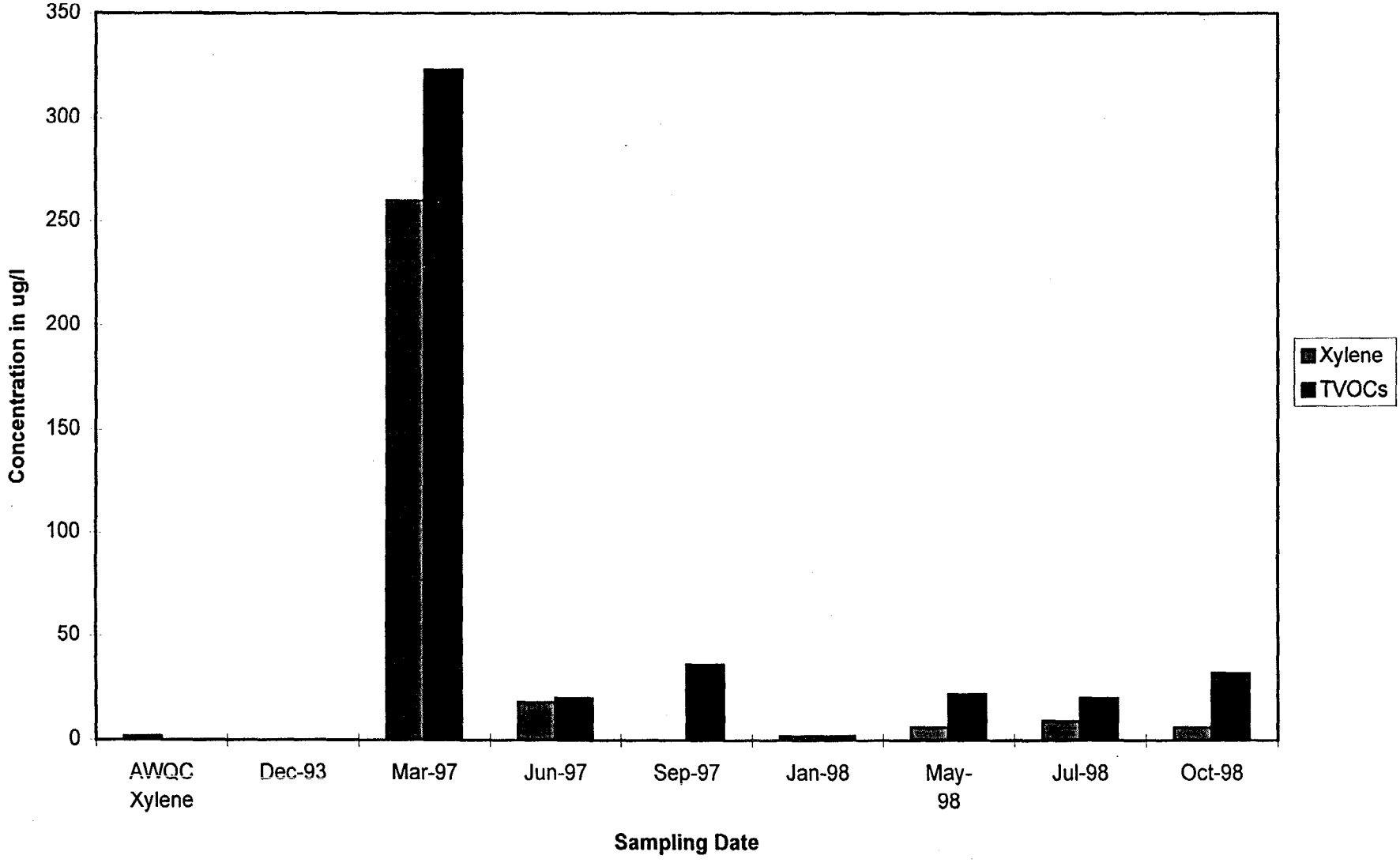


Figure A-4
MW-103S and MW-103R; Semivolatile Organic Compounds

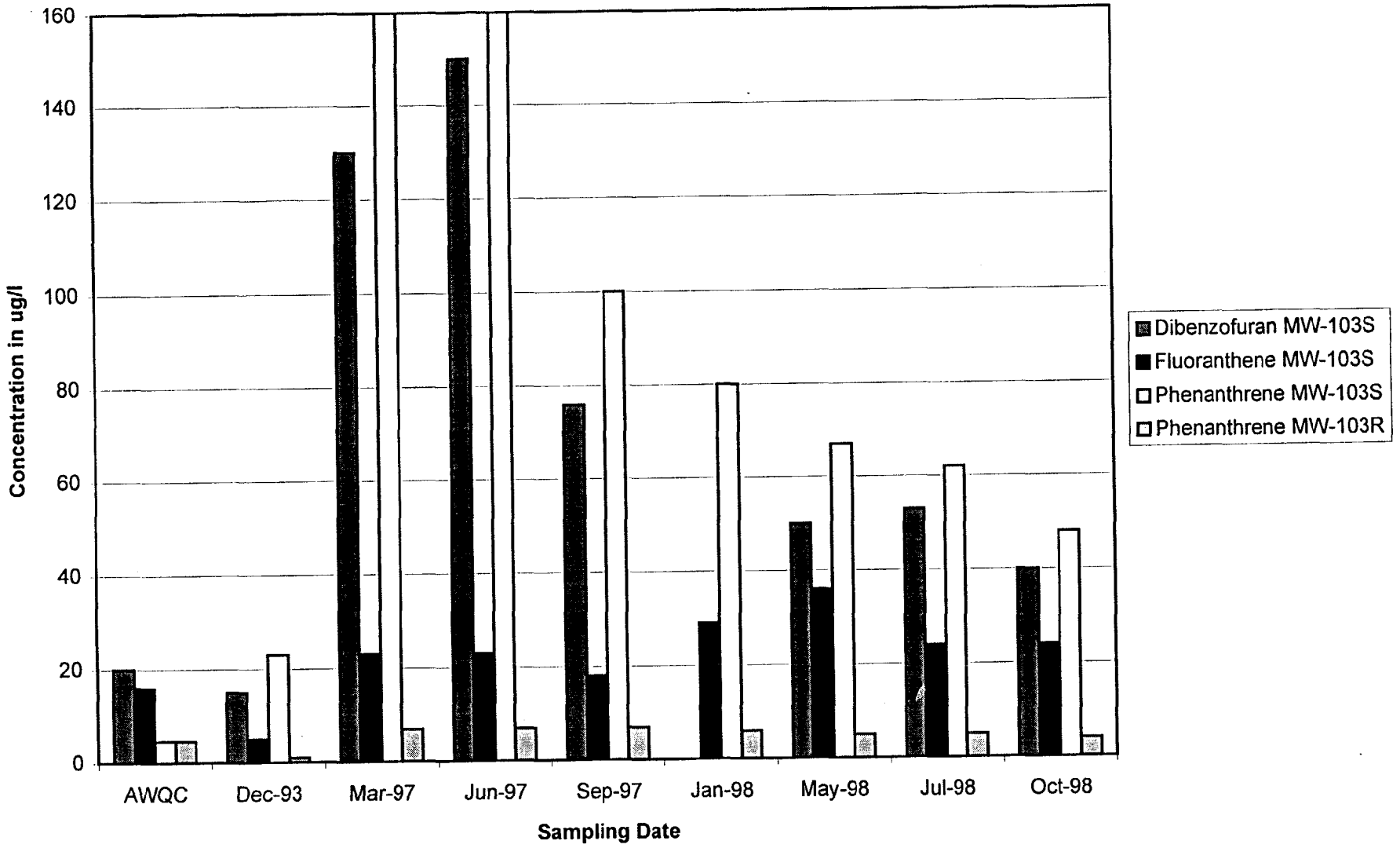


Figure A-5
MW-103S; Naphthalene

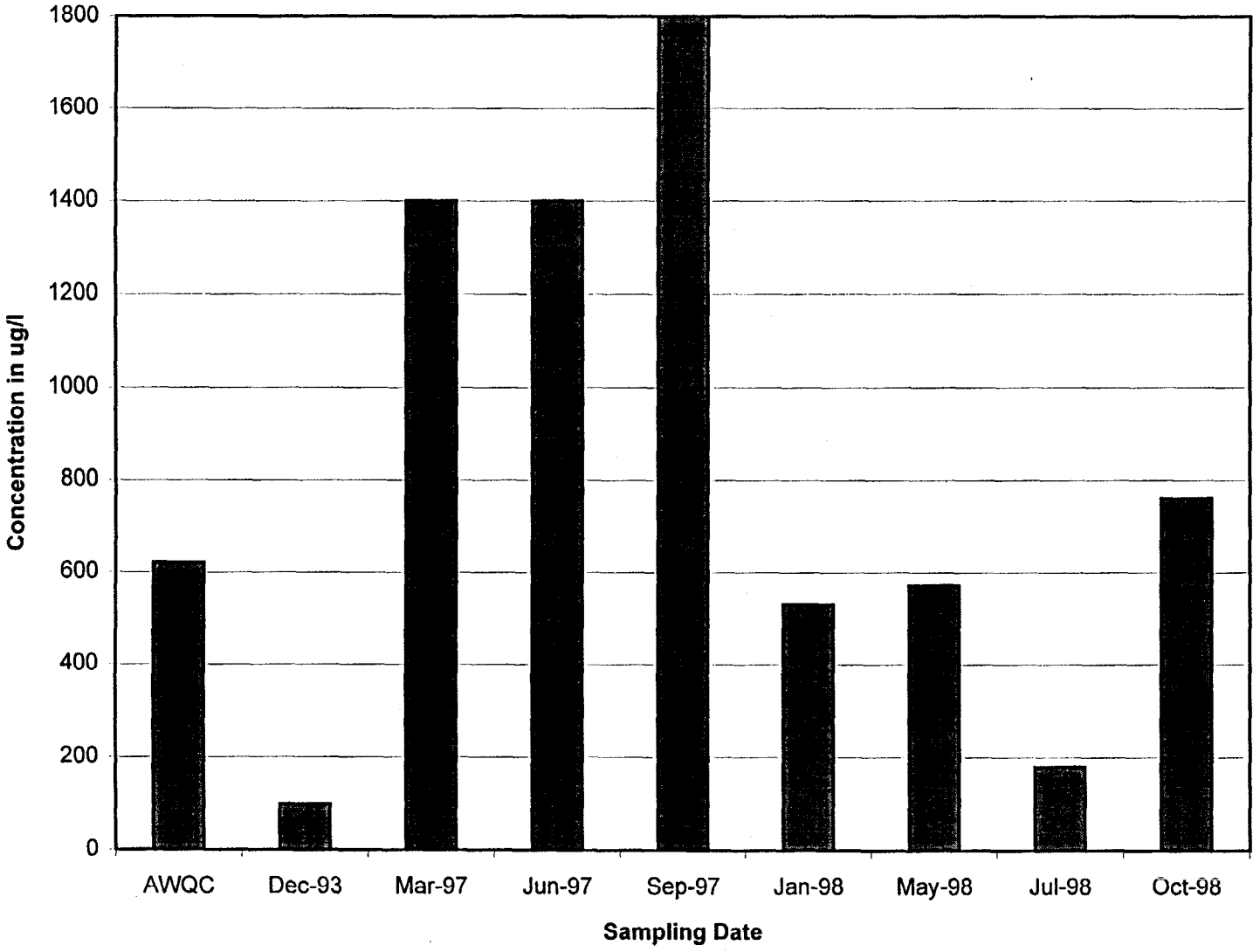


Figure A-6
Arsenic Concentrations

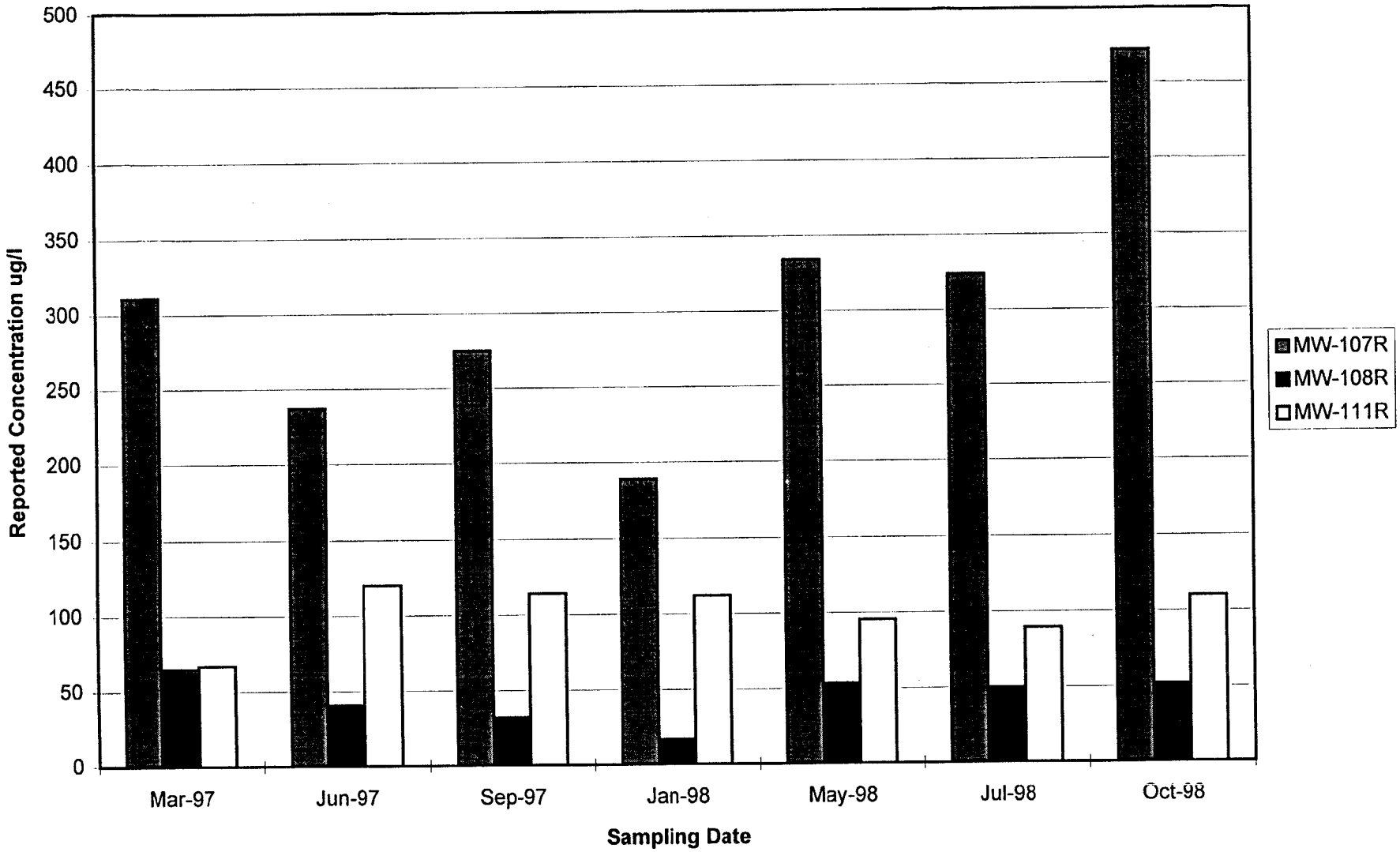


Figure A-7
Arsenic, Relative Concentrations

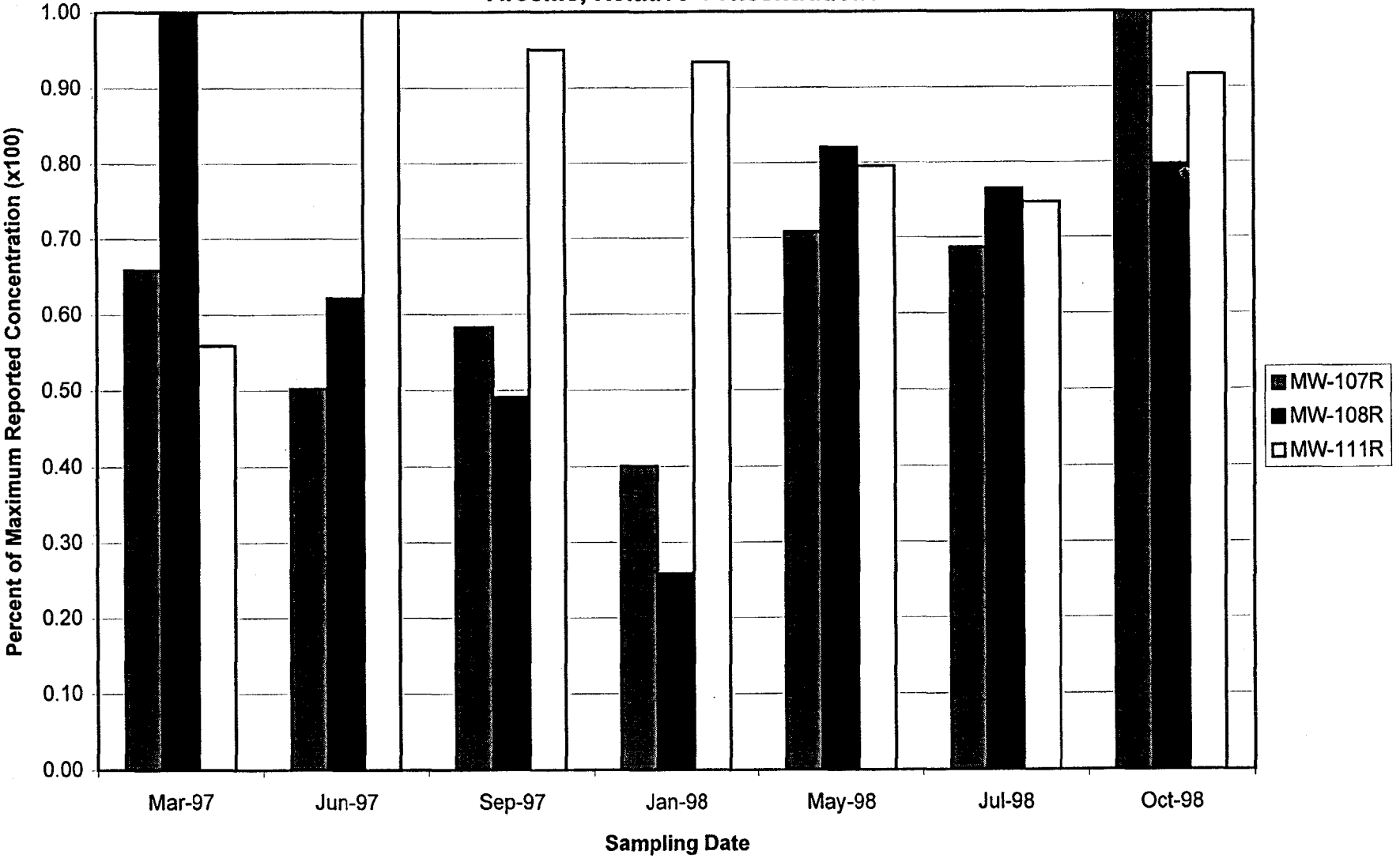


Figure A-8
Barium Concentrations

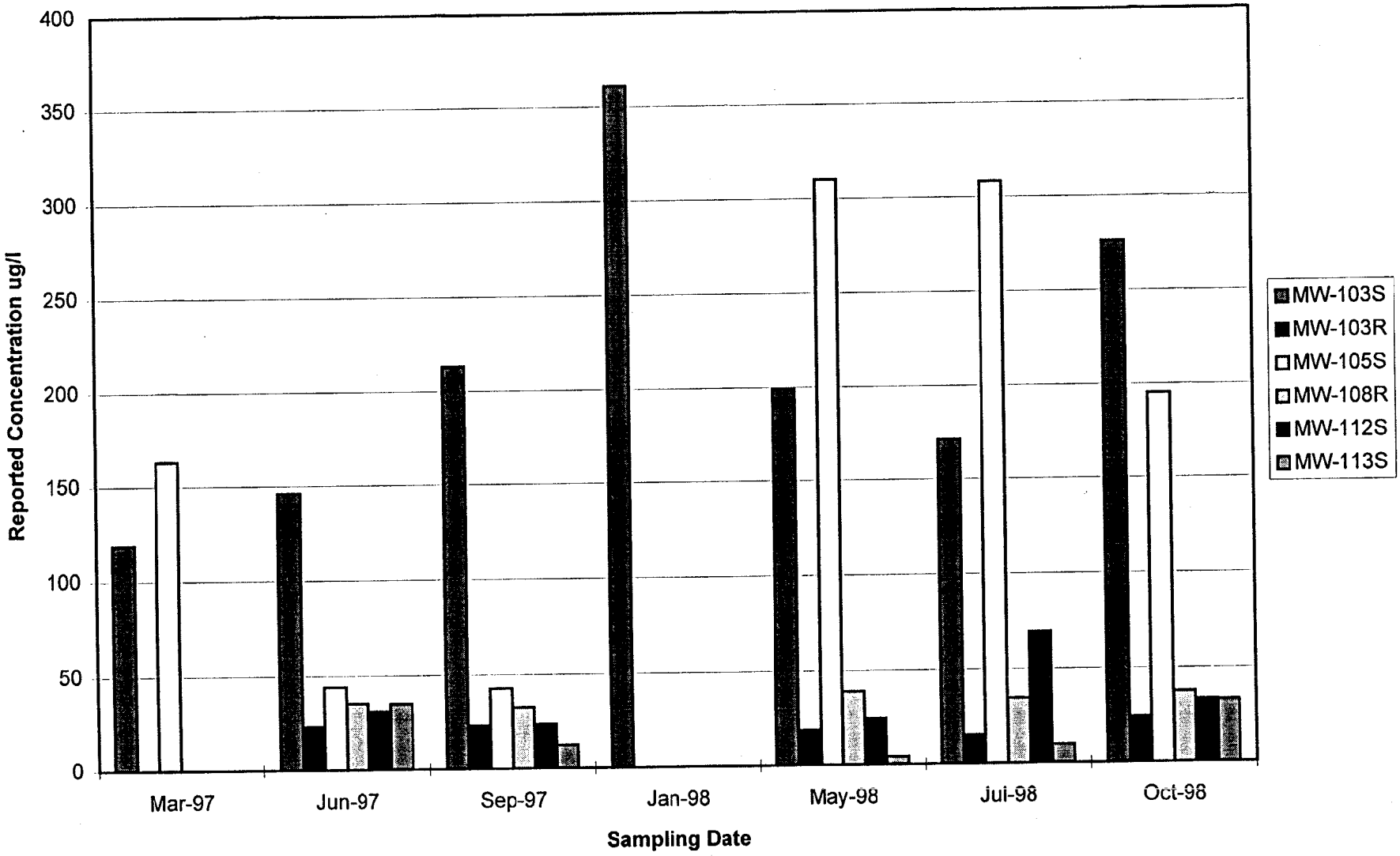


Figure A-9
Barium, Relative Concentrations

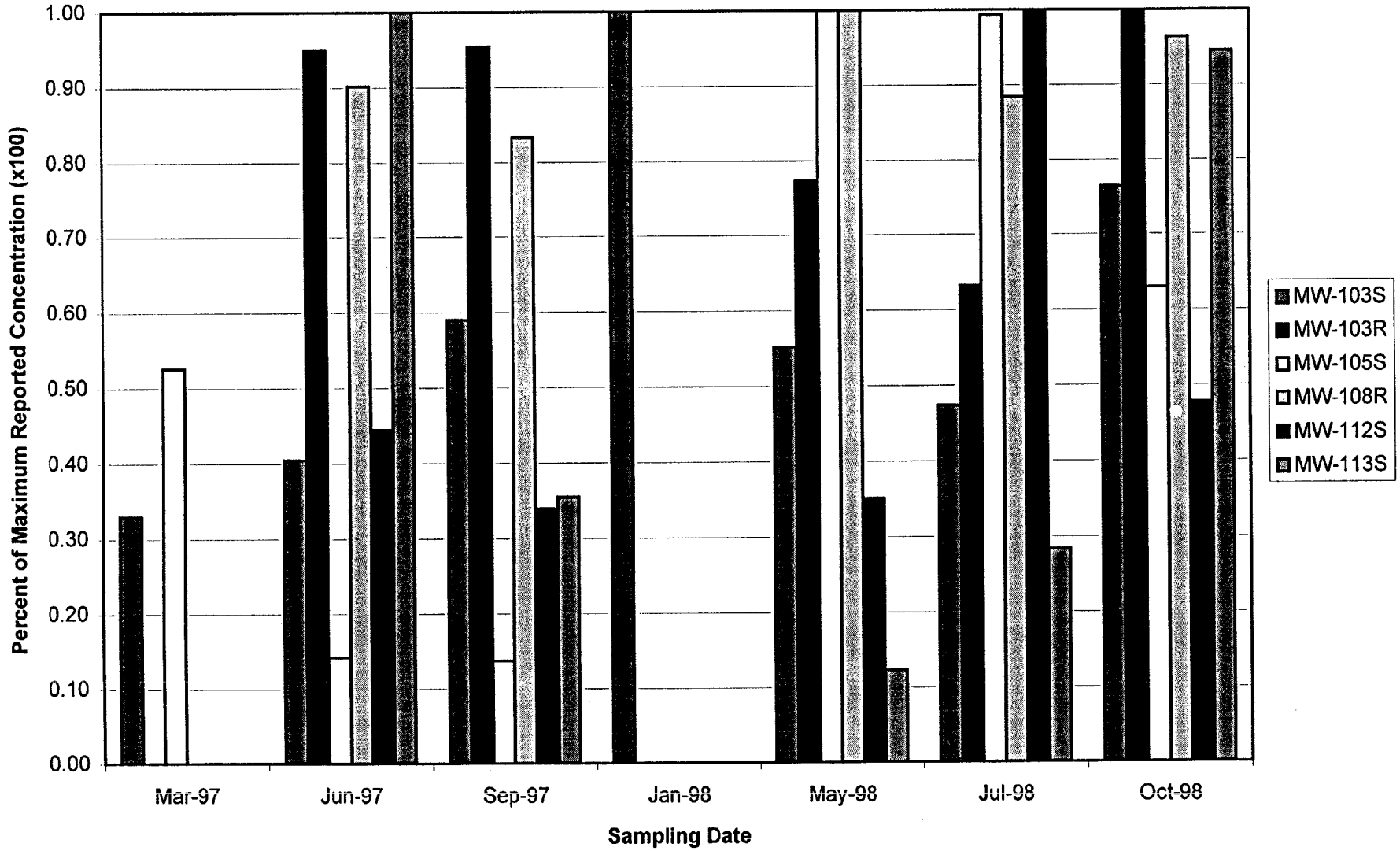


Figure A-10
Cobalt Concentrations

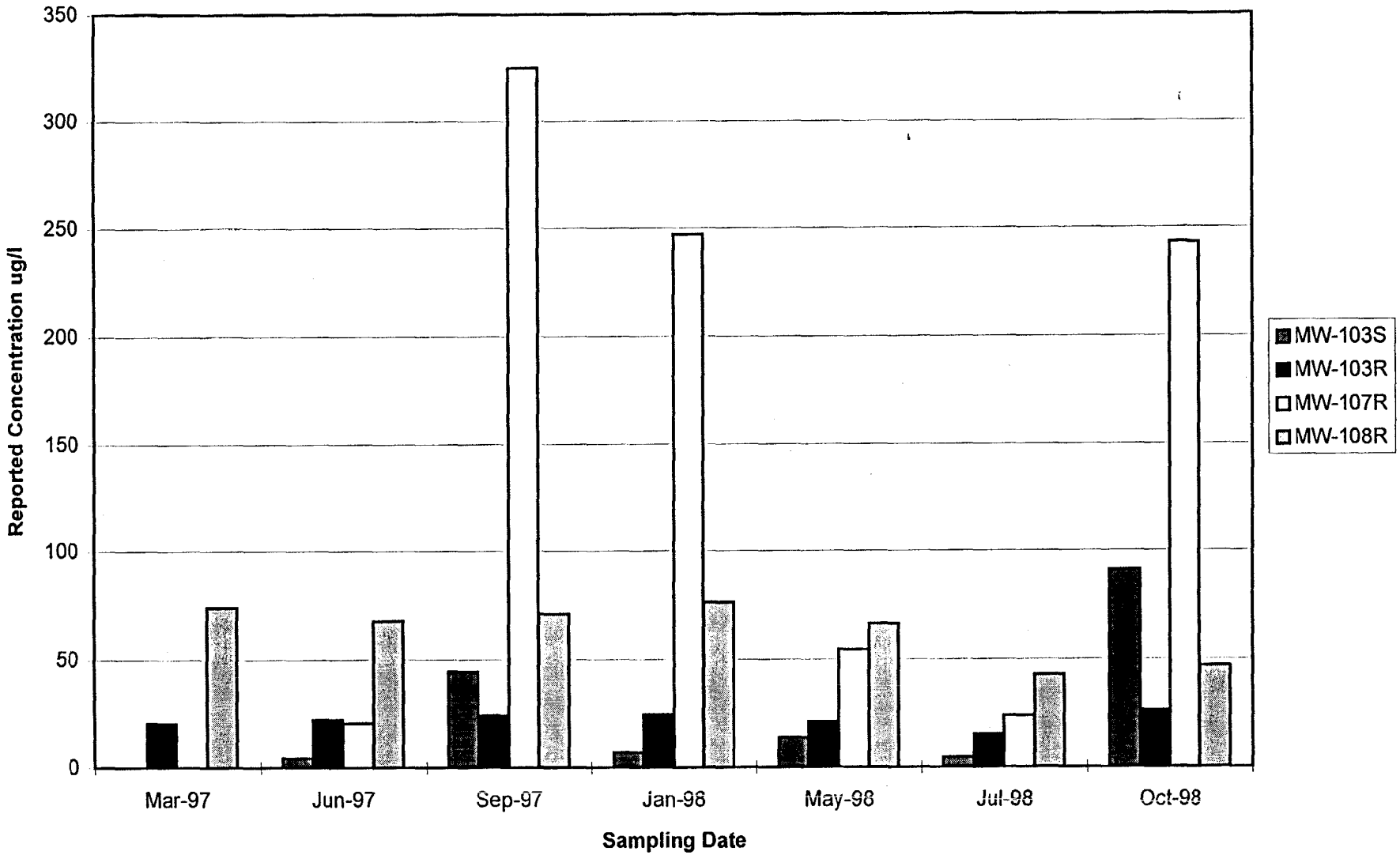


Figure A-11
Cobalt, Relative Concentrations

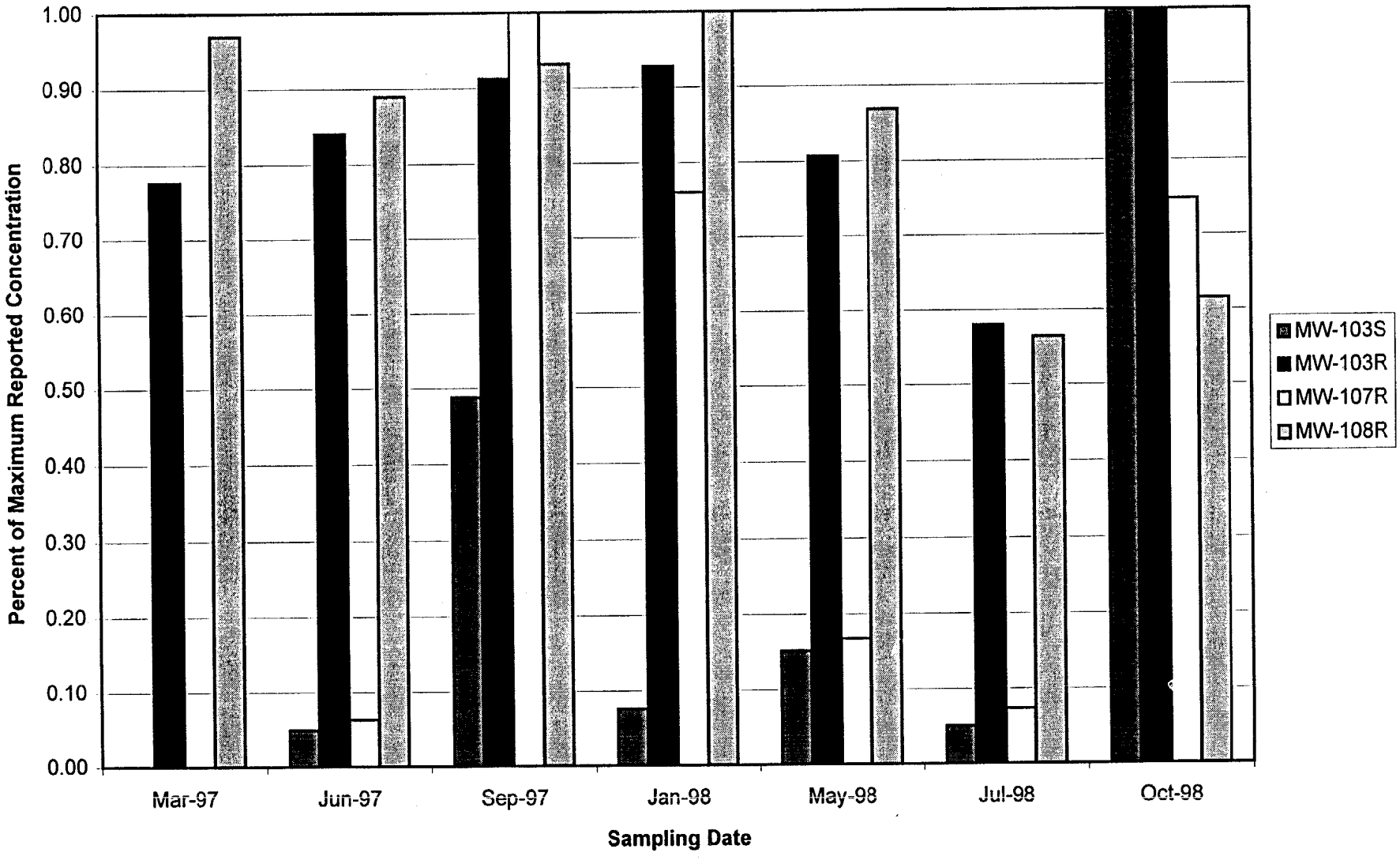


Figure A-12
Iron Concentrations

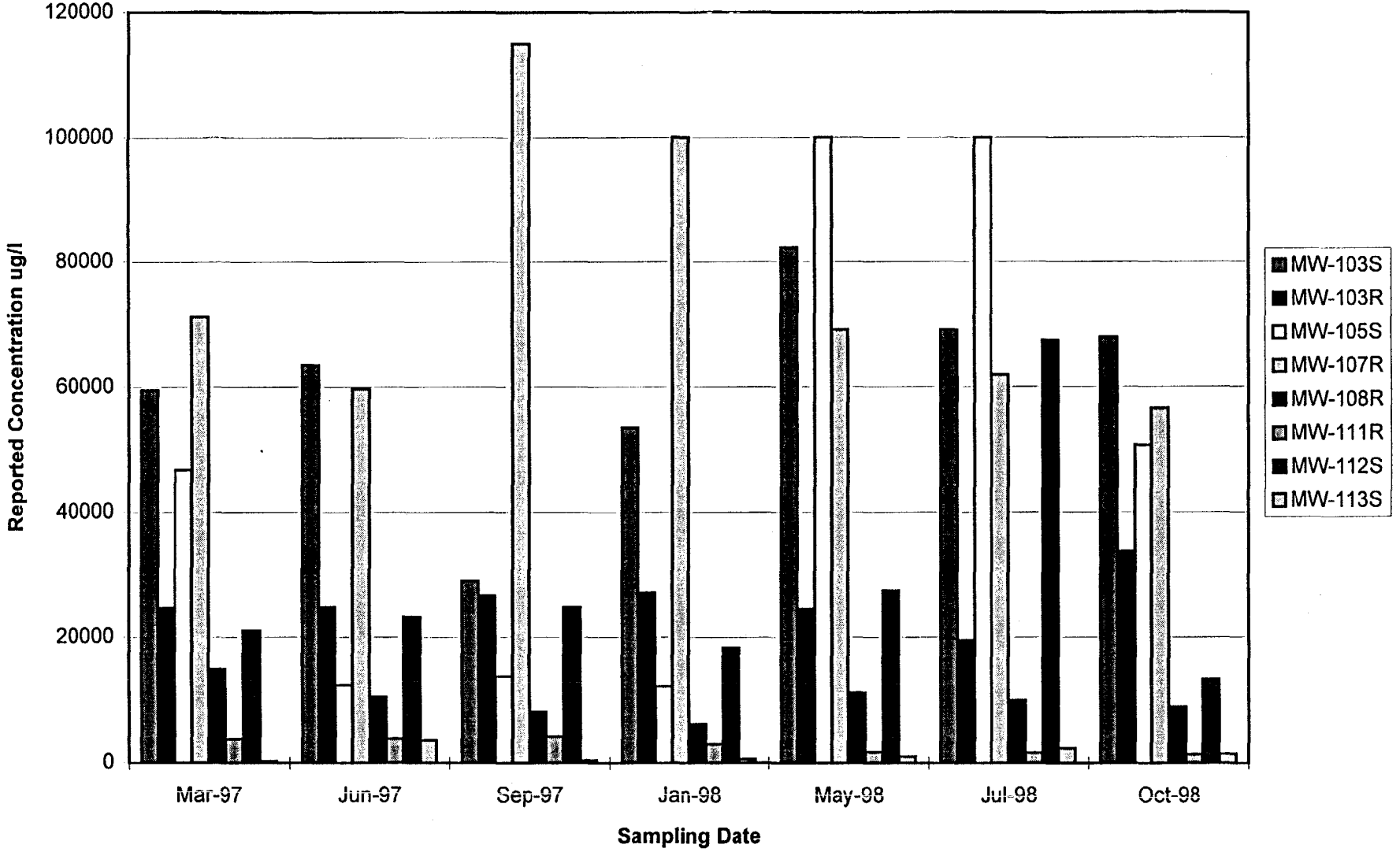


Figure A-13
Iron, Relative Concentrations

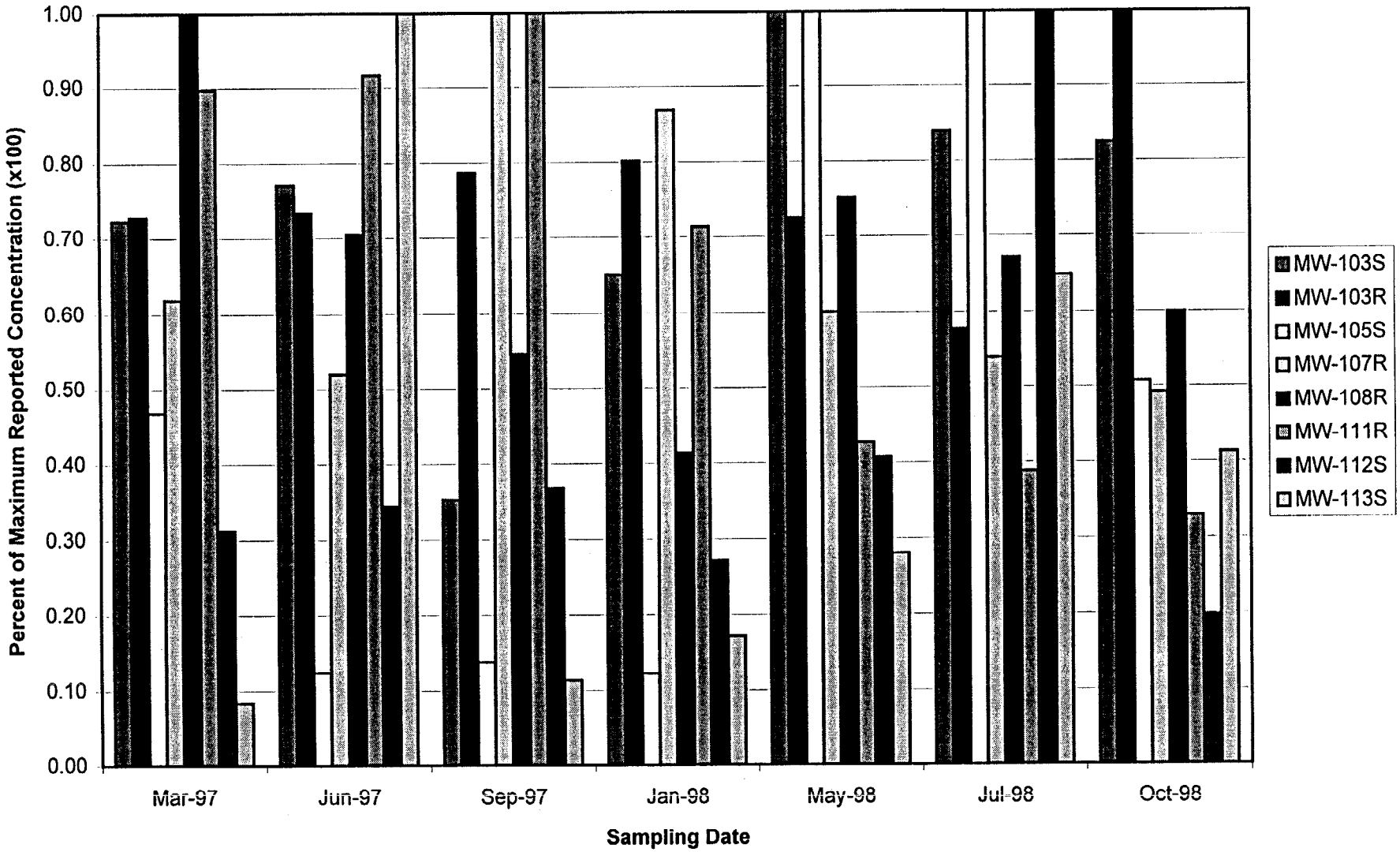


Figure A-14
Nickel Concentrations

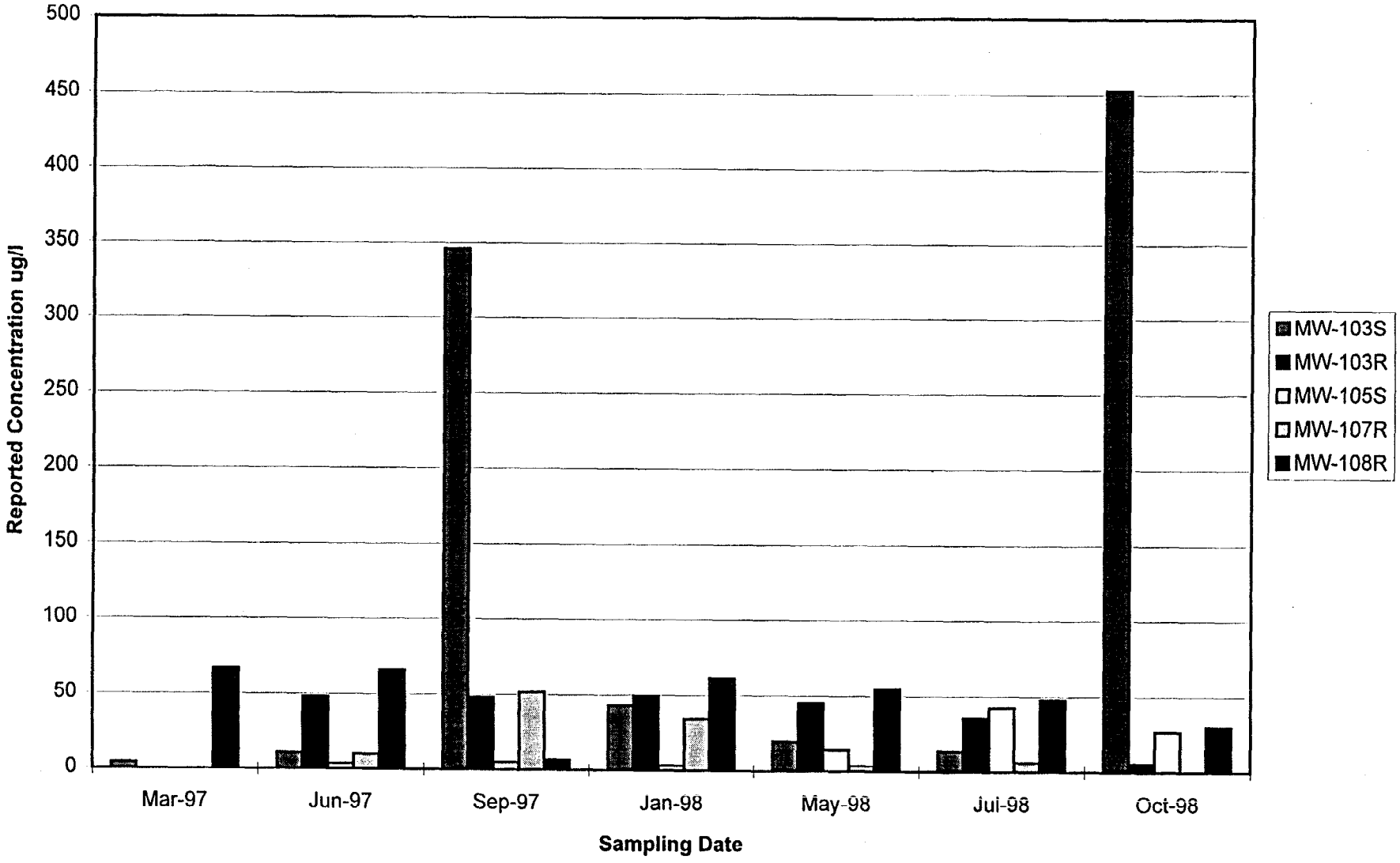


Figure A-15
Nickel, Relative Concentrations

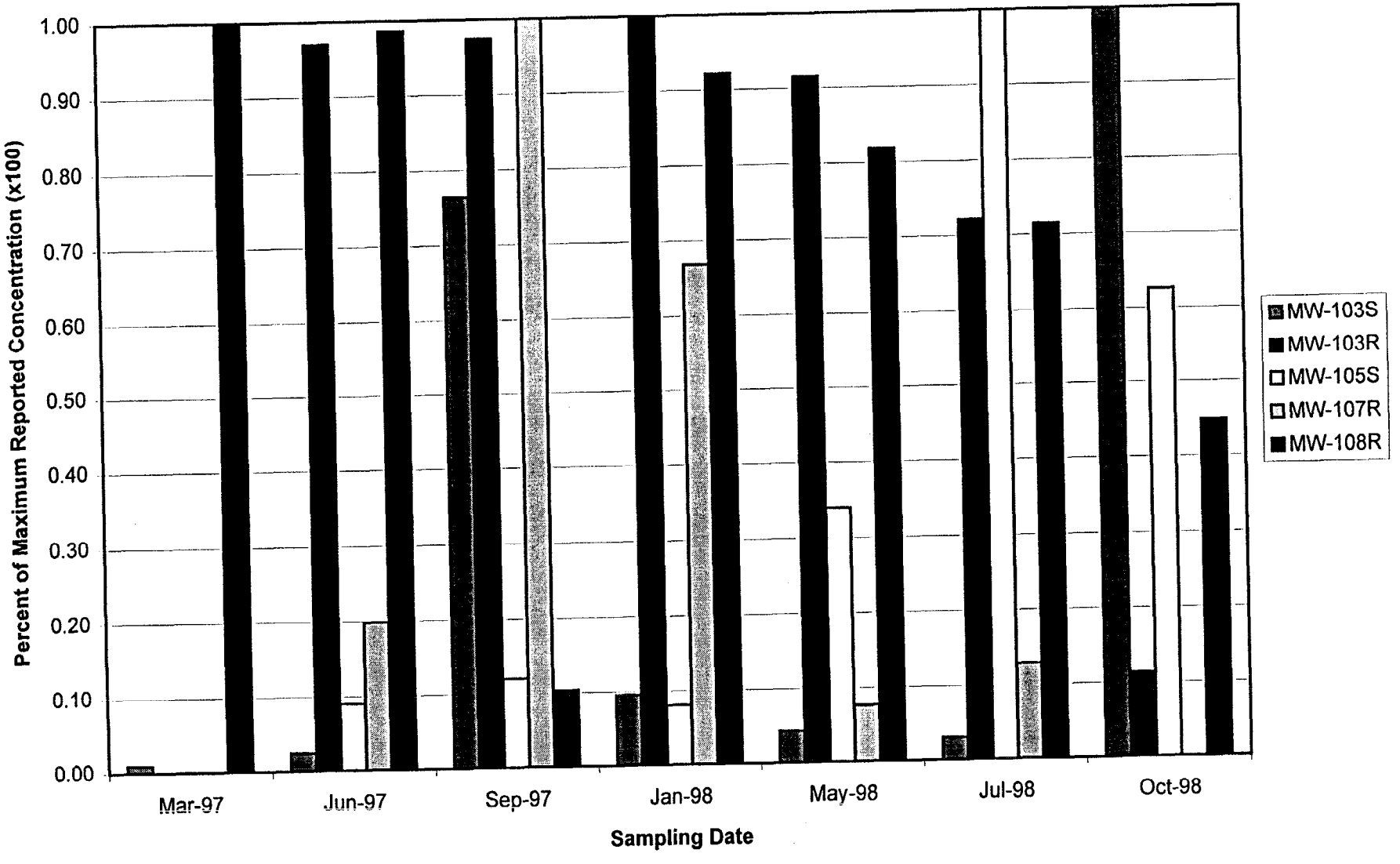
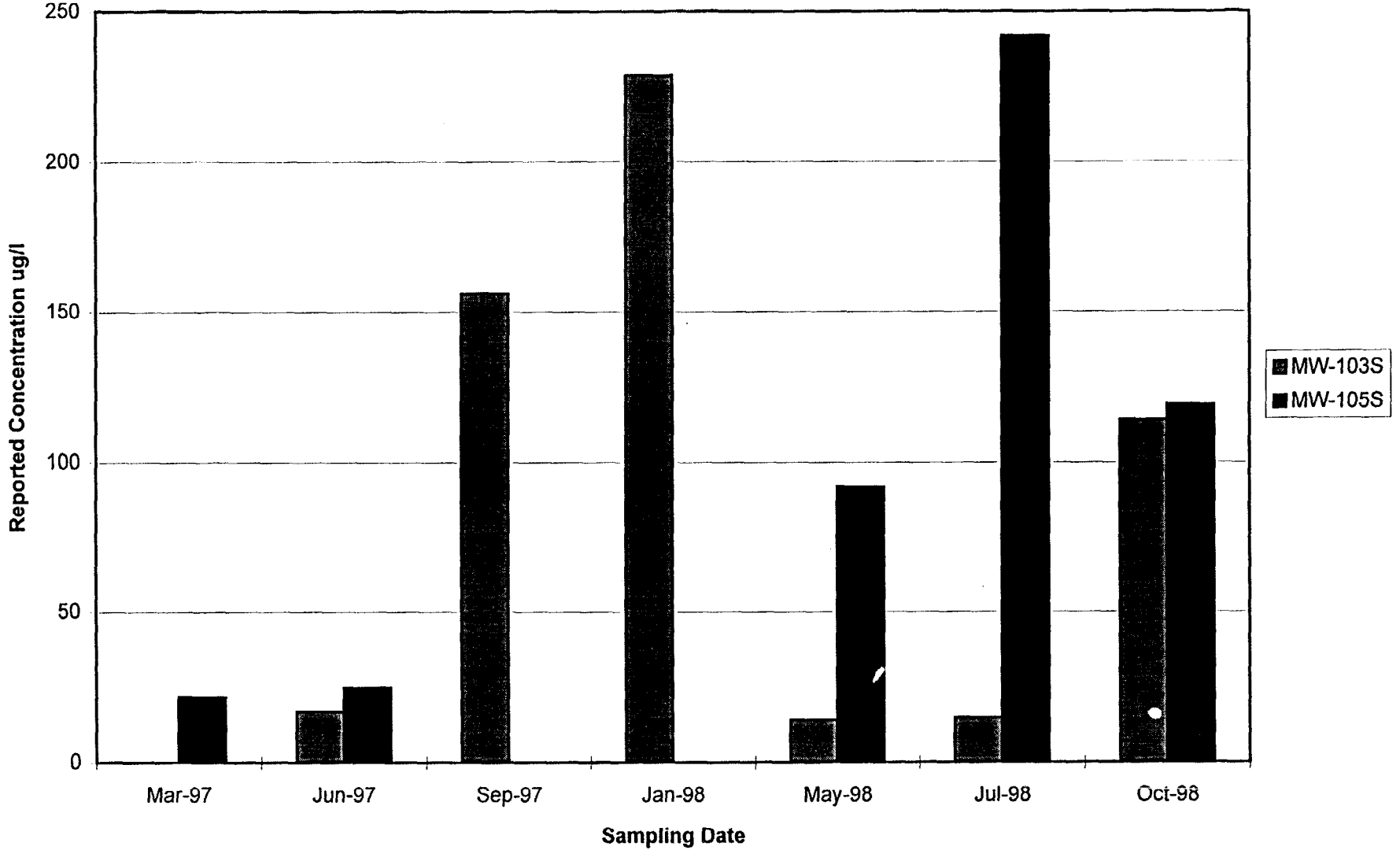


Figure A-16
Zinc Concentrations



APPENDIX B
GROUNDWATER ANALYTICAL RESULTS – SUMMARY TABLES FOR HISTORICAL RESULTS
TANK 53, TANK FARM 5, NAVAL STATION NEWPORT
NEWPORT, RHODE ISLAND

(From "Technical Memorandum, Summary of Analytical Results – Sample Round 3" by Brown & Root Environmental Corporation, October 1997.)

APPENDIX B-1

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-2A

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
Acetone	-	-	10 U	10 U	26 U
Benzene	5	5	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	5 U	NA
Bromodichloromethane	100	-	5 U	5 U	5 U
Bromoform	100	-	5 U	5 U	5 UJ
Bromomethane	-	-	10 U	10 U	5 U
Butanone(2-)	-	-	10 U	10 U	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U
Chloroethane	-	-	10 U	10 U	5 U
Chloroform	100	-	5 U	5 U	5 U
Chloromethane	-	-	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	5 U	NA
Dibromochloromethane	-	-	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	5 U	5 U	1 J
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 U	10 UJ
Methylene Chloride	-	-	5 U	5 U	14 U
Styrene	100	100	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U
Trichloroethene	5	5	5 U	5 U	2 J
Vinyl Chloride	2	2	10 U	10 U	2 U
Vinylacetate	-	-	10 U	10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
1,2,4-Trichlorobenzene	70	70	10 U	10 U	5 U
1,2-Dichlorobenzene	600	600	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	50 U	50 U	10 UR
2,4-Dinitrotoluene	--	--	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	10 U	10 U	5 U
2-Chloronaphthalene	--	--	10 U	10 U	5 U
2-Chlorophenol	--	--	10 U	10 U	5 U
2-Methylnaphthalene	--	--	10 U	10 U	5 U
2-Methylphenol	--	--	10 U	10 U	5 U
2-Nitroaniline	--	--	50 U	50 U	10 U
2-Nitrophenol	--	--	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	20 U	5 U
3-Methylphenol	--	--	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	5 U
4-Chloroaniline	--	--	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	5 U
4-Methylphenol	--	--	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	50 U	50 U	10 U
4-Nitrophenol	--	--	50 U	50 U	10 U
Acenaphthene	--	--	10 U	10 U	5 U
Acenaphthylene	--	--	10 U	10 U	5 U
Anthracene	--	--	10 U	10 U	5 U
Benzo(a)anthracene	--	--	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	10 U	5
Butylbenzylphthalate	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/12/97
Carbazole	--	--	20R R	20 U	5 U
Chrysene	--	--	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	10 U	10 U	5 U
Di-n-octylphthalate	--	--	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	5 U
Dibenzofuran	--	--	10 U	10 U	5 U
Diethylphthalate	--	--	10 U	10 U	5 U
Dimethylphthalate	--	--	10 U	10 U	5 U
Fluoranthene	--	--	10 U	10 U	5 U
Fluorene	--	--	10 U	10 U	5 U
Hexachlorobenzene	1	1	10 U	10 U	5 U
Hexachlorobutadiene	--	--	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	5 U
Hexachloroethane	--	--	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	5 U
Isophorone	--	--	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	5 U
Naphthalene	--	20	10 U	10 U	5 U
Nitrobenzene	--	--	10 U	10 U	5 U
Pentachlorophenol	1	1	50 U	50 U	10 U
Phenanthrene	--	--	10 U	10 U	5 U
Phenol	--	--	10 U	10 U	5 U
Pyrene	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/96	8/12/97
4,4'-DDD	--	--	.1 U	0.1 U	0.05 U
4,4'-DDE	--	--	.1 U	0.1 U	0.05 U
4,4'-DDT	--	--	.1 U	0.1 U	0.05 U
Aldrin	--	--	0.05 U	0.05 U	0.025 U
alpha-BHC	--	--	0.05 U	0.05 U	0.025 U
alpha-Chlordane	2	2	0.05 U	0.05 U	0.025 U
beta-BHC	--	--	0.05 U	0.05 U	0.025 U
delta-BHC	--	--	0.05 U	0.05 U	0.025 U
Dieldrin	--	--	.1 U	0.1 U	0.05 U
Endosulfan I	--	--	0.05 UJ	0.05 U	0.025 U
Endosulfan II	--	--	.1 U	0.1 U	0.05 U
Endosulfan Sulfate	--	--	.1 U	0.1 U	0.05 U
Endrin	2	--	.1 U	0.1 U	0.05 U
Endrin Aldehyde	--	--	.01 U	0.01 U	0.05 U
Endrin Ketone	--	--	.1 U	0.1 U	0.05 U
gamma-BHC	--	--	.05 U	0.05 U	0.025 U
gamma-Chlordane	2	2	.05 U	0.05 U	0.025 U
Heptachlor	0.4	--	.05 U	0.05 U	0.025 U
Heptachlor Epoxide	0.2	--	.05 U	0.05 U	0.025 U
Methoxychlor	40	--	.5 U	0.5 U	0.25 U
Toxaphene	3	--	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	1 U	0.5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-2A
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/19/96 Filt	12/19/96 Total	3/24/97 Filt	3/24/97 Total	8/14/97 Total	8/14/97 Filt
ALUMINUM	-	-	0.1 U	2.4	0.1 U	15 J	2.24	0.0452 U
ANTIMONY	0.006	0.006	0.02 U	0.02 U	0.02 U	0.02 U	0.002 U	0.002 U
ARSENIC	0.05	-	0.004 U	0.018	0.004 UJ	0.032 J	0.0054 J	0.0032 U
BARIUM	2	2	0.01 U	0.01	0.01 U	0.08 J	0.0177 U	0.0045 U
BERYLLIUM	0.004	0.004	0.01 U	0.01 U	0.01 U	0.01 U	0.0003 U	0.00078 U
CADMIUM	0.005	0.005	0.01 U	0.01 U	0.01 U	0.01 U	0.0005 U	0.0005 U
CALCIUM	-	-	9.9	11	11	14	11.4	11.6
CHROMIUM	0.1	0.1	0.02 U	0.02 U	0.02 U	0.05	0.0065 UJ	0.0065 UJ
COBALT	-	-	0.02 U	0.03	0.02 U	0.03	0.0133 U	0.007 U
COPPER	1.3	-	0.02 U	0.02 U	0.02 U	0.03	0.0038 UJ	0.0038 UJ
IRON	-	-	0.04 U	7.9	0.04 U	52 J	7.130 J	0.0071 UJ
LEAD	0.015	0.015	0.005 U	0.008	0.005 U	0.017	0.0033 U	0.0016 U
MAGNESIUM	-	-	13	12	13	16	14.9	15.2
MANGANESE	-	-	0.04	0.23	0.05 J	0.27	0.1	0.162
MERCURY	0.002	0.002	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00013 U	0.00013 U
NICKEL	0.14	0.1	0.04 U	0.04 U	0.04 U	0.07 J	0.0079 UJ	0.0079 UJ
POTASSIUM	-	-	1	1	1	4	1.5	1.32
SELENIUM	0.05	0.05	0.004 U	0.004 U	0.004 UJ	0.004 UJ	0.0034 U	0.0034 U
SILVER	-	-	0.01 U	0.01 U	0.01 U	0.01 U	0.0016 U	0.0017 U
SODIUM	-	-	5.9	6	7.5	10	9.64	10.3
THALLIUM	0.002	0.002	0.005 U	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U
VANADIUM	-	-	0.01 U	0.01 U	0.01 U	0.03	0.006 J	0.0053 U
ZINC	-	-	0.03	0.07	0.02	0.16 J	0.0352 U	0.0112 U

PARAMETER	MCL	RIDEM GA	12/19/96	3/24/97	8/14/97
TPH	-	-	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-2

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-3A

Historical Analytical Results
MW-3A
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/17/96	3/25/97	8/12/97
Acetone	-	-	10 U	10 U	17 U
Benzene	5	5	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	5 U	NA
Bromodichloromethane	100	-	5 U	5 U	5 U
Bromoform	100	-	5 U	5 U	5 UJ
Bromomethane	-	-	10 U	10 U	5 U
Butanone(2-)	-	-	10 U	10 U	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U
Chloroethane	-	-	10 U	10 U	5 U
Chloroform	100	-	5 U	5 U	5 U
Chloromethane	-	-	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	5 U	NA
Dibromochloromethane	-	-	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	5 U	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 U	10 UJ
Methylene Chloride	-	-	5 U	5 U	13 U
Styrene	100	100	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U
Trichloroethene	5	5	5 U	5 U	5 U
Vinyl Chloride	2	2	10 U	10 U	2 U
Vinylacetate	-	-		10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-3A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/17/96	3/25/97	8/12/97
1,2,4-Trichlorobenzene	70	70	10 U	10 UJ	5 U
1,2-Dichlorobenzene	600	600	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	50 U	50 U	10 U
2,4-Dinitrotoluene	--	--	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	10 U	10 U	5 U
2-Chloronaphthalene	--	--	10 U	10 UJ	5 U
2-Chlorophenol	--	--	10 U	10 U	5 U
2-Methylnaphthalene	--	--	10 U	10 U	5 U
2-Methylphenol	--	--	10 U	10 U	5 U
2-Nitroaniline	--	--	50 U	50 U	10 U
2-Nitrophenol	--	--	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	20 U	5 U
3-Methylphenol	--	--	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	5 U
4-Chloroaniline	--	--	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	5 U
4-Methylphenol	--	--	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	50 U	50 U	10 U
4-Nitrophenol	--	--	50 U	50 U	10 U
Acenaphthene	--	--	10 U	10 U	5 U
Acenaphthylene	--	--	10 U	10 U	5 U
Anthracene	--	--	10 U	10 U	5 U
Benzo(a)anthracene	--	--	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	10 U	1 J
Butylbenzylphthalate	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-3A
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/17/96	3/25/97	8/12/97
Carbazole	--	--	20R R	20 UJ	5 U
Chrysene	--	--	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	10 U	10 U	5 U
Di-n-octylphthalate	--	--	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	5 U
Dibenzofuran	--	--	10 U	10 U	5 U
Diethylphthalate	--	--	10 U	10 U	5 U
Dimethylphthalate	--	--	10 U	10 U	5 U
Fluoranthene	--	--	10 U	10 U	5 U
Fluorene	--	--	10 U	10 U	5 U
Hexachlorobenzene	1	1	10 U	10 U	5 U
Hexachlorobutadiene	--	--	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	5 U
Hexachloroethane	--	--	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	5 U
Isophorone	--	--	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	5 U
Naphthalene	--	20	10 U	10 U	5 U
Nitrobenzene	--	--	10 U	10 U	5 U
Pentachlorophenol	1	1	50 U	50 U	10 U
Phenanthrene	--	--	10 U	10 U	5 U
Phenol	--	--	10 U	10 U	5 U
Pyrene	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-3A
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	12/17/96	3/25/97	8/12/97
4,4'-DDD	--	--	.1 U	.1 U	0.05 U
4,4'-DDE	--	--	.1 U	.1 U	0.05 U
4,4'-DDT	--	--	.1 U	.1 U	0.05 U
Aldrin	--	--	.05 U	.05 U	0.025 U
alpha-BHC	--	--	.05 U	.05 U	0.025 U
alpha-Chlordane	2	2	.05 U	.05 U	0.025 U
beta-BHC	--	--	.05 U	.05 U	0.025 U
delta-BHC	--	--	.05 U	.05 U	0.025 U
Dieldrin	--	--	.1 U	.1 U	0.05 U
Endosulfan I	--	--	.05 UJ	.05 U	0.025 U
Endosulfan II	--	--	.1 U	.1 U	0.05 U
Endosulfan Sulfate	--	--	.1 U	.1 U	0.05 U
Endrin	2	--	.1 U	.1 U	0.05 U
Endrin Aldehyde	--	--	.01 U	.01 U	0.05 U
Endrin Ketone	--	--	.1 U	.1 U	0.05 U
gamma-BHC	--	--	.05 U	.05 U	0.025 U
gamma-Chlordane	2	2	.05 U	.05 U	0.025 U
Heptachlor	0.4	--	.05 U	.05 U	0.025 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	0.025 U
Methoxychlor	40	--	.5 U	.5 U	0.25 U
Toxaphene	3	--	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	1 U	0.5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-3A
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/17/96 Filt	12/17/96 Total	3/25/97 Filt	3/25/97 Total	8/12/97 Filt	8/12/97 Total
Aluminum	-	-	.1 U	3.3	0.1 U	1.8	0.116 U	3.39
Antimony	0.01	0.006	.02 U	.02 U	0.02 U	0.02 U	0.002 U	0.0022 J
Arsenic	0.05	-	.004 U	.007	0.004 UJ	0.005 J	0.0032 U	0.0091
Barium	2	2	.01 U	.01	0.01 U	0.05	0.005 U	0.0209 U
Beryllium	0	0.004	.01 U	.01 U	0.01 U	0.01 U	0.00078 U	0.0016 U
Cadmium	0.01	0.005	.01 U	.01 U	0.01 U	0.01 U	0.0005 U	0.0005 U
Calcium	-	-	7.2	9.5	9	9.6	8.95	8.44
Chromium	0.1	0.1	.02 U	.02 U	0.02 U	0.02 U	0.0065 UJ	0.0065 UJ
Cobalt	-	-	.02 U	.02 U	0.02 U	0.02 U	0.020 U	0.020 U
Copper	1.3	-	.02 U	.02 U	0.02 U	0.02 U	0.0038 UJ	0.0038 UJ
Iron	-	-	.04 U	5.3	0.04 U	2.7	0.189 J	5.420 J
Lead	0.02	0.015	.005 U	.008	0.005 U	0.005 U	0.0012 U	0.0083 U
Magnesium	-	-	8	9.5	11	11	11.3	10.9
Manganese	-	-	.01 U	.09	0.01 U	0.08	0.497	0.365
Mercury	0	0.002	.0002 U	.0002 U	0.0002 U	0.0002 U	0.00013 U	0.00013 U
Nickel	0.14	0.1	.04 U	.14	0.04 U	0.04 U	0.0079 UJ	0.0079 UJ
Potassium	-	-	1	1 U	2	3	1.34	1.76
Selenium	0.05	0.05	.004 U	.004 U	0.004 UJ	0.004 UJ	0.0034 U	0.005 J
Silver	-	-	.01 U	.01 U	0.01 U	0.01 U	0.0018 U	0.0024 U
Sodium	-	-	8	8.9	6.8	8.9	10.5	9.58
Thallium	0	0.002	.005 U	.005 U	0.005 U	0.005 U	0.002 U	0.002 U
Vanadium	-	-	.01 U	.01 U	0.01 U	0.01 U	0.0077 J	0.0096 J
Zinc	-	-	.04 U	.09 U	0.12	0.17	0.0304 U	0.0466

PARAMETER	MCL	RIDEM GA	12/17/96	3/25/97	8/12/97
TPH	-	-	1 U	1 U	1.1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-3

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-4

Historical Analytical Results
MW-4
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/1/92	2/28/95	12/17/96	3/24/97
Acetone	-	-	11 U*	10 U	10 U	10 U
Benzene	5	5	ND	5 U	5 U	5 U
Bromochloromethane	-	-	NA	NA	5 U	5 U
Bromodichloromethane	100	-	NA	5 U	5 U	5 U
Bromoform	100	-	NA	5 U	5 U	5 U
Bromomethane	-	-	NA	10 U	10 U	10 U
Butanone(2-)	-	-	NA	10 U	10 U	10 U
Carbon Disulfide	-	-	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	10 U	10 U	10 U
Chloroform	100	-	5 J	5 U	5 U	5 U
Chloromethane	-	-	NA	10 U	10 U	10 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	5 U	5 U
Dibromochloromethane	-	-	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	5 U	5 U
Dichloroethane(1,1-)	-	-	ND	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	5 J	5 U	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	10 U	10 U	10 U
Methylene Chloride	-	-	13 U*	5 U	5 U	5 U
Styrene	100	100	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	3 J	2 J	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	5 U	5 U	5 U
Trichloroethene	5	5	6 J	5	5 U	5 U
Vinyl Chloride	2	2	ND	10 U	10 U	10 U
Vinylacetate	-	-	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-4
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/92	2/28/95	12/17/96	3/24/97
1,2,4-Trichlorobenzene	70	70	NA	10 U	10 U	10 U
1,2-Dichlorobenzene	600	600	NA	10 U	10 U	10 U
1,3-Dichlorobenzene	--	600	NA	10 U	10 U	10 U
1,4-Dichlorobenzene	75	75	NA	10 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	10 U	NA	NA
2,4,5-Trichlorophenol	--	--	NA	25 U	50 U	50 U
2,4,6-Trichlorophenol	--	--	NA	10 U	10 U	10 U
2,4-Dichlorophenol	--	--	NA	10 U	10 U	10 U
2,4-Dimethylphenol	--	--	NA	10 U	10 U	10 U
2,4-Dinitrophenol	--	--	NA	25 U	50 U	50 U
2,4-Dinitrotoluene	--	--	NA	10 U	10 U	10 U
2,6-Dinitrotoluene	--	--	NA	10 U	10 U	10 U
2-Chloronaphthalene	--	--	NA	10 U	10 U	10 U
2-Chlorophenol	--	--	NA	10 U	10 U	10 U
2-Methylnaphthalene	--	--	ND	10 U	10 U	10 U
2-Methylphenol	--	--	NA	10 U	10 U	10 U
2-Nitroaniline	--	--	NA	25 U	50 U	50 U
2-Nitrophenol	--	--	NA	10 U	10 U	10 U
3,3-Dichlorobenzidine	--	--	NA	10 U	20 U	20 U
3-Methylphenol	--	--	NA	NA	10 UJ	10 UJ
3-Nitroaniline	--	--	NA	25 U	50 U	50 U
4,6-Dinitro-2-methylphenol	--	--	NA	25 U	50 U	50 U
4-Bromophenyl-phenylether	--	--	NA	10 U	10 U	10 U
4-Chloro-3-methyphenol	--	--	NA	10 U	10 U	10 U
4-Chloroaniline	--	--	NA	10 U	10 U	10 U
4-Chlorophenyl-phenyl ether	--	--	NA	10 NA	10 U	10 U
4-Methylphenol	--	--	NA	10 U	10 UJ	10 UJ
4-Nitroaniline	--	--	NA	25 U	50 U	50 U
4-Nitrophenol	--	--	NA	25 U	50 U	50 U
Acenaphthene	--	--	NA	10 U	10 U	10 U
Acenaphthylene	--	--	NA	10 U	10 U	10 U
Anthracene	--	--	NA	10 U	10 U	10 U
Benzo(a)anthracene	--	--	NA	10 U	10 U	10 U
Benzo(a)pyrene	2	0.2	NA	10 U	10 U	10 U
Benzo(b)fluoranthene	--	--	NA	10 U	10 U	10 U
Benzo(g,h,i)Perylene	--	--	NA	10 U	10 U	10 U
Benzo(k)fluoranthene	--	--	NA	10 U	10 U	10 U
Bis(2-Chloroethoxy)Methane	--	--	NA	10 U	10 U	10 U
Bis(2-Chloroethyl)ether	--	--	NA	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	--	--	NA	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	--	--	11 U**	10 U	10 U	10 U
Butylbenzylphthalate	--	--	ND	10 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-4
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/92	2/28/95	12/17/96	3/24/97
Carbazole	--	--	NA	10 U	20R R	20 U
Chrysene	--	--	NA	10 U	10 U	10 U
Di-N-Butylphthalate	--	--	11 U**	10 U	10 U	10 U
Di-n-octylphthalate	--	--	NA	10 U	10 U	10 U
Dibenzo(a,h)Anthracene	--	--	NA	10 U	10 U	10 U
Dibenzofuran	--	--	NA	10 U	10 U	10 U
Diethylphthalate	--	--	NA	10 U	10 U	10 U
Dimethylphthalate	--	--	NA	10 U	10 U	10 U
Fluoranthene	--	--	NA	10 U	10 U	10 U
Fluorene	--	--	NA	10 U	10 U	10 U
Hexachlorobenzene	1	1	NA	10 U	10 U	10 U
Hexachlorobutadiene	--	--	NA	10 U	10 U	10 U
Hexachlorocyclopentadiene	50	--	NA	10 U	10 U	10 U
Hexachloroethane	--	--	NA	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	--	--	NA	10 U	10 U	10 U
Isophorone	--	--	NA	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	--	--	NA	10 U	10 U	10 U
N-Nitrosodiphenylamine	--	--	NA	10 U	10 U	10 U
Naphthalene	--	20	ND	10 U	10 U	10 U
Nitrobenzene	--	--	NA	10 U	10 U	10 U
Pentachlorophenol	1	1	NA	25 U	50 U	50 U
Phenanthrene	--	--	NA	10 U	10 U	10 U
Phenol	--	--	NA	10 U	10 U	10 U
Pyrene	--	--	NA	10 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-4
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	2/28/95	12/17/96	3/24/97
4,4'-DDD	--	--	.1 U	.1 U	.1 U
4,4'-DDE	--	--	.1 U	.1 U	.1 U
4,4'-DDT	--	--	.1 U	.1 U	.1 U
Aldrin	--	--	.05 U	.05 U	.05 U
alpha-BHC	--	--	.05 U	.05 U	.05 U
alpha-Chlordane	2	2	NA	.05 U	.05 U
beta-BHC	--	--	.05 U	.05 U	.05 U
delta-BHC	--	--	.05 U	.05 U	.05 U
Dieldrin	--	--	.1 U	.1 U	.1 U
Endosulfan I	--	--	.05 U	.05 UJ	.05 U
Endosulfan II	--	--	.1 U	.1 U	.1 U
Endosulfan Sulfate	--	--	.1 U	.1 U	.1 U
Endrin	2	--	.1 U	.1 U	.1 U
Endrin Aldehyde	--	--	.1 U	.01 U	.01 U
Endrin Ketone	--	--	NA	.1 U	.1 U
gamma-BHC	--	--	.05 U	.05 U	.05 U
gamma-Chlordane	2	2	NA	.05 U	.05 U
Heptachlor	0.4	--	.05 U	.05 U	.05 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	.05 U
Methoxychlor	40	--	.5 U	.5 U	.5 U
Toxaphene	3	--	5 U	5 U	5 U
Aroclor-1016	0.5	0.5	1 U	1 U	1 U
Aroclor-1221	0.5	0.5	2 U	2 U	2 U
Aroclor-1232	0.5	0.5	1 U	1 U	1 U
Aroclor-1242	0.5	0.5	1 U	1 U	1 U
Aroclor-1248	0.5	0.5	1 U	1 U	1 U
Aroclor-1254	0.5	0.5	1 U	1 U	1 U
Aroclor-1260	0.5	0.5	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-4
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	5/92 Filt	5/92	12/96 Filt	12/96	3/24/97 Filt	3/24/97
ALUMINUM	-	-	0.094 BU	1.87	0.1 U	4.0	0.1 U	4.2 J
ANTIMONY	0.006	0.006	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U
ARSENIC	0.05	-	0.003 BJ	0.029 J	0.004 U	0.67	0.004 UJ	0.06 J
BARIUM	2	2	0.007 B	0.026 B	0.01 U	0.04	0.01 U	0.04 J
BERYLLIUM	0.004	0.004	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CADMIUM	0.005	0.005	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CALCIUM	-	-	30.8	29.8	31	35	28	29
CHROMIUM	0.1	0.1	ND	0.011	0.02 U	0.02 U	0.02 U	0.02
COBALT	-	-	ND	0.012 B	0.02 U	0.02 U	0.02 U	0.02 U
COPPER	1.3	-	ND	0.012 B	0.02 U	0.02 U	0.02 U	0.02 U
IRON	-	-	0.055 B	14.6	0.04 U	22	0.04 U	28 J
LEAD	0.015	0.015	NA REJ	0.003 J	0.005 U	0.013	0.005 U	0.009
MAGNESIUM	-	-	25.4	24.3	25	27	23	24
MANGANESE	-	-	0.019	0.154	0.01 U	0.16	0.01 U	0.18
MERCURY	0.002	0.002	ND	NA	0.002 U	0.002 U	0.002 U	0.002 U
NICKEL	0.14	0.1	ND	0.02 B	0.04 U	0.04 U	0.04 U	0.04 U
POTASSIUM	-	-	2.12 B	1.7 B	2	3	2	3
SELENIUM	0.05	0.05	0.002 UJ	NA	0.004 U	0.004 U	0.004 UJ	0.004 UJ
SILVER	-	-	ND	NA	0.01 U	0.01 U	0.01 U	0.01 U
SODIUM	-	-	18	18	22	24	17	19
THALLIUM	0.002	0.002	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U
VANADIUM	-	-	ND	NA	0.01 U	0.01	0.01 U	0.02
ZINC	-	-	ND	0.041	0.03 U	0.25	0.01 U	0.07 J

PARAMETER	MCL	RIDEM GA	12/17/96	3/24/97
TPH	-	-	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-4

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-8

Historical Analytical Results
MW-8
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/92	2/28/95	12/18/96	3/24/97
Acetone	-	-	10 U**	10 U	10 U	10 U
Benzene	5	5	ND	3 J	5 U	5 U
Bromochloromethane	-	-	NA	NA	5 U	5 U
Bromodichloromethane	100	-	NA	5 U	5 U	5 U
Bromoform	100	-	NA	5 U	5 U	5 U
Bromomethane	-	-	NA	10 U	10 U	10 U
Butanone(2-)	-	-	NA	10 U	10 U	10 U
Carbon Disulfide	-	-	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	10 U	10 U	10 U
Chloroform	100	-	ND	5 U	5 U	5 U
Chloromethane	-	-	NA	10 U	10 U	10 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	5 U	5 U
Dibromochloromethane	-	-	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	5 U	5 U
Dichloroethane(1,1-)	-	-	6 J	9	5 U	5 U
Dichloroethane(1,2-)	5	5	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	19	6	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	10 U	10 U	10 U
Methylene Chloride	-	-	10 U**	5 U	5 U	5 U
Styrene	100	100	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	8 J	2 J	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	5 U	5 U	5 U
Trichloroethene	5	5	ND	2 J	5 U	5 U
Vinyl Chloride	2	2	ND	10 U	10 U	10 U
Vinylacetate	-	-	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-8
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/92	2/28/95	12/18/96	3/24/97
1,2,4-Trichlorobenzene	70	70	NA	20 U	10 U	10 U
1,2-Dichlorobenzene	600	600	NA	20 U	10 U	10 U
1,3-Dichlorobenzene	--	600	NA	20 U	10 U	10 U
1,4-Dichlorobenzene	75	75	NA	20 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	20 U	NA	NA
2,4,5-Trichlorophenol	--	--	NA	50 U	50 U	50 U
2,4,6-Trichlorophenol	--	--	NA	20 U	10 U	10 U
2,4-Dichlorophenol	--	--	NA	20 U	10 U	10 U
2,4-Dimethylphenol	--	--	NA	20 U	10 U	10 U
2,4-Dinitrophenol	--	--	NA	50 U	50 U	50 U
2,4-Dinitrotoluene	--	--	NA	20 U	10 U	10 U
2,6-Dinitrotoluene	--	--	NA	20 U	10 U	10 U
2-Chloronaphthalene	--	--	NA	20 U	10 U	10 U
2-Chlorophenol	--	--	NA	20 U	10 U	10 U
2-Methylnaphthalene	--	--	ND	20 U	10 U	10 U
2-Methylphenol	--	--	NA	20 U	10 U	10 U
2-Nitroaniline	--	--	NA	50 U	50 U	50 U
2-Nitrophenol	--	--	NA	20 U	10 U	10 U
3,3-Dichlorobenzidine	--	--	NA	1 J	20 U	20 U
3-Methylphenol	--	--	NA	NA	10 UJ	10 UJ
3-Nitroaniline	--	--	NA	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	--	--	NA	50 U	50 U	50 U
4-Bromophenyl-phenylether	--	--	NA	20 U	10 U	10 U
4-Chloro-3-methyphenol	--	--	NA	20 U	10 U	10 U
4-Chloroaniline	--	--	NA	20 U	10 U	10 U
4-Chlorophenyl-phenyl ether	--	--	NA	20 U	10 U	10 U
4-Methylphenol	--	--	NA	20 U	10 UJ	10 UJ
4-Nitroaniline	--	--	NA	50 U	50 U	50 U
4-Nitrophenol	--	--	NA	50 U	50 U	50 U
Acenaphthene	--	--	NA	20 U	10 U	10 U
Acenaphthylene	--	--	NA	20 U	10 U	10 U
Anthracene	--	--	NA	20 U	10 U	10 U
Benzo(a)anthracene	--	--	NA	20 U	10 U	10 U
Benzo(a)pyrene	2	0.2	NA	20 U	10 U	10 U
Benzo(b)fluoranthene	--	--	NA	20 U	10 U	10 U
Benzo(g,h,i)Perylene	--	--	NA	20 U	10 U	10 U
Benzo(k)fluoranthene	--	--	NA	20 U	10 U	10 U
Bis(2-Chloroethoxy)Methane	--	--	NA	20 U	10 U	10 U
Bis(2-Chloroethyl)ether	--	--	NA	20 U	10 U	10 U
bis(2-Chloroisopropyl)ether	--	--	NA	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	--	--	10 U**	3 J	10 U	10 U
Butylbenzylphthalate	--	--	ND	20 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-8
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	5/92	2/28/95	12/18/96	3/24/97
Carbazole	--	--	NA	20 U	20R R	20 U
Chrysene	--	--	NA	20 U	10 U	10 U
Di-N-Butylphthalate	--	--	10 U**	20 U	10 U	10 U
Di-n-octylphthalate	--	--	NA	20 U	10 U	10 U
Dibenzo(a,h)Anthracene	--	--	NA	20 U	10 U	10 U
Dibenzofuran	--	--	NA	20 U	10 U	10 U
Diethylphthalate	--	--	NA	20 U	10 U	10 U
Dimethylphthalate	--	--	NA	20 U	10 U	10 U
Fluoranthene	--	--	NA	20 U	10 U	10 U
Fluorene	--	--	NA	20 U	10 U	10 U
Hexachlorobenzene	1	1	NA	20 U	10 U	10 U
Hexachlorobutadiene	--	--	NA	20 U	10 U	10 U
Hexachlorocyclopentadiene	50	--	NA	20 U	10 U	10 U
Hexachloroethane	--	--	NA	20 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	--	--	NA	20 U	10 U	10 U
Isophorone	--	--	NA	20 U	10 U	10 U
N-Nitroso-di-n-propylamine	--	--	NA	20 U	10 U	10 U
N-Nitrosodiphenylamine	--	--	NA	20 U	10 U	10 U
Naphthalene	--	20	ND	20 U	10 U	10 U
Nitrobenzene	--	--	NA	20 U	10 U	10 U
Pentachlorophenol	1	1	NA	50 U	50 U	50 U
Phenanthrene	--	--	NA	20 U	10 U	10 U
Phenol	--	--	NA	20 U	10 U	10 U
Pyrene	--	--	NA	20 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-8
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	2/28/95	12/18/96	3/24/97
4,4'-DDD	--	--	.1 U	.1 U	.1 U
4,4'-DDE	--	--	.1 U	.1 U	.1 U
4,4'-DDT	--	--	.1 U	.1 U	.1 U
Aldrin	--	--	.05 U	.05 U	.05 U
alpha-BHC	--	--	.05 U	.05 U	.05 U
alpha-Chlordane	2	2	NA	.05 U	.05 U
beta-BHC	--	--	.05 U	.05 U	.05 U
delta-BHC	--	--	.05 U	.05 U	.05 U
Dieldrin	--	--	.1 U	.1 U	.1 U
Endosulfan I	--	--	.05 U	.05 UJ	.05 U
Endosulfan II	--	--	.1 U	.1 U	.1 U
Endosulfan Sulfate	--	--	.1 U	.1 U	.1 U
Endrin	2	--	.1 U	.1 U	.1 U
Endrin Aldehyde	--	--	.1 U	.01 U	.01 U
Endrin Ketone	--	--	NA	.1 U	.1 U
gamma-BHC	--	--	.05 U	.05 U	.05 U
gamma-Chlordane	2	2	NA	.05 U	.05 U
Heptachlor	0.4	--	.05 U	.05 U	.05 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	.05 U
Methoxychlor	40	--	.5 U	.5 U	.5 U
Toxaphene	3	--	5 U	5 U	5 U
Aroclor-1016	0.5	0.5	1 U	1 U	1 U
Aroclor-1221	0.5	0.5	2 U	2 U	2 U
Aroclor-1232	0.5	0.5	1 U	1 U	1 U
Aroclor-1242	0.5	0.5	1 U	1 U	1 U
Aroclor-1248	0.5	0.5	1 U	1 U	1 U
Aroclor-1254	0.5	0.5	1 U	1 U	1 U
Aroclor-1260	0.5	0.5	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-8
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	2/28/95	5/92	5/92 Filt	12/18/96 Filt	12/18/96 Tot	3/24/97 Tot
ALUMINUM	-	-	360	5.59	ND	0.1 U	0.6	0.2 J
ANTIMONY	0.006	0.006	50 U	NA	ND	0.02 U	0.02 U	0.02U
ARSENIC	0.05	-	3.9 J	0.02	ND	0.004 U	0.006	0.004 UJ
BARIUM	2	2	22.1 J	0.062 B	0.01 B	0.01 U	0.03 U	0.04 J
BERYLLIUM	0.004	0.004	1 U	ND	ND	0.01 U	0.01 U	0.01 U
CADMIUM	0.005	0.005	3 U	ND	ND	0.01 U	0.01 U	0.01 U
CALCIUM	-	-	42700	24.3 J	23.7 J	54	53	42
CHROMIUM	0.1	0.1	5 U	0.019	ND	0.02 U	0.02 U	0.02 U
COBALT	-	-	10 J	0.027 B	ND	0.02 U	0.02 U	0.02 U
COPPER	1.3	-	6.9 U	0.05	ND	0.02 U	0.02 U	0.02 U
IRON	-	-	1560	22.1 J	0.063 BU	0.04 U	1.6	0.1 J
LEAD	0.015	0.015	2 U	0.03 J	0.02 UJ	0.005 U	0.005 U	0.005 U
MAGNESIUM	-	-	28400	19.8 J	18.9 J	21	21	18
MANGANESE	-	-	6310	0.535 J	0.041 J	0.01 U	0.23	0.02
MERCURY	0.002	0.002	0.24 J	ND	ND	0.0002 U	0.0002 U	0.0002 U
NICKEL	0.14	0.1	19.9 J	0.035	ND	0.04 U	0.04 U	0.04 U
POTASSIUM	-	-	3390 J	2.28 B	1.59 B	3	2	3
SELENIUM	0.05	0.05	4 U	ND	ND	0.004 U	0.004 U	0.004 UJ
SILVER	-	-	4 U	ND	ND	0.01 U	0.01 U	0.01 U
SODIUM	-	-	70200	10.5	10.9	17	18	20
THALLIUM	0.002	0.002	5 U	NA	NA	0.005 U	0.005 U	0.005 U
VANADIUM	-	-	2 U	0.063 B	0.006 B	0.01 U	0.01 U	0.01 U
ZINC	-	-	17 U	0.068	0.013 BU	0.01	0.02	0.05 J

PARAMETER	MCL	RIDEM GA	2/28/95	5/92	12/18/96
TPH	-	-	NA	NA	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-5

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-86-1

Historical Analytical Results
MW-86-1
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	10/86	7/20/90	10/25/90	5/92	12/18/96	3/25/97	8/13/97
Acetone	-	-	NA	NA	4 JB	ND	10 U	10 U	17 U
Benzene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Bromochloromethane	-	-	NA	NA	NA	NA	5 U	5 U	NA
Bromodichloromethane	100	-	NA	NA	NA	NA	5 U	5 U	5 U
Bromoform	100	-	NA	NA	NA	NA	5 U	5 U	5 UJ
Bromomethane	-	-	NA	NA	NA	NA	10 U	10 U	5 U
Butanone(2-)	-	-	NA	NA	ND	NA	10 U	10 U	10 UR
Carbon Disulfide	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	NA	NA	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	NA	NA	NA	10 U	10 U	5 U
Chloroform	100	-	ND	NA	ND	8 J	6	5 U	5 U
Chloromethane	-	-	NA	NA	2 J	NA	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	NA	NA	5 U	5 U	NA
Dibromochloromethane	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	NA	NA	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	ND	NA	ND	ND	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	ND	NA	NA	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	NA	ND	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	ND	ND	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	NA	NA	5 U	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	NA	ND	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	NA	NA	NA	10 U	10 U	10 UJ
Methylene Chloride	-	-	ND	NA	11 B	10 U**	5 U	5 U	10 U
Styrene	100	100	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	NA	ND	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	NA	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	ND	NA	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Trichloroethene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Vinyl Chloride	2	2	NA	NA	ND	ND	10 U	10 U	2 U
Vinylacetate	-	-	NA	NA	NA	NA	10 U	10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-1
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	12/18/96	3/25/97	8/13/97
1,2,4-Trichlorobenzene	70	70	NA	NA	10 U	10 UJ	5 U
1,2-Dichlorobenzene	600	600	NA	NA	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	NA	NA	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	NA	NA	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	NA	NA	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	NA	NA	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	NA	NA	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	NA	NA	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	NA	NA	50 U	50 U	10 U
2,4-Dinitrotoluene	--	--	NA	NA	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	NA	NA	10 U	10 U	5 U
2-Chloronaphthalene	--	--	NA	NA	10 U	10 UJ	5 U
2-Chlorophenol	--	--	NA	NA	10 U	10 U	5 U
2-Methylnaphthalene	--	--	NA	ND	10 U	10 U	5 U
2-Methylphenol	--	--	NA	NA	10 U	10 U	5 U
2-Nitroaniline	--	--	NA	NA	50 U	50 U	10 U
2-Nitrophenol	--	--	NA	NA	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	NA	NA	20 U	20 U	5 U
3-Methylphenol	--	--	NA	NA	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	NA	NA	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	NA	NA	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	NA	NA	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	NA	NA	10 U	10 U	5 U
4-Chloroaniline	--	--	NA	NA	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	NA	NA	10 U	10 U	5 U
4-Methylphenol	--	--	NA	NA	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	NA	NA	50 U	50 U	10 U
4-Nitrophenol	--	--	NA	NA	50 U	50 U	10 U
Acenaphthene	--	--	NA	ND	10 U	10 U	5 U
Acenaphthylene	--	--	NA	NA	10 U	10 U	5 U
Anthracene	--	--	NA	NA	10 U	10 U	5 U
Benzo(a)anthracene	--	--	NA	NA	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	NA	NA	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	NA	NA	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	NA	NA	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	NA	NA	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	NA	NA	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	NA	NA	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	NA	NA	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	NA	ND	10 U	10 U	5 U
Butylbenzylphthalate	--	--	NA	NA	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-86-1
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	12/18/96	3/25/97	8/13/97
Carbazole	--	--	NA	NA	20R R	20 UJ	5 U
Chrysene	--	--	NA	NA	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	NA	NA	10 U	10 U	5 U
Di-n-octylphthalate	--	--	NA	NA	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	NA	NA	10 U	10 U	5 U
Dibenzofuran	--	--	NA	NA	10 U	10 U	5 U
Diethylphthalate	--	--	NA	NA	10 U	10 U	5 U
Dimethylphthalate	--	--	NA	NA	10 U	10 U	5 U
Fluoranthene	--	--	NA	NA	10 U	10 U	5 U
Fluorene	--	--	NA	ND	10 U	10 U	5 U
Hexachlorobenzene	1	1	NA	NA	10 U	10 U	5 U
Hexachlorobutadiene	--	--	NA	NA	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	NA	NA	10 U	10 U	5 U
Hexachloroethane	--	--	NA	NA	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	NA	NA	10 U	10 U	5 U
Isophorone	--	--	NA	NA	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	NA	NA	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	NA	NA	10 U	10 U	5 U
Naphthalene	--	20	NA	ND	10 U	10 U	5 U
Nitrobenzene	--	--	NA	NA	10 U	10 U	5 U
Pentachlorophenol	1	1	NA	NA	50 U	50 U	10 U
Phenanthrene	--	--	NA	ND	10 U	10 U	5 U
Phenol	--	--	NA	NA	10 U	10 U	5 U
Pyrene	--	--	NA	ND	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-86-1
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	12/18/96	3/25/97	8/13/97
4,4'-DDD	--	--	NA	.1 U	.1 U	0.05 U
4,4'-DDE	--	--	NA	.1 U	.1 U	0.05 U
4,4'-DDT	--	--	NA	.1 U	.1 U	0.05 U
Aldrin	--	--	NA	.05 U	.05 U	0.025 U
alpha-BHC	--	--	NA	.05 U	.05 U	0.025 U
alpha-Chlordane	2	2	NA	.05 U	.05 U	0.025 U
beta-BHC	--	--	NA	.05 U	.05 U	0.025 U
delta-BHC	--	--	NA	.05 U	.05 U	0.025 U
Dieldrin	--	--	NA	.1 U	.1 U	0.05 U
Endosulfan I	--	--	NA	.05 UJ	.05 U	0.025 U
Endosulfan II	--	--	NA	.1 U	.1 U	0.05 U
Endosulfan Sulfate	--	--	NA	.1 U	.1 U	0.05 U
Endrin	2	--	NA	.1 U	.1 U	0.05 U
Endrin Aldehyde	--	--	NA	.01 U	.01 U	0.05 U
Endrin Ketone	--	--	NA	.1 U	.1 U	0.05 U
gamma-BHC	--	--	NA	.05 U	.05 U	0.025 U
gamma-Chlordane	2	2	NA	.05 U	.05 U	0.025 U
Heptachlor	0.4	--	NA	.05 U	.05 U	0.025 U
Heptachlor Epoxide	0.2	--	NA	.05 U	.05 U	0.025 U
Methoxychlor	40	--	NA	.5 U	.5 U	0.25 U
Toxaphene	3	--	NA	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	NA	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	NA	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	NA	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	NA	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	NA	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	NA	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	NA	1 U	1 U	0.5 U

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Historical Analytical Results
MW-86-1
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	7/20/90 (Pb)	10/25/90	5/92 Filt	5/92	12/18/96 Filt	12/18/96	3/25/97 Filt	3/25/97	8/13/97 Filt	8/13/97 Total
ALUMINUM	-	-	NA	NA	0.368	16.9	0.1 U	4.1	0.1 U	4.7	0.109 U	1.98
ANTIMONY	0.01	0.006	NA	NA	ND	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.002 U	0.002 U
ARSENIC	0.05	-	NA	159	0.002 UJ	0.057 J	0.004 U	0.028	0.004 UJ	0.014 J	0.0034 J	0.0144
BARIUM	2	2	NA	NA	0.008 B	0.052 B	0.01 U	0.11 U	0.01 U	0.03	0.0068 U	0.0145 U
BERYLLIUM	0	0.004	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U	0.00078 U	0.00078 U
CADMIUM	0.01	0.005	NA	NA	0.007	ND	0.01 U	0.01 U	0.01 U	0.01 U	0.0005 U	0.0005 U
CALCIUM	-	-	NA	NA	16.2	16.4	15	21	15	24	18.1	21
CHROMIUM	0.1	0.1	NA	ND	ND	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.0065 UJ	0.0065 UJ
COBALT	-	-	NA	NA	0.036 B	0.171	0.02 U	0.02 U	0.02 U	0.02 U	0.02	0.0391 U
COPPER	1.3	-	NA	160	ND	0.063	0.02 U	0.02 U	0.02 U	0.02 U	0.0038 UJ	0.0038 UJ
IRON	-	-	NA	NA	1.17	72.2	0.04 U	9.6	0.04 U	12	0.0071 UJ	6.670 J
LEAD	0.02	0.015	21.6 J	48.6	REJ	0.025 J	0.005 U	0.0015	0.005 U	0.005 U	0.0012 U	0.0049 U
MAGNESIUM	-	-	NA	NA	13	16.7	8.9	9.7	9.5	10	14	15.7
MANGANESE	-	-	NA	NA	0.721	3.1	0.01 U	0.25	0.01 U	0.19	0.356	0.716
MERCURY	0	0.002	NA	NA	ND	ND	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00013 U	0.00013 U
NICKEL	0.14	0.1	NA	250	0.04	0.116	0.04 U	0.04 U	0.04 U	0.04 U	0.0252 J	0.0397 J
POTASSIUM	-	-	NA	NA	1.03 B	1.6 B	1 U	1	1 U	2	1.22	1.160 U
SELENIUM	0.05	0.05	NA	NA	0.002 UJ	ND	0.004 U	0.004 U	0.004 UJ	0.004 UJ	0.0034 U	0.0034 U
SILVER	-	-	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U	0.0018 U	0.0018 U
SODIUM	-	-	NA	NA	9.51	9.23	7.6	7.8	9.1	11	11.2	11.9
THALLIUM	0	0.002	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U
VANADIUM	-	-	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U	0.0105 J	0.0069 J
ZINC	-	-	NA	334	0.023	0.19	0.02	0.06	0.01	0.06	0.0304	0.05

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	5/92	12/18/96	3/25/97	8/13/97
TPH	-	-	NA	NA	NA	1 U	1 U	1.1 U

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APPENDIX B-6

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-86-2

Historical Analytical Results
MW-86-2
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	10/86	7/20/90	10/25/90	5/92	2/28/95	12/18/96	3/25/97
Acetone	-	-	NA	NA	3 JB	ND	10 U	10 U	34 U
Benzene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Bromochloromethane	-	-	NA	NA	NA	NA	NA	5 U	5 U
Bromodichloromethane	100	-	NA	NA	NA	NA	5 U	5 U	5 U
Bromoform	100	-	NA	NA	NA	NA	5 U	5 U	5 U
Bromomethane	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Butanone(2-)	-	-	NA	NA	ND	NA	10 U	10 U	10 U
Carbon Disulfide	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	NA	NA	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Chloroform	100	-	10	NA	5	ND	5 U	5 U	5 U
Chloromethane	-	-	NA	NA	ND	NA	10 U	10 U	10 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	NA	NA	NA	5 U	5 U
Dibromochloromethane	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	NA	NA	NA	5 U	5 U
Dichloroethane(1,1-)	-	-	2	NA	1 J	ND	7	5 U	5 U
Dichloroethane(1,2-)	5	5	ND	NA	NA	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	NA	ND	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	12	ND	3 J	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	NA	NA	NA	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	NA	NA	NA	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	NA	ND	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Methylene Chloride	-	-	ND	NA	11 B	10 U**	5 U	5 U	5 U
Styrene	100	100	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	NA	ND	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	NA	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5	NA	7	ND	2 J	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Trichloroethene	5	5	1	NA	8	ND	3 J	5 U	5 U
Vinyl Chloride	2	2	NA	NA	ND	ND	10 U	10 U	10 U
Vinylacetate	-	-	NA	NA	NA	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
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Historical Analytical Results
MW-86-2
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	2/28/95	3/25/97
1,2,4-Trichlorobenzene	70	70	NA	NA	10 U	10 UJ
1,2-Dichlorobenzene	600	600	NA	NA	10 U	10 U
1,3-Dichlorobenzene	--	600	NA	NA	10 U	10 U
1,4-Dichlorobenzene	75	75	NA	NA	10 U	10 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	10 U	NA
2,4,5-Trichlorophenol	--	--	NA	NA	25 U	50 U
2,4,6-Trichlorophenol	--	--	NA	NA	10 U	10 U
2,4-Dichlorophenol	--	--	NA	NA	10 U	10 U
2,4-Dimethylphenol	--	--	NA	NA	10 U	10 U
2,4-Dinitrophenol	--	--	NA	NA	25 U	50 U
2,4-Dinitrotoluene	--	--	NA	NA	10 U	10 U
2,6-Dinitrotoluene	--	--	NA	NA	10 U	10 U
2-Chloronaphthalene	--	--	NA	NA	10 U	10 UJ
2-Chlorophenol	--	--	NA	NA	10 U	10 U
2-Methylnaphthalene	--	--	NA	ND	10 U	10 U
2-Methylphenol	--	--	NA	NA	10 U	10 U
2-Nitroaniline	--	--	NA	NA	25 U	50 U
2-Nitrophenol	--	--	NA	NA	10 U	10 U
3,3-Dichlorobenzidine	--	--	NA	NA	10 U	20 U
3-Methylphenol	--	--	NA	NA	NA	10 UJ
3-Nitroaniline	--	--	NA	NA	25 U	50 U
4,6-Dinitro-2-methylphenol	--	--	NA	NA	25 U	50 U
4-Bromophenyl-phenylether	--	--	NA	NA	10 U	10 U
4-Chloro-3-methyphenol	--	--	NA	NA	10 U	10 U
4-Chloroaniline	--	--	NA	NA	10 U	10 U
4-Chlorophenyl-phenyl ether	--	--	NA	NA	10 U	10 U
4-Methylphenol	--	--	NA	NA	10 U	10 UJ
4-Nitroaniline	--	--	NA	NA	25 U	50 U
4-Nitrophenol	--	--	NA	NA	25 U	50 U
Acenaphthene	--	--	NA	ND	10 U	10 U
Acenaphthylene	--	--	NA	NA	10 U	10 U
Anthracene	--	--	NA	NA	10 U	10 U
Benzo(a)anthracene	--	--	NA	NA	10 U	10 U
Benzo(a)pyrene	2	0.2	NA	NA	10 U	10 U
Benzo(b)fluoranthene	--	--	NA	NA	10 U	10 U
Benzo(g,h,i)Perylene	--	--	NA	NA	10 U	10 U
Benzo(k)fluoranthene	--	--	NA	NA	10 U	10 U
Bis(2-Chloroethoxy)Methane	--	--	NA	NA	10 U	10 U
Bis(2-Chloroethyl)ether	--	--	NA	NA	10 U	10 U
bis(2-Chloroisopropyl)ether	--	--	NA	NA	NA	10 U
bis(2-Ethylhexyl)phthalate	--	--	NA	ND	4 J	10 U
Butylbenzylphthalate	--	--	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-2
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	2/28/95	3/25/97
Carbazole	--	--	NA	NA	10 U	20 UJ
Chrysene	--	--	NA	NA	10 U	10 U
Di-N-Butylphthalate	--	--	NA	NA	10 U	10 U
Di-n-octylphthalate	--	--	NA	NA	10 U	10 U
Dibenzo(a,h)Anthracene	--	--	NA	NA	10 U	10 U
Dibenzofuran	--	--	NA	NA	10 U	10 U
Diethylphthalate	--	--	NA	NA	10 U	10 U
Dimethylphthalate	--	--	NA	NA	10 U	10 U
Fluoranthene	--	--	NA	NA	10 U	10 U
Fluorene	--	--	NA	ND	10 U	10 U
Hexachlorobenzene	1	1	NA	NA	10 U	10 U
Hexachlorobutadiene	--	--	NA	NA	10 U	10 U
Hexachlorocyclopentadiene	50	--	NA	NA	10 U	10 U
Hexachloroethane	--	--	NA	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	--	--	NA	NA	10 U	10 U
Isophorone	--	--	NA	NA	10 U	10 U
N-Nitroso-di-n-propylamine	--	--	NA	NA	10 U	10 U
N-Nitrosodiphenylamine	--	--	NA	NA	10 U	10 U
Naphthalene	--	20	NA	ND	10 U	10 U
Nitrobenzene	--	--	NA	NA	10 U	10 U
Pentachlorophenol	1	1	NA	NA	25 U	50 U
Phenanthrene	--	--	NA	ND	10 U	10 U
Phenol	--	--	NA	NA	10 U	10 U
Pyrene	--	--	NA	ND	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-2
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	2/28/95	12/18/96	3/35/97
4,4'-DDD	--	--	NA	.1 U	.1 U	.1 U
4,4'-DDE	--	--	NA	.1 U	.1 U	.1 U
4,4'-DDT	--	--	NA	.1 U	.1 U	.1 U
Aldrin	--	--	NA	.05 U	.05 U	.05 U
alpha-BHC	--	--	NA	.05 U	.05 U	.05 U
alpha-Chlordane	2	2	NA	NA	.05 U	.05 U
beta-BHC	--	--	NA	.05 U	.05 U	.05 U
delta-BHC	--	--	NA	.05 U	.05 U	.05 U
Dieldrin	--	--	NA	.1 U	.1 U	.1 U
Endosulfan I	--	--	NA	.05 U	.05 UJ	.05 U
Endosulfan II	--	--	NA	.1 U	.1 U	.1 U
Endosulfan Sulfate	--	--	NA	.1 U	.1 U	.1 U
Endrin	2	--	NA	.1 U	.1 U	.1 U
Endrin Aldehyde	--	--	NA	.1 U	.01 U	.01 U
Endrin Ketone	--	--	NA	NA	.1 U	.1 U
gamma-BHC	--	--	NA	.05 U	.05 U	.05 U
gamma-Chlordane	2	2	NA	NA	.05 U	.05 U
Heptachlor	0.4	--	NA	.05 U	.05 U	.05 U
Heptachlor Epoxide	0.2	--	NA	.05 U	.05 U	.05 U
Methoxychlor	40	--	NA	.5 U	.5 U	.5 U
Toxaphene	3	--	NA	5 U	5 U	5 U
Aroclor-1016	0.5	0.5	NA	1 U	1 U	1 U
Aroclor-1221	0.5	0.5	NA	2 U	2 U	2 U
Aroclor-1232	0.5	0.5	NA	1 U	1 U	1 U
Aroclor-1242	0.5	0.5	NA	1 U	1 U	1 U
Aroclor-1248	0.5	0.5	NA	1 U	1 U	1 U
Aroclor-1254	0.5	0.5	NA	1 U	1 U	1 U
Aroclor-1260	0.5	0.5	NA	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-2
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	7/20/90 (pb)	10/25/90	5/92 Filt	5/92	12/18/96 Filt	12/18/96 Tot	3/25/97 Filt	3/25/97 Tot
ALUMINUM	-	-	NA	NA	18.9	18.9	0.1 U	2.8	0.1 U	4.7
ANTIMONY	0.01	0.006	NA	NA	ND	NA	0.02 U	0.02 U	0.02 U	0.02 U
ARSENIC	0.05	-	NA	51.6	0.047	0.047	0.004 U	0.018	0.004 UJ	0.019 J
BARIUM	2	2	NA	NA	0.067 B	0.067	0.01 U	0.01	0.01 U	0.03
BERYLLIUM	0	0.004	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CADMIUM	0.01	0.005	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CALCIUM	-	-	NA	NA	25.3 J	25.3 J	35	36	27	26
CHROMIUM	0.1	0.1	NA	12.4	0.066	0.066	0.02 U	0.02 U	0.02 U	0.02 U
COBALT	-	-	NA	NA	0.102	0.102	0.02 U	0.02 U	0.02 U	0.03
COPPER	1.3	-	NA	91.2	0.076	0.076	0.02 U	0.02 U	0.02 U	0.02
IRON	-	-	NA	NA	94.6 J	94.6 J	0.04 U	8.9	0.04 U	16
LEAD	0.02	0.015	NA	36.2	0.053 J	0.053 J	0.005 U	0.009	0.005 U	0.007
MAGNESIUM	-	-	NA	NA	27.7 J	27.2 J	28	28	22	22
MANGANESE	-	-	NA	NA	4.38 J	4.38 J	0.14	0.35	0.03 J	0.86
MERCURY	0	0.002	NA	NA	0.00014 B	0.00014 B	0.0002 U	0.0002 U	0.0002 U	0.0002 U
NICKEL	0.14	0.1	NA	134	0.115	0.115	0.04 U	0.04 U	0.04 U	0.04J
POTASSIUM	-	-	NA	NA	2.86 B	2.86 B	3	3	2	4
SELENIUM	0.05	0.05	NA	NA	ND	ND	0.004 U	0.004 U	0.004 UJ	0.004 UJ
SILVER	-	-	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
SODIUM	-	-	NA	NA	15.1	15.1	19	18	16	17
THALLIUM	0	0.002	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U
VANADIUM	-	-	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01
ZINC	-	-	NA	331	0.255	0.255	0.03	0.07	0.01 U	0.11

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	5/92	12/18/96	3/5/97
TPH	-	-	NA	NA	NA	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-7

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-86-4

Historical Analytical Results
MW-86-4
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	10/86	7/20/90	10/25/90	5/92	12/18/96	3/25/97	8/14/97
Acetone	-	-	NA	NA	ND	10 U**	10 U	10 U	10 UR
Benzene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Bromochloromethane	-	-	NA	NA	NA	NA	5 U	5 U	NA
Bromodichloromethane	100	-	NA	NA	NA	NA	5 U	5 U	5 U
Bromoform	100	-	NA	NA	NA	NA	5 U	5 U	5 U
Bromomethane	-	-	NA	NA	NA	NA	10 U	10 U	5 U
Butanone(2-)	-	-	NA	NA	ND	NA	10 U	10 U	10 UR
Carbon Disulfide	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	NA	NA	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	NA	NA	NA	10 U	10 U	5 U
Chloroform	100	-	12	NA	ND	ND	5 U	5 U	5 U
Chloromethane	-	-	NA	NA	ND	NA	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	NA	NA	5 U	5 U	NA
Dibromochloromethane	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	NA	NA	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	ND	NA	ND	ND	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	ND	NA	NA	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	NA	ND	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	ND	ND	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	NA	NA	5 U	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	NA	ND	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	NA	NA	NA	10 U	10 U	10 U
Methylene Chloride	-	-	ND	NA	8 B	ND	5 U	5 U	9 U
Styrene	100	100	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	NA	NA	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	NA	ND	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	NA	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	ND	NA	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	NA	NA	NA	5 U	5 U	5 U
Trichloroethene	5	5	ND	NA	ND	ND	5 U	5 U	5 U
Vinyl Chloride	2	2	NA	NA	ND	ND	10 U	10 U	2 U
Vinylacetate	-	-	NA	NA	NA	NA	10 U	10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-4
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	12/18/96	3/25/97
1,2,4-Trichlorobenzene	70	70	NA	NA	10 U	10 UJ
1,2-Dichlorobenzene	600	600	NA	NA	10 U	10 U
1,3-Dichlorobenzene	--	600	NA	NA	10 U	10 U
1,4-Dichlorobenzene	75	75	NA	NA	10 U	10 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	NA	NA
2,4,5-Trichlorophenol	--	--	NA	NA	50 U	50 U
2,4,6-Trichlorophenol	--	--	NA	NA	10 U	10 U
2,4-Dichlorophenol	--	--	NA	NA	10 U	10 U
2,4-Dimethylphenol	--	--	NA	NA	10 U	10 U
2,4-Dinitrophenol	--	--	NA	NA	50 U	50 U
2,4-Dinitrotoluene	--	--	NA	NA	10 U	10 U
2,6-Dinitrotoluene	--	--	NA	NA	10 U	10 U
2-Chloronaphthalene	--	--	NA	NA	10 U	10 UJ
2-Chlorophenol	--	--	NA	NA	10 U	10 U
2-Methylnaphthalene	--	--	NA	ND	10 U	10 U
2-Methylphenol	--	--	NA	NA	10 U	10 U
2-Nitroaniline	--	--	NA	NA	50 U	50 U
2-Nitrophenol	--	--	NA	NA	10 U	10 U
3,3-Dichlorobenzidine	--	--	NA	NA	20 U	20 U
3-Methylphenol	--	--	NA	NA	10 UJ	10 UJ
3-Nitroaniline	--	--	NA	NA	50 U	50 U
4,6-Dinitro-2-methylphenol	--	--	NA	NA	50 U	50 U
4-Bromophenyl-phenylether	--	--	NA	NA	10 U	10 U
4-Chloro-3-methyphenol	--	--	NA	NA	10 U	10 U
4-Chloroaniline	--	--	NA	NA	10 U	10 U
4-Chlorophenyl-phenyl ether	--	--	NA	NA	10 U	10 U
4-Methylphenol	--	--	NA	NA	10 UJ	10 UJ
4-Nitroaniline	--	--	NA	NA	50 U	50 U
4-Nitrophenol	--	--	NA	NA	50 U	50 U
Acenaphthene	--	--	NA	ND	10 U	10 U
Acenaphthylene	--	--	NA	NA	10 U	10 U
Anthracene	--	--	NA	NA	10 U	10 U
Benzo(a)anthracene	--	--	NA	NA	10 U	10 U
Benzo(a)pyrene	2	0.2	NA	NA	10 U	10 U
Benzo(b)fluoranthene	--	--	NA	NA	10 U	10 U
Benzo(g,h,i)Perylene	--	--	NA	NA	10 U	10 U
Benzo(k)fluoranthene	--	--	NA	NA	10 U	10 U
Bis(2-Chloroethoxy)Methane	--	--	NA	NA	10 U	10 U
Bis(2-Chloroethyl)ether	--	--	NA	NA	10 U	10 U
bis(2-Chloroisopropyl)ether	--	--	NA	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	--	--	NA	ND	10 U	10 U
Butylbenzylphthalate	--	--	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-4
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	12/18/96	3/25/97
Carbazole	--	--	NA	NA	20R R	20 UJ
Chrysene	--	--	NA	NA	10 U	10 U
Di-N-Butylphthalate	--	--	NA	NA	10 U	10 U
Di-n-octylphthalate	--	--	NA	NA	10 U	10 U
Dibenzo(a,h)Anthracene	--	--	NA	NA	10 U	10 U
Dibenzofuran	--	--	NA	NA	10 U	10 U
Diethylphthalate	--	--	NA	NA	10 U	10 U
Dimethylphthalate	--	--	NA	NA	10 U	10 U
Fluoranthene	--	--	NA	NA	10 U	10 U
Fluorene	--	--	NA	ND	10 U	10 U
Hexachlorobenzene	1	1	NA	NA	10 U	10 U
Hexachlorobutadiene	--	--	NA	NA	10 U	10 U
Hexachlorocyclopentadiene	50	--	NA	NA	10 U	10 U
Hexachloroethane	--	--	NA	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	--	--	NA	NA	10 U	10 U
Isophorone	--	--	NA	NA	10 U	10 U
N-Nitroso-di-n-propylamine	--	--	NA	NA	10 U	10 U
N-Nitrosodiphenylamine	--	--	NA	NA	10 U	10 U
Naphthalene	--	20	NA	ND	10 U	10 U
Nitrobenzene	--	--	NA	NA	10 U	10 U
Pentachlorophenol	1	1	NA	NA	50 U	50 U
Phenanthrene	--	--	NA	ND	10 U	10 U
Phenol	--	--	NA	NA	10 U	10 U
Pyrene	--	--	NA	ND	10 U	10 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-86-4
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	7/20/90	12/18/96	3/5/97
4,4'-DDD	--	--	NA	.1 U	.1 U
4,4'-DDE	--	--	NA	.1 U	.1 U
4,4'-DDT	--	--	NA	.1 U	.1 U
Aldrin	--	--	NA	.05 U	.05 U
alpha-BHC	--	--	NA	.05 U	.05 U
alpha-Chlordane	2	2	NA	.05 U	.05 U
beta-BHC	--	--	NA	.05 U	.05 U
delta-BHC	--	--	NA	.05 U	.05 U
Dieldrin	--	--	NA	.1 U	.1 U
Endosulfan I	--	--	NA	.05 UJ	.05 U
Endosulfan II	--	--	NA	.1 U	.1 U
Endosulfan Sulfate	--	--	NA	.1 U	.1 U
Endrin	2	--	NA	.1 U	.1 U
Endrin Aldehyde	--	--	NA	.01 U	.01 U
Endrin Ketone	--	--	NA	.1 U	.1 U
gamma-BHC	--	--	NA	.05 U	.05 U
gamma-Chlordane	2	2	NA	.05 U	.05 U
Heptachlor	0.4	--	NA	.05 U	.05 U
Heptachlor Epoxide	0.2	--	NA	.05 U	.05 U
Methoxychlor	40	--	NA	.5 U	.5 U
Toxaphene	3	--	NA	5 U	5 U
Aroclor-1016	0.5	0.5	NA	1 U	1 U
Aroclor-1221	0.5	0.5	NA	2 U	2 U
Aroclor-1232	0.5	0.5	NA	1 U	1 U
Aroclor-1242	0.5	0.5	NA	1 U	1 U
Aroclor-1248	0.5	0.5	NA	1 U	1 U
Aroclor-1254	0.5	0.5	NA	1 U	1 U
Aroclor-1260	0.5	0.5	NA	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-4
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	5/92 Filtered	5/92 Total	12/18/96 Filtered	12/18/96 Total	3/25/97 Filtered	3/25/97 Total
ALUMINUM	-	-	NA	NA	0.105	17.4	0.1 U	6.3	0.1 U	6.1
ANTIMONY	0.006	0.006	NA	NA	ND	NA	0.02 U	0.02 U	0.02 U	0.02 U
ARSENIC	0.05	-	NA	N/A	0.002 UJ	0.016 J	0.004 U	0.014	0.004 UJ	0.007 J
BARIUM	2	2	NA	NA	ND	0.023 B	0.01 U	0.01 U	0.01 U	0.02
BERYLLIUM	0.004	0.004	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CADMIUM	0.005	0.005	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
CALCIUM	-	-	NA	NA	4.66 B	6	5.4	6.8	4.5	6.3
CHROMIUM	0.1	0.1	NA	N/A	ND	0.03	0.02 U	0.02 U	0.02 U	0.02 U
COBALT	-	-	NA	NA	ND	0.017 B	0.02 U	0.02 U	0.02 U	0.02 U
COPPER	1.3	-	NA	N/A	0.008 B	0.034	0.02 U	0.02 U	0.02 U	0.02 U
IRON	-	-	NA	NA	ND	44.7	0.04 U	19	0.04 U	15
LEAD	0.015	0.015	20.2 J	NA	REJ	0.017 J	0.005 U	0.011	0.005 U	0.005 U
MAGNESIUM	-	-	NA	NA	2.1 B	7	2.1	3.8	2	3.7
MANGANESE	-	-	NA	NA	0.02	0.263	0.02	0.2	0.02 J	0.11
MERCURY	0.002	0.002	NA	NA	ND	ND	0.0002 U	0.0002 U	0.0002 U	0.0002 U
NICKEL	0.14	0.1	NA	N/A	ND	0.027 B	0.04 U	0.04 U	0.04 U	0.04 U
POTASSIUM	-	-	NA	NA	ND	1.33 B	1	1	1 U	1
SELENIUM	0.05	0.05	NA	NA	0.002 UJ	2 UJ	0.004 U	0.004 U	0.004 UJ	0.004 UJ
SILVER	-	-	NA	NA	ND	ND	0.01 U	0.01 U	0.01 U	0.01 U
SODIUM	-	-	NA	NA	8.96	8.7	4.7	5	6	8.8
THALLIUM	0.002	0.002	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U
VANADIUM	-	-	NA	NA	ND	0.012 B	0.01 U	0.01 U	0.01 U	0.01
ZINC	-	-	NA	NA	0.01 B	0.084	0.03	0.03	0.01	0.07

PARAMETER	MCL	RIDEM GA	7/20/90	10/25/90	5/92	12/18/96	3/25/97
TPH	-	-	NA	NA	NA	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-8

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-86-5

Historical Analytical Results
MW-86-5
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	10/86	5/92	2/28/95	12/17/96	3/24/97
Acetone	-	-	NA	17 U**	10 U	10 U	10 U
Benzene	5	5	ND	ND	5 U	5 U	5 U
Bromochloromethane	-	-	NA	NA	NA	5 U	5 U
Bromodichloromethane	100	-	NA	NA	5 U	5 U	5 U
Bromoform	100	-	NA	NA	5 U	5 U	5 U
Bromomethane	-	-	NA	NA	10 U	10 U	10 U
Butanone(2-)	-	-	NA	NA	10 U	10 U	10 U
Carbon Disulfide	-	-	NA	NA	5 U	5 U	5 U
Carbon Tetrachloride	5	5	NA	NA	5 U	5 U	5 U
Chlorobenzene	-	100	NA	NA	5 U	5 U	5 U
Chloroethane	-	-	NA	NA	10 U	10 U	10 U
Chloroform	100	-	ND	ND	5 U	5 U	5 U
Chloromethane	-	-	NA	NA	10 U	10 U	10 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	NA	NA	NA	5 U	5 U
Dibromochloromethane	-	-	NA	NA	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	NA	NA	NA	5 U	5 U
Dichloroethane(1,1-)	-	-	ND	ND	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	ND	NA	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	NA	NA	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	ND	5 U	NA	NA
Dichloroethene(cis-1,2-)	70	70	NA	NA	NA	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	NA	NA	NA	5 U	5 U
Dichloropropane(1,2-)	5	5	NA	NA	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	NA	NA	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	NA	NA	5 U	5 U	5 U
Ethylbenzene	700	700	ND	ND	5 U	5 U	5 U
Hexanone(2-)	-	-	NA	NA	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	NA	NA	10 U	10 U	10 U
Methylene Chloride	-	-	ND	10 U**	5 U	5 U	5 U
Styrene	100	100	NA	NA	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	NA	NA	5 U	5 U	5 U
Tetrachloroethene	5	5	ND	ND	5 U	5 U	5 U
Toluene	1000	1000	ND	ND	5 U	5 U	5 U
Total Xylenes	10,000	10,000	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	ND	ND	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	NA	NA	5 U	5 U	5 U
Trichloroethene	5	5	ND	ND	5 U	5 U	5 U
Vinyl Chloride	2	2	NA	ND	10 U	10 U	10 U
Vinylacetate	-	-	NA	NA	NA	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-5
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	2/28/95	12/17/96	3/24/97
1,2,4-Trichlorobenzene	70	70	10 U	10 U	10 U
1,2-Dichlorobenzene	600	600	10 U	10 U	10 U
1,3-Dichlorobenzene	--	600	10 U	10 U	10 U
1,4-Dichlorobenzene	75	75	10 U	10 U	10 U
2,2'-Oxybis(1-chloropropane)	--	--	10 U	NA	NA
2,4,5-Trichlorophenol	--	--	25 U	50 U	50 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	10 U
2,4-Dichlorophenol	--	--	10 U	10 U	10 U
2,4-Dimethylphenol	--	--	10 U	10 U	10 U
2,4-Dinitrophenol	--	--	25 U	50 U	50 U
2,4-Dinitrotoluene	--	--	10 U	10 U	10 U
2,6-Dinitrotoluene	--	--	10 U	10 U	10 U
2-Chloronaphthalene	--	--	10 U	10 U	10 U
2-Chlorophenol	--	--	10 U	10 U	10 U
2-Methylnaphthalene	--	--	10 U	10 U	10 U
2-Methylphenol	--	--	10 U	10 U	10 U
2-Nitroaniline	--	--	25 U	50 U	50 U
2-Nitrophenol	--	--	10 U	10 U	10 U
3,3-Dichlorobenzidine	--	--	10 U	20 U	20 U
3-Methylphenol	--	--	NA	10 UJ	10 UJ
3-Nitroaniline	--	--	25 U	50 U	50 U
4,6-Dinitro-2-methylphenol	--	--	25 U	50 U	50 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	10 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	10 U
4-Chloroaniline	--	--	10 U	10 U	10 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	10 U
4-Methylphenol	--	--	10 U	10 UJ	10 UJ
4-Nitroaniline	--	--	25 U	50 U	50 U
4-Nitrophenol	--	--	25 U	50 U	50 U
Acenaphthene	--	--	10 U	10 U	10 U
Acenaphthylene	--	--	10 U	10 U	10 U
Anthracene	--	--	10 U	10 U	10 U
Benzo(a)anthracene	--	--	10 U	10 U	10 U
Benzo(a)pyrene	2	0.2	10 U	10 U	10 U
Benzo(b)fluoranthene	--	--	10 U	10 U	10 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	10 U
Benzo(k)fluoranthene	--	--	10 U	10 U	10 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	10 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	--	--	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	--	--	2 J	10 U	10 U
Butylbenzylphthalate	--	--	10 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-5
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	2/28/95	12/17/96	3/24/97
Carbazole	--	--	10 U	20R R	20 U
Chrysene	--	--	10 U	10 U	10 U
Di-N-Butylphthalate	--	--	10 U	10 U	10 U
Di-n-octylphthalate	--	--	10 U	10 U	10 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	10 U
Dibenzofuran	--	--	10 U	10 U	10 U
Diethylphthalate	--	--	10 U	10 U	10 U
Dimethylphthalate	--	--	10 U	10 U	10 U
Fluoranthene	--	--	10 U	10 U	10 U
Fluorene	--	--	10 U	10 U	10 U
Hexachlorobenzene	1	1	10 U	10 U	10 U
Hexachlorobutadiene	--	--	10 U	10 U	10 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	10 U
Hexachloroethane	--	--	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	10 U
Isophorone	--	--	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	10 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	10 U
Naphthalene	--	20	10 U	10 U	10 U
Nitrobenzene	--	--	10 U	10 U	10 U
Pentachlorophenol	1	1	25 U	50 U	50 U
Phenanthrene	--	--	10 U	10 U	10 U
Phenol	--	--	10 U	10 U	10 U
Pyrene	--	--	10 U	10 U	10 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-5
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	2/28/95	12/17/96	3/24/97
4,4'-DDD	--	--	.1 U	.1 U	.1 U
4,4'-DDE	--	--	.1 U	.1 U	.1 U
4,4'-DDT	--	--	.1 U	.1 U	.1 U
Aldrin	--	--	.05 U	.05 U	.05 U
alpha-BHC	--	--	.05 U	.05 U	.05 U
alpha-Chlordane	2	2	NA	.05 U	.05 U
beta-BHC	--	--	.05 U	.05 U	.05 U
delta-BHC	--	--	.05 U	.05 U	.05 U
Dieldrin	--	--	.1 U	.1 U	.1 U
Endosulfan I	--	--	.05 U	.05 UJ	.05 U
Endosulfan II	--	--	.1 U	.1 U	.1 U
Endosulfan Sulfate	--	--	.1 U	.1 U	.1 U
Endrin	2	--	.1 U	.1 U	.1 U
Endrin Aldehyde	--	--	.1 U	.01 U	.01 U
Endrin Ketone	--	--	NA	.1 U	.1 U
gamma-BHC	--	--	.05 U	.05 U	.05 U
gamma-Chlordane	2	2	NA	.05 U	.05 U
Heptachlor	0.4	--	.05 U	.05 U	.05 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	.05 U
Methoxychlor	40	--	.5 U	.5 U	.5 U
Toxaphene	3	--	5 U	5 U	5 U
Aroclor-1016	0.5	0.5	1 U	1 U	1 U
Aroclor-1221	0.5	0.5	2 U	2 U	2 U
Aroclor-1232	0.5	0.5	1 U	1 U	1 U
Aroclor-1242	0.5	0.5	1 U	1 U	1 U
Aroclor-1248	0.5	0.5	1 U	1 U	1 U
Aroclor-1254	0.5	0.5	1 U	1 U	1 U
Aroclor-1260	0.5	0.5	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
MW-86-5
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/17/96 Filt	12/17/96 Total	3/24/97 Filt	3/24/97 Total
Aluminum	-	-	.1 U	1.1	0.1 U	8 J
Antimony	0.006	0.006	.02 U	.02 U	0.02 U	0.02 U
Arsenic	0.05	-	.004 U	.004 U	0.004 UJ	0.015 J
Barium	2	2	.01 U	.01 U	0.01 U	0.02 J
Beryllium	0.004	0.004	.01 U	.01 U	0.01 U	0.01 U
Cadmium	0.005	0.005	.01 U	.01 U	0.01 U	0.01 U
Calcium	-	-	7.9	9.2	8.8	10
Chromium	0.1	0.1	.02 U	.02 U	0.02 U	0.02 U
Cobalt	-	-	.02 U	.02 U	0.02 U	0.02 U
Copper	1.3	-	.02 U	.02 U	0.02 U	0.02 U
Iron	-	-	.04 U	2.1	0.04 U	20 J
Lead	0.015	0.015	.005 U	.005 U	0.005 U	0.01
Magnesium	-	-	9.1	9.2	9	11
Manganese	-	-	.01 U	.01	0.01 U	0.09
Mercury	0.002	0.002	.0002 U	.0002 U	0.0002 U	0.0002 U
Nickel	0.14	0.1	.04 U	.04 U	0.04 U	0.27 J
Potassium	-	-	1	1 U	1 U	2
Selenium	0.05	0.05	.004 U	.004 U	0.004 UJ	0.004 UJ
Silver	-	-	.01 U	.01 U	0.01 U	0.01 U
Sodium	-	-	6.8	6.9	6.5	8.1
Thallium	0.002	0.002	.005 U	.005 U	0.005 U	0.005 U
Vanadium	-	-	.01 U	.01 U	0.01 U	0.01
Zinc	-	-	.01 U	.02	0.01	0.07 J

PARAMETER	MCL	RIDEM GA	12/17/96	3/24/97
TPH	-	-	1 U	1 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

APPENDIX B-9

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

EXTRACTION WELL EW-7

Historical Analytical Results
EW-7
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	GA	12/19/96	3/25/97	Dup 3/97	8/14/97
Acetone	-	-	10 U	10 U	10 U	10 UR
Benzene	5	5	5 U	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	5 U	5 U	NA
Bromodichloromethane	100	-	5 U	5 U	5 U	5 U
Bromoform	100	-	5 U	5 U	5 U	5 U
Bromomethane	-	-	10 U	10 U	10 U	5 U
Butanone(2-)	-	-	10 U	10 U	10 U	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U	5 U
Chloroethane	-	-	10 U	10 U	10 U	5 U
Chloroform	100	-	5 U	5 U	5 U	5 U
Chloromethane	-	-	10 U	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	5 U	5 U	NA
Dibromochloromethane	-	-	5 U	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	5 U	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	5 U	5 U	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U	5 U
Dichloropropene(trans-1,3)	-	-	5 U	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 U	10 U	10 U
Methylene Chloride	-	-	5 U	5 U	5 U	9 U
Styrene	100	100	5 U	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U	5 U
Trichloroethene	5	5	5 U	5 U	5 U	2 J
Vinyl Chloride	2	2	10 U	10 U	10 U	2 U
Vinylacetate	-	-	10 U	10 U	10 U	NA

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
EW-7
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	Dup 3/97	8/14/97
1,2,4-Trichlorobenzene	70	70	10 U	10 UJ	10 UJ	5 U
1,2-Dichlorobenzene	600	600	10 U	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	10 U	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	10 U	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	50 U	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	10 U	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	10 U	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	50 U	50 U	50 U	10 U
2,4-Dinitrotoluene	--	--	10 U	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	10 U	10 U	10 U	5 U
2-Chloronaphthalene	--	--	10 U	10 UJ	10 UJ	5 U
2-Chlorophenol	--	--	10 U	10 U	10 U	5 U
2-Methylnaphthalene	--	--	10 U	10 U	10 U	5 U
2-Methylphenol	--	--	10 U	10 U	10 U	5 U
2-Nitroaniline	--	--	50 U	50 U	50 U	10 U
2-Nitrophenol	--	--	10 U	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	20 U	20 U	5 U
3-Methylphenol	--	--	10 UJ	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	50 U	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	10 U	5 U
4-Chloroaniline	--	--	10 U	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	10 U	5 U
4-Methylphenol	--	--	10 UJ	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	50 U	50 U	50 U	10 U
4-Nitrophenol	--	--	50 U	50 U	50 U	10 U
Acenaphthene	--	--	10 U	10 U	10 U	5 U
Acenaphthylene	--	--	10 U	10 U	10 U	5 U
Anthracene	--	--	10 U	10 U	10 U	5 U
Benzo(a)anthracene	--	--	10 U	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	10 U	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	10 U	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	10 U	10 U	5 U
Butylbenzylphthalate	--	--	10 U	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
EW-7
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	Dup 3/97	8/14/97
Carbazole	--	--	20R R	20 UJ	20 UJ	5 U
Chrysene	--	--	10 U	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	10 U	10 U	10 U	5 U
Di-n-octylphthalate	--	--	10 U	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	10 U	5 U
Dibenzofuran	--	--	10 U	10 U	10 U	5 U
Diethylphthalate	--	--	10 U	10 U	10 U	5 U
Dimethylphthalate	--	--	10 U	10 U	10 U	5 U
Fluoranthene	--	--	10 U	10 U	10 U	5 U
Fluorene	--	--	10 U	10 U	10 U	5 U
Hexachlorobenzene	1	1	10 U	10 U	10 U	5 U
Hexachlorobutadiene	--	--	10 U	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	10 U	5 U
Hexachloroethane	--	--	10 U	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	10 U	5 U
Isophorone	--	--	10 U	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	10 U	5 U
Naphthalene	--	20	10 U	10 U	10 U	5 U
Nitrobenzene	--	--	10 U	10 U	10 U	5 U
Pentachlorophenol	1	1	50 U	50 U	50 U	10 U
Phenanthrene	--	--	10 U	10 U	10 U	5 U
Phenol	--	--	10 U	10 U	10 U	5 U
Pyrene	--	--	10 U	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
EW-7
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	Dup 3/97	8/14/97
4,4'-DDD	--	--	.1 U	.1 U	.1 U	0.05 U
4,4'-DDE	--	--	.1 U	.1 U	.1 U	0.05 U
4,4'-DDT	--	--	.1 U	.1 U	.1 U	0.05 U
Aldrin	--	--	.05 U	.05 U	.05 U	0.025 U
alpha-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
alpha-Chlordane	2	2	.05 U	.05 U	.05 U	0.025 U
beta-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
delta-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
Dieldrin	--	--	.1 U	.1 U	.1 U	0.05 U
Endosulfan I	--	--	.05 UJ	.05 U	.05 U	0.025 U
Endosulfan II	--	--	.1 U	.1 U	.1 U	0.05 U
Endosulfan Sulfate	--	--	.1 U	.1 U	.1 U	0.05 U
Endrin	2	--	.1 U	.1 U	.1 U	0.05 U
Endrin Aldehyde	--	--	.01 U	.01 U	.01 U	0.05 U
Endrin Ketone	--	--	.1 U	.1 U	.1 U	0.05 U
gamma-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
gamma-Chlordane	2	2	.05 U	.05 U	.05 U	0.025 U
Heptachlor	0.4	--	.05 U	.05 U	.05 U	0.025 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	.05 U	0.025 U
Methoxychlor	40	--	.5 U	.5 U	.5 U	0.25 U
Toxaphene	3	--	5 U	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	1 U	1 U	0.5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

Historical Analytical Results
EW-7
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/19/96 Total	3/27/97 Total	3/27/97 Dup Total	8/14/97 Total	8/14/97 Filt
ALUMINUM	-	-	0.1 U	0.1 U	0.1 U	1.5	0.0946 U
ANTIMONY	0.006	0.006	0.02 U	0.02 U	0.02 U	0.0309	0.002 U
ARSENIC	0.05	-	0.004 U	0.004 UJ	0.004 UJ	0.0953	0.0032 U
BARIUM	2	2	0.01 U	0.01 U	0.01 U	0.0309 U	0.0077 U
BERYLLIUM	0.004	0.004	0.01 U	0.01 U	0.01 U	0.00046 U	0.00078 U
CADMIUM	0.005	0.005	0.01 U	0.01 U	0.01 U	0.0005 U	0.0005 U
CALCIUM	-	-	19	16	16	17	15.8
CHROMIUM	0.1	0.1	0.02 U	0.09	0.09	3.76	0.0065 UJ
COBALT	-	-	0.02 U	0.02 U	0.02 U	0.0211 U	0.0158 U
COPPER	1.3	-	0.02 U	0.02 U	0.02 U	0.139 J	0.0038 UJ
IRON	-	-	0.23	0.98	1.1	48.200 J	1.450 J
LEAD	0.015	0.015	0.005 U	0.005 U	0.005 U	0.0055 U	0.0013 U
MAGNESIUM	-	-	19	17	17	17.6	16
MANGANESE	-	-	0.01 U	0.04	0.04	0.424	0.355
MERCURY	0.002	0.002	0.0002 U	0.0002 U	0.0002 U	0.00019	0.00013 U
NICKEL	0.14	0.1	0.04 U	0.09 J	0.09 J	0.210 J	0.116 J
POTASSIUM	-	-	2	2	2	1.9	1.37
SELENIUM	0.05	0.05	0.004 U	0.004 UJ	0.004 UJ	0.0034 U	0.0034 U
SILVER	-	-	0.01 U	0.01 U	0.01 U	0.0233 J	0.0011 UJ
SODIUM	-	-	95	47	49	23.6	23.4
THALLIUM	0.002	0.002	0.005 U	0.005 U	0.005 U	0.0058	0.002 U
VANADIUM	-	-	0.01 U	0.01 U	0.01 U	0.0053 U	0.0053 U
ZINC	-	-	0.07	0.12	0.11	0.272	0.242

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	3/25/97 Dup	8/14/97
TPH	-	-	1 U	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation

APPENDIX B-10

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

EXTRACTION WELL EW-13

Historical Analytical Results
EW-13
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	Dup 12/96	3/25/97	8/14/97
Acetone	-	-	10 U	10 U	10 U	10 UR
Benzene	5	5	5 U	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	5 U	5 U	NA
Bromodichloromethane	100	-	5 U	5 U	5 U	5 U
Bromoform	100	-	5 U	5 U	5 U	5 U
Bromomethane	-	-	10 U	10 U	10 U	5 U
Butanone(2-)	-	-	10 U	10 U	10 U	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U	5 U
Chloroethane	-	-	10 U	10 U	10 U	5 U
Chloroform	100	-	5 U	5 U	5 U	5 U
Chloromethane	-	-	10 U	10 U	10 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	5 U	5 U	NA
Dibromochloromethane	-	-	5 U	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	5 U	5 U	NA
Dichloroethane(1,1-)	-	-	8	7	6	6
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	8	8	7	7
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	5 U	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 U	10 U	10 U
Methylene Chloride	-	-	5 U	5 U	5 U	10 U
Styrene	100	100	5 U	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	5 U	5 U	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U	5 U
Trichloroethene	5	5	5 UJ	5 J	5 U	5
Vinyl Chloride	2	2	10 U	10 U	10 U	2 U
Vinylacetate	-	-	10 U	10 U	10 U	NA

D.L. above the cleanup level
ROD

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
EW-13
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	8/14/97
1,2,4-Trichlorobenzene	70	70	10 U	10 UJ	5 U
1,2-Dichlorobenzene	600	600	10 U	10 U	5 U
1,3-Dichlorobenzene	--	600	10 U	10 U	5 U
1,4-Dichlorobenzene	75	75	10 U	10 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	NA	5 U
2,4,5-Trichlorophenol	--	--	50 U	50 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	10 U	5 U
2,4-Dichlorophenol	--	--	10 U	10 U	5 U
2,4-Dimethylphenol	--	--	10 U	10 U	5 U
2,4-Dinitrophenol	--	--	50 U	50 U	10 U
2,4-Dinitrotoluene	--	--	10 U	10 U	5 U
2,6-Dinitrotoluene	--	--	10 U	10 U	5 U
2-Chloronaphthalene	--	--	10 U	10 UJ	5 U
2-Chlorophenol	--	--	10 U	10 U	5 U
2-Methylnaphthalene	--	--	10 U	10 U	5 U
2-Methylphenol	--	--	10 U	10 U	5 U
2-Nitroaniline	--	--	50 U	50 U	10 U
2-Nitrophenol	--	--	10 U	10 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	20 U	5 U
3-Methylphenol	--	--	10 UJ	10 UJ	NA
3-Nitroaniline	--	--	50 U	50 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	50 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	10 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	10 U	5 U
4-Chloroaniline	--	--	10 U	10 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	10 U	5 U
4-Methylphenol	--	--	10 UJ	10 UJ	5 U
4-Nitroaniline	--	--	50 U	50 U	10 U
4-Nitrophenol	--	--	50 U	50 U	10 U
Acenaphthene	--	--	10 U	10 U	5 U
Acenaphthylene	--	--	10 U	10 U	5 U
Anthracene	--	--	10 U	10 U	5 U
Benzo(a)anthracene	--	--	10 U	10 U	5 U
Benzo(a)pyrene	2	0.2	10 U	10 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	10 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	10 U	5 U
Benzo(k)fluoranthene	--	--	10 U	10 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	10 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	10 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	10 U	5 U
Butylbenzylphthalate	--	--	10 U	10 U	5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
EW-13
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	8/14/97
Carbazole	--	--	20 R	20 UJ	5 U
Chrysene	--	--	10 U	10 U	5 U
Di-N-Butylphthalate	--	--	10 U	10 U	5 U
Di-n-octylphthalate	--	--	10 U	10 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	10 U	5 U
Dibenzofuran	--	--	10 U	10 U	5 U
Diethylphthalate	--	--	10 U	10 U	5 U
Dimethylphthalate	--	--	10 U	10 U	5 U
Fluoranthene	--	--	10 U	10 U	5 U
Fluorene	--	--	10 U	10 U	5 U
Hexachlorobenzene	1	1	10 U	10 U	5 U
Hexachlorobutadiene	--	--	10 U	10 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	10 U	5 U
Hexachloroethane	--	--	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	10 U	5 U
Isophorone	--	--	10 U	10 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	10 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	10 U	5 U
Naphthalene	--	20	10 U	10 U	5 U
Nitrobenzene	--	--	10 U	10 U	5 U
Pentachlorophenol	1	1	50 U	50 U	10 U
Phenanthrene	--	--	10 U	10 U	5 U
Phenol	--	--	10 U	10 U	5 U
Pyrene	--	--	10 U	10 U	5 U

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Historical Analytical Results
EW-13
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	12/19/96	Dup 12/96	3/25/97	8/14/97
4,4'-DDD	--	--	.1 U	.1 U	.1 U	0.05 U
4,4'-DDE	--	--	.1 U	.1 U	.1 U	0.05 U
4,4'-DDT	--	--	.1 U	.1 U	.1 U	0.05 U
Aldrin	--	--	.05 U	.05 U	.05 U	0.025 U
alpha-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
alpha-Chlordane	2	2	.05 U	.05 U	.05 U	0.025 U
beta-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
delta-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
Dieldrin	--	--	.1 U	.1 U	.1 U	0.05 U
Endosulfan I	--	--	.05 UJ	.05 UJ	.05 U	0.025 U
Endosulfan II	--	--	.1 U	.1 U	.1 U	0.05 U
Endosulfan Sulfate	--	--	.1 U	.1 U	.1 U	0.05 U
Endrin	2	--	.1 U	.1 U	.1 U	0.05 U
Endrin Aldehyde	--	--	.01 U	.01 U	.01 U	0.05 U
Endrin Ketone	--	--	.1 U	.1 U	.1 U	0.05 U
gamma-BHC	--	--	.05 U	.05 U	.05 U	0.025 U
gamma-Chlordane	2	2	.05 U	.05 U	.05 U	0.025 U
Heptachlor	0.4	--	.05 U	.05 U	.05 U	0.025 U
Heptachlor Epoxide	0.2	--	.05 U	.05 U	.05 U	0.025 U
Methoxychlor	40	--	.5 U	.5 U	.5 U	0.25 U
Toxaphene	3	--	5 U	5 U	5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	2 U	2 U	1 U
Aroclor-1232	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	1 U	1 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	1 U	1 U	0.5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
EW-13
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	12/19/96	12/96 Dup	3/25/97	8/14/97
			Total	Total	Total	Total
ALUMINUM	-	-	0.1 U	0.1 U	0.1 U	0.0842 U
ANTIMONY	0.006	0.006	0.02 U	0.02 U	0.02 U	0.002 U
ARSENIC	0.05	-	0.004 U	0.004 U	0.012	0.0124
BARIUM	2	2	0.01 U	0.01 U	0.02	0.0241 U
BERYLLIUM	0.004	0.004	0.01 U	0.01 U	0.01 U	0.00039 U
CADMIUM	0.005	0.005	0.01 U	0.01 U	0.01 U	0.00005 U
CALCIUM	-	-	40	41	38	43.2
CHROMIUM	0.1	0.1	0.02 U	0.02 U	0.02 U	0.0065 UJ
COBALT	-	-	0.02 U	0.02 U	0.02 U	0.0191 U
COPPER	1.3	-	0.02 U	0.02 U	0.02 U	0.0038 UJ
IRON	-	-	8.4	8.6	10	15.1 J
LEAD	0.015	0.015	0.005 U	0.005 U	0.005 U	0.0016 U
MAGNESIUM	-	-	30	31	30	31.7
MANGANESE	-	-	1.1	1.2	1	1.11
MERCURY	0.002	0.002	0.0002 U	0.0002 U	0.0002 U	0.00013 U
NICKEL	0.14	0.1	0.04 U	0.04 U	0.04 U	0.0212 J
POTASSIUM	-	-	2	2	2	2.69
SELENIUM	0.05	0.05	0.004 U	0.004 U	0.004 UJ	0.0034 U
SILVER	-	-	0.01 U	0.01 U	0.01 U	0.0032 U
SODIUM	-	-	21	22	26	24.8
THALLIUM	0.002	0.002	0.005 U	0.005 U	0.005 U	0.002 U
VANADIUM	-	-	0.01 U	0.01 U	0.01 U	0.0084 J
ZINC	-	-	0.03	0.02	0.02	0.0217 U

PARAMETER	MCL	RIDEM GA	12/19/96	3/25/97	8/14/97
TPH	-	-	1 U	1 U	1 U

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**=Concentration changed according to data validation

APPENDIX B-11

SUMMARY TABLES FOR HISTORICAL ANALYTICAL RESULTS

MONITORING WELL MW-701

Historical Analytical Results
MW-701
Tank 53 - Tank Farm 5
NETC Newport
Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	3/25/97	8/13/97	8/13/1997 Dup
Acetone	-	-	10 U	10 UR	10 UR
Benzene	5	5	5 U	5 U	5 U
Bromochloromethane	-	-	5 U	NA	NA
Bromodichloromethane	100	-	5 U	5 U	5 U
Bromoform	100	-	5 U	5 UJ	5 U
Bromomethane	-	-	10 U	5 U	5 U
Butanone(2-)	-	-	10 U	10 UR	10 UR
Carbon Disulfide	-	-	5 U	5 U	5 U
Carbon Tetrachloride	5	5	5 U	5 U	5 U
Chlorobenzene	-	100	5 U	5 U	5 U
Chloroethane	-	-	10 U	5 U	5 U
Chloroform	100	-	5 U	5 U	5 U
Chloromethane	-	-	10 U	5 U	5 U
Dibromo-3-chloropropane(1,2-)	0.2	0.2	5 U	NA	NA
Dibromochloromethane	-	-	5 U	5 U	5 U
Dibromoethane(1,2-)	-	-	5 U	NA	NA
Dichloroethane(1,1-)	-	-	5 U	5 U	5 U
Dichloroethane(1,2-)	5	5	5 U	5 U	5 U
Dichloroethene(1,1-)	7	7	5 U	5 U	5 U
Dichloroethene(1-2-) (Total)	-	-	NA	NA	NA
Dichloroethene(cis-1,2-)	70	70	5 U	5 U	5 U
Dichloroethene(trans-1,2-)	100	100	5 U	5 U	5 U
Dichloropropane(1,2-)	5	5	5 U	5 U	5 U
Dichloropropene(cis-1,3-)	-	-	5 U	5 U	5 U
Dichloropropene(trans-1,3-)	-	-	5 U	5 U	5 U
Ethylbenzene	700	700	5 U	5 U	5 U
Hexanone(2-)	-	-	10 U	10 U	10 U
Methyl-2-pentanone(4-)	-	-	10 U	10 UJ	10 U
Methylene Chloride	-	-	5 U	10 U	9 U
Styrene	100	100	5 U	5 U	5 U
Tetrachloroethane(1,1,2,2-)	-	-	5 U	5 U	5 U
Tetrachloroethene	5	5	5 U	5 U	5 U
Toluene	1000	1000	5 U	5 U	5 U
Total Xylenes	10,000	10,000	5 U	1 J	5 U
Trichloroethane(1,1,1-)	200	200	5 U	5 U	5 U
Trichloroethane(1,1,2-)	5	5	5 U	5 U	5 U
Trichloroethene	5	5	5 U	5 U	5 U
Vinyl Chloride	2	2	10 U	2 U	2 U
Vinylacetate	-	-	10 U	NA	NA

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-701
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	3/25/97	8/13/97	8/13/1997 Dup
1,2,4-Trichlorobenzene	70	70	10 U	5 U	5 U
1,2-Dichlorobenzene	600	600	10 U	5 U	5 U
1,3-Dichlorobenzene	--	600	10 U	5 U	5 U
1,4-Dichlorobenzene	75	75	10 U	5 U	5 U
2,2'-Oxybis(1-chloropropane)	--	--	NA	5 U	5 U
2,4,5-Trichlorophenol	--	--	50 U	10 U	10 U
2,4,6-Trichlorophenol	--	--	10 U	5 U	5 U
2,4-Dichlorophenol	--	--	10 U	5 U	5 U
2,4-Dimethylphenol	--	--	10 U	5 U	5 U
2,4-Dinitrophenol	--	--	50 U	10 U	10 U
2,4-Dinitrotoluene	--	--	10 U	5 U	5 U
2,6-Dinitrotoluene	--	--	10 U	5 U	5 U
2-Chloronaphthalene	--	--	10 U	5 U	5 U
2-Chlorophenol	--	--	10 U	5 U	5 U
2-Methylnaphthalene	--	--	10 U	5 U	5 U
2-Methylphenol	--	--	10 U	5 U	5 U
2-Nitroaniline	--	--	50 U	10 U	10 U
2-Nitrophenol	--	--	10 U	5 U	5 U
3,3-Dichlorobenzidine	--	--	20 U	5 U	5 U
3-Methylphenol	--	--	10 UJ	NA	NA
3-Nitroaniline	--	--	50 U	10 U	10 U
4,6-Dinitro-2-methylphenol	--	--	50 U	10 U	10 U
4-Bromophenyl-phenylether	--	--	10 U	5 U	5 U
4-Chloro-3-methyphenol	--	--	10 U	5 U	5 U
4-Chloroaniline	--	--	10 U	5 U	5 U
4-Chlorophenyl-phenyl ether	--	--	10 U	5 U	5 U
4-Methylphenol	--	--	10 UJ	5 U	5 U
4-Nitroaniline	--	--	50 U	10 U	10 U
4-Nitrophenol	--	--	50 U	10 U	10 U
Acenaphthene	--	--	10 U	5 U	5 U
Acenaphthylene	--	--	10 U	5 U	5 U
Anthracene	--	--	10 U	5 U	5 U
Benzo(a)anthracene	--	--	10 U	5 U	5 U
Benzo(a)pyrene	2	0.2	10 U	0.05 U	0.05 U
Benzo(b)fluoranthene	--	--	10 U	5 U	5 U
Benzo(g,h,i)Perylene	--	--	10 U	5 U	5 U
Benzo(k)fluoranthene	--	--	10 U	5 U	5 U
Bis(2-Chloroethoxy)Methane	--	--	10 U	5 U	5 U
Bis(2-Chloroethyl)ether	--	--	10 U	5 U	5 U
bis(2-Chloroisopropyl)ether	--	--	10 U	NA	NA
bis(2-Ethylhexyl)phthalate	--	--	10 U	2 J	5 U
Butylbenzylphthalate	--	--	10 U	5 U	5 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation.
**=Concentration changed according to data validation

Historical Analytical Results
MW-701
Tank 53 - Tank Farm 5
NETC Newport
Semi-Volatile Organic Compounds (ug/l)

PARAMETER	MCL	RIDEM GA	3/25/97	8/13/97	8/13/1997 Dup
Carbazole	--	--	20 U	5 U	5 U
Chrysene	--	--	10 U	5 U	5 U
Di-N-Butylphthalate	--	--	10 U	5 U	5 U
Di-n-octylphthalate	--	--	10 U	5 U	5 U
Dibenzo(a,h)Anthracene	--	--	10 U	5 U	5 U
Dibenzofuran	--	--	10 U	5 U	5 U
Diethylphthalate	--	--	10 U	5 U	5 U
Dimethylphthalate	--	--	10 U	5 U	5 U
Fluoranthene	--	--	10 U	5 U	5 U
Fluorene	--	--	10 U	5 U	5 U
Hexachlorobenzene	1	1	10 U	5 U	5 U
Hexachlorobutadiene	--	--	10 U	5 U	5 U
Hexachlorocyclopentadiene	50	--	10 U	5 U	5 U
Hexachloroethane	--	--	10 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	--	--	10 U	5 U	5 U
Isophorone	--	--	10 U	5 U	5 U
N-Nitroso-di-n-propylamine	--	--	10 U	5 U	5 U
N-Nitrosodiphenylamine	--	--	10 U	5 U	5 U
Naphthalene	--	20	10 U	5 U	5 U
Nitrobenzene	--	--	10 U	5 U	5 U
Pentachlorophenol	1	1	50 U	10 U	10 U
Phenanthrene	--	--	10 U	5 U	5 U
Phenol	--	--	10 U	5 U	5 U
Pyrene	--	--	10 U	5 U	5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-701
Tank 53 - Tank Farm 5
NETC Newport
Pesticides/PCBs (ug/l)

PARAMETER	MCL	RIDEM GA	3/24/97	8/13/97	8/13/1997 Dup
4,4'-DDD	--	--	0.1 U	0.05 U	0.05 U
4,4'-DDE	--	--	0.1 U	0.05 U	0.05 U
4,4'-DDT	--	--	0.1 U	0.05 U	0.05 U
Aldrin	--	--	0.05 U	0.025 U	0.025 U
alpha-BHC	--	--	0.05 U	0.025 U	0.025 U
alpha-Chlordane	2	2	0.05 U	0.025 U	0.025 U
beta-BHC	--	--	0.05 U	0.025 U	0.025 U
delta-BHC	--	--	0.05 U	0.025 U	0.025 U
Dieldrin	--	--	0.1 U	0.05 U	0.05 U
Endosulfan I	--	--	0.05 U	0.025 U	0.025 U
Endosulfan II	--	--	0.1 U	0.05 U	0.05 U
Endosulfan Sulfate	--	--	0.1 U	0.05 U	0.05 U
Endrin	2	--	0.1 U	0.05 U	0.05 U
Endrin Aldehyde	--	--	0.01 U	0.05 U	0.05 U
Endrin Ketone	--	--	0.1 U	0.05 U	0.05 U
gamma-BHC	--	--	0.05 U	0.025 U	0.025 U
gamma-Chlordane	2	2	0.05 U	0.025 U	0.025 U
Heptachlor	0.4	--	0.05 U	0.025 U	0.025 U
Heptachlor Epoxide	0.2	--	0.05 U	0.025 U	0.025 U
Methoxychlor	40	--	.5 U	0.25 U	0.25 U
Toxaphene	3	--	5 U	2.5 U	2.5 U
Aroclor-1016	0.5	0.5	1 U	0.5 U	0.5 U
Aroclor-1221	0.5	0.5	2 U	1 U	1 U
Aroclor-1232	0.5	0.5	1 U	0.5 U	0.5 U
Aroclor-1242	0.5	0.5	1 U	0.5 U	0.5 U
Aroclor-1248	0.5	0.5	1 U	0.5 U	0.5 U
Aroclor-1254	0.5	0.5	1 U	0.5 U	0.5 U
Aroclor-1260	0.5	0.5	1 U	0.5 U	0.5 U

NA=Not Analyzed
ND=Not Detected
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**=Concentration changed according to data validation

Historical Analytical Results
MW-701
Tank 53 - Tank Farm 5
NETC Newport
Metals/TPH (mg/l)

PARAMETER	MCL	RIDEM GA	3/24/97 Filt	3/24/97	8/13/97 Total	8/13/97 Total Dup
ALUMINUM	-	-	0.1 U	3.1 J	0.331 U	0.215 U
ANTIMONY	0.006	0.006	0.02 U	0.02 U	0.002 U	0.002 U
ARSENIC	0.05	-	0.004 UJ	0.006 J	0.0032 U	0.0032 U
BARIUM	2	2	0.03	0.08 J	0.0363 U	0.0372 U
BERYLLIUM	0.004	0.004	0.01 U	0.01 U	0.0016 U	0.0012 U
CADMIUM	0.005	0.005	0.01 U	0.01 U	0.0005 U	0.0005 U
CALCIUM	-	-	50	49	57.1	57.2
CHROMIUM	0.1	0.1	0.02 U	0.02 U	0.0065 UJ	0.0065 UJ
COBALT	-	-	0.02 U	0.02 U	0.010 U	0.0108 U
COPPER	1.3	-	0.02 U	0.02 U	0.0038 UJ	0.0038 UJ
IRON	-	-	0.61 J	7.7 J	0.532 J	0.370 J
LEAD	0.015	0.015	0.005 U	0.005 U	0.0017 U	0.0025 U
MAGNESIUM	-	-	14	16	26.7	28
MANGANESE	-	-	3.1 J	2.2	2.13	2.25
MERCURY	0.002	0.002	0.0002 U	0.0002 U	0.00013 U	0.00013 U
NICKEL	0.14	0.1	0.04 U	0.04 U	0.0079 UJ	0.0079 UJ
POTASSIUM	-	-	2	3	3.35	3.64
SELENIUM	0.05	0.05	0.004 UJ	0.004 UJ	0.0034 U	0.0034 U
SILVER	-	-	0.01 U	0.01 U	0.0399 J	0.0041 U
SODIUM	-	-	13	16	20.5	21.6
THALLIUM	0.002	0.002	0.005 U	0.005 U	0.002 U	0.002 U
VANADIUM	-	-	0.01 U	0.01 U	0.0058 J	0.0053 U
ZINC	-	-	0.01 U	0.02 J	0.0067 U	0.0099 U

PARAMETER	MCL	RIDEM GA	3/24/97	8/13/97	8/13/1997 Dup
TPH	-	-	1 U	1 U	1 U

NA=Not Analyzed
ND=Not Detected
*=Qualifier changed according to data validation
**=Concentration changed according to data validation