URS

November 8, 2006 PN: 39742396

Mr. John Liptak
New Hampshire Department of Environmental Services
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03302-0095

Re: Site Specific Environmental Study Report
Exeter Sportsman Club
Portsmouth Avenue
Exeter, New Hampshire
DES #200212050

Dear Mr. Liptak:

URS Corporation (URS) presents this *Site Specific Environmental Study Report* prepared for the Exeter Sportsman Club, located off of Portsmouth Avenue in Exeter, New Hampshire. The 51-acre parcel, which is currently where the Exeter Sportsman Club operates, was the subject of an evaluation for a water treatment plant design concept followed up by a Phase II Lead Shot Evaluation Report prepared by CDM in December 2003 that focused investigations on the 51-acre parcel owned by the Town of Exeter. The *Site Specific Environmental Study Report* prepared by URS expands on prior investigations on the 51-acre parcel and onto the adjoining private property located at Tax Map 66 Lot 2 (33.39 acres). This report incorporates relevant data from these previous and recent investigations.

If you have any questions or require additional information, please contact myself or Gary Garfield at 603-893-0616.

Sincerely,
URS Corporation

Amy L. Pollock

Amy L. Pollock
Project Manager

G M Garfield

Gary M. Garfield, P.E.
Principal

Enclosure

Karyn Cullen

Digitally signed by Karyn Cullen
DN: CN = Karyn Cullen, C = US, O = URS Corporation
Reason: I agree to the terms defined by the placement of my signature on this document
Date: 2006.11.08 14:48:20 -05'00'

URS Corporation
5 Industrial Way
Salem, NH 03079-2830
Tel: 603.893.0616
Fax: 603.893.6240

November 8, 2006 PN: 39742396

Mr. Ken Berkenbush
Exeter Health Department
20 Court Street
Exeter, New Hampshire 03833

Re: Site Specific Environmental Study Report
Exeter Sportsman Club
Portsmouth Avenue
Exeter, New Hampshire
DES #200212050

Dear Mr. Berkenbush:

URS Corporation (URS) presents for your review, the attached *Site Specific Environmental Study Report* for the Exeter Sportsman Club located off of Portsmouth Avenue in Exeter, New Hampshire. The 51-acre parcel, which is currently where the Exeter Sportsman Club operates, was the subject of an evaluation for a water treatment plant design concept followed up by a Phase II Lead Shot Evaluation Report prepared by CDM in December 2003 that focused investigations on the 51-acre parcel owned by the Town of Exeter. The *Site Specific Environmental Study Report* prepared by URS expands on prior investigations on the 51-acre parcel and onto the adjoining private property located at Tax Map 66 Lot 2 (33.39 acres). This report incorporates relevant data from these previous and recent investigations.

We look forward to providing additional services and working with the Town of Exeter on this important project. If you have any questions or require additional information, please contact myself or Gary Garfield at 603-893-0616.

Sincerely,
URS Corporation

Amy L. Pollock
Project Manager

Gary M. Garfield, P.E.
Principal

Enclosure

URS Corporation
5 Industrial Way
Salem, NH 03079-2830
Tel: 603.893.0616
Fax: 603.893.6240

Prepared for:

Mr. Ken Berkenbush
Health Department
Town of Exeter
20 Court Street
Exeter, New Hampshire 03833

Prepared by:

URS Corporation
5 Industrial Way
Salem. New Hampshire 03079

November 8, 2006
PN: 39742396

SITE SPECIFIC ENVIRONMENTAL STUDY REPORT
EXETER SPORTSMAN CLUB
EXETER, NEW HAMPSHIRE
NHDES #200212050

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1.0 INTRODUCTION

URS Corporation (URS) was retained by the Town of Exeter to conduct a Site Specific Environmental Study at the Exeter Sportsman Club (ESC) located in Exeter, New Hampshire. The ESC is located off of Portsmouth Avenue on Tax Map 65 Lot 123 (51 acres) and the adjoining private property is located at Tax Map 66 Lot 2 (33.39 acres). A United States Geological Survey 7.5 minute map depicting the site and surrounding area is presented as Figure 1. The Site is designated by the New Hampshire Department of Environmental Services (NHDES) as Site #200212050.

The purpose of this project is to assess the horizontal and vertical extent of spent munitions in the surficial soils and sediments and to evaluate risks to human health, wildlife, and the environment. In preparing this report, URS has relied on data presented by CDM in their prior work for the Town.

The study focused significantly on the surface and subsurface soils at the adjoining private property where data had not previously been collected by CDM. The Study also focused on further evaluating sediment, groundwater, and surface water in the area of CDM's previous investigations. This report describes the scope, methods, and results of the Study.

2.0 BACKGROUND

The site setting, site history and previous site investigations completed by CDM are described in this section.

2.1 SITE SETTING

The ESC Site comprises approximately 11 acres of the 51 acres located at the Tax Map 65 Lot 123 parcel and is currently used as small bore a firing range and sportsman club. Access to the site is gained through a gravel roadway off Portsmouth Avenue that parallels the Exeter Reservoir in Exeter, New Hampshire. The ESC operates out of a single story building constructed of wood located on the southern side of the Site. A wooden structure is located at the small bore range to provide shelter. The Site is wooded with the exception of the small bore and trap ranges. Currently, the trap range is not being utilized as reported by the ESC. An intermittent stream is located to the east that discharges into the Exeter Reservoir. The Exeter Reservoir and water treatment plant border the Site to the south and an OSRAM Sylvania facility borders the Site to the north. The Site is relatively level, with a gentle slope from west to east. The existing features are shown on Figure 2.

2.2 SITE HISTORY

The Site has been used by the Exeter Sportsman Club (ESC) as a trap and small bore range since 1956. From 1952 to 1956 the adjacent property, now occupied by OSRAM Sylvania, was used as the trap and small bore range for the ESC. Prior to 1952 the ESC was operating at an entirely different location. The existing trap and small bore ranges have been in the current configuration since 1974. Prior to 1974 the configuration is not know, although previous reports by CDM suggest the trap range may have been perpendicular to the current configuration. An attempt was made during the previous investigation by CDM to verify this information, but it could not be

determined. Lead shot was used at the trap range until 1986, when the ESC began using bismuth, steel, and copper. Lead bullets were used at the small bore range until 2003. Previous reports state that the ESC recycled bullets from the small bore range berm and the last such recycling event took place in 1995. Currently, only the small bore range is in use at the time of this investigation.

2.3 PREVIOUS INVESTIGATIONS OF SITE

2.3.1 CDM Phase I Site Investigation – May 2003

A Phase I Site Investigation of the Site was completed by CDM during August 2002. Details of the Phase I were presented in a report as an Appendix in the *Phase 2 Water Treatment Plant Preliminary Design Report* dated May 2003. The Phase I field program included the soil sampling and analysis from the existing trap range, the small bore range soil berm, and soil in the proposed footprint of the wastewater treatment plant. Sediment samples were also colleted as part of the investigation. The sediment samples were taken from the wetlands located to the east of the Site. The report also included results of surface water sampling conducted by the Town of Exeter in September 2002.

The soil sampling program was conducted in an effort to determine the approximate horizontal and vertical extent of lead in soils at the site. Fourteen sampling locations were sampled in the area of the existing trap range. Thirty eight samples were collected from these 14 locations at depths of 0-3 inches, 3-9 inches, 9-15 inches and at one location from 15-27 inches. Three samples were collected from the small bore range soil berm, and ten samples were collected from five locations in the area of the proposed water treatment plant. Two samples were collected from the downgradient wetland associated with the Exeter Reservoir.

Results of the soil sampling from the existing trap range indicate levels of lead in the 0-3 inch horizon ranging from 15 mg/kg to 280,000 mg/kg. Half of the samples analyzed at this horizon

showed levels in excess of the New Hampshire Department of Environmental Services (NHDES) Method 1 Standard of 400 mg/kg. Two of these samples were also analyzed by Toxicity Characteristic Leaching Procedure (TCLP) with one of the samples having a result of 460 mg/l which exceeds the 5 mg/l regulatory level. Lead concentrations from the 3-9 inch horizon ranged from 5.6 mg/kg to 260,000 mg/kg. Only one sample from 3-9 inches was found to have lead levels that exceeded the Method 1 standard. Lead concentrations from 9-15 inches ranged from below laboratory method detection limits to 1,900 mg/kg. An additional sample was collected from the location with 1,900 mg/kg at a depth of 15-27 inches. The sample result from 15-27 inches was below the Method 1 standard.

Results of soil sampling from the five locations in the area of the proposed waste water treatment plant indicate concentrations ranging from 5.9 mg/kg to 110 mg/kg. Samples were collected at 0-3 inches and 3-9 inches below ground surface (bgs) with none of the results exceeding the Method 1 soil standard.

Results of soil sampling from the soil berm indicate concentrations of lead ranging from 61 mg/kg to 1,600 mg/kg. The sample with the highest concentration of lead (1,600 mg/kg) was also analyzed by the TCLP method and was found to have a concentration of 680 mg/l indicating a high degree of leaching potential.

Results of the two samples collected from the wetland had detected lead concentrations of 2,800 mg/kg and 3,300 mg/kg. The sample with 3,300 mg/kg of lead was also analyzed by TCLP. The results indicate a concentration of 3.2 mg/l which is below the regulatory level of 5 mg/l.

In addition to the soil and sediment samples collected and analyzed as part of the Phase I Site Investigation, several surface water samples were collected from the Exeter Reservoir adjacent to the ESC. One sample was collected by the Town of Exeter on three separate days in September

2002. Results of the sample analysis indicated that all samples were below the laboratory method detection limit of 0.005 mg/l.

The conclusion of the Phase I Site Investigation was that additional sampling and analysis would be required before any construction could be undertaken for the proposed water treatment plant.

2.3.2 CDM Lead Shot/Firing Range Assessment – Phase II – December 2003

A Phase II Site Investigation entitled *Lead Shot/Firing Range Assessment* was completed by CDM in December 2003. The purpose of the Phase II assessment was to further delineate lead impacts on the Site. Sampling was conducted in areas of the site identified during the Phase I assessment to likely have lead contamination, as well as, parts of the site that may be developed during the construction of a proposed wastewater treatment plant. The Phase II assessment included surficial soil sampling, excavation of test pits, soil boring and subsequent groundwater monitoring well installation, groundwater sampling and wetlands sampling.

The surficial sampling program was broken down into 5 distinct areas; water treatment plant (WTP) low, WTP high, small bore range berm, trap range, and wetlands. WTP low comprises approximately 5.7 acres in the northern portion of the Site and is the area in the vicinity of the proposed water treatment plant where low levels of lead are expected. WTP high comprises an approximately 0.8 acre portion of the Site adjacent to the trap range . WTP high is the area where higher levels of lead are expected.

Sampling for the WTP Low area included 230 samples from 115 sampling locations laid out in a 50' x 50' grid pattern. Samples were collected from 0-6 inches and 6-12 inches. The results of sample analysis ranged from below laboratory method detection limits to 230 mg/kg. None of the samples analyzed from the WTP low area had results over the Method 1 standard of 400 mg/kg.

Sampling of the WTP High area included 186 samples taken from 62 sampling locations laid out in a 25' x 25' grid pattern. Samples were collected from 0-3 inches, 3-9 inches, and 9-15 inches at each sample location. Results of samples analysis ranged from below detection limits to 160,000 mg/kg. Of the 186 samples collected 39 had lead levels that exceeded the Method 1 standard. 33 of the 39 samples that exceeded the standard were from the 0-3 inch horizon. Eight of the 33 samples that exceeded the Method 1 standard also exceeded the Upper Concentration Limit (UCL) of 4,000 mg/kg. The highest concentrations were found in the southeastern portion of the WTP area along the property line.

Sampling of the existing small bore range berm included seventeen samples from six locations. Samples were collected from 0-3 inches, 3-9 inches, and 9-15 inches at five locations and 0-6 inches and 6-12 inches at the other location. Results of the sample analysis ranged from below detection limits to 2,200 mg/kg in sample TR-EE7.5-0 collected from 0-3 inches. Four samples collected from 0-3 inches contained concentrations greater than the Method 1 standard of 400 mg/kg.

Sampling of the existing small bore trap range included 237 soil samples collected from 80 locations laid out on a 25' by 25' grid. Samples were collected from each location at depths of 0-3 inches, 3-9 inches, and 9-15 inches. Of the samples collected from the 0-3 inch horizon, concentrations ranged from 17 to 330,000 mg/kg with 62 samples having levels in excess of the Method 1 standard of 400 mg/kg. 39 of the 62 samples with levels over the Method 1 standard also exceeded the UCL of 4,000 mg/kg. The highest concentrations were found on the eastern Site boundary. 41 of the 78 samples collected from the 3-9 inch horizon contained levels that exceeded the Method 1 standard. 2 of the 41 samples with concentrations over the Method 1 standard also exceeded the UCL. Concentrations ranged from 4.6 to 150,000 mg/kg for samples collected from the 9-15 inch horizon. 16 of the 80 samples collected from this horizon had lead levels that exceeded the Method 1 standard, and two of these samples also exceeded the UCL.

Surficial soil sampling completed during this investigation did not include any locations on the adjacent private property.

In May 2003, test pits were excavated to determine the existence of a historic trap range. A small patch of pavement was discovered during the Phase I assessment and further investigation was warranted in this area to verify the observations. Following the excavation of the test pits no evidence of a historic trap range could be determined.

In April 2003, five soil borings (MW-1 through MW-5) were advanced throughout the Site and finished as groundwater monitoring wells. MW-1 is located at an upgradient location from the Site; MW-2 is located downgradient in the southwest corner of the Site; MW-3 was installed as a downgradient well between the trap range and the reservoir; MW-4 is located downgradient between the existing trap range and the wetland area; and MW-5 is located directly downgradient of the small bore range berm. Results of samples collected from the soil during drilling operations did not identify any samples with levels exceeding NHDES background concentration for lead of 51 mg/kg.

In May 2003, groundwater samples were collected from the monitoring wells MW-1 through MW-5 and analyzed for total lead. Results of groundwater samples ranged from below detection limits in MW-2 and MW-3 to 0.160 mg/L in the sample collected from MW-1. Samples collected from MW-4 and MW-5 reported concentrations of 0.070 mg/L and 0.075 mg/L, respectively. Results from MW-1, MW-4 and MW-5 all exceeded the NHDES GW-1 standard of 0.015 mg/L.

In August 2003, another round of groundwater samples was collected from the five monitoring wells at the Site. During this sampling round the groundwater samples were collected using low flow purge techniques. Results from groundwater monitoring wells MW-2, MW-3 and MW-4 all had total lead levels below laboratory method detection limits. Samples collected from MW-1

and MW-5 had concentrations of total lead at 0.077 mg/L and 0.075 mg/L, respectively. The concentrations of lead in MW-1 and MW-5 continued to exceed the NHDES GW-1 standard of 0.015 mg/L. This round of groundwater samples was also analyzed for dissolved lead with MW-3 (0.012 mg/L) being the only well with dissolved lead above the detection limits.

In May 2003, CDM collected samples from the wetland area on the site. Twenty samples were collected from the wetland area in the southeastern corner of the property. The concentration of lead in the samples analyzed ranged from 11 mg/kg to 1,100 mg/kg. Eight of the twenty samples collected had levels of lead that are above the Threshold Effects Limit (TEL), which is the level above which adverse effects to benthic organisms can likely occur. Two of the eight samples which had levels above the TEL also had levels above the Upper Effects Threshold, which is the level above which adverse effects to benthic organisms are expected to occur.

The nature and extent of contamination identified in the Phase II report has been separated into the five areas sampled at the site. Contamination of lead in the WTP low area appears to be limited to the top six inches of soil and is present in isolated areas of the portion of the Site. Contamination of lead in the WTP high area is primarily found in the top 3 inches of soil. Four locations with high levels of contamination deeper than 3 inches were found along the southeastern corner of the area near the property boundary. Contamination of the small bore range soil berm includes soil exceeding the Method 1 standard, as well as, one location where the TCLP result exceeds the regulatory limit. Contamination of the trap range exceeded Method 1 standards throughout most of the range and was not limited to the top 3 inches of soil. Higher levels at increasing depths were found mostly on the eastern portion of the area along the property line. Samples from the wetlands also had elevated levels of lead primarily in the vicinity of the trap range.

3.0 INVESTIGATION METHODOLOGY

This section presents the activities and methods used to investigate the Exeter Sportsman Club in August 2006 by URS. The locations of explorations completed during this investigation are shown on Figure 2.

3.1 SOIL INVESTIGATION

On August 30, 2006, URS collected 150 surficial soil samples from 57 locations with depths ranging from 0 to 27 inches below ground surface (bgs) on the adjacent private property. Surficial soil sampling locations are depicted on Figure 2.

Locations were identified to characterize soils beyond the site property boundary that may have been impacted by lead shot fired from the trap range. The locations were selected by using the existing CDM grid, and extending the grid an additional 350 feet to the northeast using a grid spacing of 50 feet from west to east and 50 feet from north to south radiating out from the trap range in the shot fall zone. URS measured and staked out soil sampling locations in August 2006. Initially, soils were screened at each of the locations from 0 to 6 inches and 6 to 9 inches with a portable X-ray fluorescence (XRF) unit. Based on the initial screening, thirty-three locations were also screened at 9 to 15 inches and three locations at 15 to 27 inches using the XRF unit. Screening results with the XRF indicated that soils with lead levels potentially above the NHDES S-1 soil standard extended beyond the stakes marked out by URS in August 2006. Therefore, the grid was extended until soil screening results with the XRF were below 400 mg/kg. The results of the XRF soil screening are summarized in Table 5.

Soil samples for screening were collected from each location by excavating a hole to the desired depth using a stainless steel shovel. Samples were collected from the sidewalls of the excavation

and contained in plastic zip lock bags to be screened. The sampling tools were decontaminated between locations using a dedicated brush to clean of gross debris on tools, and then spraying with a Liquinox solution and finally being rinsed with distilled water.

Based on the results of the soil screening with the XRF unit, eight locations were selected for laboratory analysis. The selected locations included one sample with the highest XRF reading, one from a background location, and the remainder from locations meant to be representative of average readings across the site. These soil samples are identified as O-4 (0-6"), O-8 (9-15"), P-6 (0-6"), Q-9 (0-6"), R-5 (0-6"), S-9 (0-6"), and T-7 (0-6"). In addition, one background soil sample (BKG-1 (0-6")) was collected from a location up gradient from the existing small bore and trap shooting ranges approximately 30 feet north and 10 feet east of the gated entrance on the gravel roadway leading to the ESC. Discrete soil samples were collected from the sidewalls of the excavations in the same manner as the samples collected for soil screening. Samples were placed in the appropriate laboratory provided sample bottles and were sent under proper chain of custody procedures to Alpha Analytical Laboratories (Alpha) in Westborough, Massachusetts for analysis. All of the samples were analyzed for total lead using EPA Method 6010B and Synthetic Precipitation Leaching Procedure (SPLP) method. Also, all samples were analyzed for total organic carbon and pH. Four of the eight samples were submitted with split samples to be sieved through a No. 60 sieve by the laboratory prior to analysis of total lead, SPLP total lead, total organic carbon, and pH. The purpose of sieving the sample prior to analysis is to remove any lead shot that may be in the sample. Generally, the lead in the shot is not bioavailable and therefore analyzing some without the lead shot is recommended per the US EPA OSWER #9285.7-37 document.

3.2 SEDIMENT SAMPLING

On August 31, 2006, URS collected six sediment samples from an intermittent stream located to the east of the trap range to evaluate the bioavailability and toxicity of lead in the sediment. The

sediment sampling locations are depicted on Figure 2 as SED-1 through SED-6. Sediment sample location, SED-6 was collected from a location up gradient from the existing small bore and trap shooting ranges to provide background results.

The samples were collected using a Wild-Co sediment sampler with a 20" long by 2" inside diameter core barrel. Samples were collected in clear, single-use poly vinyl chloride liners. Sediment sample recovery was 16 inches or less at all locations. At each sediment location a total of two liners (i.e. SED-1 and SED-1A) were pushed at the same depths in order to collect enough volume for the laboratory analyses. The sediment was extruded from the core liners and screened with the portable XRF unit at 4 inch intervals. The results of the XRF sediment screening are summarized in Table 6.

Sediment samples submitted for laboratory analysis were collected from the 0-4 inch interval of the core samples for SED-3 and SED-4. All other sediment samples were collected from the 0-8 inch interval of the core samples in order to have enough volume for the laboratory analyses. Samples were sent under proper chain of custody procedures to Alpha in Raynham, Massachusetts for analysis. All of the samples were analyzed for total lead using EPA Method 6020A, acid volatile sulfides and simultaneously extracted metals (AVS/SEM), total organic carbon, and pH. Two of the six samples were submitted with split samples to be sieved through a No. 60 sieve by the laboratory prior to analysis of total lead, total organic carbon, and pH. The purpose of sieving the sample prior to analysis is to remove any lead shot that may be in the sample. Generally, the lead in the shot is not bioavailable and therefore analyzing some without the lead shot is recommended per the US EPA OSWER #9285.7-37 document.

3.3 GROUNDWATER AND SURFACE WATER INVESTIGATION

Procedures used by URS to investigate site groundwater and surface water are described herein. Groundwater monitoring wells and surface water sampling locations are depicted on Figure 2.

3.3.1 Groundwater Sampling Program

URS collected groundwater samples from three of the monitoring wells previously installed by CDM. Monitoring wells that were identified as having elevated levels of lead in the previous sampling by CDM and the Town of Exeter were included in the sampling program. URS sampled monitoring wells MW-1, MW-3, and MW-5 on August 31, 2006. Groundwater samples were collected from MW-1 and MW-5 by first purging the wells three well volumes or until dry using disposable plastic bailers. Both wells ran dry before reaching three well volumes. Then sampling was conducted using a peristaltic pump equipped with dedicated polyethylene tubing. Field indicator parameters (pH, specific conductance, oxidation reduction potential, dissolved oxygen, and temperature) were collected prior to sampling. Groundwater samples from MW-3 were collected using U.S. Environmental Protection Agency (EPA) guidelines for low-flow sampling described in "Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures" (EPA, 1996). Purging and sampling was conducted using a peristaltic pump equipped with dedicated polyethylene tubing. At a minimum, one volume of water in the screened portion of the well was removed during purging. Field indicator parameters (pH, specific conductance, oxidation reduction potential, dissolved oxygen, and temperature) were monitored during purging at three minute intervals, and purging ceased when the following conditions were met:

- three consecutive measurements of pH did not vary by more than 0.3 standard unit;
- three consecutive measurements of specific conductance, temperature, and dissolved oxygen did not vary by more 10 percent; and,
- three consecutive measurements of oxidation reduction potential did not vary by more than 25 millivolts.

Groundwater samples were submitted for total and dissolved lead, and pH. Samples submitted to the laboratory for dissolved lead were field filtered using an in-line 0.45 micron polyethersulphane filter. Samples were collected in the appropriate laboratory provided sample

bottles and were sent under proper chain of custody procedures to Alpha in Westborough, Massachusetts for analysis.

3.3.2 Surface Water Sampling Program

Three surface water samples (SW-1, SW-2, and SW-3) were collected to assess potential impacts from the lead shot located in the intermittent stream. Surface water sample SW-1 was collected from an isolated pool upstream of the mouth of the intermittent stream. Surface water sample SW-2 was collected in shallow water located 50 to 100 feet upstream from the mouth of the intermittent stream. Surface water sample SW-3 was collected adjacent to the southern bank of the reservoir and is considered a background sample. Sampling was conducted using a peristaltic pump equipped with dedicated polyethylene tubing. Surface water samples were submitted for total and dissolved lead, dissolved organic carbon, and hardness. Samples being submitted to the laboratory for dissolved lead and dissolved organic carbon were field filtered using an in-line 0.45 micron polyethersulphane filter. Samples were collected in the appropriate laboratory provided sample bottles and were sent under proper chain of custody procedures to Alpha in Westborough, Massachusetts for analysis.

4.0 SUMMARY OF ANALYTICAL RESULTS

This section presents the results of soil, sediment, surface water and groundwater samples collected and submitted for laboratory analysis at the Site in August 2006. Surface water and groundwater data is summarized in Table 1, soil data is summarized in Table 2, and sediment data is summarized in Table 3. The sample locations are depicted on Figure 2.

4.1 SURFACE WATER SAMPLING RESULTS

Samples were collected on August 31, 2006 from three surface water locations identified on Figure 2 as SW-1, SW-2, and SW-3. The samples were analyzed for total and dissolved lead, dissolved organic carbon, pH, and hardness. The pH was reported at 6.9, 7.4, and 7.3 standard unit for SW-1, SW-2, and SW-3, respectively. The NHDES does not have a standard for dissolved organic carbon or hardness, however, the hardness is a component of the equation to determine water quality criteria for lead. Based on the hardness for the samples analyzed and the default water effect ratio of 1.0, the fresh water chronic water quality criteria for lead was calculated to be 1.15 ug/L. Using the same assumptions, the fresh water acute water quality criteria for lead was calculated to be 29.5 ug/L. The surface water samples were all found to be below the detection limit of 10 ug/L, which exceeds the fresh water chronic water quality criteria for lead. There were no surface water samples that exceeded the fresh water acute water quality criteria. The surface water results are summarized in Table 4

4.2 GROUNDWATER SAMPLING RESULTS

Samples were collected on August 31, 2006 from three groundwater monitoring wells identified on Figure 2 as MW-1, MW-3, and MW-5. The samples were analyzed for total lead, dissolved lead, and pH. All samples reported concentrations below laboratory method detection limits for both total and dissolved lead. The pH for MW-1 and MW-5 was reported at 6.2 standard unit

and 7.2 standard unit for MW-3. The historical and current groundwater results are summarized in Table 1.

4.3 SOIL SAMPLING RESULTS

Samples were collected on August 31, 2006 from eight soil sampling locations identified on Figure 2 as O-4, O-8, P-6, Q-9, R-5, S-9, T-7 and BKG-1. The samples were analyzed for total lead using EPA Method 6010B and the SPLP method, total organic carbon, and pH. Soil samples were selected based on screening with a portable XRF unit. The selected locations included one sample with the highest XRF reading, one from a background location, and the remainder from locations meant to be representative of average readings across the site. Four of the eight samples (O-8 (9-15"), P-6 (0-6"), Q-9 (0-6"), and T-7 (0-6")) were submitted with split samples to be sieved through a No. 60 sieve by the laboratory prior to analysis of total lead, SPLP total lead, total organic carbon, and pH. The purpose of sieving the sample prior to analysis is to remove any lead shot that may be in the sample. Analytical results identified total lead concentrations above applicable NHDES S-1 standard of 400 mg/kg in the soil samples collected from locations O-4 (0-6"), P-6 (0-6") (sieved and non-sieved), Q-9 (0-6") (sieved and non-sieved), R-5 (0-6"), S-9 (0-6"), and T-7 (0-6") (sieved). The reported total lead concentrations ranged from 66 mg/kg to 6,000 mg/kg. The highest total lead concentration was reported in O-4 (0-6"). Soil samples O-8 (9-15") sieved and non-sieved, T-7 (0-6") sieved, and BKG-1 did not report total lead concentrations above the S-1 standard of 400 mg/kg.

Although the USEPA recommends sieving the lead shot out of some of the samples, the grain size distribution of the soil and sediment sample slated for sieving was problematic. More specifically, a high percentage of the soil particles were retained on the No. 60 sieve. As such, much of the sample retained and there was insufficient volume for testing. In addition, manually forcing the soil or sediment through the sieve likely broke down some of the lead shot as

evidenced by some of the sieved samples having higher concentrations of lead than those companion samples that were not sieved.

Analytical results from SPLP identified total lead concentrations above applicable NHDES GW-1 standard in the soil samples collected from locations O-4 (0-6"), P-6 (0-6") (sieved and non-sieved), Q-9 (0-6") (sieved and non-sieved), R-5 (0-6"), S-9 (0-6"), T-7 (0-6") (sieved and non-sieved), and BKG-1 (0-6"). The reported total lead concentrations ranged from below detection limit of 0.010 mg/l to 1.12 mg/l. The highest total lead concentration was reported in P-6 (0-6") sieved at 1,12 mg/l. Soil samples O-8 (9-15") sieved and non-sieved were the only samples that did not exceed the NHDES GW-1 standard. The pH ranged from 3.4 to 4.9 standard unit and averaged 4.4 standard unit for the soil samples analyzed. These results are summarized in Table 2.

Screening results using the portable XRF unit were reasonably consistent with results from laboratory analysis. As compared to the laboratory results, the XRF overstated the lead concentrations in 4 out of 7 soil samples and understated the results in 2 of the remaining 3 samples. The highest results were found generally in the first 6 inches of soil in both laboratory analytical results and XRF readings, and the locations with the highest readings were those along the property boundary adjacent to the trap range. Methods for the screening of soils with the portable XRF unit are in general conformance with those set forth by EPA Method 6200 – *Field Portable X-Ray Flourescence For the Determination of Elemental Concentrations in Soil and Sediment.* The samples were collected in plastic bags and screened for 60 seconds. A calibration standard was screened at the beginning of soil screening activities and at the end of the soil screening activities for the day to assure the XRF was working as expected. The results of XRF screening for soils are summarized in Table 5.

4.4 SEDIMENT SAMPLING RESULTS

Samples were collected on August 31, 2006 from six sediment sampling locations identified on Figure 2 as SED-1 through SED-6, with SED-6 selected as a background location. Sediment samples SED-3 and SED-4 were collected from the 0-4 inch interval. Sediment samples SED-1, SED-2, SED-5, and SED-6 were collected from the 0-8 inch interval in order to collect enough volume for the laboratory analyses. Two of the six samples were submitted with split samples to be sieved through a No. 60 sieve by the laboratory prior to analysis of total lead, total organic carbon, and pH based on the sediment screening results with a portable XRF unit. Sediment samples SED-3 and SED-4 reported the highest XRF screening results for lead and were selected to be sieved. All of the samples were analyzed for total lead using EPA Method 6020A, acid volatile sulfides and simultaneously extracted metals (AVS/SEM), total organic carbon, and pH.

Results of the sediment analyses were compared against sediment screening standards referenced from National Oceanic and Atmospheric Administration (NOAA) document *Screening Quick Reference Tables* published in 1999. This document presents screening concentrations for inorganic and organic contaminants in various environmental media. CDM referenced this document as the basis for recommendations made in the Phase II report. NOAA describes three thresholds for increasing degrees of ecological risk. The first level is the Threshold Effects Concentration (TEC) which is the level above which adverse effects to benthic organisms can likely occur, next is the Probable Effects Concentration (PEC), which is the level above which adverse effects to benthic organisms are probable to occur, and finally the Upper Effects Threshold (UET), which is the level above which adverse effects to benthic organisms are expected to occur.

Analytical results identified total lead concentrations above the TEC of 35 mg/kg in the sediment samples collected from location SED-1. Sediment sample SED-1 was collected in an isolated pool upstream of the mouth of the intermittent stream. Analytical results identified total lead

concentrations above the PEC of 91 mg/kg in the sediment sample collected from location SED-3 sieved. Analytical results identified total lead concentrations above the UET of 127 mg/kg in the sediment samples collected from locations SED-2, SED-3 non-sieved, and SED-4 non-sieved and sieved. The reported total lead concentrations ranged from 17 mg/kg to 2,300 mg/kg. The highest total lead concentration was reported in SED-3 non-sieved. SED-5 and SED-6 did not exceed the TEC. Sediment sample SED-6 was a background sample. The analytical results for the AVS:SEM ratio data reported SED-2 and SED-3 with a ratio of greater than 1 and indicates these samples are presumptively bioavailable. The pH ranged from 4.8 to 6.7 standard unit and averaged 6.0 standard unit for the soil samples analyzed. The sediment results are summarized in Table 3. The methods for XRF screening of the sediment samples were identical to those described in section 4.3. The results of the XRF sediment screening are summarized in Table 6.

Following the NHDES Sediment Quality Guidance Document Triad Approach, the second step in Component A is to calculate the hazard quotient (HQ) by dividing the sediment concentration by the threshold value. An HQ calculated with a TEC of one or greater indicates the possibility that the contaminant may adversely affect sediment organisms. An HQ calculated with a PEC of one or greater indicates the likelihood that the contaminant will adversely affect sediment organisms.

Based upon the screening results, sediment locations SED-5 and SED-6 would be categorized as having a low risk and the locations could be eliminated from consideration. Sediment location SED-1 would be categorized as having moderate risk and SED-2, SED-3, and SED-4 as high risk. Contaminants classified as moderate to high risk are retained as contaminants of concern. Sample locations with moderate risk priority require additional risk characterization according to Component B of the triad. Sample locations with high risk priority are assumed to be impaired and will be listed as such unless additional risk characterization according to Components B and/or C suggest otherwise. The results of the sediment screening are summarized in Table 7.

5.0 CONCLUSIONS

URS has conducted a Site Specific Environmental Study of the soil, sediment, surface water and groundwater conditions at the Site This study expanded on information previously prepared by CDM for the Town of Exeter. The focus of the study was to further delineate the vertical and horizontal extent of lead shot impacts associated with the operation of the ESC gun ranges on and off property. The results of the sampling indicate that surface water and groundwater have not been significantly impacted by gun range activities. Lead impacts to soils have been identified up to 350 feet off of the Town owned property and in the intermittent stream located to the east of the Trap Range.

Results of XRF screening and confirmatory laboratory soil analyses indicate the presence of soils containing lead at concentrations above the S-1 soil standard through much of the site. In some areas, lead is present at concentrations above the DES UCLs. In order to determine the most cost effective path forward, a human health risk assessment and Stage I screening for the upland soils needs to be completed. In performing the risk assessment, the areas of the Site which present unacceptable levels of risk can be identified. These areas would then be the target of future remediation. URS believes that by conducting the risk assessment, it will be demonstrated that the major portion of the Site will not require remediation.

Lead is also present in stream sediments at concentrations which exceed TECs, PECs, and UETs. The TEC is the level above which adverse effects to benthic organisms can likely occur while the PEC is the level above which adverse effects to benthic organisms are probable to occur, and finally the UET is the level above which adverse effects to benthic organisms are expected to occur. As such, the stream sediments will require further ecological risk characterization and/or remediation.

TABLES

Table 1
Summary of Groundwater Analytical Data
Exeter Sportsman Club
Exeter, New Hampshire

Well ID	Sample Date	pH	Dissolved Oxygen (mg/l)	Oxidation-Reduction Potential (eV)	Conductivity (mS/cm)	Total Lead (mg/l)	Dissolved Lead (mg/l)
AGQS		NS	NS	NS	NS	0.015	0.015
MW-1	05/07/03	--	--	--	--	**0.16**	--
	08/05/03	--	--	--	--	**0.077**	<0.012
	08/31/06	6.20	2.73	105.70	157.00	<0.01	<0.01
MW-2	05/07/03	--	--	--	--	0.012	--
	08/05/03	--	--	--	--	<0.012	<0.012
	04/28/05	--	--	--	--	**0.03**	**0.017**
	08/02/05	--	--	--	--	0.013	0.0076
MW-3	05/07/03	--	--	--	--	0.012	--
	08/05/03	--	--	--	--	<0.012	0.012
	04/28/05	--	--	--	--	**0.06**	0.014
	08/02/05	--	--	--	--	**0.041**	0.0058
	08/31/06	7.20	0.27	-8.80	146.00	<0.01	<0.01
MW-4	05/07/03	--	--	--	--	**0.07**	--
	08/05/03	--	--	--	--	<0.012	<0.012
	04/28/05	--	--	--	--	**0.038**	<0.005
	08/02/05	--	--	--	--	**0.045**	<0.003
MW-5	05/07/03	--	--	--	--	**0.075**	--
	08/05/03	--	--	--	--	0.02	<0.012
	04/28/05	--	--	--	--	**0.015**	<0.005
	08/02/05	--	--	--	--	**0.026**	<0.003
	08/31/06	6.20	4.30	231.0	85.00	<0.01	<0.01

Notes:
1) '-- = Not Measured
2) NS = No Standard
3) AGQS = New Hampshire DES Ambient Groundwater Quality Standards
4) May 7 and August 5, 2003 sampling events conducted by CDM.
5) April 28 and August 2, 2005 sampling events conducted by Town of Exeter.
6) August 31, 2006 sampling event conducted by URS.
7) **Bold -** Exceeds NHDES GW-1 Standard

Table 2
Summary of Soil Analytical Data
Exeter Sportsman Club
Exeter, New Hampshire

Soil Sample ID	Sample Date	Solids, Total (%)	pH	Total Organic Carbon (Rep1) (%)	Total Organic Carbon (Rep2) (%)	Lead, Total (mg/kg)	Lead, Total (mg/l)
NHDES S-1	**—**	**NS**	**NS**	**NS**	**NS**	**400**	**–**
NHDES GW-1	**—**	**NS**	**NS**	**NS**	**NS**	**—**	**0.015**
NHDES UCL Soil	**—**	**NS**	**NS**	**NS**	**NS**	**4,000**	**–**
O-4 (0-6")	08/31/06	53	3.7	15	17	**6,000 [10,945]**	NA
O-8 (9-15") NON-SIEVED	08/31/06	79	4.8	0.83	0.82	66 [436]	NA
O-8 (9-15") SIEVED	08/31/06	97	4.9	1.2	1.1	72 [436]	NA
P-6 (0-6") NON-SIEVED	08/31/06	68	4.7	5.1	4.2	**3,900 [59,961]**	NA
P-6 (0-6") SIEVED	08/31/06	96	4.6	5.1	5.3	**4,000 [59,961]**	NA
Q-9 (0-6") NON-SIEVED	08/31/06	66	4.6	6.2	5.7	**1,500 [416]**	NA
Q-9 (0-6") SIEVED	08/31/06	94	4.6	6.1	5.8	**650 [416]**	NA
R-5 (0-6")	08/31/06	46	3.4	4.5	5.3	**3,000 [1,301]**	NA
S-9 (0-6")	08/31/06	39	4.1	14	14	**460 [2,157]**	NA
T-7 (0-6") NON-SIEVED	08/31/06	71	4.3	4.8	5.2	320 [828]	NA
T-7 (0-6") SIEVED	08/31/06	95	4.4	7.5	7.6	**480 [828]**	NA
BKG-1 (0-6")	08/31/06	70	4.1	7.5	7.5	140 [51]	NA
SPLP EXT OF O-4 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.256**
SPLP OF O-8 (9-15") NON-SIEVED	08/31/06	NA	NA	NA	NA	NA	<0.010
SPLP EXT OF SIEVED O-8 (9-15")	08/31/06	NA	NA	NA	NA	NA	<0.010
SPLP OF P-6 (0-6") NON-SIEVED	08/31/06	NA	NA	NA	NA	NA	**0.38**
SPLP EXT OF SIEVED P-6 (0-6")	08/31/06	NA	NA	NA	NA	NA	**1.12**
SPLP OF Q-9 (0-6") NON-SIEVED	08/31/06	NA	NA	NA	NA	NA	**0.026**
SPLP EXT OF SIEVED Q-9 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.132**
SPLP EXT OF R-5 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.589**
SPLP EXT OF S-9 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.034**
SPLP OF T-7 (0-6") NON-SIEVED	08/31/06	NA	NA	NA	NA	NA	**0.03**
SPLP EXT OF SIEVED T-7 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.206**
SPLP EXT OF BKG-1 (0-6")	08/31/06	NA	NA	NA	NA	NA	**0.016**

Notes:
1) NHDES S-1 - New Hampshire Department of Environmental Services S-1 Soil Standards
2) NHDES GW-1 - New Hampshire Department of Environmental Services GW-1 Groundwater Standards
3) NHDES UCL - New Hampshire Department of Environmental Services Upper Concentration Limit
4) < = Measurement less than applicable reporting level.
5) XRF results in brackets
6) NA - Sample not analyzed for this parameter
7) NS - No standard
8) **Bold -** Exceeds NHDES S-1 or GW-1 Standard
9) **Bold -** Exceeds NHDES UCL for soil

Table 3
Summary of Sediment Analytical Data
Exeter Sportsman Club
Exeter, New Hampshire

Sediment Sample ID	Sample Date	Metals, Total	Lead, Total (mg/kg)	SEM/AVS	SEM/AVS Ratio (µmol/g)	Sulfide (µmol/g)	Copper (µmol/g)	Cadmium (µmol/g)	Nickel (µmol/g)	Lead (µmol/g)	Zinc (µmol/g)	Inorganics	pH	Total Organic Carbon (Run 1) (%)	Total Organic Carbon (Run 2) (%)	Total Solids
TEC			35													
PEC			91													
UET			127													
SED-1 (0-8")	08/31/06		**51 [27/121]**		R	0.20	0.059	0.0056	0.11	0.16	0.21		6.1	3.4	3.2	53
SED-2 (0-8")	08/31/06		**540 [123/509]**		1.5	2.1	0.053	0.0060	0.11	2.8	0.25		6.3	3.6	3.8	49
SED-3 (0-4")	08/31/06		**2,300 [2,268/5,568]**		4.0	2.2	0.065	0.0073	0.14	8.4	0.35		5.8	4.3	4.4	38
SED-3 (0-4") sieved	08/31/06		**110**		NA	NA	NA	NA	NA	NA	NA		5.5	1.3	1.3	100
SED-4 (0-4")	08/31/06		**130 [147/110]**		0.53	1.6	0.059	0.0057	0.11	0.49	0.27		6.4	2.1	2.1	55
SED-4 (0-4") sieved	08/31/06		**1400**		NA	NA	NA	NA	NA	NA	NA		4.8	3.0	2.7	99
SED-5 (0-8")	08/31/06		17 [21/29]		0.31	0.86	0.044	0.0049	0.094	0.12	0.15		6.7	0.77	0.76	71
SED-6 (0-8")	08/31/06		19 [23/23]		R	0.17	0.043	0.0048	0.093	0.028	0.083		6.4	0.91	0.92	74

Notes:
1) XRF results in brackets - two samples screened from each location
2) NA - Sample not analyzed for this parameter
3) **R** - Not calculated. AVS not detected.
4) TEC - Threshold Effects Concentration - level above which adverse effects to benthic organisms can likely occur
5) PEC - Probable Effects Concentration - level above which adverse effects to benthic organisms are probable to occur
6) UET - Upper Effects Threshold - level above which adverse effects to benthic organisms are expected to occur
7) **Bold -** Exceeds TEC
8) **Bold -** Exceeds PEC
9) **Bold -** Exceeds UET
10) TEC, PEC, and UET referenced from National Oceanic and Atmospheric Administration document *Screening Quick Reference Tables* published in 1999.

Table 4
Summary of Surface Water Analytical Data
Exeter Sportsman Club
Exeter, New Hampshire

Well ID	Sample Date	pH	Total Lead (ug/l)	Dissolved Lead (ug/l)	Dissolved Organic Content (ug/l)	Hardness (ug/l)
Fresh Water Quality Criteria - Acute		**NS**	**NS**	**29.5**	**NS**	**NS**
Fresh Water Quality Criteria - Chronic		**NS**	**NS**	**1.15**	**NS**	**NS**
SW-1	08/31/06	6.9	<10	**<10**	9,100	45,000
SW-2	08/31/06	7.4	<10	**<10**	10,000	46,000
SW-3	08/31/06	7.3	<10	**<10**	8,900	45,000

Notes:
1) NS = No standard
2) Water Quality Criteria based on calculations described in Env-Ws 1700 *Surface Water Quality Regulations* published by NHDES.
3) **Bold -** Exceeds Chronic Water Quality Criteria
4) **Bold -** Exceeds Acute Water Quality Criteria
5) < = Compound not detected above the listed detection limit

Table 5
Summary of XRF Soil Data
Exeter Sportsman Club
Exeter, New Hampshire

Soil Sample ID	Sample Depth	Lead (mg/kg)	Comments
NHDES S-1		400	
NHDES UCL Soil		4,000	
O-3	0-6"	143	Dk. Brn, f. SAND, organic matter, dry
	6-9"	20	Brn, f. SAND, dry
O-4	0-6"	10,945	Dk. Brn, f. SAND, organic matter, dry, little visible shot
	6-9"	272	Brn, f. SAND, dry
	9-15"	211	Brn, f. SAND, dry
O-5	0-6"	1,436	Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	37	Lt. Brn, f. SAND, trace Silt, dry
	9-15"	195	Lt. Brn, f. SAND, trace Silt, dry
O-6	0-6"	26,271	Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	42	Lt. Brn, f. SAND, dry
	9-15"	191	Lt. Brn, f. SAND, dry
O-7	0-6"	4,167	Brn, f. SAND, dry, some visible shot
	6-9"	102	Brn, f. SAND, dry
	9-15"	1,340	Brn, f. SAND, dry
	15-27"	33	Brn, f. SAND, dry
O-8	0-6"	448	Brn, f-m SAND, little Silt, dry
	6-9"	85	Brn, f-m SAND, little Silt, dry
	9-15"	436	Brn, f-m SAND, little Silt, dry
	15-27"	31	Brn, f-m SAND, dry
O-9	0-6"	366	Brn, f-m SAND, some Silt, sl. moist
	6-9"	277	Brn, f-m SAND, some Silt, sl. moist
	9-15"	232	Lt. Brn, f-m Silty SAND, sl. moist
O-10	0-6"	220	Brn, f-m SAND, some Silt, sl. moist
	6-9"	16	Lt. Brn, f-m Silty SAND, moist
	9-15"	135	Lt. Brn, f-m Silty SAND, moist
O-11	0-6"	174	Dk. Brn, f-m SAND, some Silt, sl. moist
	6-9"	51	Brn, f-m SAND, some Silt, moist
	9-15"	90	Brn, f-m SAND, some Silt, moist
O-12	0-6"	91	Brn, f-m SAND, some Silt, sl. moist
	6-9"	54	Brn, f-m SAND, some Silt, sl. moist
	9-15"	64	Brn, f-m SAND, some Silt, sl. moist
O-13	0-6"	66	Dk. Brn, f-m SAND, some Silt, sl. moist
	6-9"	17	Dk. Brn, f-m SAND, some Silt, sl. moist
	9-15"	16	Brn, f. SAND, some Silt, moist
P-3	0-6"	78	Dk. Brn, f. SAND, organic matter, dry
	6-9"	22	Brn, f. SAND, dry
P-4	0-6"	3,895	Dk. Brn, f. SAND, organic matter, dry, little visible shot
	6-9"	13	Brn, f. SAND, dry
	9-15"	57	Brn, f. SAND, dry

Table 5
Summary of XRF Soil Data
Exeter Sportsman Club
Exeter, New Hampshire

Soil Sample ID	Sample Depth	Lead (mg/kg)	Comments
NHDES S-1		400	
NHDES UCL Soil		4,000	
P-5	0-6"	5,710	Dk. Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	74	Brn, f. SAND, dry
	9-15"	57	Brn, f. SAND, dry
P-6	0-6"	59,961	Dk. Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	38	Brn, f. SAND, dry, trace visible shot
	9-15"	305	Brn, f. SAND, dry, trace visible shot
P-7	0-6"	7,207	Dk. Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	218	Brn, f. Silty SAND, dry
	9-15"	812	Brn, f. Silty SAND, dry
	15-27"	25	Brn, f-m SAND, dry
P-8	0-6"	2,124	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	54	Brn, f. Silty SAND, dry
	9-15"	84	Brn, f. Silty SAND, sl. moist
P-9	0-6"	518	Dk. Brn, f. SAND, organic matter, dry
	6-9"	113	Brn, f. Silty SAND, dry
	9-15"	167	Brn, f. Silty SAND, sl. moist
P-10	0-6"	270	Brn, f-m Silty SAND, sl. Moist
	6-9"	83	Brn, f-m Silty SAND, wet
	9-15"	74	Brn, f-m Silty SAND, wet
P-11	0-6"	217	Dk. Brn, f. SAND, organic matter, dry
	6-9"	159	Brn, f-m SAND, dry
	9-15"	49	Brn, f-m Silty SAND, sl. moist
P-12	0-6"	119	Brn, f. SAND, organic matter, dry, some visible shot
	6-9"	18	Brn, f. SAND, dry
	9-15"	14	Brn, f. SAND, dry
Q-2	0-6"	138	Lt. Brn, f. SAND, wet
	6-9"	23	Lt. Brn, f. SAND, wet
Q-3	0-6"	730	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	38	Brn, f. SAND, dry
Q-4	0-6"	183	Dk. Brn, f. SAND, organic matter, dry
	6-9"	145	Brn, f. SAND, dry
	9-15"	25	Brn, f. SAND, dry
Q-5	0-6"	1,187	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	182	Brn, f. SAND, dry
	9-15"	28	Brn, f. SAND, dry
Q-6	0-6"	3,786	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	274	Brn, f. SAND, dry
	9-15"	61	Brn, f. SAND, dry

Table 5
Summary of XRF Soil Data
Exeter Sportsman Club
Exeter, New Hampshire

Soil Sample ID	Sample Depth	Lead (mg/kg)	Comments
NHDES S-1		400	
NHDES UCL Soil		4,000	
Q-7	0-6"	4,015	Dk. Brn, f. SAND, organic matter, dry, visible little shot
	6-9"	232	Brn, f. SAND, dry
	9-15"	93	Brn, f. SAND, dry
Q-8	0-6"	315	Brn, f. SAND, dry
	6-9"	39	Brn, f. SAND, dry
	9-15"	99	Brn, f. SAND, dry
Q-9	0-6"	416	Brn, f. Silty SAND, organic matter, dry
	6-9"	17	Brn, f. Silty SAND, dry
	9-15"	120	Brn, f. Silty SAND, dry
Q-10	0-6"	1,310	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	105	Brn, f. Silty SAND, dry
	9-15"	112	Brn, f. Silty SAND, dry
Q-11	0-6"	296	Dk. Brn, f. Silty SAND, organic matter, dry
	6-9"	66	Brn, f. Silty SAND, moist
	9-15"	25	Brn, f. Silty SAND, moist
R-3	0-6"	272	Dk. Brn, f. SAND, organic matter, dry
	6-9"	38	Brn, f. SAND, dry
R-4	0-6"	8,953	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	337	Brn, f. SAND, dry
	9-15"	183	Brn, f. SAND, dry
R-5	0-6"	1,301	Dk. Brn, f. SAND, organic matter, dry, visible little shot
	6-9"	220	Brn, f. SAND, dry
	9-15"	34	Brn, f. SAND, dry
R-6	0-6"	1,299	Dk. Brn, f. SAND, organic matter, dry, visible little shot
	6-9"	42	Brn, f. SAND, dry
	9-15"	18	Brn, f. SAND, dry
R-7	0-6"	1,932	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	154	Brn, f. SAND, dry
	9-15"	35	Brn, f. SAND, dry
R-8	0-6"	1,459	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	39	Brn, f. SAND, dry
	9-15"	17	Brn, f. SAND, dry
R-9	0-6"	48	Dk. Brn, f. SAND, organic matter, dry
	6-9"	47	Brn, f. SAND, dry
R-10	0-6"	156	Dk. Brn, f. SAND, organic matter, dry
	6-9"	118	Brn, f. SAND, dry
R-11	0-6"	118	Dk. Brn, f. SAND, organic matter, dry
	6-9"	58	Brn, f. SAND, little f. Gravel, wet

Table 5
Summary of XRF Soil Data
Exeter Sportsman Club
Exeter, New Hampshire

Soil Sample ID	Sample Depth	Lead (mg/kg)	Comments
NHDES S-1		**400**	
NHDES UCL Soil		**4,000**	
S-3	0-6"	86	Dk. Brn, f. SAND, organic matter, dry
	6-9"	23	Brn, f. SAND, dry
S-4	0-6"	19	Brn, f. SAND, dry
	6-9"	32	Brn, f. SAND, dry
S-5	0-6"	**667**	Dk. Brn, f. SAND, organic matter, dry
	6-9"	52	Brn, f. SAND, dry
S-6	0-6"	**4,924**	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	**406**	Brn, f-m SAND, dry, visible trace shot
	9-15"	30	Brn, f. SAND, dry
S-7	0-6"	**763**	Dk. Brn, f-m SAND, dry
	6-9"	**1,111**	Brn, f. SAND, dry, visible trace shot
S-8	0-6"	**1,487**	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	100	Brn, f. SAND, dry
S-9	0-6"	**2,157**	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	64	Brn, f. SAND, dry
T-4	0-6"	41	Brn, f. SAND, dry
	6-9"	21	Brn, f. SAND, dry
T-5	0-6"	27	Brn, f. SAND, dry
	6-9"	70	Brn, f. SAND, dry
T-6	0-6"	**951**	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	37	Brn, f-m SAND, dry
T-7	0-6"	**828**	Dk. Brn, f. SAND, organic matter, dry, visible trace shot
	6-9"	80	Brn, f. SAND, dry
T-8	0-6"	227	Dk. Brn, f. SAND, organic matter, dry
	6-9"	44	Brn, f. SAND, dry
T-9	0-6"	29	Dk. Brn, f. SAND, organic matter, dry
	6-9"	12	Brn, f. SAND, dry
T-10	0-6"	105	Dk. Brn, f. SAND, organic matter, dry
	6-9"	27	Brn, f-m SAND, wet
U-6	0-6"	287	Dk. Brn, f. SAND, organic matter, dry
	6-9"	42	Brn, f. SAND, dry
U-7	0-6"	19	Dk. Brn, f. SAND, organic matter, dry
	6-9"	25	Brn, f-m SAND, dry
U-8	0-6"	30	Dk. Brn, f. SAND, organic matter, dry
	6-9"	24	Brn, f-m SAND, dry

Notes:
1) **Bold -** Exceeds NHDES S-1 Soil Standard
2) **Bold -** Exceeds NHDES UCL for soil

Table 6
Summary of XRF Sediment Data
Exeter Sportsman Club
Exeter, New Hampshire

Sediment Sample ID	Sample Depth	Lead (mg/kg)	Comments
TEC		**35**	
PEC		**91**	
UET		**127**	
SED-1	0-4"	27	Brn, f. SAND, organic matter, wet
3.5' of water	4-8"	18	Brn, f. SAND, some Silt, trace organics, wet
	8-12"	26	Brn, f. Silty SAND, trace Clay, wet
	12-16"	24	Brn, f. Silty SAND, trace Clay, wet
SED-2	0-4"	**123**	Brn, f. Silty SAND, organic matter, wet
2' of water	4-8"	**98**	Gray, f. Silty SAND, little Clay, wet
SED-3	0-4"	**2,268**	Brn, f. SAND, some Silt, organics, wet
1' of water	4-8"	**129**	Brn, f. Silty SAND, trace organics, wet
	8-12"	**182**	Brn, f-m SAND, some Silt, trace organics, wet
SED-4	0-4"	**147**	Brn, f. Silty SAND, organics, wet
2' of water	4-8"	**36**	Brn, f. Silty SAND, some organics, wet
	8-12"	**39**	Gray, f. Silty SAND, little Clay, wet
	12-16"	**43**	Gray, f. Silty SAND, some Clay, wet
	16-20"	**35**	Gray, f-m Silty SAND, some Clay, wet
SED-5	0-4"	21	Brn, f-m Silty SAND, organics, wet
3' of water	4-8"	30	Brn, f-m Silty SAND, trace Clay, organics, wet
	8-12"	**40**	Brn, f-m Silty SAND, trace Clay, organics, wet
SED-6	0-4"	23	Brn, SILT, some f. Sand, Clay, wet
2.5' of water	4-8"	20	Brn, SILT, some f. Sand, Clay, wet
SED-1A	0-4"	**121**	Brn, f. SAND, organic matter, wet
	4-8"	22	Brn, f. SAND, some Silt, trace organics, wet
	8-12"	**37**	Brn, f. Silty SAND, trace Clay, wet
	12-16"	33	Brn, f. Silty SAND, trace Clay, wet
SED-2A	0-4"	**509**	Brn, f. SAND, organic matter, wet
	4-8"	**228**	Brn, f. Silty SAND, trace organics, wet
SED-3A	0-4"	**5,568**	Brn, f. SAND, little Silt, organics, wet
	4-8"	**161**	Brn, f. Silty SAND, trace Clay, organics, wet
SED-4A	0-4"	**110**	Brn, f. Sandy SILT, some Clay, organics, wet
	4-8"	**45**	Gray, f. Silty SAND, trace Clay, organics, wet
	8-12"	**61**	Gray, f-m Silty SAND, trace Clay, wet
SED-5A	0-4"	29	Brn, f. Silty SAND, some Clay, trace organics, wet
	4-8"	17	Brn, f-m Silty SAND, trace Clay, wet
	8-12"	**36**	Brn, SILT, little f-m Sand, Clay, wet
	12-16"	26	Brn, f-m Silty SAND, trace Clay, wet
SED-6A	0-4"	23	Brn, SILT, some f. Sand, Clay, wet
	4-8"	29	Brn, SILT, some f. Sand, Clay, wet

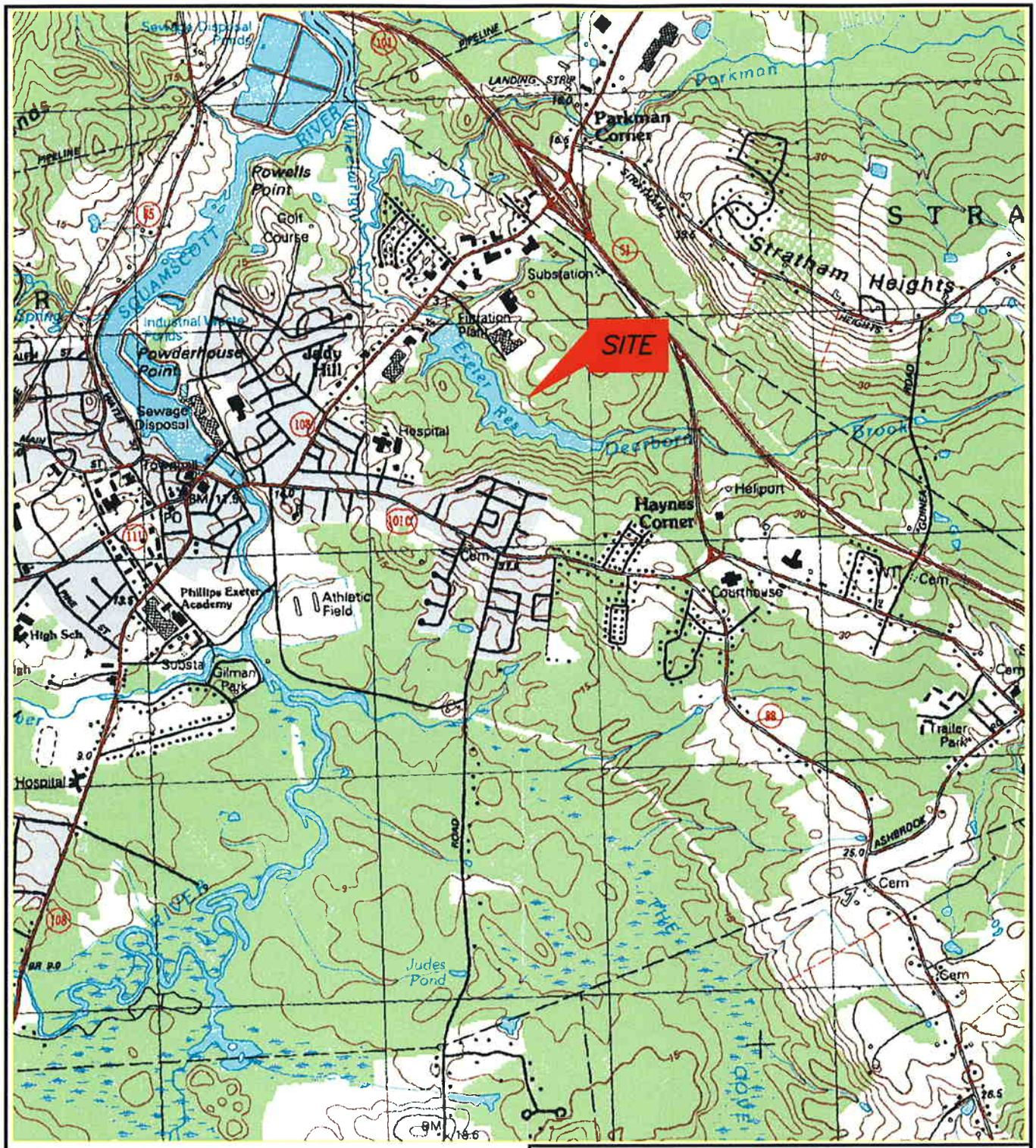
Notes:
1) TEC - Threshold Effects Concentration - level above which adverse effects to benthic organisms can likely occur
2) PEC - Probable Effects Concentration - level above which adverse effects to benthic organisms are probable to occur
3) UET - Upper Effects Threshold - level above which adverse effects to benthic organisms are expected to occur
4) **Bold -** Exceeds TEC
5) **Bold -** Exceeds PEC
6) **Bold -** Exceeds UET
7) TEC, PEC, and UET referenced from National Oceanic and Atmospheric Administration document *Screening Quick Reference Tables* published in 1999.

Table 7
Results of Sediment Screening
Exeter Sportsman Club
Exeter, New Hampshire

Sediment Sample ID	Sample Date	Lead, Total (mg/kg)	TEC HQ	TEC COC Decision	PEC HQ	PEC COC Decision
TEC		35	35			
PEC		91			91	
SED-1 (0-8")	08/31/06	51	1.46	Yes	0.56	No
SED-2 (0-8")	08/31/06	540	15.43	Yes	5.93	Yes
SED-3 (0-4")	08/31/06	2,300	65.71	Yes	25.27	Yes
SED-4 (0-4")	08/31/06	130	3.71	Yes	1.43	Yes
SED-5 (0-8")	08/31/06	17	0.49	No	0.19	No
SED-6 (0-8")	08/31/06	19	0.54	No	0.21	No
Minimum Detected Concentration		17				
Maximum Detected Concentration		2,300				
Average Concentration		509.5				

Notes:
1) COC - Contaminant of Concern
2) HQ - Hazard Quotient is calculated by dividing the chemical concentration in the sample by the sediment quality benchmark value.
3) TEC - Threshold Effects Concentration - level above which adverse effects to benthic organisms can likely occur.
4) PEC - Probable Effects Concentration - level above which adverse effects to benthic organisms are probable to occur.
5) TEC and PEC referenced from National Oceanic and Atmospheric Administration document *Screening Quick Reference Tables* published in 1999.

FIGURES



SOURCES:
USGS EXETER, NH QUADRANGLES
7.5 MINUTE SERIES TOPOGRAPHIC MAPS
DATED 1985

0 1000 2000 4000
APPROXIMATE SCALE (FEET)

N

SITE LOCATION MAP

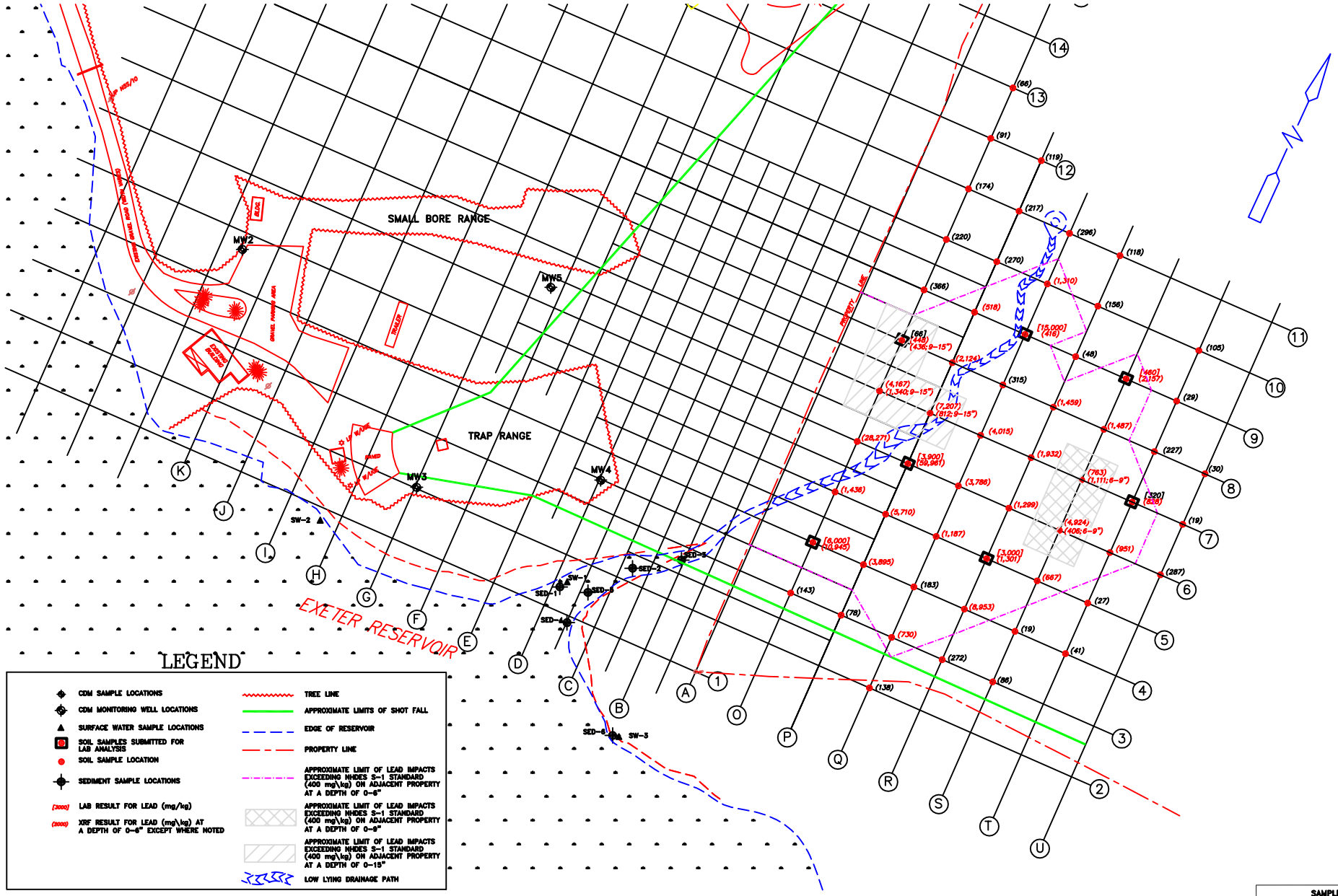
EXETER SPORTSMAN'S CLUB
PORTSMOUTH AVENUE
EXETER, NEW HAMPSHIRE

CLIENT *MASSACHUSETTS HIGHWAY DEPARTMENT*

URS

5 Industrial Way
Salem, New Hampshire 03079
TEL: (603) 893-0616
FAX: (603) 893-6240
http://www.urscorp.com

SCALE	NTS	DRAWN BY	BCL	JOB NO.	39742396
DATE	10/06	APPR. BY	ALP	FIG. NO.	1



SAMPLE RESULTS PLAN

EXETER SPORTSMAN'S CLUB
EXETER, NEW HAMPSHIRE

URS

DRAWN BY:	DRL	PROJECT NO.:	38746288	FIGURE NO.:
DESIGN BY:	CDD	SCALE:	1" = 40'	2
APPROVED BY:	AJP	DATE:	10/02	

T:\Exeter Sportsman Club\Sample Results Plan.dwg

APPENDIX A

LABORATORY ANALYTICAL REPORTS

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: URS Corporation

Address: 5 Industrial Way

Salem, NH 03079

Attn: Ms. Amy Pollock

Project Number: 39742396

Site: EXETER SPORTMAN CLUB

Laboratory Job Number: L0612491

Date Received: 01-SEP-2006

Date Reported: 11-SEP-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0612491-01	MW-1	EXETER, NH
L0612491-02	MW-3	EXETER, NH
L0612491-03	MW-5	EXETER, NH
L0612491-04	SW-1	EXETER, NH
L0612491-05	SW-2	EXETER, NH
L0612491-06	SW-3	EXETER, NH

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0612491

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-01
MW-1
Sample Matrix: WATER

Date Collected: 31-AUG-2006 13:45
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	6.2	SU	-	1	9040B		0901 12:00	DP
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 13:38	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:11	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-02
MW-3
Sample Matrix: WATER

Date Collected: 31-AUG-2006 11:05
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	7.2	SU	-	1	9040B		0901 12:00	DP
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 13:48	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:21	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-03
MW-5
Sample Matrix: WATER

Date Collected: 31-AUG-2006 12:00
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	6.2	SU	-	1	9040B		0901 12:00	DP
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 17:43	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:25	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-04
SW-1
Sample Matrix: WATER

Date Collected: 31-AUG-2006 12:45
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	6.9	SU	-	1	9040B		0901 12:00	DP
Dissolved Organic Carbon	9.1	mg/l	5.0	1	9060	0911 06:45	0911 06:45	DW
Hardness	45	mg/l	1.7	1	6010B	0905 17:30	0906 17:47	MG
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 17:47	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:41	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-05
SW-2
Sample Matrix: WATER

Date Collected: 31-AUG-2006 15:30
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	7.4	SU	-	1	9040B		0901 12:00	DP
Dissolved Organic Carbon	10	mg/l	5.0	1	9060	0911 06:45	0911 06:45	DW
Hardness	46	mg/l	1.7	1	6010B	0905 17:30	0906 17:50	MG
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 17:50	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:44	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612491-06
SW-3
Sample Matrix: WATER

Date Collected: 31-AUG-2006 15:00
Date Received : 01-SEP-2006
Date Reported : 11-SEP-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
pH	7.3	SU	-	1	9040B		0901 12:00	DP
Dissolved Organic Carbon	8.9	mg/l	5.0	1	9060	0911 06:45	0911 06:45	DW
Hardness	45	mg/l	1.7	1	6010B	0905 17:30	0906 17:54	MG
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 17:54	MG
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:48	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0612491

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
pH for sample(s) 01-06 (L0612491-06, WG252001-2)					
pH	7.3	7.4	SU	1	
Dissolved Organic Carbon for sample(s) 04-06 (L0612491-04, WG252762-4)					
Dissolved Organic Carbon	9.1	9.3	mg/l	2	20
Total Metals for sample(s) 01-06 (L0612491-02, WG252222-1)					
Lead, Total	ND	ND	mg/l	NC	20
Dissolved Metals for sample(s) 01-06 (L0612491-01, WG252348-1)					
Lead, Dissolved	ND	ND	mg/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612491

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01-06 (WG252001-1)		
pH	100	
Dissolved Organic Carbon LCS for sample(s) 04-06 (WG252762-2)		
Dissolved Organic Carbon	98	90-110
Hardness LCS for sample(s) 01-06 (WG252222-4)		
Hardness	91	75-125
Total Metals LCS for sample(s) 01-06 (WG252222-4)		
Lead, Total	100	75-125
Dissolved Metals LCS for sample(s) 01-06 (WG252348-4)		
Lead, Dissolved	104	75-125
Dissolved Organic Carbon SPIKE for sample(s) 04-06 (L0612491-04, WG252762-3)		
Dissolved Organic Carbon	106	79-120
Hardness SPIKE for sample(s) 01-06 (L0612491-02, WG252222-2)		
Hardness	92	75-125
Total Metals SPIKE for sample(s) 01-06 (L0612491-02, WG252222-2)		
Lead, Total	101	75-125
Dissolved Metals SPIKE for sample(s) 01-06 (L0612491-01, WG252348-2)		
Lead, Dissolved	103	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612491

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04-06 (WG252762-1)								
Dissolved Organic Carbon	ND	mg/l	1.0	1	9060	0911 06:45	0911 06:45	DW
Blank Analysis for sample(s) 01-06 (WG252222-3)								
Hardness	ND	mg/l	1.7	1	6010B	0905 17:30	0906 13:32	MG
Blank Analysis for sample(s) 01-06 (WG252222-3)								
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0905 17:30	0906 13:32	MG
Blank Analysis for sample(s) 01-06 (WG252348-3)								
Dissolved Metals								
Lead, Dissolved	ND	mg/l	0.010	1	6010B	0906 15:25	0908 13:04	CF

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/1

ALPHA Job #: L06 1491

ALPHA WOODS HOLE LABS

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: URS Corporation
Address: 5 Industrial Way
Salem, NH 03079
Phone: 603-893-0616
Fax: 603-893-6240
Email: amy_pollock@urscorp.com

☐ These samples have been previously analyzed by Apha

Project Information

Project Name: Exeter Sportsman Club
Project Location: Exeter, NH
Project #: 39742396
Project Manager: Amy Pollock
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: NH
Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Prctocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration
☑ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Lead	Dissolved Lead	pH	Hardness	DOC	Sample Specific Comments	TOTAL # BOTTLES
2491.1	MW-1	8/31/06	13:45	GW	TLP	✓	✓	✓				2
2	MW-3	8/31/06	11:05	GW	TLP	✓	✓	✓				2
3	MW-5	8/31/06	12:00	GW	TLP	✓	✓	✓				2
4	SW-1	8/31/06	12:45	SW	TLP	✓	✓	✓	✓	✓		4
5	SW-2	8/31/06	15:30	SW	TLP	✓	✓	✓	✓	✓		4
6	SW-3	8/31/06	15:00	SW	TLP	✓	✓	✓	✓	✓		4

Container Type	P	P	P	P	V
Preservative	C	A	A	C	D

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Amy Pollock	9/1/06 1025	D. Bauch	9/1/06 10:20
D. Bauch	9/1/06 11:30	[illegible]	9/1 1130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ANALYTICAL REPORT

Prepared for:
URS
5 Industrial Way
Salem , NH 03079

Project:	Exeter Sportsman Club
ETR:	0609130
Report Date:	October 05, 2006

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

CASE NARRATIVE
Alpha Woods Hole Labs

ETR: 0609130
Project: Exeter Sportsman Club

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report meet all applicable agency and/or NELAC standards, were performed within holding time, and with appropriate quality control measures, except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

Sample preparation:

Sediment samples were dryed and sieved through # 60 sieve. All the material that passed the #60 was analyzed.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Nancy a Rose Title: Project Manager Date: 10/5/06

Sample ID Cross Reference

Client: **URS**
Project: **Exeter Sportsman Club**

Lab Code: **MA00030**
ETR: **0609130**

Lab Sample ID	Client Sample ID
0609130-01	SED-3 (0-4") through #60
0609130-02	SED-4 (0-4") through #60

Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **99.6**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **0609130-01**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**110**		0.10	5	10/02/06	10/02/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-4 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **99.3**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **0609130-02**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**1400**		1.0	50	10/02/06	10/02/06	6020A	LMR

N/A - Not Applicable

10/06/06 14:22

Blank
Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **MS100206B01B**
Concentration Units: **mg/Kg**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	0.12	U	0.12	5	10/02/06	10/02/06	6020A	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Laboratory Control Sample - High
Total Metals

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Lab Control Sample High**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **MS100206SLH01SLH**
Concentration Units: **mg/Kg**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Lead	200	102	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Matrix Spike - High
Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **99.6**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **See Below**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Lab ID:	0609130-01	0609130-01		
	Sample	**Matrix Spike**		**% Recovery**
Parameter	**Conc.**	**Conc.**	**% Recovery**	**Limits**
Lead	110	270	100	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

10/06/06 14:20

Serial Dilution
Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **99.6**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **0609130-01SD**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Sample Result	Duplicate Result	Percent Difference	Limit
Lead	110	120	3	10

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

10/06/06 14:20

Inorganics

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **65.4**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **0609130-01**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**1.3**		0.01	1	10/03/06	%	9060	GJP
Total Organic Carbon (Run 2)	**1.3**		0.01	1	10/03/06	%	9060	GJP
pH	**5.5**		N/A	1	10/03/06	S.U.	9045C	JAD
Solids, Total	**65**		0.10	1	09/29/06	%	2540B	KJB

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-4 (0-4") through #60**
Matrix: **Sediment**
Percent Solid: **46.9**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **0609130-02**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**3.0**		0.01	1	10/03/06	%	9060	GJP
Total Organic Carbon (Run 2)	**2.7**		0.01	1	10/03/06	%	9060	GJP
pH	**4.8**		N/A	1	10/03/06	S.U.	9045C	JAD
Solids, Total	**47**		0.10	1	09/29/06	%	2540B	KJB

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Blank
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **WS100306B09**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	0.01	U	0.01	1	10/03/06	%	9060	GJP
Total Organic Carbon (Run 2)	0.01	U	0.01	1	10/03/06	%	9060	GJP

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Blank
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **WS100306B10**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Solids, Total	**100**		0.10	1	09/29/06	%	2540B	KJB

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Blank
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609130**
Lab ID: **WS100306B14**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
pH	**6.7**		N/A	1	10/03/06	S.U.	9045C	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Laboratory Control Sample
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **WS100306L02**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
pH	7.4	100	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

10/05/06 18:07

Standard Reference Material 1944
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SRM 1944**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609130**

Lab ID: **WS100306L194401**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Total Organic Carbon (Run 1)	4.6	104	75-125
Total Organic Carbon (Run 2)	4.6	104	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

10/05/06 18:07

PERCENT SOLIDS - METHOD 2540G

Analyst: NAR
Date In: 10/5/2006 Time in: 11:00
Date Out: 10/5/2006 Time out: 14:00
Date Out: Time out:
Date Out: Time out:
Oven Requirement: 103-105°C

Start Temp: 103 °C
End Temp: °C 1st WEIGHING
End Temp: °C 2nd WEIGHING
End Temp: °C 3rd WEIGHING

BATCH: 100506SOLIDS
Entered by:
Verified by:
Calculation: (C-A) X 100/(B-A)

ETR #	Sample #	QC (D)	Dish #	A Mass of Dish tare wt (g)	B Mass of Dish & wet sample (g)	C - 1st Weighing Mass of Dish & dry sample (g)	D - 2nd Weighing Mass of Dish & dry sample (g)	E - 3rd Weighing Mass of Dish & dry sample (g)	% Solids	QC (RPD)
	BLANK			1.2832	1.2832	1.2832			<0.1	
0609130	-01			1.2786	2.7444	2.7388			99.6	
0609130	-01	D		1.2842	4.1197	4.1046			99.5	0.15
0609130	-02			1.2772	4.2121	4.1922			99.3	

TEMPLATE: PERCENTNEW.XLT

Duplicates should agree within +/- 10%.

1st and/or 2nd and/or 3rd weighings should agree within 4% or 50 mg

0609130

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA LAB

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab:

Client Information

Client: URS Corporation
Address: 5 Industrial Way
Solem, NH 03079
Phone: 603-893-0616
Fax: 603-893-6240
Email: amy_pollock@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Exeter Sportsman Club
Project Location: Exeter, NH
Project #: 39742396
Project Manager: Amy Pollock
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NH	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
* SED-3 and SED-4 1000ml bottles to be sieved thru 10 & 60 before analyzing for Total Pb, TOC, pH, AVS/SEM.

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	total lead	AVS/SEM	pH	TOC	Total Solids	Total Pb, TOC, pH, AVS/SEM (To be sieved thru 10 & 60)*	Sample Specific Comments	TOTAL # BOTTLES
SED-6 (0-8")	8/31/06	1630	SE	ALP	X	X	X	X				4
SED-3 (0-4")	8/31/06	17:00	SE	ALP	X	X	X	X	X			6
SED-4 (0-4")	8/31/06	17:15	SE	ALP	X	X	X	X	X			6
SED-1 (0-8")	8/31/06	17:20	SE	ALP	X	X	X	X				4
SED-2 (0-8")	8/31/06	17:30	SE	ALP	X	X	X	X				4
SED-5 (0-8")	8/31/06	17:40	SE	ALP	X	X	X	X				4

Container Type	A	A	A	P	A
Preservative	A	A	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Amy Pollock	9/1/06 1025	D. Bailey	9/1/06 10:20
D. Bailey	9/1/06 11:30	[illegible]	9/1 11:30
D. Bailey	9/1/06 13:50	[illegible]	9/1/06 12:57

FORM NO: 01-01 (rev. 10-OCT-05)

Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No. : PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No. : E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No. : 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No. : MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No. : M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No. : 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No. : MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No. : 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No. : 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

ANALYTICAL REPORT

Prepared for:
URS
5 Industrial Way
Salem , NH 03079

Project:	Exeter Sportsman Club
ETR:	0609011
Report Date:	September 22, 2006

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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Sample ID Cross Reference

Client: **URS**
Project: **Exeter Sportsman Club**

Lab Code: **MA00030**
ETR: **0609011**

Lab Sample ID	Client Sample ID
0609011-01	SED-6 (0-8")
0609011-02	SED-3 (0-4")
0609011-03	SED-4 (0-4")
0609011-04	SED-1 (0-8")
0609011-05	SED-2 (0-8")
0609011-06	SED-5 (0-8")
0609011-07	SED-3 (0-4") Thur #10 and #60
0609011-08	SED-3 (0-4") #10
0609011-09	SED-3 (0-4") #60
0609011-10	SED-4 (0-4") Thur #10 and #60
0609011-11	SED-4 (0-4") #10
0609011-12	SED-4 (0-4) #60

CASE NARRATIVE
Alpha Woods Hole Labs

ETR: 0609011
Project: Exeter Sportsman Club

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report meet all applicable agency and/or NELAC standards, were performed within holding time, and with appropriate quality control measures, except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

AVS/SEM

1. Lead: The RPD between matrix duplicates was 21% and higher than the 20% method acceptance limit indicating a non-homogeneous sample matrix with respect to this analyte.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by Nancy A Rose Title: Project Manager Date: 9/22/06

AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-6 (0-8")**
Matrix: **Sediment**
Percent Solid: **73.6**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-01**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0048	U	0.0048	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	0.043	U	0.043	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**0.028**		0.0026	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.093	U	0.093	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS		R		1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	0.17	U	0.17	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	0.083	U	0.083	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
R - Not calculated. AVS not detected.
U - The analyte was analyzed for but not detected at the sample specific level reported.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4")**
Matrix: **Sediment**
Percent Solid: **38.2**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-02**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0073	U	0.0073	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	0.065	U	0.065	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**8.4**		0.0040	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.14	U	0.14	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS	**4.0**			1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	**2.2**		0.26	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	**0.35**		0.13	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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AVS/SEM

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-4 (0-4")**
Matrix: **Sediment**
Percent Solid: **55.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-03**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0057	U	0.0057	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	**0.059**		0.050	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**0.49**		0.0031	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.11	U	0.11	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS	**0.53**			1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	**1.6**		0.20	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	**0.27**		0.097	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-1 (0-8")**
Matrix: **Sediment**
Percent Solid: **53.2**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-04**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0056	U	0.0056	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	**0.059**		0.050	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**0.16**		0.0031	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.11	U	0.11	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS		R		1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	0.20	U	0.20	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	**0.21**		0.097	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
R - Not calculated. AVS not detected.
U - The analyte was analyzed for but not detected at the sample specific level reported.

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AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-2 (0-8")**
Matrix: **Sediment**
Percent Solid: **49.3**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-05**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0060	U	0.0060	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	0.053	U	0.053	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**2.8**		0.0033	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.11	U	0.11	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS	**1.5**			1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	**2.1**		0.21	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	**0.25**		0.10	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-5 (0-8")**
Matrix: **Sediment**
Percent Solid: **70.5**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-06**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0049	U	0.0049	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	0.044	U	0.044	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	**0.12**		0.0027	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.094	U	0.094	10	09/15/06	09/14/06	AVS/SEM	LMR
SEM/AVS	**0.31**			1	09/14/06	09/14/06	AVS/SEM	LMR
Sulfide	**0.86**		0.17	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	**0.15**		0.085	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Blank
AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **MS091506B14B**
Concentration Units: **µmol/g**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Cadmium	0.0089	U	0.0089	10	09/15/06	09/14/06	AVS/SEM	LMR
Copper	0.079	U	0.079	10	09/15/06	09/14/06	AVS/SEM	LMR
Lead	0.0048	U	0.0048	10	09/15/06	09/14/06	AVS/SEM	LMR
Nickel	0.17	U	0.17	10	09/15/06	09/14/06	AVS/SEM	LMR
Sulfide	0.31	U	0.31	1	09/14/06	09/14/06	AVS/SEM	LMR
Zinc	0.15	U	0.15	10	09/15/06	09/14/06	AVS/SEM	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Laboratory Control Sample
AVS/SEM

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **MS091506L02L**
Concentration Units: **µmol/g**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Cadmium	0.22	97	80-120
Copper	0.71	90	80-120
Lead	1.2	98	80-120
Nickel	0.78	92	80-120
Sulfide	5.3	85	85-115
Zinc	3.5	92	80-120

Sulfide percent recoveries and RPD values are calculated from the reported results.

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

09/19/06 16:39

Matrix Spike
AVS/SEM

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-6 (0-8")**
Matrix: **Sediment**
Percent Solid: **73.6**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **See Below**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Lab ID:	0609011-01	0609011-01		
	Sample	**Matrix Spike**		**% Recovery**
Parameter	**Conc.**	**Conc.**	**% Recovery**	**Limits**
Cadmium	0.0048 U	0.11	90	75-125
Copper	0.043 U	0.41	92	75-125
Lead	0.028	0.66	93	75-125
Nickel	0.093 U	0.42	87	75-125
Sulfide	0.17 U	3.4	98	75-125
Zinc	0.083 U	1.9	88	75-125

Sulfide percent recoveries and RPD values are calculated from the reported results.

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

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Duplicate
AVS/SEM

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-6 (0-8")**
Matrix: **Sediment**
Percent Solid: **73.6**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-01D**
Concentration Units: **µmol/g**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Sample Result	Duplicate Result	Percent RPD	Percent Limit
Cadmium	0.0048 U	0.0052 U	N/A	20
Copper	0.043 U	**0.051**	X	20
Lead	**0.028**	**0.034**	21¤	20
Nickel	0.093 U	0.099 U	N/A	20
Sulfide	0.17 U	0.18 U	N/A	20
Zinc	0.083 U	0.089 U	N/A	20

Sulfide RPD value reported based on the calculated result.

N/A - Not Applicable
¤ - Duplicate outside control limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
X - It is not possible to calculate RPD, one result is below the detection limit, the other is above reporting limit.

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

09/19/06 16:19

Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-6 (0-8")**
Matrix: **Sediment**
Percent Solid: **73.6**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-01**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**19**		0.11	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4")**
Matrix: **Sediment**
Percent Solid: **38.2**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-02**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**2300**		0.38	10	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-4 (0-4")**
Matrix: **Sediment**
Percent Solid: **55.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-03**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**130**		0.14	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-1 (0-8")**
Matrix: **Sediment**
Percent Solid: **53.2**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-04**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**51**		0.14	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-2 (0-8")**
Matrix: **Sediment**
Percent Solid: **49.3**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-05**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**540**		0.15	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-5 (0-8")**
Matrix: **Sediment**
Percent Solid: **70.5**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-06**
Concentration Units: **mg/Kg**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	**17**		0.11	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable

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Blank
Total Metals

ALPHA WOODS HOLE LABS

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **MS090806B11B**
Concentration Units: **mg/Kg**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Date Prepared	Analytical Method	Analyst
Lead	0.12	U	0.12	5	09/18/06	09/15/06	6020A	LMR

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Laboratory Control Sample - High
Total Metals

Client: **URS**
Project: **Exeter Sportsman Club**
Case: N/A SDG: N/A
Client ID: **Lab Control Sample High**
Matrix: **Sediment**
Percent Solid: **100.0**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **MS090806SLH01SLH**
Concentration Units: **mg/Kg**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Lead	200	99	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

09/19/06 19:27

Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-6 (0-8")**
Matrix: **Sediment**
Percent Solid: **73.6**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **0609011-01**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**0.91**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**0.92**		0.01	1	09/19/06	%	9060	JAD
pH	**6.4**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-3 (0-4")**
Matrix: **Sediment**
Percent Solid: **38.2**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **0609011-02**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**4.3**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**4.4**		0.01	1	09/19/06	%	9060	JAD
pH	**5.8**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-4 (0-4")**
Matrix: **Sediment**
Percent Solid: **55.0**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **0609011-03**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**2.1**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**2.1**		0.01	1	09/19/06	%	9060	JAD
pH	**6.4**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-1 (0-8")**
Matrix: **Sediment**
Percent Solid: **53.2**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **0609011-04**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**3.4**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**3.2**		0.01	1	09/19/06	%	9060	JAD
pH	**6.1**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-2 (0-8")**
Matrix: **Sediment**
Percent Solid: **49.3**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-05**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**3.6**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**3.8**		0.01	1	09/19/06	%	9060	JAD
pH	**6.3**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-5 (0-8")**
Matrix: **Sediment**
Percent Solid: **70.5**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-06**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**0.77**		0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	**0.76**		0.01	1	09/19/06	%	9060	JAD
pH	**6.7**		N/A	1	09/19/06	S.U.	9045C	JAD

N/A - Not Applicable

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Blank
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **WS091906B17**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	0.01	U	0.01	1	09/19/06	%	9060	JAD
Total Organic Carbon (Run 2)	0.01	U	0.01	1	09/19/06	%	9060	JAD

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Standard Reference Material 1944
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SRM 1944**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **WS091906L194401**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Total Organic Carbon (Run 1)	4.4	100	75-125
Total Organic Carbon (Run 2)	4.4	100	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

09/21/06 10:02

Laboratory Control Sample
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Sediment**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **WS092006L04**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
pH	7.4	100	80-120

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

09/21/06 10:02

Matrix Spike
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-5 (0-8")**
Matrix: **Sediment**
Percent Solid: **70.5**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **See Below**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Lab ID:	0609011-06		0609011-06		
Parameter	**Sample Conc.**	**Unit**	**Matrix Spike Conc.**	**% Recovery**	**% Recovery Limits**
Total Organic Carbon (Run 1)	0.77	%	2.1	94	75-125
Total Organic Carbon (Run 2)	0.76	%	2.0	92	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

09/21/06 10:02

Duplicate
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-2 (0-8")**
Matrix: **Sediment**
Percent Solid: **49.3**

Lab Code: **MA00030**
ETR: **0609011**

Lab ID: **0609011-05 D**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Sample Result	Duplicate Result	Unit	Percent RPD	RPD Limit
pH	6.3	6.4	S.U.	1	20

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

09/21/06 10:02

Duplicate
Inorganics

Client: **URS**
Project: **Exeter Sportsman Club**
Case: **N/A** SDG: **N/A**
Client ID: **SED-5 (0-8")**
Matrix: **Sediment**
Percent Solid: **70.5**

Lab Code: **MA00030**
ETR: **0609011**
Lab ID: **0609011-06 D**
Date Collected: **08/31/06**
Date Received: **09/01/06**

Parameter	Sample Result	Duplicate Result	Unit	Percent RPD	RPD Limit
Total Organic Carbon (Run 1)	**0.77**	**0.73**	%	5	20
Total Organic Carbon (Run 2)	**0.76**	**0.85**	%	11	20

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. RPD values are reported based on the unrounded calculated result.

09/21/06 10:02

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA LAB

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: 06090111

Client Information

Client: URS Corporation

Address: 5 Industrial Way, Salem, NH 03079

Phone: 603-893-0616

Fax: 603-893-6240

Email: amy_pollock@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Exeter Sportsman Club

Project Location: Exeter, NH

Project #: 39742396

Project Manager: Amy Pollock

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NH	

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

* SED-3 and SED-9 1000ml bottles to be sieved thru 10 & 60 before analyzing for Total Pb, TOC, pH, AVS/SEM.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total lead	pH	AVS/SEM	TOC	Total Solids	Total Pb, TOC, pH, AVS/SEM to be sieved thru 10 & 60	Sample Specific Comments	TOTAL # BOTTLES
-1	SED-6 (0-8")	8/31/06	1630	SE	ALP	X	X	X	X				4
-2	SED-3 (0-4")	8/31/06	17:00	SE	ALP	X	X	X	X	X			6
-3	SED-4 (0-4")	8/31/06	17:15	SE	ALP	X	X	X	X	X			6
-4	SED-1 (0-8")	8/31/06	17:20	SE	ALP	X	X	X	X				4
-5	SED-2 (0-8")	8/31/06	17:30	SE	ALP	X	X	X	X				4
-6	SED-5 (0-8")	8/31/06	17:40	SE	ALP	X	X	X	X				4

SAMPLE HANDLING

Filtration: ☐ Done ☐ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

Container Type	A	A	A	P	A
Preservative	A	A	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Amy Pollock	9/1/06 1025	D. Barka	9/1/06 10:20
D. Barka	9/1/06 11:30	[illegible]	9/1 11:30
D. Barka	9/1/06 13:50	[illegible]	9/1/06 13:50

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

Sample Receipt Checklist

Client: URS		**Receipt Date:** 9/1/06	
Project: EXETER SPORTSMAN		**Log-in Date:** 9/5/06	
ETR #: 0609011		**Inspection by:** NW	**Login by:** NW

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other:_____
(No, WHG Courier pick-up) / Hand delivered

Is bill of lading retained? Yes, Tracking #:_____
No, Unavailable / (NA)

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 3° IR Gun, 3.5° Temp. Blank, / NA

Were samples received on ice? (Yes) / No

Chain-of-Custody present? (Yes) / No
Complete? (Yes) / No

Custody seals present on Cooler? Yes / (No)
on Bottles? Yes / (No)
Intact? Yes / No / (NA)
Note: Affix custody seals to back of this page.

Were sample containers intact? (Yes) / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No / (NA) If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / (NA)
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
(Yes) / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / No / (NA)
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO (NA)
If No, why?:

Were samples received within hold time? (Yes) / No If No, list samples: →

Discrepancy between samples rec'd & COC ? Yes / (No) If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: Nancy a Rose. Date: 9-6-06

Sample storage refrigerator #: F1

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____
Cooler 4:_____ Cooler 5:_____
Cooler 6:_____ Cooler 7:_____

More:_____

Chemical preservation OK for ALL samples?
Yes / No / (N/A)

If No, list samples below:

Please use back for any additional notes!

Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No. : PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No. : E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No. : 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No. : MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No. : M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No. : 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No. : MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No. : 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No. : 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: URS Corporation

Address: 5 Industrial Way

Salem, NH 03079

Attn: Ms. Amy Pollock

Project Number: 39742396

Site: EXETER SPORTSMAN CLUB

Laboratory Job Number: L0612496

Date Received: 01-SEP-2006

Date Reported: 06-OCT-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0612496-01	O-4 (0-6")	EXETER, NH
L0612496-02	O-8 (9-15") SIEVED	EXETER, NH
L0612496-03	P-6 (0-6") SIEVED	EXETER, NH
L0612496-04	Q-9 (0-6") SIEVED	EXETER, NH
L0612496-05	R-5 (0-6")	EXETER, NH
L0612496-06	S-9 (0-6")	EXETER, NH
L0612496-07	BKG-1 (0-6")	EXETER, NH
L0612496-08	T-7 (0-6") SIEVED	EXETER, NH
L0612496-09	SPLP EXT OF O-4 (0-6")	EXETER, NH
L0612496-10	SPLP EXT OF SIEVED O-8 (9-15")	EXETER, NH
L0612496-11	SPLP EXT OF SIEVED P-6 (0-6")	EXETER, NH
L0612496-12	SPLP EXT OF SIEVED Q-9 (0-6")	EXETER, NH
L0612496-13	SPLP EXT OF R-5 (0-6")	EXETER, NH
L0612496-14	SPLP EXT OF S-9 (0-6")	EXETER, NH
L0612496-15	SPLP EXT OF BKG-1 (0-6")	EXETER, NH
L0612496-16	SPLP EXT OF SIEVED T-7 (0-6")	EXETER, NH
L0612496-17	O-8 (9-15") NON-SIEVED	EXETER, NH
L0612496-18	P-6 (0-6") NON-SIEVED	EXETER, NH
L0612496-19	Q-9 (0-6") NON-SIEVED	EXETER, NH
L0612496-20	T-7 (0-6") NON-SIEVED	EXETER, NH
L0612496-21	SPLP OF O-8 (9-15") NON-SIEVED	EXETER, NH
L0612496-22	SPLP OF P-6 (0-6") NON-SIEVED	EXETER, NH
L0612496-23	SPLP OF Q-9 (0-6") NON-SIEVED	EXETER, NH
L0612496-24	SPLP OF T-7 (0-6") NON-SIEVED	EXETER, NH

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0612496

Report Submission

This report replaces the report issued September 20, 2006. On L0612496-02, -03, -04, and -08, the Total Solids results have been amended and the Total Lead results recalculated based on these new results.

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-01
O-4 (0-6")
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 10:00
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	53	%	0.10	30	2540G		0905 12:35	PD
pH	3.7	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	15	%	0.01					
Total Organic Carbon (Rep2)	17	%	0.01					
Total Metals				1	3051			
Lead, Total	6000	mg/kg	3.8	1	6010B	0913 17:30	0915 02:26	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-02
O-8 (9-15") SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 10:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	97	%	0.10	30	2540G		1006 14:30	PD
pH	4.9	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	1.2	%	0.01					
Total Organic Carbon (Rep2)	1.1	%	0.01					
Total Metals				1	3051			
Lead, Total	72	mg/kg	2.0	1	6010B	0913 17:30	0915 02:36	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-03
P-6 (0-6") SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 10:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	96	%	0.10	30	2540G		1006 14:30	PD
pH	4.6	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	5.1	%	0.01					
Total Organic Carbon (Rep2)	5.3	%	0.01					
Total Metals				1	3051			
Lead, Total	4000	mg/kg	2.0	1	6010B	0913 17:30	0915 03:19	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-04
Q-9 (0-6") SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	94	%	0.10	30	2540G		1006 14:30	PD
pH	4.6	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	6.1	%	0.01					
Total Organic Carbon (Rep2)	5.8	%	0.01					
Total Metals				1	3051			
Lead, Total	650	mg/kg	2.1	1	6010B	0913 17:30	0915 03:24	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-05
R-5 (0-6")
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	46	%	0.10	30	2540G		0905 12:35	PD
pH	3.4	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	4.5	%	0.01					
Total Organic Carbon (Rep2)	5.3	%	0.01					
Total Metals				1	3051			
Lead, Total	3000	mg/kg	4.3	1	6010B	0913 17:30	0915 03:28	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-06
S-9 (0-6")
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:00
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	39	%	0.10	30	2540G		0905 12:35	PD
pH	4.1	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	14	%	0.01					
Total Organic Carbon (Rep2)	14	%	0.01					
Total Metals				1	3051			
Lead, Total	460	mg/kg	5.1	1	6010B	0913 17:30	0915 03:33	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-07
BKG-1 (0-6")
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:15
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	70	%	0.10	30	2540G		0905 12:35	PD
pH	4.1	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	7.5	%	0.01					
Total Organic Carbon (Rep2)	7.5	%	0.01					
Total Metals				1	3051			
Lead, Total	140	mg/kg	2.8	1	6010B	0913 17:30	0915 03:38	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-08
T-7 (0-6") SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:40
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	95	%	0.10	30	2540G		1006 14:30	PD
pH	4.4	SU	-	1	9045C		0906 21:00	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	7.5	%	0.01					
Total Organic Carbon (Rep2)	7.6	%	0.01					
Total Metals				1	3051			
Lead, Total	480	mg/kg	2.1	1	6010B	0913 17:30	0915 03:42	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-09
SPLP EXT OF O-4 (0-6")
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 10:00
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 06-SEP-06 19:00

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.256	mg/l	0.010	1	6010B	0907 19:40	0908 10:37	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-10 SPLP EXT OF SIEVED O-8 (9-15
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 10:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 12-SEP-06 18:30

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0913 17:30	0914 12:59	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-11 SPLP EXT OF SIEVED P-6 (0-6"
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 10:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 12-SEP-06 18:30

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	1.12	mg/l	0.010	1	6010B	0913 17:30	0914 13:02	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-12 SPLP EXT OF SIEVED Q-9 (0-6"
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 11:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 12-SEP-06 18:30

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.132	mg/l	0.010	1	6010B	0913 17:30	0914 13:06	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-13
SPLP EXT OF R-5 (0-6")
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 11:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 06-SEP-06 19:00

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.589	mg/l	0.010	1	6010B	0907 19:40	0908 10:53	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-14
SPLP EXT OF S-9 (0-6")
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 11:00
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 06-SEP-06 19:00

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.034	mg/l	0.010	1	6010B	0907 19:40	0908 10:57	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-15
SPLP EXT OF BKG-1 (0-6")
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 11:15
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 06-SEP-06 19:00

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.016	mg/l	0.010	1	6010B	0907 19:40	0908 11:00	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-16 SPLP EXT OF SIEVED T-7 (0-6"
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 11:40
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

Comments:
extracted on 12-SEP-06 18:30

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.206	mg/l	0.010	1	6010B	0913 17:30	0914 13:10	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-17
O-8 (9-15") NON-SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 10:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	79	%	0.10	30	2540G		0905 12:35	PD
pH	4.8	SU	-	1	9045C		0919 18:35	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	0.83	%	0.01					
Total Organic Carbon (Rep2)	0.82	%	0.01					
Total Metals				1	3051			
Lead, Total	66	mg/kg	2.5	1	6010B	0919 14:20	0920 11:47	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-18
P-6 (0-6") NON-SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 10:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	68	%	0.10	30	2540G		0905 12:35	PD
pH	4.7	SU	-	1	9045C		0919 18:35	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	5.1	%	0.01					
Total Organic Carbon (Rep2)	4.2	%	0.01					
Total Metals				1	3051			
Lead, Total	3900	mg/kg	2.9	1	6010B	0919 14:20	0920 12:18	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-19
Q-9 (0-6") NON-SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	66	%	0.10	30	2540G		0905 12:35	PD
pH	4.6	SU	-	1	9045C		0919 18:35	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	6.2	%	0.01					
Total Organic Carbon (Rep2)	5.7	%	0.01					
Total Metals				1	3051			
Lead, Total	1500	mg/kg	3.0	1	6010B	0919 14:20	0920 12:22	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-20
T-7 (0-6") NON-SIEVED
Sample Matrix: SOIL

Date Collected: 31-AUG-2006 11:40
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total	71	%	0.10	30	2540G		0905 12:35	PD
pH	4.3	SU	-	1	9045C		0919 18:35	DP
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	4.8	%	0.01					
Total Organic Carbon (Rep2)	5.2	%	0.01					
Total Metals				1	3051			
Lead, Total	320	mg/kg	2.8	1	6010B	0919 14:20	0920 12:25	CF

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-21 SPLP OF O-8 (9-15") NON-SIEV
Sample Matrix: LIQUID
Date Collected: 31-AUG-2006 10:10
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory
Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0919 19:20	0920 10:38	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-22 SPLP OF P-6 (0-6") NON-SIEVE
Sample Matrix: LIQUID

Date Collected: 31-AUG-2006 10:30
Date Received : 01-SEP-2006
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.380	mg/l	0.010	1	6010B	0919 19:20	0920 10:48	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-23 SPLP OF Q-9 (0-6") NON-SIEVE
Date Collected: 31-AUG-2006 11:30
Date Received : 01-SEP-2006
Sample Matrix: LIQUID
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory
Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.026	mg/l	0.010	1	6010B	0919 19:20	0920 10:51	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0612496-24 SPLP OF T-7 (0-6") NON-SIEVE
Date Collected: 31-AUG-2006 11:40
Date Received : 01-SEP-2006
Sample Matrix: LIQUID
Date Reported : 06-OCT-2006

Condition of Sample: Satisfactory
Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Total Metals				1	3015			
Lead, Total	0.030	mg/l	0.010	1	6010B	0919 19:20	0920 11:02	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0612496

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01,05-07 (L0612479-06, WG252150-1)					
Solids, Total	76	76	%	0	20
Solids, Total for sample(s) 17-20 (L0612562-17, WG253665-1)					
Solids, Total	76	76	%	0	20
Solids, Total for sample(s) 02-04,08 (L0612496-02, WG256055-1)					
Solids, Total	97	97	%	0	20
pH for sample(s) 01-08 (L0612526-18, WG252404-2)					
pH	7.7	7.7	SU	0	
pH for sample(s) 17-20 (L0613209-01, WG253871-2)					
pH	5.6	5.6	SU	0	
Total Metals for sample(s) 17-20 (L0612496-17, WG253881-1)					
Lead, Total	66	62	mg/kg	6	35
Total Metals for sample(s) 09,13-15 (L0612669-01, WG252527-1)					
Lead, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 10-12,16 (L0612930-01, WG253136-1)					
Lead, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-08 (L0612496-02, WG253197-1)					
Lead, Total	72	88	mg/kg	0	35
Total Metals for sample(s) 21-24 (L0612496-21, WG253863-1)					
Lead, Total	ND	ND	mg/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0612496

Parameter	% Recovery	QC Criteria
pH LCS for sample(s) 01-08 (WG252404-1)		
pH	100	
pH LCS for sample(s) 17-20 (WG253871-1)		
pH	100	
Subcontracted Analysis LCS for sample(s) 01-08,17-20 (WG253750-2)		
Total Organic Carbon (Rep1)	91	75-125
Total Organic Carbon (Rep2)	92	75-125
Total Metals LCS for sample(s) 17-20 (WG253881-4)		
Lead, Total	99	70-140
Total Metals LCS for sample(s) 09,13-15 (WG252527-4)		
Lead, Total	103	75-125
Total Metals LCS for sample(s) 10-12,16 (WG253136-4)		
Lead, Total	101	75-125
Total Metals LCS for sample(s) 01-08 (WG253197-4)		
Lead, Total	98	70-140
Total Metals LCS for sample(s) 21-24 (WG253863-4)		
Lead, Total	102	75-125
Total Metals SPIKE for sample(s) 17-20 (L0612496-17, WG253881-2)		
Lead, Total	62	70-140
Total Metals SPIKE for sample(s) 09,13-15 (L0612669-01, WG252527-2)		
Lead, Total	103	75-125
Total Metals SPIKE for sample(s) 10-12,16 (L0612930-01, WG253136-2)		
Lead, Total	101	75-125
Total Metals SPIKE for sample(s) 01-08 (L0612496-02, WG253197-2)		
Lead, Total	86	70-140
Total Metals SPIKE for sample(s) 21-24 (L0612496-21, WG253863-2)		
Lead, Total	100	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0612496

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-08,17-20 (WG253750-1)								
Subcontracted Analysis				1	9060		0918 16:00	JA
Total Organic Carbon (Rep1)	ND	%	0.01					
Total Organic Carbon (Rep2)	ND	%	0.01					
Blank Analysis for sample(s) 17-20 (WG253881-3)								
Total Metals				1	3051			
Lead, Total	ND	mg/kg	2.0	1	6010B	0919 14:20	0920 11:37	CF
Blank Analysis for sample(s) 09,13-15 (WG252527-3)								
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0907 19:40	0908 10:30	CF
Blank Analysis for sample(s) 10-12,16 (WG253136-3)								
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0913 17:30	0914 12:36	MG
Blank Analysis for sample(s) 01-08 (WG253197-3)								
Total Metals				1	3051			
Lead, Total	ND	mg/kg	2.0	1	6010B	0913 17:30	0915 12:10	CF
Blank Analysis for sample(s) 21-24 (WG253863-3)								
Total Metals				1	3015			
Lead, Total	ND	mg/l	0.010	1	6010B	0919 19:20	0920 10:31	MG

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ANALYTICAL REPORT

Prepared for:
Alpha Woods Hole Labs - Westborough
8 Walkup Drive
Westborough, MA 01581

Project:	L0612496
ETR:	0609044
Report Date:	September 19, 2006

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Sample ID Cross Reference

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**

Lab Code: **MA00030**
ETR: **0609044**

Lab Sample ID	Client Sample ID
0609044-01	O-4 (0-6")
0609044-02	O-18 (9-15") sieved
0609044-03	P-6 (0-6")sieved
0609044-04	Q-9 (0-6") sieved
0609044-05	R-5 (0-6")
0609044-06	S-9 (0-6")
0609044-07	BKG-1 (0-6")
0609044-08	T-7 (0-6") sieved
0609044-09	O-18 (9-15")
0609044-10	P-6 (0-6")
0609044-11	Q-9 (0-6")
0609044-12	T-7 (0-6")

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

CASE NARRATIVE
Alpha Woods Hole Labs

ETR: 0609044
Project: L0612496

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Nancy A Rose Title: Project Manager Date: 9/19/06

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **O-4 (0-6")**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-01**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**15**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**17**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **O-18 (9-15") sieved**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-02**
Date Collected: **08/31/06**
Date Received: **09/11/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**1.2**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**1.1**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **P-6 (0-6")sieved**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-03**
Date Collected: **08/31/06**
Date Received: **09/11/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**5.1**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**5.3**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **Q-9 (0-6") sieved**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**

Lab ID: **0609044-04**
Date Collected: **08/31/06**
Date Received: **09/11/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**6.1**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**5.8**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **R-5 (0-6")**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-05**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**4.5**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**5.3**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **S-9 (0-6")**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-06**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**14**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**14**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **BKG-1 (0-6")**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-07**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**7.5**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**7.5**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **T-7 (0-6") sieved**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**

Lab ID: **0609044-08**
Date Collected: **08/31/06**
Date Received: **09/11/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**7.5**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**7.6**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **O-18 (9-15")**
Matrix: **Soil**
Percent Solid: **N/A**

Lab Code: **MA00030**
ETR: **0609044**

Lab ID: **0609044-09**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**0.83**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**0.82**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **P-6 (0-6")**
Matrix: **Soil**
Percent Solid: **N/A**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-10**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**5.1**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**4.2**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **Q-9 (0-6")**
Matrix: **Soil**
Percent Solid: **N/A**

Lab Code: **MA00030**
ETR: **0609044**

Lab ID: **0609044-11**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**6.2**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**5.7**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form I
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **T-7 (0-6")**
Matrix: **Soil**
Percent Solid: **N/A**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **0609044-12**
Date Collected: **08/31/06**
Date Received: **09/05/06**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	**4.8**		0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	**5.2**		0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form III
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **Blank**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **WS091806B09**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Result	Qualifier	Reporting Limit	Dilution	Date Analyzed	Unit	Analytical Method	Analyst
Total Organic Carbon (Run 1)	0.01	U	0.01	1	09/18/06	%	9060	JAD
Total Organic Carbon (Run 2)	0.01	U	0.01	1	09/18/06	%	9060	JAD

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

Form VII
Standard Reference Material 1944
Inorganics

Client: **Alpha Woods Hole Labs - Westborough**
Project: **L0612496**
Case: **N/A** SDG: **N/A**
Client ID: **SRM 1944**
Matrix: **Soil**
Percent Solid: **100**

Lab Code: **MA00030**
ETR: **0609044**
Lab ID: **WS091806L194401**
Date Collected: **N/A**
Date Received: **N/A**

Parameter	Conc.	% Recovery	% Recovery Limits
Total Organic Carbon (Run 1)	4.0	91	75-125
Total Organic Carbon (Run 2)	4.0	92	75-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded results.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

RAYNHAM

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/1

ALPHA Job #: 2061249 6

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: URS Corporation
Address: 5 Industrial Way
Salem, NH 03079
Phone: 603-893-0616
Fax: 603-893-6240
Email: amy_pollock@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Exeter Sportsman Club
Project Location: Exeter, NH
Project #: 39742396
Project Manager: Amy Pollock
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/11 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA	S-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
*Q-8, P-6, Q-9, T-7 1000 ml bottles to be sieved thru 10x60 before analyzing for total & SPLP Pb, TOC, and pH.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total & SPLP Lead, pH	TOC	Total Solids	Total & SPLP Pb, TOC, pH (to be sieved thru 10x60)*	Sample Specific Comments	Total # Bottles
2496.1	O-4 (0-6")	8/31/06	10:00	S	ALB	X	X	X			3
2	O-8 (9-15")		10:10			X	X	X	X		5
3	P-6 (0-6")		10:30			X	X	X	X		5
4	Q-9 (0-6")		11:30			X	X	X	X		5
5	R-5 (0-6")		11:10			X	X	X			3
6	S-9 (0-6")		11:00			X	X	X			3
7	BKG-1 (0-6")		11:15			X	X	X			3
8	T-7 (0-6")		11:40			X	X	X	X		5
9											
10											

No sieved samples for TOC's NM 9/8/06 Approved. Per Mary Anne

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	A	A	P	A
Preservative	A	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Amy Pollock	9/1/06 10:25	D. Barnes	9/1/06 10:20
D. Barnes	9/1/06 11:30	[illegible]	9/1 1130
[illegible]	9/5/06	[illegible]	9/5/06 1150

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No. : PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No. : E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No. : 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No. : MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No. : M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No. : 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No. : MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No. : 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No. : 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 9/1

ALPHA Job #: 20612496

ALPHA Woods Hole Labs
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: URS Corporation
Address: 5 Industrial Way
Salem, NH 03079
Phone: 603-893-0616
Fax: 603-893-6240
Email: amy_pollock@urscorp.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Exeter Sportsman Club
Project Location: Exeter, NH
Project #: 39742396
Project Manager: Amy Pollock
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/30 ~~9/11~~ Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NH	S-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
*Q-8, P-6, Q-9, T-7 1000 ml bottles to be sieved thru 10x60 before analyzing for total & SPLP Pb, TOC, and pH.

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total & SPLP Lead, pH	TOC	Total Solids	Total & SPLP Pb, TOC, pH (to be sieved thru 10x60)*	Sample Specific Comments	TOTAL # BOTTLES
2496.1	O-4 (0-6")	8/31/06	10:00	S	ALB	X	X	X			3
2	O-8 (9-15")		10:10			X	X	X	X		5
3	P-6 (0-6")		10:30			X	X	X	X		5
4	Q-9 (0-6")		11:30			X	X	X	X		5
5	R-5 (0-6")		11:10			X	X	X			3
6	S-9 (0-6")		11:00			X	X	X			3
7	BKG-1 (0-6")		11:15			X	X	X			3
8	T-7 (0-6")		11:40			X	X	X	X		5

Cortainer Type	A	A	P	A
Preservative	A	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Amy Pollock	9/1/06 10:25	D. Barnes	9/1/06 10:20
D. Barnes	9/1/06 11:30		9/1 11:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE OF

ALPHA ANALYTICAL LABS

Eight Walk Up Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 9/1

ALPHA Job #: L0612496

Client Information

Client: URS - NH
Address:
Phone:
Fax:
Email:
☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name:
Project Location:
Project #: 39724 2396
Project Manager:
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ Rush (ONLY IF PRE-APPROVED)
Due Date: ~~9/11~~ 9/20 Time:

Report Information

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Data Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program | Criteria

MCP PRESUMPTIVE CERTAINTY-THESE QUESTIONS MUST BE ANSWERED

☐ Yes	☐ No	Are MCP Analytical Methods Required?
☐ Yes	☐ No	Are Drinking Water Samples Submitted?
☐ Yes	☐ No	Have you met minimum field QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SPLP 26	SPLP	SPLP	SPLP	SPLP	SPLP	SPLP	SPLP	SPLP	SPLP	SPLP RCRA8	SPLP PP13	Sample Specific Comments	TOTAL # BOTTLES
2496-9	SPLP OF O-4 (0-6")	8/31	1000	SOIL		✓													
10	O-8 (9-15")		1010																
11	P-6 (0-6")		1030																
12	Q-9 (0-6")		1130																
13	R-5 (0-6")		1110																
14	S-9 (0-6")		1120																
15	BKG-1 (0-6")		1115																
16	T-7 (0-6")		1140			✓													

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	
Preservative	A	A	A	A	A	A	A	A	A	A	A	A	

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		[signature]	9/1 1130

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

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CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/1/06

ALPHA Job #: L0612496

Client Information

Client: URS-NH

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Exeter Sportsmas Club

Project Location: Exeter NH

Project #: 39742396

Project Manager: Amy Pollock

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 9/20/06 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

this COC filled out by Alpha Staff

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: Total Lead	PH	TOC	SPLP Lead	Sample Specific Comments	TOTAL # BOTTLES
2496.17	O-8 (9-15") Non Sieved	8/31/06	1010	S		X	X	X			
.18	P-6 (0-6") Non Sieved		1030	S		X	X	X			
.19	Q9 (0-6") Non Sieved		1130	S		X	X	X			
.20	T-7 (0-6") Non Sieved		1140	S		X	X	X			
.21	SPLP of O-8 (9-15") Non Sieved		1010						X		
.22	SPLP of P-6 (0-6") Non Sieved		1030						X		
.23	SPLP of Q9 (0-6") Non Sieved		1130						X		
.24	SPLP of T-7 (0-6" Non Sieved		1140						X		

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type

Preservative

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		Kim L Bailey	9/1/06 1600

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)