FINAL

SITE INSPECTION REPORT FORT INDIANTOWN GAP, PENNSYLVANIA

MILITARY MUNITIONS RESPONSE PROGRAM

SEPTEMBER 2008

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MILITARY MUNITIONS RESPONSE PROGRAM

DoD Contract Number: W912DR-06-C-0028, Order No. 0001AC

Reviewed and Approved by:

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SEPTEMBER 2008

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LIST OF ACRONYMS

ACRONYM	DEFINITION
°F	Degrees Fahrenheit
AEDB-R	Army Environmental Database-Restoration
AMEC	AMEC Earth and Environmental, Inc.
As	Arsenic
ASR	Archive Search Report
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CSM	Conceptual Site Model
CTC	Cost to Complete
CTT	Closed, Transferring, and Transferred
Cu	Copper
DMM	Discarded Military Munitions
DoD	Department of Defense
EPA	U.S. Environmental Protection Agency
Fe	Iron
FUDS	Formerly Used Defense Sites
gpm	Gallons Per Minute
GW	Groundwater
HMX	High Melting Explosive/Cyclotetramethylene-Tetranitramine
HRR	Historical Records Review
IGMR	Indiantown Gap Military Reservation
MAAF	Muir Army Airfield
MC	Munitions Constituents
MD	Munitions Debris
MDL	Method Detection Limit
MEC	Munitions and Explosives of Concern
µg/L	Microgram per Liter
Mg	Magnesium
mg/kg	Milligram per Kilogram
mg/L	Milligram per Liter
MMRP	Military Munitions Response Program
MRL	Method Reporting Limit
MRS	Munitions Response Site

ACRONYM	DEFINITION
MRSPP	Munitions Response Site Prioritization Protocol
MSL	Mean Sea Level
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFA	No Further Action
NRHP	National Register of Historic Places
OGDEN	Ogden Environmental and Energy Services Company, Inc.
PA	Preliminary Assessment
PAARNG	Pennsylvania Army National Guard
PADEP	Pennsylvania Department of Environmental Protection
PADER	Pennsylvania Department of Environmental Resources
Pb	Lead
QC	Quality Control
RBC	Risk-Based Concentration
RDX	Royal Demolition Explosive/Cyclotrimethylenetrinitramine
RI/FS	Remedial Investigation/Feasibility Study
ROE	Right-of-entry
Sb	Antimony
SI	Site Inspection
Sn	Tin
Sr	Strontium
SSL	Soil Screening Level
STARC-PA	State Area Command of Pennsylvania
TNT	Trinitrotoluene
TPP	Technical Project Planning
UCL	Upper Confidence Limit
U.S.	United States
USACE	U.S. Army Corps of Engineers
U.S.C.	United States Code
USGS	U.S. Geological Survey
UXO	Unexploded Ordnance
WWI	World War I
WWII	World War II
Zn	Zinc

GLOSSARY OF TERMS

Closed Range – A military range that has been taken out of service as a range and that either has been put to new uses that are incompatible with range activities or is not considered by the military to be a potential range area. A closed range is still under the control of a Department of Defense (DoD) component.

Defense Site – All locations that were owned by, leased to, or otherwise possessed or used by the DoD. The term does not include any operational range, operating storage or manufacturing facility, or facility that is used or was permitted for the treatment or disposal of military munitions.

Discarded Military Munitions (DMM) – Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance (UXO), military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations.

Explosive Ordnance Disposal – The detection, identification, on-site evaluation, rendering safe, recovery, and final disposal of unexploded ordnance by a military response unit. It may also include explosive ordnance that has become hazardous by damage or deterioration.

Explosives Safety – A condition where operational capability and readiness, personnel, property, and the environment are protected from unacceptable effects of an ammunition or explosives mishap.

Formerly Used Defense Site (FUDS) – A DoD program that focuses on compliance and cleanup efforts at sites that were formerly used by the DoD. A FUDS property is eligible for the Military Munitions Response Program if the release occurred prior to October 17, 1986; the property was transferred from DoD control prior to October 17, 1986; and the property or project meets other FUDS eligibility criteria.

Military Munitions – All ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the DoD, the U.S. Coast Guard, the U.S. Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes and incendiaries, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and

dispensers, demolition charges, and devices and components of the above. The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, other than non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitation operations under the Atomic Energy Act of 1954 have been completed.

Munitions and Explosives of Concern (MEC) – This term, which distinguishes specific categories of military munitions that may pose unique explosives safety risks, means unexploded ordnance, DMM, or munitions constituents (e.g., Trinitrotoluene [TNT] or Cyclotrimethylenetrinitramine [RDX]) present in high enough concentrations to pose an explosive hazard.

Munitions Constituents (MC) – Any materials originating from unexploded ordnance, DMM, or other military munitions, including explosive and non-explosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions.

Operational Range – A range that is under the jurisdiction, custody, or control of the Secretary of Defense and that is used for range activities; or although not currently being used for range activities, that is still considered by the Secretary to be a range and has not been put to a new use that is incompatible with range activities (10 U.S.C. 101(e)(3)(A) and (B)). Also includes "military range," "active range," and "inactive range" as those terms are defined in 40 CFR §266.201 (See reference (f)).

Other than Operational Range – Includes all property that is under jurisdiction, custody, or control of the Secretary of Defense that is not defined as an Operational Range.

Range – A designated land or water area set aside, managed, and used for range activities of the DoD. Ranges include firing lines and positions, maneuver areas, firing lanes, test pads, detonation pads, impact areas, electronic scoring sites, buffer zones with restricted access and exclusionary areas, and airspace areas designated for military use in accordance with regulations and procedures prescribed by the Administrator of the Federal Aviation Administration.

Transferred Range – A range that is no longer under military control and had been leased by the DoD, transferred, or returned from the DoD to another entity, including federal entities. This includes a military range that was used under the terms of an executive order, special-use permit or authorization, right-of-way, public land order, or other instrument issued by the federal land manager. Additionally, property that was previously used by the military as a range, but did not have a formal use agreement, also qualifies as a transferred range.

Transferring Range – A range that is proposed to be leased, transferred, or returned from the DoD to another entity, including federal entities. This includes a military range that was used under the terms of a withdrawal, executive order, special-use permit or authorization, right-of-way, public land order, or other instrument issued by the federal land manager or property owner. An active range will not be considered a transferring range until the transfer is imminent (generally defined as the transfer date is within 12 months and a receiving entity has been notified).

Unexploded Ordnance (UXO) – Military munitions that have been primed, fuzed, armed, or otherwise prepared for action; have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and remain unexploded either by malfunction, design, or any other cause.

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EXECUTIVE SUMMARY

The Department of Defense (DoD) established the Military Munitions Response Program (MMRP) under the Defense Environmental Restoration Program to address DoD sites with unexploded ordnance (UXO), discarded military munitions (DMM), and munitions constituents (MC) located on current and former defense sites. This report presents the results of the MMRP Site Inspection (SI) conducted at Fort Indiantown Gap (FTIG), Pennsylvania.

The *Closed, Transferring, and Transferred (CTT) Range Inventory Report* for Fort Indiantown Gap (Malcolm Pirnie, 2003) identified two CTT ranges (or Munitions Response Site [MRSs]) and marked the completion of the Preliminary Assessment (PA) phase of work under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The two MRSs identified by Malcolm Pirnie (2003) and the corresponding Army Environmental Database-Restoration (AEDB-R) identifications are:

Artillery Ricochet Area (FTIG-003-R-01)

Cold Spring Range Fan (FTIG-004-R-01)

For the first phase of the SI process, a historical records review (HRR) was conducted to collect information on these MRSs and investigate the potential that additional MRSs existed at the installation. This review, as presented in the HRR Report (URS, 2007a) resulted in the following conclusions:

- The Cold Spring Range Fan is entirely within the Artillery Ricochet Area MRS. As a result, the Cold Spring Range Fan was incorporated into the Artillery Ricochet Area to form a single MRS.
- The size of the Artillery Ricochet Area is 8,002 acres, reflecting an adjustment to the northern border of the area.
- The Artillery Ricochet Area was renamed the Ricochet Area to avoid giving the impression that only artillery projectiles may be present within the MRS.
- No additional MRSs were identified.

Accordingly, the SI addressed a single FTIG MRS (FTIG-003-R-01) encompassing 8,002 acres and named Ricochet Area. This MRS is located on Pennsylvania Game Commission property, adjacent to and north of FTIG.

Table ES-1 presents the potential Munitions and Explosives of Concern (MEC) and MC that may be present at the FTIG ranges based on the types of weapons and munitions reportedly fired.

Table ES-1: Summary of Potential MEC and MC

MRS	Potential Munitions	Primary Release Mechanism	Potential MEC	Potential MC
Ricochet Area	**60mm, 81mm and 4.2-inch mortars 75mm, 105mm, 155mm and 8-inch projectiles**	**Howitzer Tank Gun Mortar**	**UXO**	**C4, trinitrotoluene (TNT), lead azide, lead styphnate, white phosphorous, mercury fulminate, cyclotrimethylenetrinitramine (RDX), cyclotetramethylenetetra-nitramine (HMX), and tetryl**

Four areas within the Ricochet Area were the focus of the second phase of the SI, the field work, to identify the potential for MEC and MC. These areas were selected because of the increased potential for releases based on the historical findings of the following specified munitions debris (MD) or MEC items:

Area A—Inert 75mm projectiles,

Area B—Inert 105mm tank projectiles,

Area C—Inert illumination canisters, and

Area D—One live WWII High Explosive Sherman tank round.

For each of these areas, the following field work activities were performed:

1. An approximately 2,000-foot-long transect was established through each area,
2. Along each transect a magnetometer-assisted visual survey was conducted to identify potential surface MEC and MD,
3. Based on the absence of MEC or MD items, surface soil samples were collected from three predetermined locations roughly equally spaced along each transect,
4. The surface soil samples were analyzed for explosives, lead, and mercury.

None of the field work activities indicated the presence of MC or MEC. No MEC was discovered during the magnetometer-assisted visual surveys, no explosives were detected in any sample, and the detected concentrations of metals (lead and mercury) do not indicate the release of MC.

Although the SI found no indication of MC or MEC in the MRS, a Remedial Investigation is recommended for the Ricochet Area because a live Sherman Tank round had been historically found on the MRS.

1. INTRODUCTION

The Department of Defense (DoD) established the Military Munitions Response Program (MMRP) under the Defense Environmental Restoration Program to address DoD sites with unexploded ordnance (UXO), discarded military munitions (DMM), and munitions constituents (MC) located on current and former defense sites. Sites that are not eligible for the MMRP include: sites that had releases after September 30, 2002, properties classified as operational military ranges, permitted disposal facilities, and operating munitions storage facilities. The United States (U.S.) Army's (Army) inventory of closed, transferring, and transferred (CTT) military ranges and defense sites where UXO, DMM, or MC has been identified are sites that are eligible for action under the MMRP.

This report presents the results of the MMRP Site Inspection (SI) conducted at Fort Indiantown Gap (FTIG), Pennsylvania. The SI was conducted in support of the U.S. Army Corps of Engineers (USACE) and U.S. Army Environmental Command under Contract W912DR-06-C-0028, Work Order 0001AC. Overall coordination of the SI and contract management was provided by the USACE Baltimore District. This SI is part of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process and will complete the Preliminary Assessment (PA)/SI requirement for the Munitions Response Sites (MRSs) at Fort Indiantown Gap.

1.1. SITE OVERVIEW

The *Closed, Transferring, and Transferred (CTT) Range Inventory Report* for FTIG (Malcolm Pirnie, 2003) identified two CTT ranges (or MRSs) and marked the completion of the PA phase of work under CERCLA. The two MRSs identified by Malcolm Pirnie (2003) and the corresponding Army Environmental Database-Restoration (AEDB-R) identifications are:

Artillery Ricochet Area (FTIG-003-R-01)

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- The size of the Artillery Ricochet Area is 8,002 acres, reflecting the adjustment of the northern border of the Artillery Ricochet Area.
- The Artillery Ricochet Area was renamed the Ricochet Area to avoid giving the impression that only artillery projectiles may be present within the MRS.
- No additional MRSs were identified.

Accordingly, the SI addressed a single FTIG MRS (FTIG-003-R-01) encompassing 8,002 acres and named Ricochet Area. This MRS is located on Pennsylvania Game Commission property, adjacent to and north of FTIG.

1.2. PURPOSE/SCOPE

The primary goal of the MMRP SI is to collect the necessary information to support one of the following MRS recommendations: 1) perform a Remedial Investigation/Feasibility Study (RI/FS); 2) perform an immediate response; or 3) no further action (NFA). For MRSs receiving an RI/FS recommendation, the secondary goals of the SI are to collect the information necessary to help the Army improve remediation Cost to Complete (CTC) estimates and to score the MRS using the Munitions Response Site Prioritization Protocol (MRSPP). In compliance with Title 32 of the Code of Federal Regulations (CFR) §179.5, the MRSPP results are considered interim, pending stakeholder input.

The rationale and methods for the SI field investigations were developed and presented in the SI Work Plan (URS, 2007b). The objectives and specific field investigation activities discussed in the SI Work Plan were developed in conjunction with regulatory stakeholders, which included representatives of the Pennsylvania Department of Environmental Protection (PADEP), during two Technical Project Planning (TPP) meetings.

1.3. REPORT ORGANIZATION

This SI report has the following sections:

Section 1 – Introduction

Section 2 – Installation/Site Descriptions and History

Section 3 – Site Inspection Tasks and Findings

Section 4 – Conceptual Site Model (CSM)

Section 5 – Summary and Conclusions

Section 6 – References

The following supporting information and analyses are included in the appendices:

Appendix A: Photographs

Appendix B: Analytical Results (Summary tables; Laboratory reports on CD only)

Appendix C: Data Validation Reports (on CD only)

Appendix D: MRSPP Summary Table and Worksheets

Appendix E: Technical Project Planning 3 Meeting Minutes

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2. INSTALLATION/SITE DESCRIPTIONS AND HISTORY

2.1. INSTALLATION DESCRIPTION

FTIG is located in Lebanon and Dauphin Counties in south central Pennsylvania, approximately 20 miles northeast of Harrisburg (Figure 2-1). It stretches north and west of I-81 (between exits 29 and 30). The cantonment area is situated in Lebanon County and part of the maneuver-training corridor lies in Dauphin County. Figure 2-2 illustrates FTIG's location relative to nearby landmarks such as the major mountain ridges, valleys, and gaps through the mountain ridges. Also illustrated in Figure 2-2 are the locations of in-holdings (non-FTIG private property within FTIG) and the operational and non-operational areas of FTIG.

2.2. INSTALLATION HISTORY

FTIG was first established in 1931 when the Commonwealth of Pennsylvania purchased approximately 18,000 acres as a military training facility for the Pennsylvania Army National Guard (PAARNG). Prior to 1931, the PAARNG training site was a 120-acre encampment in Mount Gretna, Pennsylvania. Additional land surrounding FTIG was gradually purchased until the total area was in excess of 18,000 acres. Training maneuvers started at FTIG in 1933.

On September 30, 1940, the Commonwealth leased FTIG to the Federal Government for $1.00, at which point it was designated the Federal United States Army Garrison at FTIG. Construction immediately started at the site and over 1,400 buildings were built. Muir Army Airfield (MAAF) was also constructed. Indiantown Gap was dedicated on March 3, 1941, and officially named Indiantown Gap Military Reservation (IGMR).

During World War II, IGMR was one of the nation's most important Army training camps, serving as the staging area for the New York Port of Embarkation. Prior to being shipped overseas, seven divisions were given final training at IGMR. IGMR also served as a German Prisoner of War (POW) compound during World War II.

Later in World War II, a Transportation Corps Training Center was established at IGMR to train personnel for use in Port Battalions. Two dry-land ships, the *U. S. S. Manada* and *Swatara*, were built at IGMR and used for Army stevedore training.

With the end of World War II, IGMR became a Separation Center, primarily for troops returning from Europe. The Separation Center exceeded 1,000 soldiers per day. In October 1946, between the end of World War II and the beginning of the Korean War, IGMR was inactivated as a Federal post and became a National Guard training site. From 1951 to 1953,

during the Korean War, the IGMR served as the home of the 5th Infantry Division, whose mission was to train 32,000 troops as replacements for assignment to Korea.

During the late 1960s and early 1970s, FTIG served as one of the nation's largest Reserve Officer's Training Corps summer camps. It trained many of the officers who served during the Vietnam conflict. Since then, the installation has continued to be heavily used as a Reserve and National Guard training site.

On May 1, 1975, the Secretary of the Army announced the official changing of the name to FTIG. FTIG has twice been a Refugee Resettlement Camp—in 1975 (for over 32,000 Vietnamese and Cambodian refugees) and in 1980 (for over 19,000 Cuban aliens).

On October 1, 1998, the Federal U.S. Army Garrison was deactivated, and Detachment 4, State Area Command of Pennsylvania (STARC-PA) was activated with the specific mission of operating the facility as a National Guard Training Site (KFS Historic Preservation Group, 1995). The size of FTIG has remained unchanged since 1998. The land on which FTIG is situated is owned by the Commonwealth of Pennsylvania and is leased to the Federal Government. The lease expires in 2049. FTIG is the primary training site in the Commonwealth of Pennsylvania for individual and collective weapons qualification.

2.3. MMRP SITE DESCRIPTION

One MMRP eligible site was identified as a result of the historical records review (URS, 2007a) as summarized in Table 2-1.

Table 2-1: Summary of the Munitions Response Site at FTIG

Site Name	AEDB-R Number	HRR Acreage
Ricochet Area	FTIG-003-R-01	8,002

Figure 2-3 illustrates the location of the Ricochet Area. The Ricochet Area corresponds to most of the area documented in the 1995 U.S. Army Garrison *Safety Range Regulation for FTIG* (Army Regulation 385-1) as Restricted Airspace R5802A (also known as Restricted Area R5802A). The Safety Range Regulation describes the area as "a fall area for spent ordnance which ricochets north of Second Mountain." Based on no historical evidence of ricochets north of Stony Mountain, URS (2007a) identified the northern boundary of the Ricochet Area as coincident with the Stony Mountain ridge line.

URS
200 Orchard Ridge Drive
Gaithersburg, MD 20878

N
W E
S

1:4,400,000

0 25 50 100 150 Kilometers

50 25 0 50 100 Miles

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Figure 2-1
Installation Location
Fort Indiantown Gap, PA

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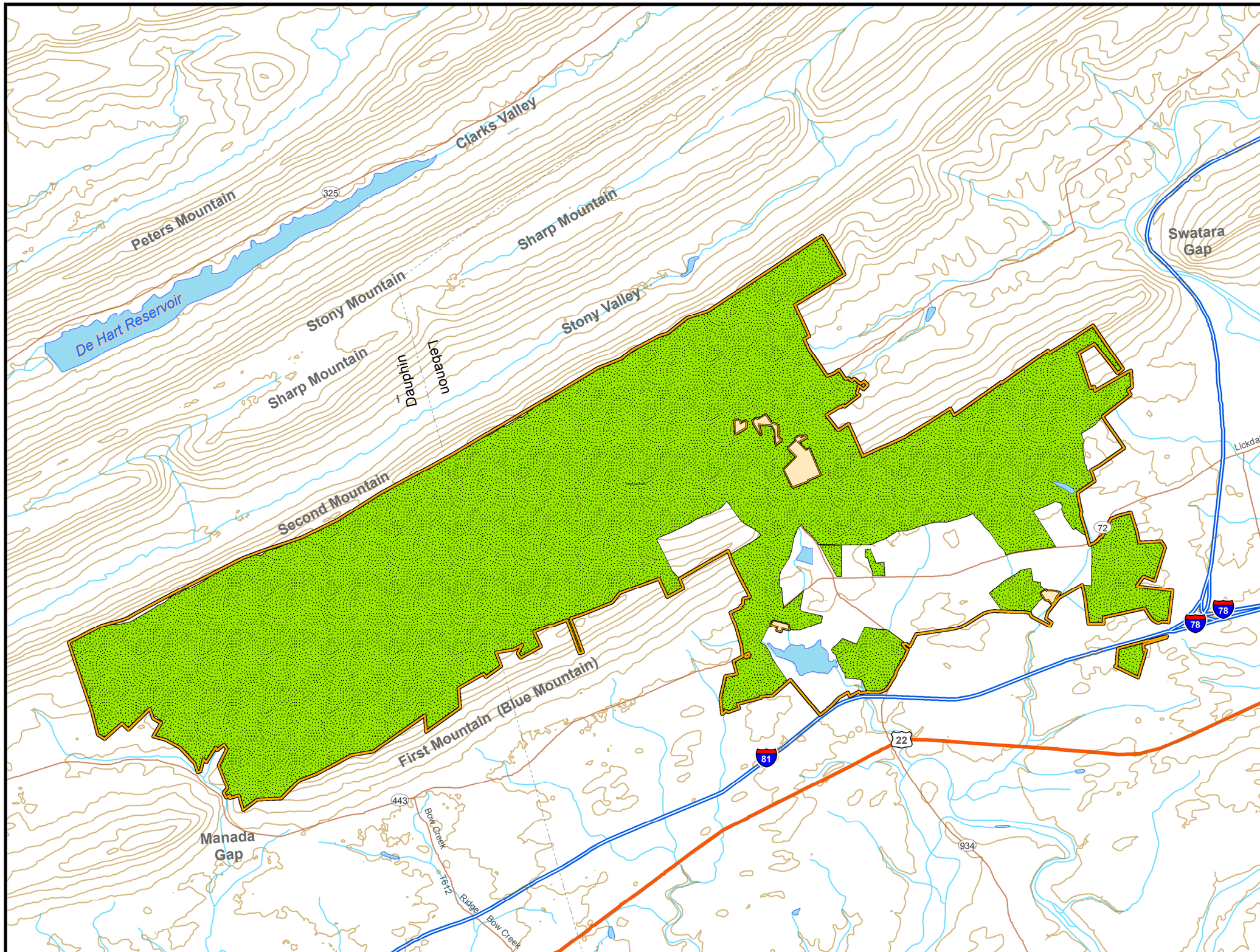

URS

200 Orchard Ridge Drive
Gaithersburg, MD 20878

Legend

- Current Base Boundary
- Waterbody
- Operational Range Area
- Nonoperational Range Area
- Inholdings (Private Property)
- Counties

N
W E
S

1:60,000

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

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Installation Location

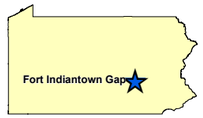

Figure 2-2
Local Setting
Fort Indiantown Gap, PA

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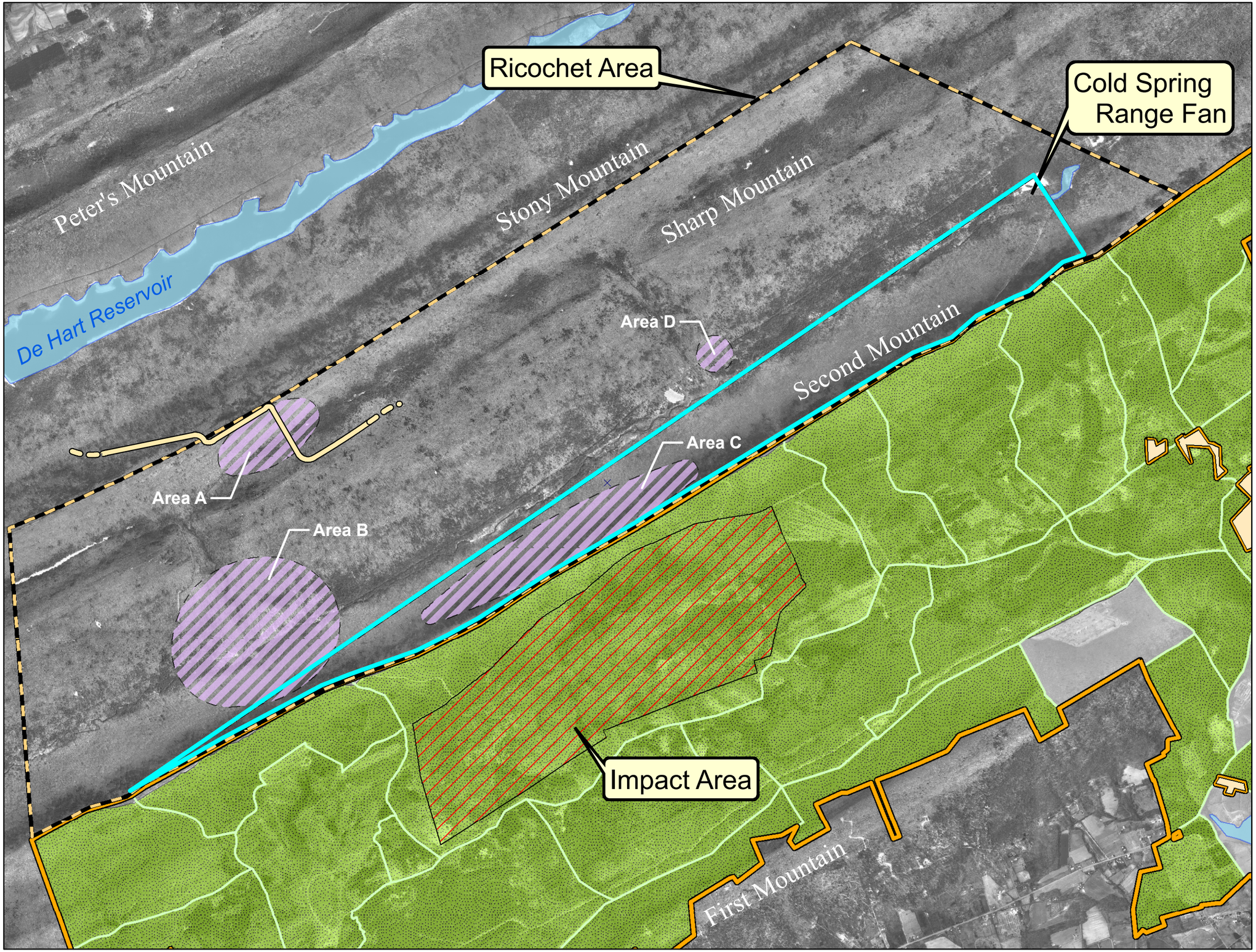

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200 Orchard Ridge Drive
Gaithersburg, MD 20878

Legend

- Approximate Location of Segmant of Appalachian Trail
- Current Base Boundary
- Training Areas
- Waterbody
- Cold Spring Range Fan Boundary Identified in the CTT Report
- MRS Boundary
- Operational Range Area
- Non Range, Non UXO-DMM-MC Area
- Inholdings (private Property)
- Areas of MEC and Inert Projectiles

A: Inert 75mm Projectile
B: Inert 105mm Tank Rounds
C: Inert Illumination Canisters
D: WWII HE Sherman Tank Round

N
W E
S

1:36,000

0 0.5 1 Kilometers
0 0.5 1 Miles

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Figure 2-3
Ricochet Area MRS
Fort Indiantown Gap, PA

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Figure 2-3 also illustrates the following features encompassed by the Ricochet Area:

- Cold Spring Range Fan,
- Areas A though D, approximate locations of munitions debris items and Munitions and Explosives of Concern (MEC) historically found within the Ricochet Area.

The Cold Spring area was identified as an artillery firing point in a 1982 Installation Assessment Report (Malcolm Pirnie, 2003). The boundaries of the Cold Spring Range Fan area were drawn by extending a line from the firing point to the northwest corner of the installation and another line from the firing point to the northeast corner of the installation. As discussed in the HRR Report (URS, 2007a), although the Cold Spring Range Fan target area(s) are not confirmed, it is reasonable to assume that the target area may have been south of Second Mountain, coincident with the current FTIG impact area shown in Figure 2-3. The estimated active years for the Cold Spring Range Fan range are from 1940 to 1970 and the associated munitions types were 60mm, 81mm, and 4.2-inch mortars; and projectiles with the following diameters: 105mm, 155mm, and 8 inches.

Areas A through D, as shown in Figure 2-3, represent the approximate locations where inert projectiles, illumination canisters, and MEC have been found within the Ricochet Area. These areas have been mapped primarily based on information gathered in interviews as part of the HRR (URS, 2007a) and correspond to the following discoveries:

Area A—Location where inert 75mm projectiles were found,

Area B—Location where inert 105mm tank projectiles were found,

Area C—Location where inert illumination canisters have been found, and

Area D—Location where a live WWII High Explosive Sherman tank round was found.

The inert items in Areas A through C resulted from FTIG training activities that occurred prior to approximately 1998. The live WWII Sherman tank round discovered and blown-in-place within Area D is evidence that live rounds, in addition to the recent (mid 1990s) inert rounds, may be present in the Ricochet Area.

Table 2-2 presents the potential MEC and the associated MC that may be present at the FTIG ranges based on information obtained regarding the types of weapons and munitions reportedly fired. It should be noted that depleted uranium rounds are not among the munitions types reported to be fired at FTIG. This fact is mentioned here only because public comments on other environmental documents prepared for actions at FTIG have specifically asked this question.

Table 2-2: Summary of Potential MEC and MC

MRS	Potential Munitions	Primary Release Mechanism	Potential MEC	Potential MC
Ricochet Area	**60mm, 81mm and 4.2-inch mortars** **75mm, 105mm, 155mm and 8-inch projectiles**	**Howitzer** **Tank** **Gun Mortar**	**UXO**	**C4, trinitrotoluene (TNT), lead azide, lead styphnate, white phosphorous, mercury fulminate, cyclotri-methylenetrinitramine (RDX), cyclotetra-methylenetetranitramine (HMX), and tetryl**

2.4. POST FIELD WORK UPDATE

After the SI investigation was completed a database maintained by the 52d Ordnance Group (EOD) regarding UXO discoveries was identified. An entry from the 1997 log by the 756th EOD Company for Fort Indiantown Gap revealed the following incident. During reconnaissance within the Ricochet Area to look for rounds that had skipped over Second Mountain, a fisherman was encountered who directed the reconnaissance team (Colonel Neatrour, 1st Sargent Snyder, Jim McDonald, and Greg Spencer with the PA Game Commission) to a 105mm HE round that had been fired with the shipping cap in place, lying about five meters from Stony Creek. The round was brought to the EOD demolition range and destroyed (incident No. 56-105-97). This entry verifies that UXO items have historically been identified in the Ricochet MRS by various parties.

3. SITE INSPECTION TASKS AND FINDINGS

3.1. OVERVIEW OF FIELD INVESTIGATIONS

The SI field program was developed based on the findings from the historical records review regarding the potential for MEC and MC in the Ricochet Area. Sampling decisions were discussed during the second TPP meeting conducted on May 31, 2007. Tables 3-1 and 3-2 summarize the scope of work to address MEC and MC, respectively.

Table 3-1: Summary of TPP2 MEC Decisions

MRS (AEDB-R No.)	MEC SI Activities	
	Activity	Purpose
Ricochet Area (FTIG-003-R-01)	Establish four 2,000-foot-long transects within the Ricochet Area, coincident with Areas A through D. Conduct a magnetometer-assisted visual survey for DMM/UXO along each transect.	Assess presence of MEC or munitions debris (MD) on the ground surface. Support Cost-to-Complete estimates and MRSPP scoring. Gather data to assist in scoping future work.

Table 3-2: Summary of TPP2 MC Decisions

MRS (AEDB-R No.)	MC SI Activities	
	Activity	Purpose
Ricochet Area (FTIG-003-R-01)	Establish four 2,000-foot-long transects within the Ricochet Area, coincident with Areas A through D. Collect three soil samples from along each transect, while avoiding anomalies. Analyze samples for explosives, lead, and mercury.	Compare analytical results to screening values. Support Cost-to-Complete estimates and MRSPP scoring. Gather data to assist in scoping of future work.

Areas A through D were identified within the Ricochet Area as locations with increased likelihood of MC and MEC occurrence. Accordingly, the SI field work activities focused on Areas A through D. For each of these areas, the following field work activities were performed:

- An approximately 2,000-foot-long transect was established through each area,
- Along each transect, a magnetometer-assisted visual survey was conducted to identify potential surface MEC or MD,
- Based on the absence of MEC and MD, surface soil samples were collected from three predetermined locations spaced roughly equidistantly along each transect,

- The two samples collected at either end of the transects were composite samples; the sample from the middle portion of the transect was a discrete sample,
- The 12 surface soil samples, a field duplicate, and a matrix spike/matrix spike duplicate sample were analyzed for explosives (Method 8330), lead (Method 6010B), and mercury (Method 7417).

3.2. SI FIELD WORK RESULTS FOR THE RICOCHET AREA (FTIG-003-R-01)

The field activities were conducted from December 18 through 20, 2007. Photographs from the sampling program are included in Appendix A of this report.

The analytical results are included in Appendix B. As discussed in the Work Plan (URS, 2007b), the analytical data are evaluated in this SI using a weight-of-evidence approach to assess whether MC are present at concentrations that may pose a threat to human health and the environment and require additional investigation. This approach includes comparing the analytical data to United States Environmental Protection Agency (EPA) Region 3 risk-based concentrations (RBCs), which were updated April 2008, and PADEP 'soil direct contact' and 'soil to groundwater' screening values.

3.2.1 MEC Activities and Findings

Figure 3-1 illustrates the four transect locations where the UXO Technician completed the magnetometer-assisted surveys. One transect corresponded to each of the four Areas (Areas A through D) within the Ricochet Area MRS. On average, the transects were about 2,000 feet in length, with a cumulative length of about 8,000 feet.

Visual Survey Findings—No munitions debris, UXO, or DMM were observed along any transect.

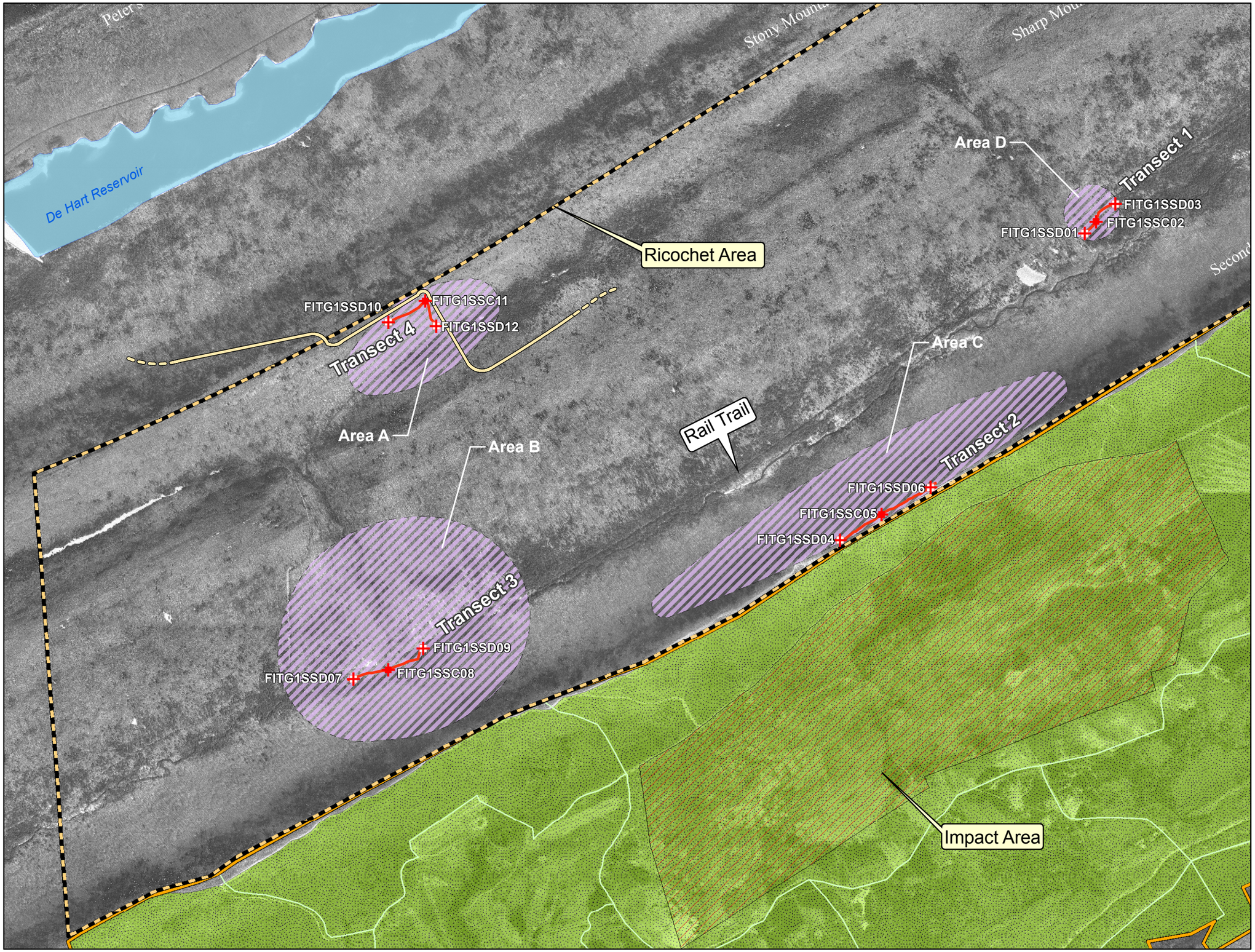
Magnetometer Survey Findings—No munitions-related metallic anomalies were observed.

3.2.2 MC Activities and Findings

In order to evaluate the potential presence of MC, the following samples were collected from the locations illustrated in Figure 3-1 and were analyzed for explosives, lead, and mercury:

- 8 discrete surface soil samples
- 4 composite surface soil samples

For quality control (QC) purposes, one duplicate soil sample was collected and analyzed for the same parameters. The samples were analyzed by Analytical Laboratory Services, Inc.



URS
200 Orchard Ridge Drive
Gaithersburg, MD 20878

Legend

- Composite Surface Soil Sample
- Discrete Surface Soil Sample
- Transects
- Approximate Location of Segmant of Appalachian Trail
- Current Base Boundary
- Training Areas
- Waterbody
- Inholdings (private Property)
- Operational Range Area
- Areas of MEC and Inert Projectiles

A: Inert 75mm Projectile
B: Inert 105mm Tank Rounds
C: Inert Illumination Canisters
D: WWII HE Sherman Tank Round

N W E S

1:24,000

0 125 250 500 Meters

0 500 1,000 2,000 Feet

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Figure 3-1
SI Sampling Locations
Ricochet Area
Fort Indiantown Gap, PA

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Regulatory soil screening values are shown in Table 3-3. Table 3-4 presents the analytical results for the Ricochet Area soil samples, as discussed below.

Explosives—Explosives were not detected in any Ricochet Area soil samples. The explosives results do not indicate that a release of MC occurred in the MRS.

Table 3-3: Soil Screening Values

Analyte	CAS Number	Soil Screening Values (mg/kg)		
		PADEP		EPA Region 3
		Direct Contact (a)	Soil to Groundwater (b)	Industrial RBC (c)
Explosives				
1,3,5-Trinitrobenzene	99-35-4	- -	- -	3.1E+04
1,3-Dinitrobenzene	99-65-0	280	0.05	1.0E+02
2,4,6-Trinitrotoluene	118-96-7	1,400	0.02	9.5E+01
2,4-Dinitrotoluene	121-14-2	260	0.2	2.0E+03
2,6-Dinitrotoluene	606-20-2	2,800	3	1.0E+03
2-Amino-4,6-Dinitrotoluene	35572-78-2	- -	- -	2.0E+03
4-Amino-2,6-Dinitrotoluene	19406-51-0	- -	- -	2.0E+03
HMX	2691-41-0	- -	- -	5.1E+04
3-Nitrotoluene	99-08-1	- -	- -	- -
Nitrobenzene	98-95-3	1,400	2	5.1E+02
2-Nitrotoluene	88-72-2	- -	- -	1.0E+04
4-Nitrotoluene	99-99-0	- -	- -	1.8E+02
RDX	121-82-4	- -	- -	2.6E+01
Tetryl	479-45-8	- -	- -	4.1E+03
Metals				
Lead	7439-92-1	1,000	450	- -
Mercury	7439-97-6	840	10	- -

(a) Non-residential surface soil (0 to 2 ft below ground surface [bgs]).
(b) Total Dissolved Solids less than or equal to 2,500 µg/L; non-residential use aquifer; generic value.
(c) RBC values updated April 2008.

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Table 3-4: Analytical Results for the Ricochet Area MRS

	FITG1SSD01						FITG1SSC02						FITG1SSD03						FITG1SSD04						FITG1SSC05						FITG1SSD06						FITG1SSD07					
	9716422001						9716422002						9716422003						9716422004						9716422005						9716422006						9716422007					
	12/20/2007						12/20/2007						12/20/2007						12/18/2007						12/18/2007						12/18/2007						12/19/2007					
Analyte	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC
1,3,5-Trinitrobenzene	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
1,3-Dinitrobenzene	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
2,4,6-Trinitrotoluene	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
2,4-Dinitrotoluene	0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U		
2,6-Dinitrotoluene	0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U		
2-Amino-4,6-dinitrotoluene	0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U		
2-Nitrotoluene	0.25	0.1	0.25	U			0.24	0.1	0.24	U			0.24	0.1	0.24	U			0.25	0.1	0.25	U			0.24	0.1	0.24	U			0.25	0.1	0.25	U			0.24	0.09	0.24	U		
3-Nitrotoluene	0.25	0.08	0.25	U			0.24	0.08	0.24	U			0.24	0.08	0.24	U			0.25	0.08	0.25	U			0.24	0.08	0.24	U			0.25	0.08	0.25	U			0.24	0.08	0.24	U		
4-Amino-2,6-dinitrotoluene	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
4-Nitrotoluene	0.25	0.07	0.25	U			0.24	0.07	0.24	U			0.24	0.07	0.24	U			0.25	0.07	0.25	U			0.24	0.07	0.24	U			0.25	0.07	0.25	U			0.24	0.07	0.24	U		
HMX	0.25	0.01	0.25	U			0.24	0.01	0.24	U			0.24	0.01	0.24	U			0.25	0.01	0.25	U			0.24	0.01	0.24	U			0.25	0.01	0.25	U			0.24	0.009	0.24	U		
Nitrobenzene	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
RDX	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
Tetryl	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U		
Lead	151	1	7				32	0.3	2				63	0.4	3				41	0.3	2				163	0.5	4		J	q	97	0.5	3		J	q	40	0.4	3			
Mercury	0.19	0.08	0.89	J			0.05	0.02	0.26	J			0.06	0.02	0.23	J			0.06	0.02	0.29	J			0.08	0.04	0.47	J			0.13	0.03	0.39	J			0.07	0.02	0.29	J		

	FITG1SSC08						FITG1SSD09						FITG1SSD10						FITG1SSC11						FITG1SSC11D						FITG1SSD12					
	9716422008						9716422009						9716422010						9716422011						9716422013						9716422012					
	12/19/2007						12/19/2007						12/20/2007						12/20/2007						12/20/2007						12/20/2007					
Analyte	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC	Result	MDL	RL	LQ	VQ	RC
1,3,5-Trinitrobenzene	0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
1,3-Dinitrobenzene	0.24	0.02	0.24	U	UL	s	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
2,4,6-Trinitrotoluene	0.24	0.02	0.24	U	UL	s	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
2,4-Dinitrotoluene	0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U		
2,6-Dinitrotoluene	0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U		
2-Amino-4,6-dinitrotoluene	0.24	0.03	0.24	U			0.25	0.03	0.25	U			0.24	0.03	0.24	U			0.25	0.03	0.25	U	UL	m	0.24	0.03	0.24	U			0.25	0.03	0.25	U		
2-Nitrotoluene	0.24	0.1	0.24	U			0.25	0.1	0.25	U			0.24	0.1	0.24	U			0.25	0.1	0.25	U			0.24	0.09	0.24	U			0.25	0.1	0.25	U		
3-Nitrotoluene	0.24	0.08	0.24	U			0.25	0.08	0.25	U			0.24	0.08	0.24	U			0.25	0.08	0.25	U	UL	m	0.24	0.08	0.24	U			0.25	0.08	0.25	U		
4-Amino-2,6-dinitrotoluene	0.24	0.02	0.24	U	UL	s	0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U	UL	m	0.24	0.02	0.24	U			0.25	0.02	0.25	U		
4-Nitrotoluene	0.24	0.07	0.24	U			0.25	0.07	0.25	U			0.24	0.07	0.24	U			0.25	0.07	0.25	U			0.24	0.07	0.24	U			0.25	0.07	0.25	U		
HMX	0.24	0.01	0.24	U			0.25	0.01	0.25	U			0.24	0.01	0.24	U			0.25	0.01	0.25	U			0.24	0.009	0.24	U			0.25	0.01	0.25	U		
Nitrobenzene	0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
RDX	0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
Tetryl	0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U			0.24	0.02	0.24	U			0.25	0.02	0.25	U		
Lead	66	0.4	3				23	0.2	2				81	0.5	3				50	0.7	4				62	0.8	5				42	0.2	2		J	q
Mercury	0.11	0.04	0.52	J			0.07	0.02	0.28	J			0.14	0.03	0.36	J			0.2	0.04	0.45	J			0.22	0.04	0.5	J			0.08	0.02	0.28	J		

Notes:

All results are expressed in mg/kg

MDL: method detection limit
RL: reporting limit

LQ: laboratory qualifier
J: concentration of result between MDL and RL
U: non-detect

VQ: validation qualifier
J: positive result displays an estimated concentration
UL: non-detect concentration is biased low

RC: validation reason code
m: matrix spike anomaly
q: positive concentration exceeds the linear range of the initial calibration
s: surrogate anomaly

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Mercury—Mercury was detected in all Ricochet Area soil samples at trace levels below the reporting limit. Therefore, the reported mercury concentrations were flagged during validation as estimated, as indicated by a J qualification code. The estimated concentrations ranged from 0.05J to 0.22J mg/kg. None of these concentrations exceed the regulatory screening values presented in Table 3-3.

The mercury results do not indicate that a release of MC occurred in the MRS.

Lead—Lead was detected in all Ricochet Area soil samples at concentrations ranging from 23 to 163J mg/kg. Figure 3-2 depicts the lead results on a map of the Ricochet Area MRS. The lead concentration at soil sample location FTIG1SSC11 is the average of the primary and duplicate samples. Because of low percent solids recorded for six samples (discussed further in Section 3.3), the lead data is likely biased high. However, none of the lead concentrations exceed the regulatory screening values presented in Table 3-3.

The lead results do not indicate that a release of MC occurred in the MRS.

3.3. ANALYTICAL LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

MC data results (100%) were validated by a third-party validator. Data validation was conducted in accordance with the project Quality Assurance Project Plan (URS, 2007b) and the Department of Defense Quality Systems Manual Version 3, and qualified according to the protocols defined in either the *National Functional Guidelines for Organic Data Review* (January 2005) or the *National Functional Guidelines for Inorganic Data Review* (October 2004) updated for Region III Modifications. The explosives data were validated based on the following parameters:

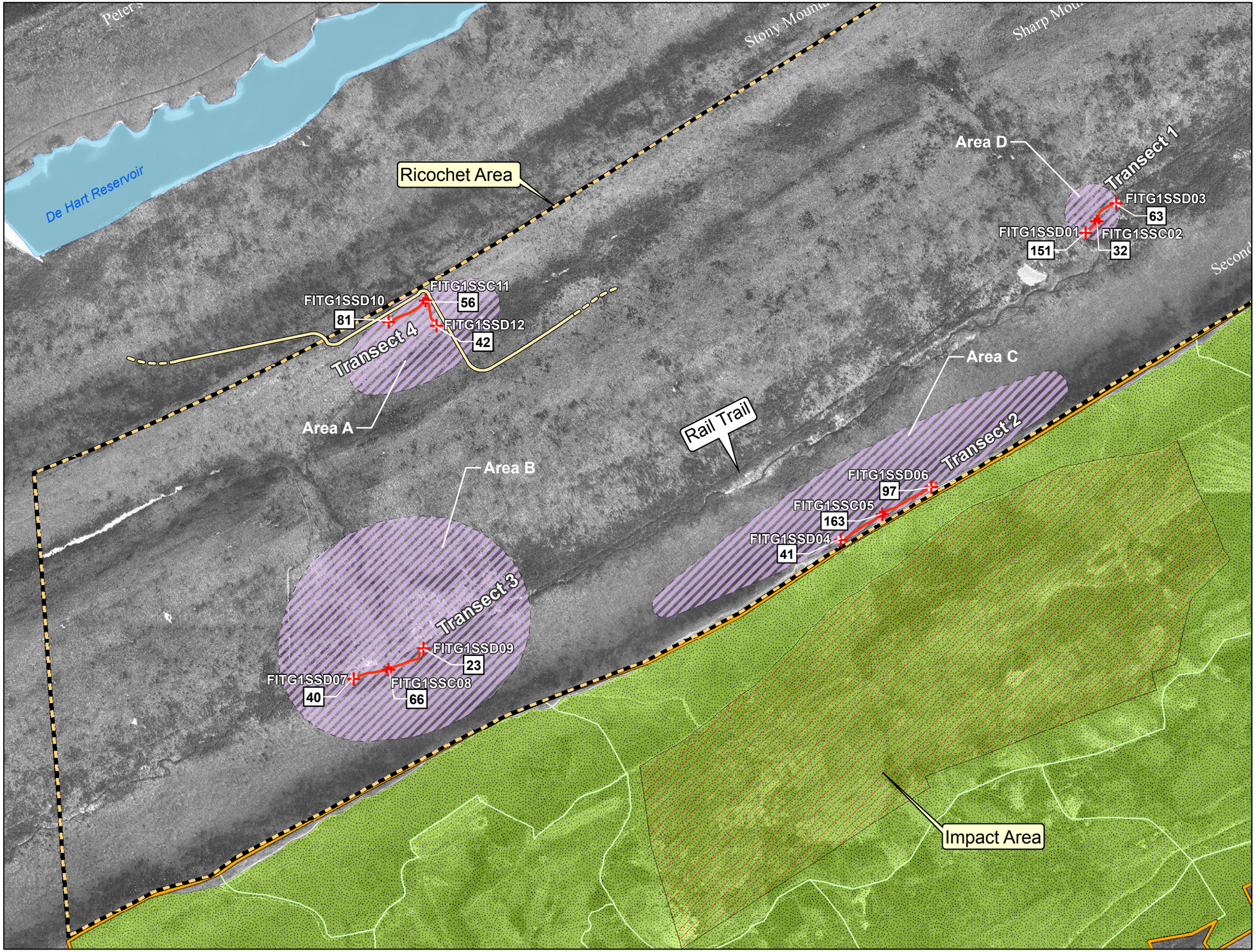
- Chain of Custody/Sample Condition
- Holding Times and Preservation
- Blanks
- Initial Calibration
- Continuing Calibration
- Laboratory Control Spike
- Surrogate
- Matrix Spike/Matrix Spike Duplicates
- Field Duplicate
- Compound Identification
- Compound Quantitation and Reporting Limits
- Completeness

The metals data were validated based on the following parameters:

- Chain of Custody/Sample Condition
- Holding Time and Preservation
- Blanks
- Initial Calibration
- Continuing Calibration
- Interference Check Samples
- Laboratory Control Spike
- Matrix Spike/Matrix Spike Duplicates
- Serial Dilution for Inductively Coupled Plasma Analysis
- Field Duplicates
- Analyte Quantitation and Reporting Limits
- Completeness

The validation criteria for all analytical samples were met with the exception of the data tabulated in Table 3-5. A more detailed description of data validation is included in the Data Validation Reports in Appendix C.

Further review of the analytical data indicates that the results for lead are likely biased high and may not be representative of actual site conditions. The percent solids for the samples ranged from 20.9% to 72.2%, with six samples below 50%. Metal concentrations for soil samples are converted to dry weight after analysis, which is based on the assumption that the analytes detected in the sample are attributable only to the soil fraction. The lower the percent solids for the sample, the higher the dry weight concentration of the sample will be relative to the wet weight concentration determined in the analysis. As a result, analytical results from soil samples with low percent solids may be biased high. For the FTIG soil samples, this bias is apparent since the average lead concentration of samples greater than 50% solids is less than half the concentration of samples with less than 50% solids. The range of lead concentrations for samples above 50% solids is 23 to 81 mg/kg and the average is 45 mg/kg. The range of lead concentrations for samples below 50% solids is 50 to 163 mg/kg and the average is 98 mg/kg. The bias introduced by low percent solids suggests that the lead data acquired for the SI is conservative, but may not be representative of actual site conditions. Ricochet Area background soil samples are not available for comparison.



URS
200 Orchard Ridge Drive
Gaithersburg, MD 20878

Legend

- 41 Lead Concentration (in mg/kg)
- Composite Surface Soil Sample
- Discrete Surface Soil Sample
- Transects
- Approximate Location of Segmant of Appalachian Trail
- Current Base Boundary
- Training Areas
- Waterbody
- Inholdings (private Property)
- Operational Range Area
- Areas of MEC and Inert Projectiles

A: Inert 75mm Projectile
B: Inert 105mm Tank Rounds
C: Inert Illumination Canisters
D: WWII HE Sherman Tank Round

N W E S

1:24,000

0 125 250 500 Meters

0 500 1,000 2,000 Feet

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Checked: BE
Senior: BE

Figure 3-2
Soil Lead Results (in mg/kg)
Ricochet Area
Fort Indiantown Gap, PA

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Table 3-5: Qualified Results

Client Identification	Laboratory Identification	Sample Date	Compound Name	Result	Units	Laboratory Flag	MRL	MDL	Dilution	Validation Flag	Reason code
FITG1SSC08	9716422008	12/19/2007	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	UL	s
			2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02			
			4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02			
FITG1SSC11	9716422011	12/20/2007	2-Amino-4,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.03		UL	m
			3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08			
			4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02			
FITG1SSC05	9716422005	12/18/2007	Lead, Total	163	mg/kg		4	0.5		J	q
FITG1SSD06	9716422006	12/18/2007	Lead, Total	97	mg/kg		3	0.5			
FITG1SSD12	9716422012	12/20/2007	Lead, Total	42	mg/kg		2	0.2			

Notes:
MDL – method detection limit
MRL – method reporting limit
mg/kg – milligram per kilogram
U – non-detect
UL – non-detect concentration is biased low
J – positive result displays an estimated concentration
m – matrix spike anomaly
q – positive concentration exceeds the linear range of the initial calibration
s – surrogate anomaly

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4. CONCEPTUAL SITE MODEL

This section is separated into two parts. The first part describes the physical characteristics (climate, geology, etc.) and land use components of FTIG as a whole. The second part presents the site-specific Ricochet Area Conceptual Site Models (CSMs), including the potential for MEC and MC occurrence and exposures.

4.1. GENERAL FTIG PROFILE

The majority of the following general profile discussion for FTIG is directly from the following two sources:

Final Environmental Impact Statement for the Transformation of the Pennsylvania Army National Guard 56th Brigade into a Stryker Brigade Combat Team, AMEC Earth & Environmental, Inc. (AMEC) January 2006.

Final Preliminary Assessment, National Guard Training Center-Fort Indiantown Gap, Lebanon and Dauphin Counties, Pennsylvania. Prepared for National Guard Bureau (NGB) Pennsylvania Army National Guard (PAARNG) Commonwealth of Pennsylvania by Ogden Environmental and Energy Services Company, Inc. (OGDEN) June 2000.

4.1.1 Geography

FTIG is located in south-central Pennsylvania, approximately 22 miles northeast of the State capital, Harrisburg, and north of and adjacent to Interstate (I)-81. FTIG is approximately 5 miles wide (north to south) and 11 miles long (east to west), occupying 17,100 acres of land. Most of FTIG lies in northwestern Lebanon County, with its western portion in eastern Dauphin County. FTIG occupies a portion of both East Hanover and West Hanover Townships in Dauphin County, and Union and East Hanover Townships in Lebanon County. Second Mountain borders the facility to the north; the facility's southern border abuts I-81. Blue Mountain (also called First Mountain), separates the cantonment (i.e., support and logistical coordination) area from the training corridor, located in the valley between Blue and Second Mountains (AMEC, 2006).

4.1.2 Land Use and Demographics

The cantonment area occupies approximately one-third of the installation and is used for offices, residential quarters, billeting, storage, and maintenance activities. The training corridor makes up the remaining two-thirds of the property and supports military training activities (AMEC, 2006).

Properties adjacent to FTIG along the southern, eastern, and western boundaries are privately owned. A Boy Scout camp and the Appalachian National Scenic Trail lie north of FTIG boundaries, and the Pennsylvania National Thoroughbred Race Course is located south of FTIG. Lands adjacent to the northern border are largely owned by the Commonwealth of Pennsylvania Game Commission and are used as public hunting and recreation areas (ESE 1982, cited in OGDEN, June 2000). The U.S. Geological Survey (USGS) topographic maps show State Game Lands Numbers 210 and 211 north of FTIG and Number 80 across Swatara Creek near the northeast portion of FTIG. Census data for the year 2000 for Census Tract 42043-0245.02 indicate a population density of 4.5 people per square mile.

4.1.3 Physical Profile

4.1.3.1. Climate

Pennsylvania is located in the humid microthermal climate region, where the climate is relatively moderate and precipitation is fairly abundant. Although climatic conditions vary due to topography and locations, average annual temperature at FTIG is approximately 51.3 degrees Fahrenheit (°F), with average winter lows of 21°F and average summer highs of 83°F. Precipitation amounts remain relatively constant throughout the year, averaging 42 inches per year, with snowfall averaging 30 to 40 inches per year. The average wind speed varies from 5.9 to 9.5 miles per hour (mph) (PAARNG, 1998; World Climate, 1999, cited in AMEC 2006).

4.1.3.2. Geology

FTIG is located at the junction of two sections of the greater Valley and Ridge physiographic province: the Appalachian Mountain Section and the Great Valley Section. In general, the Valley and Ridge province is underlain by complexly faulted and folded sedimentary rocks of Paleozoic age. A wide range of lithologic types is represented, including limestone, sandstone/conglomerate, and shale. Sandstone and conglomerate, resistant to weathering, comprise the ridges, while shale and limestone underlie the valleys. This portion of the Commonwealth of Pennsylvania is unglaciated (OGDEN, 2000).

In general, Paleozoic age sedimentary rocks that have been complexly folded and faulted are typical throughout the Ridge and Valley Province (Bushnell 1989, cited in OGDEN, June 2000). The northern portion of FTIG lies in the Appalachian Mountain section, a region of northeast-southwest-oriented ridges and valleys (STI, 1991, cited in OGDEN, June 2000). Middle Paleozoic sandstone and shale form the bedrock in the Appalachian Mountain section (USDA, 1981, cited in OGDEN, June 2000). However, the southern portion of FTIG lies in the Great Valley Section, a more gently sloping, lowland area (STI, 1991, cited in OGDEN,

June 2000). Lower Paleozoic shale, limestone, and dolomite are the bedrock materials in the Great Valley Section (USDA, 1981, cited in OGDEN, June 2000).

There are several geological units that underlie FTIG, including Bloomsburg, Catskill, Martinsburg, Spechty Kopf, Trimmers Rock, and Tuscarora Formations; Clinton and Hamilton Groups; and the Hamburg Sequence. These geologic units typically consist of sandstone, shale, and siltstone (Berg, 1981, cited in OGDEN, June 2000).

There have been earthquakes in recent times in the region surrounding FTIG. It has been estimated that, on average, three to four seismic events with intensities equal to or greater than intensity VIII, the threshold of serious damage to ordinary structures, will take place in a 1,000-year period in Pennsylvania. Southeastern Pennsylvania is the area of highest intensity seismic hazard in the State. However, Pennsylvania has never experienced an earthquake of intensity VIII or greater (Shultz, 1999, cited in AMEC, 2006). Many earthquake epicenters have been identified in the region; however, no recorded earthquakes have been centered at FTIG (Shultz, 1999, cited in AMEC, 2006).

4.1.3.3. Topography

The northern portion of FTIG lies within the Appalachian Mountain section of the Great Valley and Ridge physiographic province, a region of northeast-southwest-oriented ridges and valleys. However, the southern portion of FTIG lies in the Great Valley Section, a more gently sloping, lowland area (STI, 1991, cited in AMEC, 2006).

The contrasting geology between the Appalachian and Great Valley Sections contributes to the topography of FTIG. The valleys at FTIG have been eroded from the limestone and dolomite, while the ridges have formed from the more resistant shale, sandstone, and conglomerate units (USDA, 1981a, cited in AMEC, 2006). Inspection of USGS Topographic Quadrangles shows the mountain ridges reach elevations of approximately 1,200 to 1,440 feet above mean sea level (MSL), the valley between Blue Mountain and Second Mountain lies at approximately 600 to 700 feet MSL, and the cantonment area lies at 400 to 500 feet MSL.

Due to the steep topography, the Appalachian Mountain Section is considered to have a high susceptibility to landslides, with shallow, slab-type bedrock slides fairly common on dip slopes of steeply tilted strata (Shultz, 1999, cited in AMEC, 2006). Steep slopes and exposed bedrock areas occur throughout FTIG, primarily on the crests of Blue Mountain and Second Mountain.

4.1.3.4. Soil

The major soil associations at FTIG are Dekalb-Lehew, Calvin-Klinesville, Berks-Weikert-Bedington, and Laidig-Hazelton-Leck Kill. The soils on FTIG are generally thin and rocky, but can be separated into three main areas: the mountains, the valley between the mountains, and the cantonment area.

The soils on Blue and Second Mountains are moderately deep, well drained, gently sloping to very steep, very stony sandy loams with channery loam subsoils (USDA, 1995, cited in AMEC, 2006).

The soils of the valley between Blue and Second Mountains vary from deep to shallow and are well-drained, sloping, shaly silt loams (USDA, 1995, cited in AMEC, 2006). As with most valleys, deeper soils are most often found in the valley bottoms and alluvial materials (sand, silt, and mud deposited by flowing water) are found bordering the streams.

The soils of the cantonment area are clayey and rocky and range from deep to shallow. Cantonment area soils are well drained, and nearly level to sloping.

4.1.3.5. Hydrogeology

The principal aquifers in the region are the carbonate rocks that occupy the southern and central part of the Great Valley and the shale formations that are found in the northern portion of the Great Valley where FTIG is located. The carbonate aquifers south of FTIG have the highest and most reliable water yields in the area (USDA, 1981a, cited in OGDEN, June 2000). The occurrence and movement of groundwater in the FTIG region is largely controlled by the degree of fracturing. Fracturing occurs in association with faults, folds, and joints within the bedrock. Fracturing is widespread and can be attributed to the extensive structural deformation associated with the region. Consequently, groundwater occurs in usable quantities in the FTIG area (STI, 1991, cited in OGDEN, June 2000).

In Dauphin and Lebanon Counties, 20 to 40 million gallons of groundwater are used per day, accounting for approximately 25 percent of Dauphin County water use and approximately 75 percent of Lebanon County water use (Fleeger, 1998, cited in OGDEN, June 2000). Numerous private wells are located just outside the FTIG boundary, especially in the vicinity of the cantonment area. These wells usually have yields of less then 15 gallons per minute (gpm) and serve one household (PGS, 1998, cited in OGDEN, June 2000). In Dauphin and Lebanon Counties, 30 to 45 homes per square mile have wells, accounting for 21 percent of Dauphin County homes and 29 percent of Lebanon County homes (Fleeger, 1998, cited in OGDEN, June 2000). Drinking water wells in Dauphin County have an average depth of about 170 feet. Groundwater is reached at an average depth of 21 feet below ground level in

Dauphin County and 20 feet below ground level in Lebanon County (PGS, 1998, cited in OGDEN, June 2000).

4.1.3.6. Hydrology

According to AMEC (2006), the entirety of FTIG drains to Swatara Creek within the Susquehanna River Basin. All of the streams traversing FTIG originate on FTIG property. The Manada Creek, Indiantown Run, and Qureg Run watersheds are the three major watersheds on the property. The Manada Creek watershed drains the western portion of the training corridor. The Indiantown Run watershed drains the central portion of FTIG, with the headwaters originating in the eastern portion of the training corridor, and then flowing through Indiantown Gap into the western portion of the cantonment area before exiting FTIG. The Qureg Run watershed drains the eastern portion of FTIG, including the majority of the cantonment area. The Trout Run and Forge Creek watersheds comprise the small remaining portions of FTIG's watershed system. Trout Run drains the northernmost portion at the eastern edge of the training corridor, while unnamed tributaries of Forge Creek originate to the northeast of the cantonment area and exit FTIG within 0.5 mile.

The streams at FTIG are mostly perennial, with the exception of the upper reaches of some smaller tributaries. Several small, unnamed springs are present throughout the property, primarily on steep mountainsides.

No natural ponds or lakes exist at FTIG (OGDEN, 2000). FTIG has two manmade lakes: Shuey Lake, near the headwaters of Qureg Run, and Marquette Lake, an impoundment on Indiantown Run. Memorial Lake, also an impoundment on Indiantown Run, is an 80-acre lake contained within the 200-acre state park located adjacent to FTIG's southern boundary (PAARNG, 1998). In addition, several small ponds and sediment basins are located in various areas on the property (AMEC, 2006).

4.1.3.7. Vegetation

Natural resource surveys were completed in 1999 by TNC at FTIG (TNC 2000a, cited in AMEC, 2006). The surveys identified a diverse range of vegetation and habitat dominated by forests transitional between conifer-dominated forest and mixed deciduous forest. Overall, 792 plant species were identified at FTIG. Four state-listed plant species of special concern were also identified: Striped gentian (*Gentiana villosa*), American holly (*Ilex opaca*), yellow leaved tinker's weed (*Triosteum angustifolium*) and netted chainfern (*Woodwardia areolata*).

4.1.3.8. Beneficial Resources

Surveys of mammals, birds, reptiles, amphibians, moths, butterflies, fish, and benthic macroinvertebrates have been conducted at FTIG and sensitive species locations have been documented (AMEC, 2006). These surveys have indentified 135 species of mammals, birds, and reptiles/amphibians, including the notable species specified in Section 4.1.3.9

4.1.3.9. Ecological Profile

According to AMEC (2006), there are a variety of habitats at FTIG that harbor diverse wildlife. A variety of nesting areas are available to woodland and field nesting bird species, while aquatic species find suitable habitat in the several surface water bodies, such as Marquette Lake and Shuey Lake, and streams on the property.

One notable habitat at FTIG is the old field/grassland habitats on ranges and maneuver areas that support a regal fritillary butterfly (*Speyeria idalia*) population. This population is considered to be the last viable regal fritillary colony in this portion of the species' range. FTIG has set aside a total of 250 acres of Regal Fritillary Research Area, which is composed of 217 acres of actual research area and 33 acres of dispersal corridor.

Although no federally listed threatened or endangered species are located at FTIG, several State-listed or State-candidate species in addition to the regal fritillary butterfly, a species of local interest, have been identified as follows:

Striped gentian (*Gentiana villosa*)

American holly (*Ilex opaca*)

Netted chainfern (*Woodwardia areolata*)

Yellow-leaved tinker's weed (*Triosteum angustifolium*)

Timber rattlesnake (*Crotalus h. horridus*)

Allegheny woodrat (*Neotoma magister*)

Indiana bat (*Myotis sodalis*)

4.2. RICOCHET AREA CSM

4.2.1 Area and Layout

The Ricochet Area MRS encompasses 8,002 acres and is located immediately north of FTIG. Within the Ricochet Area are portions of, from south to north, Second Mountain, Stony Valley, Sharp Mountain, and Stony Mountain. It is entirely located within Pennsylvania State Game Lands Number 211.

4.2.2 Structures

The Ricochet Area is comprised of a wilderness area associated with Pennsylvania State Game Lands Number 211. The following remnants of historic structures with cultural significance are within the MRS:

- Bed of the former Schuylkill and Susquehanna Railroad that parallels Stony Creek within Stony Valley,
- Abandoned shafts associated with coal mining, which occurred during the 1800s,
- Old trails associated with historic lumber operations,
- Building foundations associated with the historic Cold Spring Resort (URS, 2007a), and
- Existing hiking trails such as the Appalachian Trail,
- Within 2 miles of the southeast and southwest corners of the MRS are more than 25 occupied structures; however, they are all separated from the MRS by Second Mountain.

4.2.3 Utilities

There are no utilities within the Ricochet Area.

4.2.4 Boundaries

The southern boundary of the Ricochet Area is coincident with the northern boundary of FTIG (i.e., the Ricochet Area is bounded to the south by FTIG). Pennsylvania State Game Lands Number 211 bounds the area to the west, north, and east.

4.2.5 Security

The Ricochet Area is located entirely within Pennsylvania Game Lands Number 211 and the public has unrestricted access to these game lands.

4.2.6 Physical and Ecological Profile

Climate: Pennsylvania is located in the humid microthermal climate region, where the climate is relatively moderate and precipitation is fairly abundant. Average annual temperature at is 51.3 degrees Fahrenheit (°F) and precipitation averages 42 inches per year, with snowfall averaging 30 to 40 inches per year. Wind is predominantly from the west and northwest.

Geology: This description of the bedrock underlying the Ricochet Area begins with the southern portion of this area and proceeds northward. The formation descriptions provided below are from *Geology of the West Central Part of the Southern Anthracite Field and*

Adjoining Areas, U.S. Geological Survey, 1969, Professional Paper 602; cited in *Pennsylvania Wild and Scenic Rivers Program, Stony Creek Study,* Commonwealth of Pennsylvania, Department of Environmental Resources, September 1979.

The southern boundary of the Ricochet Area is coincident with the ridge line formed by Second Mountain formed by the Pocono Formation. This is the oldest formation underlying the Ricochet Area. It dips northward, thus, other bedrock units within the Ricochet Area and north of the Second Mountain ridge line overlie and are younger than the Pocono Formation. The Pocono Formation consists of beds of conglomerate, massive sandstone, shale, and thin lenticular coals. It is resistant to weathering and, thus, is one of the major ridge-formers within the central Appalachians of Pennsylvania.

The Stony Valley portion of the Ricochet Area is underlain by the Mauch Chunk Formation. The formation consists of thin sandstones, siltstone, and limestone; however, the predominant rock type is red shale. The Mauch Chunk Formation is sub-divided into the lower, middle, and upper sections. Generally, the lower section underlies the lower portion of the northern flank of Second Mountain, the middle section underlies the bottom of Stony Valley, and the upper section underlies the lower portion of the southern flank of Stony Mountain.

The northern portion of the Ricochet Area is predominantly underlain by the Pottsville Formation, which overlies the Mauch Chunk Formation. The Pottsville Formation primarily consists of conglomerates and sandstones, thus it is very resistant to weathering and is a major ridge former within the Appalachian Mountains. The Pottsville Formation crops out along the axis of a northeastward plunging syncline, thus this formation underlies both Stony and Sharp Mountains.

The slight valley between Stony and Sharp Mountains is underlain by the Llewellyn Formation which overlies the Pottsville Formation. The Llewellyn Formation is composed of interbedded shales, siltstones, sandstones, and anthracite coal seams. The coal associated with the Llewellyn Formation encouraged limited mining within the Ricochet Area in the 1800s.

Topography: The topography of the Ricochet Area is controlled by the parallel ridges and valleys that form the Appalachian Mountains. Within the Ricochet Area, ground elevations vary from about 700 to 750 feet MSL along Stony Valley to about 1,200 to 1,600 feet MSL along the Stony Mountain ridge.

Ecology: No federally listed threatened or endangered species are located within the Ricochet Area. However, the area is located within Pennsylvania State Game Lands Number 211, a natural recreational area and habitat for more than 135 animal species.

Flora of the Stony Creek floodplain and streamside includes hemlocks and white pines with tulip tree, black birch, and red maple. Other tree species include American beech, white oak, red oak, and black gum, while the understory is variable with areas of rhododendron, paw paw, witch hazel, striped maple, and running strawberry bush. Some wet areas support jack-in-the-pulpit, ferns, sphagnum moss, as well as orchids. Flora of the slopes and ridges includes, from bottom to top, hemlock-white pine blends, chestnut oak, black birch, and red maple. Understory flora includes mountain laurel and blueberries (PADER, 1979).

The floodplain and streamside support a variety of frogs and salamanders as well as turtles, while the slopes and ridges host deer mice, redback voles, red bats, big brown bats, eastern moles, masked shrews, flying squirrels, raccoons, opossums, red and gray foxes, whitetail deer, and occasional black bears (PADER, 1979).

The valley hosts a pack of eastern coyote as well as another unusual species, the woodland jumping mouse. The many boulder fields support lichens, some mosses, and hardy ferns, which are slowly breaking the rock into soil and offer a potential habitat for the rock shrew. Finally, the area provides an important breeding and wintering area for the bluebird species (PADER, 1979).

Stony Creek has been described as a low alkaline stream that meanders through shale and sandstone formations, hence the low carbonate content. The stream's narrow range of water temperature limits the resident fauna and the succession of fungi and bacteria essential to the stream ecosystem. Studies show a relatively low number of benthic macroinvertebrates and native trout. The acid mine drainage impact to Stony Creek appears to be minor (PADER, 1979).

4.2.7 Land Use and Exposure Profile

4.2.7.1. Current Land Use/Activities

The Stony Creek area is host to a number of recreational uses, including fishing, hunting, hiking, bicycle riding, cross-country skiing, snowmobiling, horseback riding, dog sledding, Fall Drive-Thru (sponsored by Game Commission), bird watching, snake hunting, snowshoeing, and other outdoor activities. Other non-recreational activities include trail, game, and forest maintenance performed by Game Commission employees and trail maintenance personnel associated with trail preservation organizations such as various chapters of the Appalachian Trail Club.

4.2.7.2. Current Human Receptors

Current human receptors include recreational visitors (hikers, bikers, and hunters), Game Commission personnel, and trail maintenance personnel.

4.2.7.3. Potential Future Land Use

Future land use throughout the Ricochet Area is expected to be the same as the current land use. The Pennsylvania Game Commission Management Plan includes access road construction and maintenance (two service roads whose upkeep involves grading, resurfacing, seeding, and maintenance of cross-drainage, culverts, and bridges); special wildlife areas management (maintaining food plots, pipelines, and electric transmission right-of-way; developing open acreage and strip mine treatment to stop acid discharge); maintenance of preservation areas (some clearings for scenic vista points); and timber management (thinning or regeneration-cutting of some areas).

4.2.7.4. Potential Future Receptors

Potential future human receptors are anticipated to primarily consist of recreational visitors (hikers, bikers, and hunters), Game Commission personnel, and trail maintenance personnel.

4.2.7.5. Ecological Receptors

Ecological receptors potentially include the fauna and flora described in section 4.2.6.

4.2.8 Munitions/Release Profile

Table 4-1 summarizes the types of munitions that may potentially exist within the Ricochet Area based on information obtained during the HRR. The mechanisms by which the munitions were released into the environment are also presented in this table. The typical release mechanisms for the Ricochet Area were projectiles that ricochet northward over Second Mountain and into the Ricochet Area.

Table 4-1: Summary of Potential Munitions Types – Ricochet Area

MMRP Site	Potential Munitions	Primary Release Mechanism
Ricochet Area	**60mm, 81mm and 4.2-inch mortars** **75mm, 105mm, 155mm, and 8-inch projectiles**	**Howitzer** **Tank** **Gun Mortar**

4.2.8.1. Maximum Probable Penetration Depth

The deflection of munitions off of a target, rock, or other object will greatly reduce its kinetic energy, and thus reduce its likely penetration depth. In addition, it is likely that the munitions struck only a glancing blow in the area because of the steep slopes and rocky conditions. Table 4-2 shows “worst-case” penetration estimates for various munitions cited

(source: Table 7.3, "Engineering and Design: Ordnance and Explosives Response" EM1110-1-4009, June 2000).

Table 4-2: Potential Penetration Depths for Some of the Ricochet Area Munitions Types

Ordnance From	Depth of Penetration (ft) (a)
60mm, M49A1 (charge 4)	**1.1**
81mm, M43A1 (charge 8)	**2.7**
105mm, M1 (charge 7)	**7.7**
155mm, M107	**14.0**

(a) Penetration depths are for sands and assume the following "worst-case" assumptions: impact velocity is equal to maximum velocity of round; impact is perpendicular to ground surface, munitions decelerate subsurface in a straight line, munitions do not deform on impact. The Ricochet Area soils are thin and poorly developed and depths to bedrock are very shallow, therefore, actual penetrations depths will be much less or none.

4.2.8.2. Associated Munitions Constituents

As previously noted in Table 2-2, the potential munitions constituents include C4, TNT, lead azide, lead styphnate, mercury fulminate, RDX, HMX, tetryl, and their breakdown products.

4.2.8.3. Transport Mechanisms/Migration Routes

The CSM considers exposure and migration pathways via soil, surface water/sediment, and groundwater. Because MC potentially associated with this MRS (explosives and metals) are not volatile, the air migration pathway is not complete. The primary transport mechanisms and their viability and potential significance in the Ricochet Area include the following:

Erosion: Although the Ricochet Area is characterized by steep topography, the area is well vegetated and the rocky terrain resists erosion. Flooding of Stony Creek during unusual precipitation events could cause localized stream bank erosion; however, the Stony Creek stream banks represent only a tiny portion of the Ricochet Area. Overall, the potential for erosion that would transport MEC or MC is considered limited.

***Soil Disturbance*:** Surface and subsurface disturbances, other than by natural erosion, are considered unlikely within the Ricochet Area because it is a wilderness area where construction activities are not planned. A possible exception is on hiking trails where over-use sometimes results in localized soil disturbances.

Infiltration: There is a potential for MC migration to shallow groundwater in the immediate vicinity of the MEC. However, the anticipated very low density of MEC occurrence suggests that, overall, leaching and infiltration potential is very limited.

4.2.9 Pathway Analysis

The munitions of concern in the Ricochet Area are larger diameter (60mm to 8-inch) shells and projectiles. The likelihood of the presence of MEC in the area is relatively low because the Ricochet Area was never a designated target or impact area. Accordingly, no MEC was observed. In addition, the fact that the Ricochet Area is a wilderness area greatly reduces the number of potential human receptors who could encounter MEC and MC. Together these two factors (low MEC/MC density and few receptors) reduce the probability of human exposure to MEC and MC within the Ricochet Area.

Figures 4-1 and 4-2 present the exposure pathway analyses for MC and MEC, respectively. Figure 4-1 indicates that all MC exposure pathways are judged to be incomplete because the SI soil sample analytical results do not indicate the presence of MC, as previously discussed in Section 3.2.2.

Figure 4-2 indicates that several MEC exposure pathways are judged to potentially be complete even though the SI field work discovered no MEC. The pathways are potentially complete because of historic confirmation of MEC (see Section 2.3 discussion).

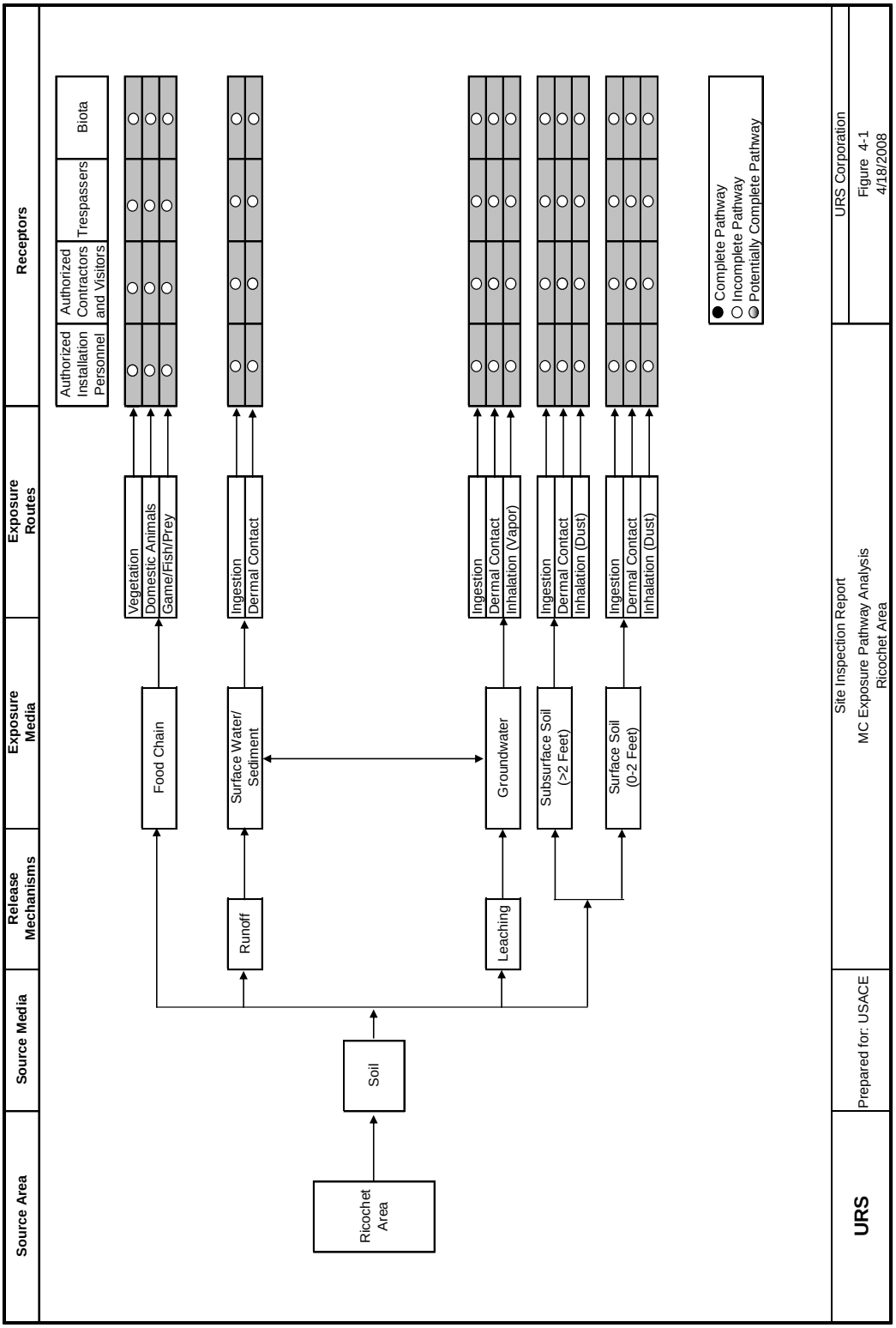

Figure 4-1: MC Exposure Pathway Analysis, Ricochet Area, Fort Indiantown Gap, PA

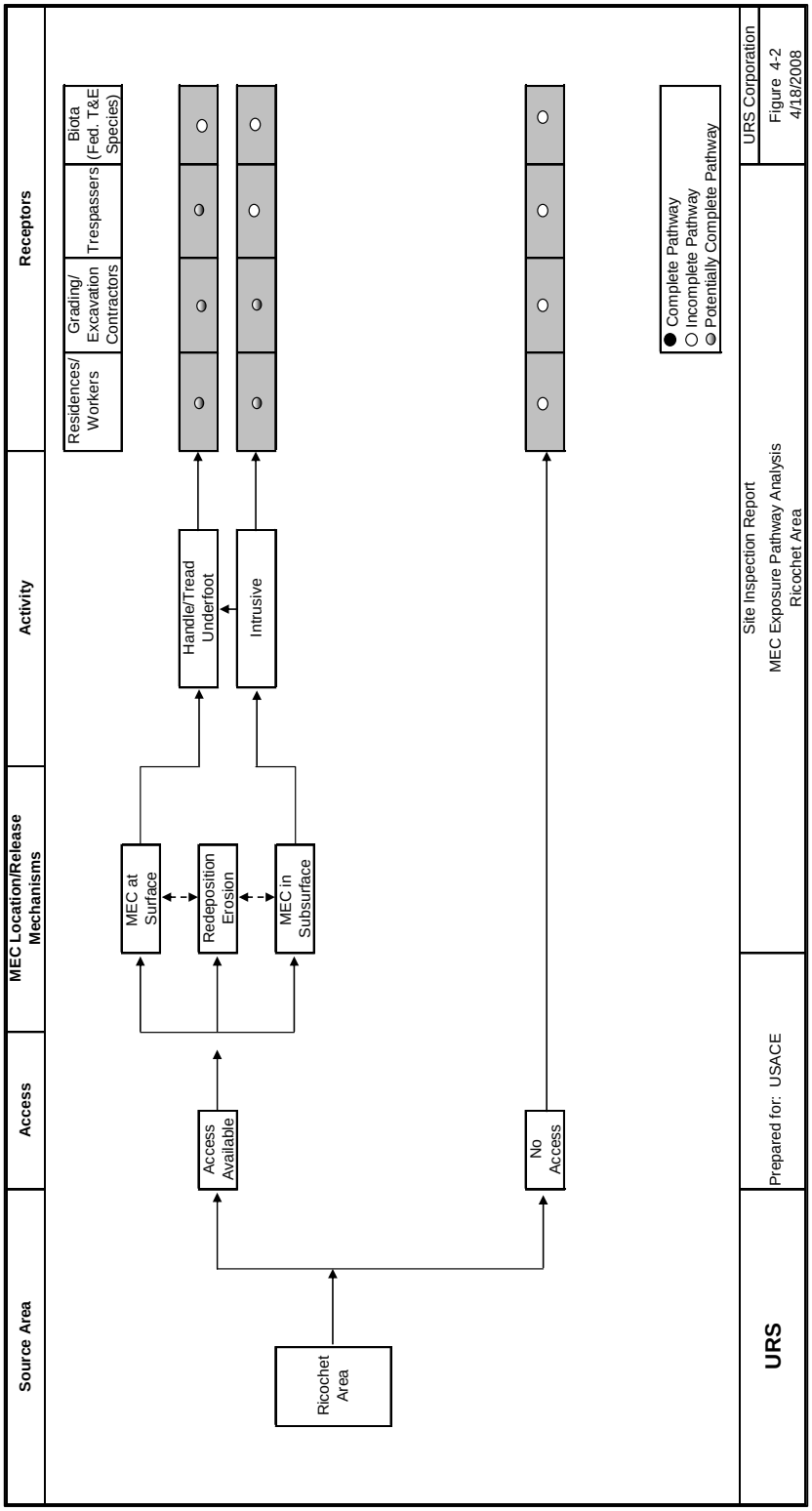

Figure 4-2: MEC Exposure Pathway Analysis, Ricochet Area, Fort Indiantown Gap, PA

5. SUMMARY AND CONCLUSIONS

As a result of the SI findings, an RI is recommended for the Ricochet Area. Tables 5-1 and 5-2 reiterate the SI findings. Figure 5-1 illustrates the Ricochet Area MRS.

Table 5-1: Summary of SI Findings

MRS (AEDB-R No.)	Acreage CTT/HRR/SI	Basis for Acreage Changes	Primary MEC and MC	
			MEC	MC
Ricochet Area (FTIG-003-R-01)	9,122 / 8,002 / 8,002	The acreage decreased from 9,122 to 8,002 acres as a result of making the northern boundary of the Ricochet Area coincide with the Sharp Mountain ridge line.	None confirmed.	None confirmed.
Cold Spring Range Fan (FTIG-004-R-01)	1,231 / 0 / 0	The HRR confirmed the Cold Spring Range Fan location and size. It is entirely within the Ricochet Area and involves similar MEC / MC issues; therefore, it was entirely incorporated into the Ricochet Area and its acreage is revised to zero.	- -	- -

Table 5-2: Summary of SI Recommendations

MRS (AEDB-R No.)	MRSPP Priority	Recommendations		Basis for Recommendation	
		MEC	MC	MEC	MC
Ricochet Area (FTIG-003-R-01)	2	RI	NFA	Although no MEC was detected during the SI, only a small portion of the Ricochet Area was addressed during the SI. MEC (WWII Sherman Tank round) was confirmed in the Ricochet Area.	In the event that MEC or munitions debris is encountered during the RI, sampling and analysis is recommended to assess potential MC release associated with the item found.

Although the SI did not confirm the presence of MEC, an RI is recommended for the Ricochet Area with respect to MEC because: 1) only a small portion of the Ricochet Area was addressed during the SI, and 2) MEC (WWII Sherman tank round) was confirmed in the Ricochet Area. The SI did not confirm the presence of MC; therefore, NFA is recommended for the Ricochet Area with respect to MC.

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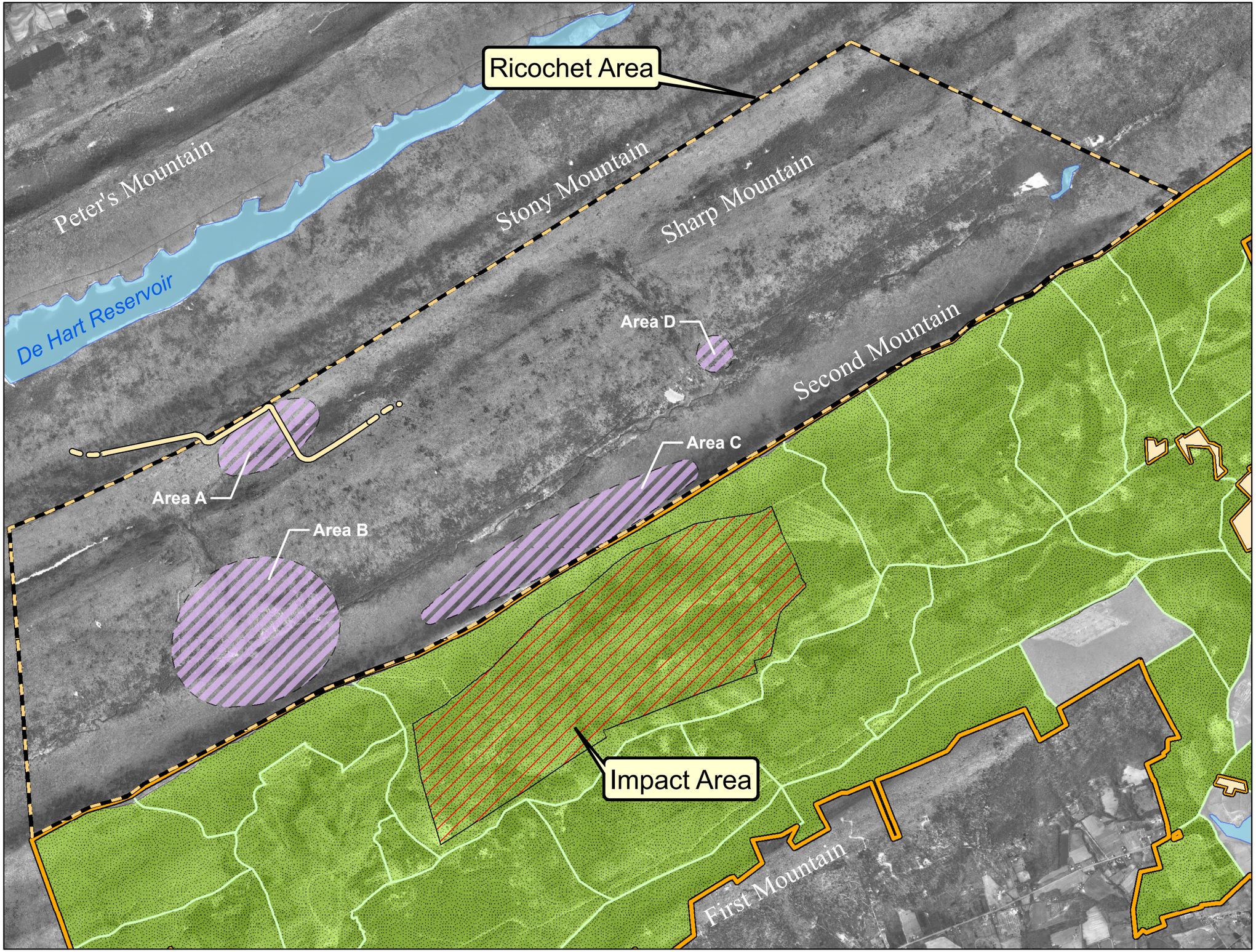

URS
200 Orchard Ridge Drive
Gaithersburg, MD 20878

Legend

- Approximate Location of Segmant of Appalachian Trail
- Current Base Boundary
- Training Areas
- Waterbody
- MRS Boundary
- Operational Range Area
- Non Range, Non UXO-DMM-MC Area
- Inholdings (private Property)
- Areas of MEC and Inert Projectiles

A: Inert 75mm Projectile
B: Inert 105mm Tank Rounds
C: Inert Illumination Canisters
D: WWII HE Sherman Tank Round

N
W E
S

1:36,000

0 0.5 1 Kilometers
0 0.5 1 Miles

File: G:\Projects\MMRP\Fort Indiantown Gap\FIG_UXO\15298911_FIG\Projects\2008\Fig 5-1_RicochetAreaMRS_20080508.mxd
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Checked: BE
Senior: BE

Figure 5-1
Ricochet Area MRS
Fort Indiantown Gap, PA

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6. REFERENCES

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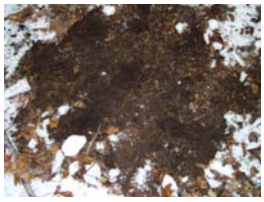
Appendix A

Photographs

FTIG1SSC02

FTIG1SSC05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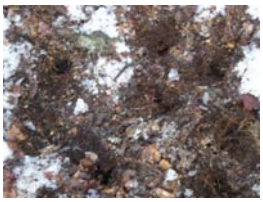
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Appendix B

Analytical Data

CLIENT_ID	LAB_ID	SAMPLE_DATE	PREP_DATE	ANALYSIS_DATE	MATRIX	COMPOUND_NAME	RESULTS	UNITS	FLAGS	LIMIT	MDL	DILUTION	BATCH_ID	TEST_NAME	METHOD_ID
FITG1SSC02	9716422002	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.05	mg/kg	J	0.26	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSC02	9716422002	12/20/2007	12/27/2007	12/31/2007	S	Lead, Total	32	mg/kg		2	0.3	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	HMX	0.24	mg/kg	U	0.24	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007	12/31/2007	1/7/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC02	9716422002	12/20/2007		12/20/2007	S	Moisture	32.3	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC02	9716422002	12/20/2007		12/20/2007	S	Total Solids	67.7	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC05	9716422005	12/18/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.08	mg/kg	J	0.47	0.04	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSC05	9716422005	12/18/2007	12/27/2007	12/31/2007	S	Lead, Total	163	mg/kg		4	0.5	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	HMX	0.24	mg/kg	U	0.24	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007	12/31/2007	1/7/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC05	9716422005	12/18/2007		12/20/2007	S	Moisture	59.5	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC05	9716422005	12/18/2007		12/20/2007	S	Total Solids	40.5	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC08	9716422008	12/19/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.11	mg/kg	J	0.52	0.04	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSC08	9716422008	12/19/2007	12/27/2007	12/31/2007	S	Lead, Total	66	mg/kg		3	0.4	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	HMX	0.24	mg/kg	U	0.24	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007	12/31/2007	1/8/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC08	9716422008	12/19/2007		12/20/2007	S	Moisture	63.2	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC08	9716422008	12/19/2007		12/20/2007	S	Total Solids	36.8	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC11	9716422011	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.2	mg/kg	J	0.45	0.04	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSC11	9716422011	12/20/2007	12/28/2007	12/31/2007	S	Lead, Total	50	mg/kg		4	0.7	1	19374	Total Metals 6010B/3050B	SW846 6010B

CLIENT_ID	LAB_ID	SAMPLE_DATE	PREP_DATE	ANALYSIS_DATE	MATRIX	COMPOUND_NAME	RESULTS	UNITS	FLAGS	LIMIT	MDL	DILUTION	BATCH_ID	TEST_NAME	METHOD_ID
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007	12/31/2007	1/8/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11	9716422011	12/20/2007		12/20/2007	S	Moisture	57.2	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC11	9716422011	12/20/2007		12/20/2007	S	Total Solids	42.8	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC11D	9716422013	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.22	mg/kg	J	0.5	0.04	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSC11D	9716422013	12/20/2007	12/28/2007	12/31/2007	S	Lead, Total	62	mg/kg		5	0.8	1	19374	Total Metals 6010B/3050B	SW846 6010B
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.09	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	HMX	0.24	mg/kg	U	0.24	0.009	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007	12/31/2007	1/8/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSC11D	9716422013	12/20/2007		12/21/2007	S	Moisture	66.8	%		0.1	0.1	1	48466	Total Solids on Solid Sample	SM20-2540 G
FITG1SSC11D	9716422013	12/20/2007		12/21/2007	S	Total Solids	33.2	%		0.1	0.1	1	48466	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD01	9716422001	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.19	mg/kg	J	0.89	0.08	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD01	9716422001	12/20/2007	12/27/2007	12/31/2007	S	Lead, Total	151	mg/kg		7	1	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007	12/31/2007	1/7/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD01	9716422001	12/20/2007		12/20/2007	S	Moisture	79.1	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD01	9716422001	12/20/2007		12/20/2007	S	Total Solids	20.9	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD03	9716422003	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.06	mg/kg	J	0.23	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD03	9716422003	12/20/2007	12/27/2007	12/31/2007	S	Lead, Total	63	mg/kg		3	0.4	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A

CLIENT_ID	LAB_ID	SAMPLE_DATE	PREP_DATE	ANALYSIS_DATE	MATRIX	COMPOUND_NAME	RESULTS	UNITS	FLAGS	LIMIT	MDL	DILUTION	BATCH_ID	TEST_NAME	METHOD_ID
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	HMX	0.24	mg/kg	U	0.24	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007	12/31/2007	1/7/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD03	9716422003	12/20/2007		12/20/2007	S	Moisture	29.8	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD03	9716422003	12/20/2007		12/20/2007	S	Total Solids	70.2	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD04	9716422004	12/18/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.06	mg/kg	J	0.29	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD04	9716422004	12/18/2007	12/27/2007	12/31/2007	S	Lead, Total	41	mg/kg		2	0.3	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007	12/31/2007	1/7/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD04	9716422004	12/18/2007		12/20/2007	S	Moisture	33	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD04	9716422004	12/18/2007		12/20/2007	S	Total Solids	67	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD06	9716422006	12/18/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.13	mg/kg	J	0.39	0.03	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD06	9716422006	12/18/2007	12/27/2007	12/31/2007	S	Lead, Total	97	mg/kg		3	0.5	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007	12/31/2007	1/7/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD06	9716422006	12/18/2007		12/20/2007	S	Moisture	52.4	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD06	9716422006	12/18/2007		12/20/2007	S	Total Solids	47.6	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD07	9716422007	12/19/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.07	mg/kg	J	0.29	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD07	9716422007	12/19/2007	12/27/2007	12/31/2007	S	Lead, Total	40	mg/kg		3	0.4	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A

CLIENT_ID	LAB_ID	SAMPLE_DATE	PREP_DATE	ANALYSIS_DATE	MATRIX	COMPOUND_NAME	RESULTS	UNITS	FLAGS	LIMIT	MDL	DILUTION	BATCH_ID	TEST_NAME	METHOD_ID
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.09	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	HMX	0.24	mg/kg	U	0.24	0.009	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007	12/31/2007	1/7/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD07	9716422007	12/19/2007		12/20/2007	S	Moisture	42.5	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD07	9716422007	12/19/2007		12/20/2007	S	Total Solids	57.5	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD09	9716422009	12/19/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.07	mg/kg	J	0.28	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD09	9716422009	12/19/2007	12/27/2007	12/31/2007	S	Lead, Total	23	mg/kg		2	0.2	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007	12/31/2007	1/8/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD09	9716422009	12/19/2007		12/20/2007	S	Moisture	35.9	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD09	9716422009	12/19/2007		12/20/2007	S	Total Solids	64.1	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD10	9716422010	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.14	mg/kg	J	0.36	0.03	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD10	9716422010	12/20/2007	12/27/2007	12/31/2007	S	Lead, Total	81	mg/kg		3	0.5	1	19373	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.24	mg/kg	U	0.24	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.24	mg/kg	U	0.24	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.24	mg/kg	U	0.24	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.24	mg/kg	U	0.24	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	HMX	0.24	mg/kg	U	0.24	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	RDX	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007	12/31/2007	1/8/2008	S	Tetryl	0.24	mg/kg	U	0.24	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD10	9716422010	12/20/2007		12/20/2007	S	Moisture	46.2	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD10	9716422010	12/20/2007		12/20/2007	S	Total Solids	53.8	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD12	9716422012	12/20/2007	1/7/2008	1/8/2008	S	Mercury, Total	0.08	mg/kg	J	0.28	0.02	1	19448	Mercury, Total-Soil/Solid	SW846 7471B
FITG1SSD12	9716422012	12/20/2007	12/28/2007	12/31/2007	S	Lead, Total	42	mg/kg		2	0.2	1	19374	Total Metals 6010B/3050B	SW846 6010B
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	1,3,5-Trinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	1,3-Dinitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	2,4,6-Trinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	2,4-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	2,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	2-Amino-4,6-Dinitrotoluene	0.25	mg/kg	U	0.25	0.03	1	1922	8330 Explosives Analysis - Soil	SW846 8330A

CLIENT_ID	LAB_ID	SAMPLE_DATE	PREP_DATE	ANALYSIS_DATE	MATRIX	COMPOUND_NAME	RESULTS	UNITS	FLAGS	LIMIT	MDL	DILUTION	BATCH_ID	TEST_NAME	METHOD_ID
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	2-Nitrotoluene	0.25	mg/kg	U	0.25	0.1	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	3-Nitrotoluene	0.25	mg/kg	U	0.25	0.08	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	4-Amino-2,6-dinitrotoluene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	4-Nitrotoluene	0.25	mg/kg	U	0.25	0.07	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	HMX	0.25	mg/kg	U	0.25	0.01	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	Nitrobenzene	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	RDX	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007	12/31/2007	1/8/2008	S	Tetryl	0.25	mg/kg	U	0.25	0.02	1	1922	8330 Explosives Analysis - Soil	SW846 8330A
FITG1SSD12	9716422012	12/20/2007		12/20/2007	S	Moisture	27.8	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G
FITG1SSD12	9716422012	12/20/2007		12/20/2007	S	Total Solids	72.2	%		0.1	0.1	1	48407	Total Solids on Solid Sample	SM20-2540 G

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Environmental ✦ Industrial Hygiene ✦ Field Services
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PROJECT TITLE: URS Corporation
USACE MMRP SI FTIG

Data Deliverable Group UUL-001

CLP-Like
DATA PACKAGE

SAMPLES COLLECTED
December 18, 19 and 20, 2007

Reviewed and Approved By: Susan Magness
Susan Magness, Data Validator

Date: 1/21/08

0001

0001

34 Dogwood Lane ✦ Middletown, PA 17057
TEL: 717-944-5541 ✦ FAX: 717-944-1430 ✦ Philadelphia 610-640-1323 ✦ Maryland 410-244-8889

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Total Metals by 6010B Summary Forms 494
Total Metals by 6010B Raw Data 507
- Total Metals by 6010B Sample Raw Data 508
- Total Metals by 6010B Standards Raw Data 535
  - Initial Calibrations 536
  - Continuing Calibrations 630
- Total Metals by 6010B QC Raw Data 652
  - Instrument Blank Raw Data 653
  - Method Blank Raw Data 669
  - LCS Raw Data 675
  - MS/MSD Raw Data 681
- Total Metals by Digestion Logbook 686
- Total Metals by 6010B Analytical Logbook 690

Total Mercury by 7471B Summary Forms 694

Total Mercury by 7471B Raw Data 699
Total Mercury Digestion Logbook 704
Total Mercury Analytical Logbook 706
Total Solids by 2540G Raw Data 708

Chain of Custody Records

Report ID: 9716422

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Environmental • Industrial Hygiene • Field Services
34 Dogwood Lane • Middletown, PA 17057 • 717.944.5541 • Fax: 717.944.1430

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

9716422

Co. Name: URS Corp.

Contact (Report to): Bill Eaton

Phone: 301-258-5804

Address: 200 Orchard Ridge Dr, Gaithersburg MD 20878

Bill to (if different than Report to):

PO#: 15298911

Project Name/#: FITG MMRP

ALSI Quote #:

TAT: ☑ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.

Date Required:

Approved By: SP

Email? ☑ -Y

Fax? ☐ -Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Explosives	Hg and Pb only	TS
1 FITG1SSD01		12/20/07	0940	G	SO	1	~~1~~	~~1~~
2 FITG1SSC02		12/20/07	0910	C		1	~~1~~	~~1~~
3 FITG1SSD03		12/20/07	0840	G		1	~~1~~	~~1~~
4 FITG1SSD04		12/18/07	1445	G		2	~~2~~	~~2~~
5 FITG1SSC05		12/18/07	1415	C		2	~~2~~	~~2~~
6 FITG1SSD06		12/18/07	1330	G		2	~~2~~	~~2~~
7 FITG1SSD07		12/18/07	1210	G		1	~~1~~	~~1~~
8 FITG1SSC08		12/18/07	1255	C		1	~~1~~	~~1~~

Enter Number of Containers Per Analysis

	1	2	3	4	5	6	7	8
**Container Type	jar	jar	jar					
**Container Size	8oz	8oz	8oz					
Preservative	NA	NA	NA					

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiver)
Performed by: INITIAL HERE
Cooler Temp: 4
Therm. ID: 5107255
No. of Coolers:
Notes:

Circle appropriate Y or N.	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Custody seals Present?	(If present) Seals Intact?	Received on ice?	COC/Labels complete/accurate?	Container in good condition?
N	N	N	N	N					
Y	Y	Y	Y	Y					
N	N	N	N	N	N	N	N	N	N
Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

SAMPLED BY (Please Print): Scott Pitz

LOGGED BY (signature): DATE 12/20/07 TIME 1826

REVIEWED BY (signature): J. Kelly DATE 12/26/07 TIME 0938

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/20/07	1700	2		
3	12/20/07	1730	4	12/20/07	1730
5			6		
7			8		
9			10		

Data Deliverables: ☑ Standard ☑ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ DQR

SDWA Format? yes ☐ yes ☐ yes ☐ yes ☐

State Samples Collected In? MD ☐ NJ ☐ NY ☐ PA ☑

EDDs Required? ☑ If yes, format type: Other Excel + EDIS

DOD Criteria Required? DoD QSM v3

ALSI FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite

**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Rev 6/07

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2
Courier:
Tracking #:
COC# 0716402

Co. Name: URS Corp.
Contact (Report to): Bill Eaton
Phone: 301-258-5804
Address: 200 Orchard Ridge Dr
Gaithersburg MD 20878

Bill to (if different than Report to):
PO#: 15298911

Project Name/#: FITG MMRP
ALSI Quote #:
TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email? Y bill_eaton@urscorp.com
Fax? Y No.:

	***Container Type	***Container Size	Preservative	Explosives	Hg and Pb only	TS
	Jar	8oz	NA			
	Jar	8oz	NA			
	Jar	8oz	NA			

ANALYSES/METHOD REQUESTED

	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Explosives	Hg and Pb only	TS
9	FITG 1SS D09		12/20/07	1315	G	SO	1	+	+
10	FITG 1SS D10		12/20/07	1330	G		1	+	+
11	FITG 1SS C11		12/20/07	1215	C		3+	+	+
13	FITG 1SS C11D		12/20/07	1215	C		+	+	+
5	FITG 1SS C11MSD	MS/MSD per Pandora	12/20/07	1215	C		+	+	+
12	FITG 1SS D12	Sanson JK 12/21/07	12/20/07	1245	G		1	+	+
7									
8									

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiving)
Performed by: INITIAL HERE
Cooler Temp: 4
Therm. ID: 5107255
No. of Cooler:
Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y	Y	Y		
	N	N	N	N	N

	Custody seals Present?	(If present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
	Y				

SAMPLED BY (Please Print): Scott Pitt
LOGGED BY (signature): 12/20/07 1400
REVIEWED BY (signature): J. Kester 12/20/07 1020

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/20/07	1700	2		
3	12/20/07	1730	4	12/20	1730
5			6		
7			8		
9			10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; DOD
Signature: J. Kester
Data Deliverables required? yes / yes / yes / yes
State Samples Collected in? MD / NJ / NY / PA
EDDs Required? If yes, format type: Other Excel + ERIS
DOD Criteria Required? DOD QSM 13

ALSI FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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ALSI Laboratory Analysis Reports

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Certificate of Analysis

Project Name:	**USACE, MMRP SI,**	Workorder:	**9716422**
Purchase Order:	**15298911**	Workorder ID:	**UUL001|USACE MMRP SI FTIG**

Ms. Andrea Sansom
URS Corporation
849 International Drive
Suite 320
Linthicum Heights, MD 21090

January 9, 2008

Dear Ms. Sansom,

Enclosed are the analytical results for samples received by the laboratory on Thursday, December 20, 2007

ALSI is a National Environmental Laboratory Accreditation Conference (NELAC) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAC.

If you have any questions regarding this certificate of analysis, please contact Judy Kester (Project Coordinator) or Raymond J Martrano (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAC accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

Raymond J. Martrano
Laboratory Manager

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

0008

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SAMPLE SUMMARY

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Discard Date: 03/09/2008

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9716422001	FITG1SSD01	Solid	12/20/07 09:40	12/20/07 17:30	Scott Pitz
9716422002	FITG1SSC02	Solid	12/20/07 09:10	12/20/07 17:30	Scott Pitz
9716422003	FITG1SSD03	Solid	12/20/07 08:40	12/20/07 17:30	Scott Pitz
9716422004	FITG1SSD04	Solid	12/18/07 14:45	12/20/07 17:30	Scott Pitz
9716422005	FITG1SSC05	Solid	12/18/07 14:15	12/20/07 17:30	Scott Pitz
9716422006	FITG1SSD06	Solid	12/18/07 13:30	12/20/07 17:30	Scott Pitz
9716422007	FITG1SSD07	Solid	12/19/07 12:10	12/20/07 17:30	Scott Pitz
9716422008	FITG1SSC08	Solid	12/19/07 12:55	12/20/07 17:30	Scott Pitz
9716422009	FITG1SSD09	Solid	12/19/07 13:15	12/20/07 17:30	Scott Pitz
9716422010	FITG1SSD10	Solid	12/20/07 13:30	12/20/07 17:30	Scott Pitz
9716422011	FITG1SSC11	Solid	12/20/07 12:15	12/20/07 17:30	Scott Pitz
9716422012	FITG1SSD12	Solid	12/20/07 12:45	12/20/07 17:30	Scott Pitz
9716422013	FITG1SSC11D	Solid	12/20/07 12:15	12/20/07 17:30	Scott Pitz

Workorder Comments:

Notes

- -- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422001** Date Collected: 12/20/2007 09:40 Matrix: Solid
Sample ID: **FITG1SSD01** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U	1	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
1,3-Dinitrobenzene	0.25 U	2	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,4-Dinitrotoluene	0.25 U	3	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,6-Dinitrotoluene	0.25 U	4	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
WET CHEMISTRY											
Moisture	79.1		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	20.9		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	151		mg/kg	7	SW846 6010B	12/27/07	MNP	12/31/07 01:52	JWK	A1	
Mercury, Total	0.19J		mg/kg	0.89	SW846 7471B	1/7/08	CMD	1/8/08 08:58	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422002** Date Collected: 12/20/2007 09:10 Matrix: Solid
Sample ID: **FITG1SSC02** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	87		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
WET CHEMISTRY											
Moisture	32.3		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	67.7		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	32		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 01:57	JWK	A1	
Mercury, Total	0.05J		mg/kg	0.26	SW846 7471B	1/7/08	CMD	1/8/08 09:02	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422003** Date Collected: 12/20/2007 08:40 Matrix: Solid

Sample ID: **FITG1SSD03** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,4,6-Trinitrotoluene	0.24 U	5	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	87		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
WET CHEMISTRY											
Moisture	29.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	70.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	63		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:01	JWK	A1	
Mercury, Total	0.06J		mg/kg	0.23	SW846 7471B	1/7/08	CMD	1/8/08 08:05	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422004** Date Collected: 12/18/2007 14:45 Matrix: Solid
Sample ID: **FITG1SSD04** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
WET CHEMISTRY											
Moisture	33.0		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	67.0		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	41		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 02:06	JWK	A1	
Mercury, Total	0.06J		mg/kg	0.29	SW846 7471B	1/7/08	CMD	1/8/08 09:09	CMD	A2	

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422005** Date Collected: 12/18/2007 14:15 Matrix: Solid
Sample ID: **FITG1SSC05** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
1,3-Dinitrobenzene	0.24 U	6	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
RDX	0.24 U	7	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	109		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
WET CHEMISTRY											
Moisture	59.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	40.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	163		mg/kg	4	SW846 6010B	12/27/07	MNP	12/31/07 02:11	JWK	A1	
Mercury, Total	0.08J		mg/kg	0.47	SW846 7471B	1/7/08	CMD	1/8/08 09:12	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422006** Date Collected: 12/18/2007 13:30 Matrix: Solid
Sample ID: **FITG1SSD06** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
1,3-Dinitrobenzene	0.25 U	8	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
RDX	0.25 U	9	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	85		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
WET CHEMISTRY											
Moisture	52.4		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	47.6		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	97		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:15	JWK	A1	
Mercury, Total	0.13J		mg/kg	0.39	SW846 7471B	1/7/08	CMD	1/8/08 09:16	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422007** Date Collected: 12/19/2007 12:10 Matrix: Solid
Sample ID: **FITG1SSD07** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	90		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
WET CHEMISTRY											
Moisture	42.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	57.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	40		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:20	JWK	A1	
Mercury, Total	0.07J		mg/kg	0.29	SW846 7471B	1/7/08	CMD	1/8/08 09:30	CMD	A2	

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422008** Date Collected: 12/19/2007 12:55 Matrix: Solid
Sample ID: **FITG1SSC08** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U	10	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
1,3-Dinitrobenzene	0.24 U	11	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,4,6-Trinitrotoluene	0.24 U	12	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	90		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
WET CHEMISTRY											
Moisture	63.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	36.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	66		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:24	JWK	A1	
Mercury, Total	0.11J		mg/kg	0.52	SW846 7471B	1/7/08	CMD	1/8/08 09:34	CMD	A2	

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422009** Date Collected: 12/19/2007 13:15 Matrix: Solid
Sample ID: **FITG1SSD09** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	94		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
WET CHEMISTRY											
Moisture	35.9		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	64.1		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	23		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 02:46	JWK	A1	
Mercury, Total	0.07J		mg/kg	0.28	SW846 7471B	1/7/08	CMD	1/8/08 09:38	CMD	A2	

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422010** Date Collected: 12/20/2007 13:30 Matrix: Solid
Sample ID: **FITG1SSD10** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
1,3-Dinitrobenzene	0.24 U	13	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
WET CHEMISTRY											
Moisture	46.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	53.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	81		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:51	JWK	A1	
Mercury, Total	0.14J		mg/kg	0.36	SW846 7471B	1/7/08	CMD	1/8/08 09:41	CMD	A2	

Sample Comments:

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Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422011** Date Collected: 12/20/2007 12:15 Matrix: Solid
Sample ID: **FITG1SSC11** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
WET CHEMISTRY											
Moisture	57.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	42.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	50		mg/kg	4	SW846 6010B	12/28/07	MNP	12/31/07 03:13	JWK	A1	
Mercury, Total	0.20J		mg/kg	0.45	SW846 7471B	1/7/08	CMD	1/8/08 09:45	CMD	A2	

Sample Comments:

This sample was extracted and analyzed with an associated matrix spike and matrix spike duplicate in the 8330A analysis. Recoveries were in control for the matrix spike and matrix spike duplicate, however, precision between them was outside laboratory control limits.

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422012** Date Collected: 12/20/2007 12:45 Matrix: Solid
Sample ID: **FITG1SSD12** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	91		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
WET CHEMISTRY											
Moisture	27.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	72.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	42		mg/kg	2	SW846 6010B	12/28/07	MNP	12/31/07 03:27	JWK	A1	
Mercury, Total	0.08J		mg/kg	0.28	SW846 7471B	1/7/08	CMD	1/8/08 09:56	CMD	A2	

Sample Comments:

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Laboratory Manager

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34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422013** Date Collected: 12/20/2007 12:15 Matrix: Solid
Sample ID: **FITG1SSC11D** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	91		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
WET CHEMISTRY											
Moisture	66.8		%	0.1	SM20-2540 G			12/21/07 23:55	MBR	A	
Total Solids	33.2		%	0.1	SM20-2540 G			12/21/07 23:55	MBR	A	
METALS											
Lead, Total	62		mg/kg	5	SW846 6010B	12/28/07	MNP	12/31/07 03:42	JWK	A1	
Mercury, Total	0.22J		mg/kg	0.50	SW846 7471B	1/7/08	CMD	1/8/08 09:59	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

0022

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

PARAMETER QUALIFIERS\FLAGS

[1] 4-a-2,6-DNT was detected at 0.35 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[2] 1,3-DNB was detected at 0.06 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[3] 2,4-DNT was detected at 0.49 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[4] 2,6-DNT was detected at 0.24 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[5] 2,4,6-TNT was detected at 0.44 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[6] 1,3-DNB was detected at 0.98 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[7] RDX was detected at 0.14 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[8] 1,3-DNB was detected at 0.35 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[9] RDX was detected at 1.22 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[10] 4-a-2,6-DNT was detected at 0.19 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[11] 1,3-DNB was detected at 0.07 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[12] 2,4,6-TNT was detected at 0.12 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[13] 1,3-DNB was detected at 0.26 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

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INVOICE

Invoice to: Amy Chen
URS Corporation -Gaithersburg, MD
200 Orchard Ridge Drive
Suite 101
Gaithersburg, MD 20878

Invoice: 374992
Workorder: UUL001|USACE MMRP SI FTIG [9716422]
PO Number: 15298911
Client: URS Corporation -Linthicum, MD

Invoice Date: 1/10/2008
Received: 12/20/2007 6:25:17 PM
Re: USACE, MMRP SI, FTIG/3945
Manager: Judy Kester

Description	Qty	PerUnit	Total Cost
CLP-Like Data Deliverables	13 @	6.24	81.12
Custom EDD	13 @	6.24	81.12
Explosives, SW846 8330A	13 @	155.00	2,015.00
Lead, Total	13 @	22.00	286.00
Mercury, Total	13 @	26.00	338.00
Total Solids/Moisture	13 @	5.00	65.00
		Total $	2,866.24

Sample Charge Detail:

Lab ID	Sample ID	Turn	Collected	Received	Mx COC	Can Code
9716422001	FITG1SSD01	W010	12/20/2007 9:40	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00
9716422002	FITG1SSC02	W010	12/20/2007 9:10	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00

Terms: Net 30 days. A service charge of 1.5% per month will be added to invoices over 30 days past due.

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Received: 12/20/2007 6:25:17 PM
Re: USACE, MMRP SI, FTIG/3945
Manager: Judy Kester

Description			Qty	PerUnit		Total Cost
9716422003	FITG1SSD03	W010	12/20/2007 8:40	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00
9716422004	FITG1SSD04	W010	12/18/2007 14:45	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00
9716422005	FITG1SSC05	W010	12/18/2007 14:15	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00
9716422006	FITG1SSD06	W010	12/18/2007 13:30	12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE			6.24
	Custom EDD	30	CUSTOMEDD			6.24
	Explosives, SW846 8330A	10	8330S			155.00
	Lead, Total	10	6010BSPB			22.00
	Mercury, Total	10	7471HGS			26.00
	Total Solids/Moisture	10	S2540GSTS			5.00

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Invoice Date: 1/10/2008
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Re: USACE, MMRP SI, FTIG/3945
Manager: Judy Kester

Description			Qty	PerUnit	Total Cost
9716422007	FITG1SSD07	W010	12/19/2007 12:10	12/20/2007 S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00
9716422008	FITG1SSC08	W010	12/19/2007 12:55	12/20/2007 S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00
9716422009	FITG1SSD09	W010	12/19/2007 13:15	12/20/2007 S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00
9716422010	FITG1SSD10	W010	12/20/2007 13:30	12/20/2007 S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00

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Invoice Date: 1/10/2008
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Manager: Judy Kester

Description			Qty	PerUnit	Total Cost
9716422011	FITG1SSC11	W010	12/20/2007 12:15 12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00
9716422012	FITG1SSD12	W010	12/20/2007 12:45 12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00
9716422013	FITG1SSC11D	W010	12/20/2007 12:15 12/20/2007	S	
	CLP-Like Data Deliverables	30	CLPLIKE		6.24
	Custom EDD	30	CUSTOMEDD		6.24
	Explosives, SW846 8330A	10	8330S		155.00
	Lead, Total	10	6010BSPB		22.00
	Mercury, Total	10	7471HGS		26.00
	Total Solids/Moisture	10	S2540GSTS		5.00

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Case Narrative

Analytical Laboratory Services Inc.
Analytical Narrative
URS Corporation
UUL-001

SAMPLE MANAGEMENT

This report contains the results of the analysis of thirteen (13) solid samples collected on December 18, 19 and 20, 2007. Analytical results and quality control information are summarized in this data package.

SAMPLE RECEIPT

Samples arrived at ALSI via courier on December 20, 2007. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. Each sample was assigned a unique identification number (see Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Explosives by Method 8330A

Sample Handling: Thirteen soil samples were extracted and analyzed for explosives by Method 8330A. The sample extraction and analysis was performed within the holding times associated with the method. The sample identified as FITG1SSC11 (9716422011) was designated for the MS/MSD analysis in this group. This sample contained a large amount of moisture and once dried according to the method, there was insufficient sample available for sample and MS/MSD analysis within the client desired turn-around time. Extraction proceeded with the sample that was dried and available.

Blank: A method blank, identified as 427752MB, was extracted and analyzed with the samples in this deliverable group. No explosive analytes were detected in the blank.

Calibrations: The initial calibrations for explosive analytes were conducted on November 5, 2007. The initial calibration met method criteria for all target analytes.

Initial Calibration Validation: The initial calibration was validated by the analysis of a standard prepared from a source of material independent of that used for the initial calibration. The standard used for this second source initial calibration verification consisted of the explosive analytes at 100 µg/L. Target analytes were in control.

Calibration Verification: The initial calibration was verified prior to and following the analysis of the samples in this group with calibration check standards containing the explosives. All results were in control. Calibration verification occurred after every 12 hours or after every 10 project samples, whichever frequency was greater.

Analytical Wavelengths: The detector used for this analysis is capable of collecting data at multiple wavelengths, simultaneously. Based on the absorptivity of the explosive analytes and the background signal, the wavelengths of 235 and 265 nm were selected. Based on these factors, as well as the results of the initial calibration and the calibration verifications, the following analytes were reported from the data at 235 nm (data file prefixes ZA7A and ZA8A): HMX; RDX; 1,3,5-TNB; 1,3-DNB; 2,4,6-TNT; 4-α-2,6-DNT; 2-α-4,6-DNT; 2,6-DNT; and 2,4-DNT. The remaining analytes: NB; Tetryl; 2-NT; 4-NT; 3-NT; and the surrogate, were reported from the data at 265 nm (data file prefixes ZA7B and ZA8B).

Surrogates: A one-component surrogate, 1-chloro-3-nitrobenzene, was added to each project and QC sample. Recoveries were within control in the initial analysis of each sample. In the confirmation analysis of sample FITG1SSC08 (9716422008), the surrogate recovery was below the QC limits.

Laboratory Control Sample: A laboratory control sample, identified as 427753LCS, was analyzed with the samples in this deliverable group. The target explosive analytes were recovered within laboratory control limits.

Matrix Spike: A matrix spike and matrix spike duplicate identified as 427754 and 427755, respectively, were prepared from the project sample FITG1SSC11 (9716422011). Target analyte recoveries of the explosive analytes were in control, with the exception of 2-Nitrotoluene and 4-nitrotoluene, in the initial analysis. These analytes were recovered within QC limits in the confirmatory analysis. With the exception of 4-Nitrotoluene, precision, as determined by MS/MSD recovery, met laboratory control limits for all target analytes. Precision of 4-Nitrotoluene exceeded QC limits in both the initial and confirmatory analysis.

Confirmation (second column) Analysis: The samples identified as FITG1SSD01, FITG1SSD03, FITG1SSC05, FITG1SSD06, FITG1SSC08, and FITG1SSD10, showed detections of explosive analytes from the primary analysis performed on January 7, 2008. These samples were selected for confirmation analysis on a dissimilar column. The detections observed from the primary analysis were not observed in the confirmation analysis performed on January 8, 2008. The detections are included on the laboratory report as comments, and should be considered suspect.

Total Metals by SW-846 Method 3050/6010B

Sample handling. Thirteen (13) soil samples were digested by SW-846 method 3050, and the digestates were analyzed for total metals on the TJA TRACE ICP using SW-846 method 6010B. All samples were digested and analyzed within the six-month holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard, an initial calibration blank (ICB), an initial performance check (CCV), and an interference check standard (ICS). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibrations and check standards were within the control limits for this method.

Blanks. Reagent (calibration) blanks were analyzed following the calibrations, after every ten samples, and at the conclusion of the runs. Metals were not present in any of the reagent blanks at a detectable level. Two method blanks, identified as samples 427706-MB and 427794-MB, were digested and analyzed with the samples in this deliverable group. Metals were not detected in the method blanks.

Laboratory Control Sample. Two laboratory control samples, identified as 427707-LCS and 427795-LCS, were digested and analyzed with the samples in this deliverable group. The LCS recoveries were within control limits.

Spikes. A matrix spike and matrix spike duplicate identified as 427796 and 427797 were digested and analyzed on sample 9716422011 (FITG1SSC11) in this deliverable group. All spike recoveries and relative percent differences evaluated were within control limits.

Mercury by SW-846 Method 7471

Sample handling. Thirteen (13) soil samples were analyzed for total mercury on the CETAC Hg Analyzer using SW-846 method 7471B. The samples were digested and analyzed within the 28-day holding time established for the method.

Calibration. The day that the samples were analyzed, an initial calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not present in any of the reagent blanks at a detectable level. A method blank, identified as sample 429573-MB was digested and analyzed with the samples in this deliverable group. Mercury was not detected in the method blank.

Laboratory Control Sample. A laboratory control sample, identified as 429574-LCS, was digested and analyzed with the samples in this deliverable group. The laboratory control sample recovery was within control limits.

Spikes. A matrix spike and matrix spike duplicate, identified as 427796 and 427797, were digested and analyzed on sample 9716422011 (FITG1SSC11) (BK-03-1.0). The spike recoveries and their RPD were within control limits.

Total Solids by SM 2540G

Sample handling. Thirteen (13) solid samples were analyzed for total solids by Standard Method 2540G. The samples were analyzed within the 7-day hold time established for the method.

MDL Studies

Method Detection Limit Studies
GC

Instrument: HPLC1
Analysis Method: 8330A
Matrix: soil

Analyte	Units	Analysis Date	MDL	Reporting Limit
HMX	mg/kg	11/17/06	**0.01**	**0.25**
RDX	mg/kg	11/17/06	**0.02**	**0.25**
1,3,5-Trinitrobenzene	mg/kg	11/17/06	**0.02**	**0.25**
Tetryl	mg/kg	11/17/06	**0.02**	**0.25**
1,3-Dinitrobenzene	mg/kg	11/17/06	**0.02**	**0.25**
2,4,6-Trinitrotoluene	mg/kg	11/17/06	**0.02**	**0.25**
Nitrobenzene	mg/kg	11/17/06	**0.02**	**0.25**
4-Amino-2,6-Dinitrotoluene	mg/kg	11/17/06	**0.02**	**0.25**
2-Amino-4,6-Dinitrotoluene	mg/kg	11/17/06	**0.03**	**0.25**
2,6-Dinitrotoluene	mg/kg	11/17/06	**0.03**	**0.25**
2,4-Dinitrotoluene	mg/kg	11/17/06	**0.03**	**0.25**
2-Nitrotoluene	mg/kg	11/17/06	**0.10**	**0.25**
4-Nitrotoluene	mg/kg	11/17/06	**0.07**	**0.25**
3-Nitrotoluene	mg/kg	11/17/06	**0.08**	**0.25**

Method Detection Limits
Metals

Analysis Method: 6010B
Prep Method: 3050B - Hotplate digestion
Instrument: TJA TRACE ICP
Matrix: 5% HNO_3 & 10% HCl

Analyte	Units	Analysis Date	MDL	Reporting Limit
Lead	mg/kg	2/26/07	**0.30**	**2.00**

Method Detection Limits
Mercury

Analysis Method:	7471
Prep Method:	Autoclave digestion
Instrument:	CETAC (M-6100)
Matrix:	Soil: 0.15% HNO_3

Analyte	Units	Analysis Date	MDL	Reporting Limit
Mercury	mg/kg	8/27/07	**0.0900**	**1.000**

0035

Explosives by 8330A Summary Forms

FORM 1 In-house QC Account SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

427752MB

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427752

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A002

Level: (low/med) LOW Date Received: 12/27/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.250000	U
98-95-3	Nitrobenzene	0.250000	U
606-20-2	2,6-Dinitrotoluene	0.250000	U
121-14-2	2,4-Dinitrotoluene	0.250000	U
88-72-2	2-Nitrotoluene	0.250000	U
99-99-0	4-Nitrotoluene	0.250000	U
99-08-1	3-Nitrotoluene	0.250000	U
121-82-4	RDX	0.250000	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.250000	U
2691-41-0	HMX	0.250000	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.250000	U
99-65-0	1,3-Dinitrobenzene	0.250000	U
479-45-8	Tetryl	0.250000	U
99-35-4	1,3,5-Trinitrobenzene	0.250000	U

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

427752MB

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427752

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B002

Level: (low/med) LOW Date Received: 12/27/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04~~/27/01~~ 12-31-07 SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.250000	U
98-95-3	Nitrobenzene	0.250000	U
606-20-2	2,6-Dinitrotoluene	0.250000	U
121-14-2	2,4-Dinitrotoluene	0.250000	U
88-72-2	2-Nitrotoluene	0.250000	U
99-99-0	4-Nitrotoluene	0.250000	U
99-08-1	3-Nitrotoluene	0.250000	U
121-82-4	RDX	0.250000	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.250000	U
2691-41-0	HMX	0.250000	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.250000	U
99-65-0	1,3-Dinitrobenzene	0.250000	U
479-45-8	Tetryl	0.250000	U
99-35-4	1,3,5-Trinitrobenzene	0.250000	U

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

427753LCS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427753

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A003

Level: (low/med) LOW Date Received: 12/27/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.983466	
98-95-3	Nitrobenzene	1.00366	
606-20-2	2,6-Dinitrotoluene	1.00038	
121-14-2	2,4-Dinitrotoluene	1.01361	
88-72-2	2-Nitrotoluene	1.14540	
99-99-0	4-Nitrotoluene	1.07276	
99-08-1	3-Nitrotoluene	0.998137	
121-82-4	RDX	1.05641	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.995012	
2691-41-0	HMX	0.990324	
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.981684	
99-65-0	1,3-Dinitrobenzene	1.01975	
479-45-8	Tetryl	1.04253	
99-35-4	1,3,5-Trinitrobenzene	1.02298	

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

427753LCS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427753

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B003

Level: (low/med) LOW Date Received: 12/27/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04~~/27/~~01 12/31/07 SMI 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.968605	
98-95-3	Nitrobenzene	1.00710	
606-20-2	2,6-Dinitrotoluene	0.955276	
121-14-2	2,4-Dinitrotoluene	0.994018	
88-72-2	2-Nitrotoluene	0.944799	
99-99-0	4-Nitrotoluene	0.949431	
99-08-1	3-Nitrotoluene	0.893443	
121-82-4	RDX	1.08438	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.983232	
2691-41-0	HMX	0.250000	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.917071	
99-65-0	1,3-Dinitrobenzene	1.01539	
479-45-8	Tetryl	1.01268	
99-35-4	1,3,5-Trinitrobenzene	0.916040	

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD01

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422001

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A004

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.346202	
98-95-3	Nitrobenzene	0.626651	
606-20-2	2,6-Dinitrotoluene	0.239872	J
121-14-2	2,4-Dinitrotoluene	0.489198	
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.0573994	J
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD01

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422001

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B004

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04~~/27/01~~ 12-31-07 AM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC02

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422002

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A005

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC02

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422002

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B005

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD03

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422003

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A006

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.443200	
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD03

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422003

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B006

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12-31-07 SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD04

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422004

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A007

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
98-95-3	Nitrobenzene	0.233992	J
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-82-4	RDX	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
2691-41-0	HMX	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD04

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422004

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B007

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 am 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-82-4	RDX	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
2691-41-0	HMX	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC05

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422005

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7A008

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.139861	J
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.983898	
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC05

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422005

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7B008

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 am 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.868544	
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD06

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422006

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A009

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	2.00496	
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.380623	
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	1.22374	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.348149	
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD06

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422006

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B009

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 0~~4/27/0~~1 12/31/07 GM 1/2/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD07

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422007

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7A010

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/07/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-82-4	RDX	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
2691-41-0	HMX	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD07

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422007

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7B010

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/07/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-82-4	RDX	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
2691-41-0	HMX	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U

FORM 1 URS Corporation -Li SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC08

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422008

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7A011

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/08/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.189122	J
98-95-3	Nitrobenzene	0.435029	
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-82-4	RDX	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
2691-41-0	HMX	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.122452	J
99-65-0	1,3-Dinitrobenzene	0.0742159	J
479-45-8	Tetryl	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC08

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422008

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7B011

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 gr 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-82-4	RDX	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
2691-41-0	HMX	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
479-45-8	Tetryl	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U

FORM 1 URS Corporation -Li SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD09

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422009

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A013

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: ~~01/08/~~08 OK SW 1/21/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-82-4	RDX	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
2691-41-0	HMX	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD09

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422009

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B013

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-82-4	RDX	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
2691-41-0	HMX	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD10

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422010

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7A014

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/08/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	1.36732	
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.263463	
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD10

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422010

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7B014

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04~~/27/01~~ 12/31/07 SW 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422011

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A015

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/27/01 12/31/07 gw 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422011

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B015

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 SW 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11_MS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427754

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A016

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 GN 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.770354	
98-95-3	Nitrobenzene	0.907381	
606-20-2	2,6-Dinitrotoluene	1.22314	
121-14-2	2,4-Dinitrotoluene	1.16969	
88-72-2	2-Nitrotoluene	0.155581	J
99-99-0	4-Nitrotoluene	0.231484	J
99-08-1	3-Nitrotoluene	0.0958747	J
121-82-4	RDX	0.991397	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.881527	
2691-41-0	HMX	0.832368	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.00683	
99-65-0	1,3-Dinitrobenzene	0.980659	
479-45-8	Tetryl	0.922801	
99-35-4	1,3,5-Trinitrobenzene	0.938562	

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11_MS

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427754

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B016

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.176082	J
98-95-3	Nitrobenzene	0.964301	
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.714994	
88-72-2	2-Nitrotoluene	0.844254	
99-99-0	4-Nitrotoluene	0.750652	
99-08-1	3-Nitrotoluene	0.611818	
121-82-4	RDX	0.910103	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.340275	
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.830772	
99-65-0	1,3-Dinitrobenzene	0.917078	
479-45-8	Tetryl	0.926563	
99-35-4	1,3,5-Trinitrobenzene	0.855705	

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11_MSD

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427755

Sample wt/vol: 1.1 (g/mL) G Lab File ID: ZA7A017

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 SP 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	1.16958	
98-95-3	Nitrobenzene	1.74703	
606-20-2	2,6-Dinitrotoluene	1.86041	
121-14-2	2,4-Dinitrotoluene	1.92266	
88-72-2	2-Nitrotoluene	0.454545	U
99-99-0	4-Nitrotoluene	0.233387	J
99-08-1	3-Nitrotoluene	0.177269	J
121-82-4	RDX	1.75698	
35572-78-2	2-Amino-4,6-dinitrotoluene	1.42823	
2691-41-0	HMX	1.58226	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.53326	
99-65-0	1,3-Dinitrobenzene	1.81394	
479-45-8	Tetryl	1.72961	
99-35-4	1,3,5-Trinitrobenzene	1.73053	

FORM 1 In-house QC Account SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11_MSD

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 427755

Sample wt/vol: 1.1 (g/mL) G Lab File ID: ZA7B017

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 GW 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.671473	
98-95-3	Nitrobenzene	1.83307	
606-20-2	2,6-Dinitrotoluene	0.454545	U
121-14-2	2,4-Dinitrotoluene	1.30736	
88-72-2	2-Nitrotoluene	1.58620	
99-99-0	4-Nitrotoluene	1.42490	
99-08-1	3-Nitrotoluene	1.27402	
121-82-4	RDX	1.73158	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.587754	
2691-41-0	HMX	0.454545	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.55326	
99-65-0	1,3-Dinitrobenzene	1.70234	
479-45-8	Tetryl	1.76235	
99-35-4	1,3,5-Trinitrobenzene	1.51526	

FORM 1 URS Corporation -Li SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD12

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422012

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7A018

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/08/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.246305	U
98-95-3	Nitrobenzene	0.246305	U
606-20-2	2,6-Dinitrotoluene	0.246305	U
121-14-2	2,4-Dinitrotoluene	0.246305	U
88-72-2	2-Nitrotoluene	0.246305	U
99-99-0	4-Nitrotoluene	0.246305	U
99-08-1	3-Nitrotoluene	0.246305	U
121-82-4	RDX	0.246305	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.246305	U
2691-41-0	HMX	0.246305	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.246305	U
99-65-0	1,3-Dinitrobenzene	0.246305	U
479-45-8	Tetryl	0.246305	U
99-35-4	1,3,5-Trinitrobenzene	0.246305	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD12

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422012

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA7B018

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 ao 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.246305	U
98-95-3	Nitrobenzene	0.246305	U
606-20-2	2,6-Dinitrotoluene	0.246305	U
121-14-2	2,4-Dinitrotoluene	0.246305	U
88-72-2	2-Nitrotoluene	0.246305	U
99-99-0	4-Nitrotoluene	0.246305	U
99-08-1	3-Nitrotoluene	0.246305	U
121-82-4	RDX	0.246305	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.246305	U
2691-41-0	HMX	0.246305	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.246305	U
99-65-0	1,3-Dinitrobenzene	0.246305	U
479-45-8	Tetryl	0.246305	U
99-35-4	1,3,5-Trinitrobenzene	0.246305	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11D

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422013

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7A019

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: not dec. _____ Date Analyzed: 01/08/08

GC Column: C18 ID: 4.60 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-82-4	RDX	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
2691-41-0	HMX	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U

FORM 1 URS Corporation -Li SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC11D

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422013

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA7B019

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 GW 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-82-4	RDX	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
2691-41-0	HMX	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD01

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422001

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA8A002

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/~~01 12-31-07 SM 1/31/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.659601	
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD01

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422001

Sample wt/vol: 2.0(g/mL) G Lab File ID: ZA8B002

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: ~~04/27/01~~ 12/31/07 gm 1/2/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD03

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422003

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA8A003

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 cm 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	2.86430	
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD03

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422003

Sample wt/vol: 2.0(g/mL) G Lab File ID: ZA8B003

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: ~~04/27/01~~ 12/31/07 SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	2.47336	
98-95-3	Nitrobenzene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-82-4	RDX	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
2691-41-0	HMX	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC05

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422005

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA8A004

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 sm 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.615136	
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC05

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422005

Sample wt/vol: 2.1(g/mL) G Lab File ID: ZA8B004

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: ~~04/27/01~~ 12/31/07 sm 1/2/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD06

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422006

Sample wt/vol: 2.0 (g/mL) G Lab File ID: ZA8A005

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/31/07 ~~04/27/01~~ SM 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD06

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422006

Sample wt/vol: 2.0(g/mL) G Lab File ID: ZA8B005

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: ~~04/27/01~~ 12/31/07 12/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-82-4	RDX	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
2691-41-0	HMX	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC08

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422008

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA8A006

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: 04/27/01 12/31/07 1/2/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-82-4	RDX	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
2691-41-0	HMX	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
479-45-8	Tetryl	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U

FORM 1 URS Corporation -Li SAMPLE NO
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSC08

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422008

Sample wt/vol: 2.1(g/mL) G Lab File ID: ZA8B006

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 04/27/01 12/31/07 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-82-4	RDX	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
2691-41-0	HMX	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
479-45-8	Tetryl	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U

FORM 1 URS Corporation -Li SAMPLE NO.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD10

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422010

Sample wt/vol: 2.1 (g/mL) G Lab File ID: ZA8A007

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 decanted: (Y/N) N Date Extracted: ~~04/27/01~~ 12/31/07 gm 1/21/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 1 URS Corporation -Li SAMPLE NO
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FITG1SSD10

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix: (soil/water) SOIL Lab Sample ID: 9716422010

Sample wt/vol: 2.1(g/mL) G Lab File ID: ZA8B007

Level: (low/med) LOW Date Received: 12/20/07

% Moisture: 0 Decanted: (Y/N)N Date Extracted: 0~~4/27/0~~1 12/31/07 gro 1/24/08

Concentrated Extract Volume: 20000(uL) Date Analyzed: 01/08/08

Injection Volume: 100.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-82-4	RDX	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
2691-41-0	HMX	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Level: (low/med) LOW

Wavelength 265 nm 1/21/08.

	In-house QC SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	427752MB	88								
02	427753LCS	92								
03	FITG1SSD01	89								
04	FITG1SSC02	87								
05	FITG1SSD03	87								
06	FITG1SSD04	88								
07	FITG1SSC05	109								
08	FITG1SSD06	84								
09	FITG1SSD07	90								
10	FITG1SSC08	90								
11	FITG1SSD09	94								
12	FITG1SSD10	89								
13	FITG1SSC11	89								
14	FITG1SSC11_M	88								
15	FITG1SSC11_M	93								
16	FITG1SSD12	91								
17	FITG1SSC11D	91								
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

S1 = 1-C-3-NB

QC LIMITS
(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Level: (low/med) LOW

Wavelength 265 SM 1/21/08

	URS Corpora SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	FITG1SSD01	101								
02	FITG1SSD03	100								
03	FITG1SSC05	96								
04	FITG1SSD06	98								
05	FITG1SSC08	43*								
06	FITG1SSD10	104								
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

S1 = 1-C-3-NB

QC LIMITS
(50-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV

0084

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: 4277 Level:(low/med) LOW

427753 SM 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (mg/kg)	LCS % REC #	QC. LIMITS REC.
4-Amino-2,6-dinitrotolu	1.00000		0.983466	98	55-155
Nitrobenzene	1.00000		1.00366	100	50-140
2,6-Dinitrotoluene	1.00000		1.00038	100	60-135
2,4-Dinitrotoluene	1.00000		1.01361	101	60-135
2-Nitrotoluene	1.00000		1.14540	114	45-135
4-Nitrotoluene	1.00000		1.07276	107	50-130
3-Nitrotoluene	1.00000		0.998137	100	50-130
RDX	1.00000		1.05641	106	70-135
2-Amino-4,6-dinitrotolu	1.00000		0.995012	100	50-155
HMX	1.00000		0.990324	99	75-125
2,4,6-Trinitrotoluene(T	1.00000		0.981684	98	50-145
1,3-Dinitrobenzene	1.00000		1.01975	102	80-125
Tetryl	1.00000		1.04253	104	20-175
1,3,5-Trinitrobenzene	1.00000		1.02298	102	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 14 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: 4277 Level:(low/med) LOW

427753 GM 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (mg/kg)	LCS % REC #	QC. LIMITS REC.
4-Amino-2,6-dinitrotolu	1.00000		0.968605	97	55-155
Nitrobenzene	1.00000		1.00710	101	50-140
2,6-Dinitrotoluene	1.00000		0.955276	96	60-135
2,4-Dinitrotoluene	1.00000		0.994018	99	60-135
2-Nitrotoluene	1.00000		0.944799	94	45-135
4-Nitrotoluene	1.00000		0.949431	95	50-130
3-Nitrotoluene	1.00000		0.893443	89	50-130
RDX	1.00000		1.08438	108	70-135
2-Amino-4,6-dinitrotolu	1.00000		0.983232	98	50-155
HMX					75-125
2,4,6-Trinitrotoluene(T	1.00000		0.917071	92	50-145
1,3-Dinitrobenzene	1.00000		1.01539	102	80-125
Tetryl	1.00000		1.01268	101	20-175
1,3,5-Trinitrobenzene	1.00000		0.916040	92	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 14 outside limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: FITG Level:(low/med) LOW

427754
SM 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (mg/kg)	MS % REC #	QC. LIMITS REC.
4-Amino-2,6-dinitrotolu	0.995025		0.770354	77	55-155
Nitrobenzene	0.995025		0.907381	91	50-140
2,6-Dinitrotoluene	0.995025		1.22314	123	60-135
2,4-Dinitrotoluene	0.995025		1.16969	118	60-135
2-Nitrotoluene	0.995025		0.155581	16*	45-135
4-Nitrotoluene	0.995025		0.231484	23*	50-130
3-Nitrotoluene	0.995025		0.0958747	10*	50-130
RDX	0.995025		0.991397	100	70-135
2-Amino-4,6-dinitrotolu	0.995025		0.881527	88	50-155
HMX	0.995025		0.832368	84	75-125
2,4,6-Trinitrotoluene(T	0.995025		1.00683	101	50-145
1,3-Dinitrobenzene	0.995025		0.980659	98	80-125
Tetryl	0.995025		0.922801	93	20-175
1,3,5-Trinitrobenzene	0.995025		0.938562	94	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM II SV

0087

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: FITG Level:(low/med) LOW

427755 SMI 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Amino-2,6-dinitrotolu	1.81818	1.16958	64	18	40	55-155
Nitrobenzene	1.81818	1.74703	96	5	40	50-140
2,6-Dinitrotoluene	1.81818	1.86041	102	19	40	60-135
2,4-Dinitrotoluene	1.81818	1.92266	106	11	40	60-135
2-Nitrotoluene					40	45-135
4-Nitrotoluene	1.81818	0.233387	13*	56*	40	50-130
3-Nitrotoluene	1.81818	0.177269	10*	0	40	50-130
RDX	1.81818	1.75698	97	3	40	70-135
2-Amino-4,6-dinitrotolu	1.81818	1.42823	78	12	40	50-155
HMX	1.81818	1.58226	87	4	40	75-125
2,4,6-Trinitrotoluene(T	1.81818	1.53326	84	18	40	50-145
1,3-Dinitrobenzene	1.81818	1.81394	100	2	40	80-125
Tetryl	1.81818	1.72961	95	2	40	20-175
1,3,5-Trinitrobenzene	1.81818	1.73053	95	1	40	75-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 14 outside limits
Spike Recovery: 5 out of 28 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: FITG Level:(low/med) LOW

427754 SM 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (mg/kg)	MS % REC #	QC. LIMITS REC.
4-Amino-2,6-dinitrotolu	0.995025		0.176082	18*	55-155
Nitrobenzene	0.995025		0.964301	97	50-140
2,6-Dinitrotoluene					60-135
2,4-Dinitrotoluene	0.995025		0.714994	72	60-135
2-Nitrotoluene	0.995025		0.844254	85	45-135
4-Nitrotoluene	0.995025		0.750652	75	50-130
3-Nitrotoluene	0.995025		0.611818	61	50-130
RDX	0.995025		0.910103	91	70-135
2-Amino-4,6-dinitrotolu	0.995025		0.340275	34*	50-155
HMX					75-125
2,4,6-Trinitrotoluene(T	0.995025		0.830772	83	50-145
1,3-Dinitrobenzene	0.995025		0.917078	92	80-125
Tetryl	0.995025		0.926563	93	20-175
1,3,5-Trinitrobenzene	0.995025		0.855705	86	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Matrix Spike - In-house QC Sample No.: FITG Level:(low/med) LOW

427755 gm 1/18/08

COMPOUND	SPIKE ADDED (mg/kg)	MSD CONCENTRATION (mg/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Amino-2,6-dinitrotolu	1.81818	0.671473	37*	115*	40	55-155
Nitrobenzene	1.81818	1.83307	101	62*	40	50-140
2,6-Dinitrotoluene					40	60-135
2,4-Dinitrotoluene	1.81818	1.30736	72	59*	40	60-135
2-Nitrotoluene	1.81818	1.58620	87	62*	40	45-135
4-Nitrotoluene	1.81818	1.42490	78	62*	40	50-130
3-Nitrotoluene	1.81818	1.27402	70	70*	40	50-130
RDX	1.81818	1.73158	95	62*	40	70-135
2-Amino-4,6-dinitrotolu	1.81818	0.587754	32*	53*	40	50-155
HMX					40	75-125
2,4,6-Trinitrotoluene(T	1.81818	1.55326	85	61*	40	50-145
1,3-Dinitrobenzene	1.81818	1.70234	94	60*	40	80-125
Tetryl	1.81818	1.76235	97	62*	40	20-175
1,3,5-Trinitrobenzene	1.81818	1.51526	83	55*	40	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 12 out of 14 outside limits
Spike Recovery: 4 out of 28 outside limits

COMMENTS: _____

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

In-house QC Account SAMPLE NO.

427752MB

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Lab File ID: ZA7A002 Lab Sample ID: 427752

Instrument ID: HPL1 Date Extracted: 04/27/01

Matrix: (soil/water) SOIL Date Analyzed: 01/07/08

Level:(low/med) LOW Time Analyzed: 1708

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	In-house QC SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	427753LCS	427753	ZA7A003	01/07/08
02	FITG1SSD01	9716422001	ZA7A004	01/07/08
03	FITG1SSC02	9716422002	ZA7A005	01/07/08
04	FITG1SSD03	9716422003	ZA7A006	01/07/08
05	FITG1SSD04	9716422004	ZA7A007	01/07/08
06	FITG1SSC05	9716422005	ZA7A008	01/07/08
07	FITG1SSD06	9716422006	ZA7A009	01/07/08
08	FITG1SSD07	9716422007	ZA7A010	01/07/08
09	FITG1SSC08	9716422008	ZA7A011	01/08/08
10	FITG1SSD09	9716422009	ZA7A013	01/08/08
11	FITG1SSD10	9716422010	ZA7A014	01/08/08
12	FITG1SSC11	9716422011	ZA7A015	01/08/08
13	FITG1SSC11_M	427754	ZA7A016	01/08/08
14	FITG1SSC11_M	427755	ZA7A017	01/08/08
15	FITG1SSD12	9716422012	ZA7A018	01/08/08
16	FITG1SSC11D	9716422013	ZA7A019	01/08/08
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: Lab file IDs : ZA7Axxx = 235 nm. detector
ZA7Bxxx = 265 nm. detector run simultaneously.

SM 1/21/08

FORM 00V SV
0091

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RF20: ZK5A002 RF50: ZK5A003 RF100: ZK5A004
RF250: ZK5A005 RF500: ZK5A006

COMPOUND	RF20	RF50	RF100	RF250	RF500
4-Amino-2,6-dinitrotoluene	602.450	623.020	606.710	599.896	601.014
Nitrobenzene	156.600	144.420	150.840	144.208	143.498
2,6-Dinitrotoluene	319.750	317.780	308.910	310.332	310.944
2,4-Dinitrotoluene	392.200	393.580	387.280	387.148	388.478
2-Nitrotoluene	81.650	124.720	117.620	128.704	122.142
4-Nitrotoluene	69.050	70.940	84.900	78.272	81.122
3-Nitrotoluene	OK-RDL is at RF250 SM 1/18/08		111.040 *	103.232	103.008
RDX	277.900	268.620	269.720	273.040	271.852
2-Amino-4,6-dinitrotoluene	520.600	531.040	525.240	524.436	523.070
HMX	405.200	381.700	381.640	380.520	385.560
2,4,6-Trinitrotoluene(TNT)	496.650	489.140	484.640	483.456	484.834
1,3-Dinitrobenzene	587.000	563.860	570.610	568.584	568.560
Tetryl	462.500	474.320	468.670	464.112	456.110
1,3,5-Trinitrobenzene	717.000	699.200	704.800	707.704	706.626
1-C-3-NB		80.640	129.730	121.416	126.890

* reported from other wavelength (ZK5B xxx)
SM 1/21/08

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RF1000: ZK5A007 RF2000: ZK5A008

COMPOUND	RF1000	RF2000	CURVE	COEFFICENT A1	%RSD OR R^2	
4-Amino-2,6-dinitrotoluene	601.684	598.826	AVRG	604.800000	1.4	
Nitrobenzene	143.881	139.014	AVRG	146.065786	4.0	
2,6-Dinitrotoluene	311.367	308.570	AVRG	312.521929	1.4	
2,4-Dinitrotoluene	388.766	384.276	AVRG	388.818214	0.8	
2-Nitrotoluene	122.234	121.306	AVRG	116.910786	13.6	
4-Nitrotoluene	80.987	81.150	AVRG	78.0600714	7.5	
3-Nitrotoluene	104.268	103.080	AVRG	104.925500	3.3	<-
RDX	272.693	267.096	AVRG	271.560143	1.3	
2-Amino-4,6-dinitrotoluene	524.484	516.130	AVRG	523.571429	0.9	
HMX	384.872	375.474	AVRG	384.995214	2.5	
2,4,6-Trinitrotoluene(TNT)	485.010	478.422	AVRG	486.021714	1.2	
1,3-Dinitrobenzene	569.130	563.316	AVRG	570.151429	1.4	
Tetryl	455.419	447.240	AVRG	461.195786	2.0	
1,3,5-Trinitrobenzene	707.866	700.230	AVRG	706.203643	0.8	
1-C-3-NB	126.284	121.672	AVRG	117.772083	15.7	<-

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RT1: ZK5A002 RT2: ZK5A003 RT3: ZK5A004
RT4: ZK5A005 RT5: ZK5A006

COMPOUND	RT1	RT2	RT3	RT4	RT5
4-Amino-2,6-dinitrotoluene	20.075	20.067	20.117	20.083	20.150
Nitrobenzene	14.942	14.942	15.008	14.958	15.000
2,6-Dinitrotoluene	22.400	22.433	22.517	22.450	22.525
2,4-Dinitrotoluene	23.483	23.517	23.592	23.525	23.600
2-Nitrotoluene	25.692	25.625	25.692	25.700	25.783
4-Nitrotoluene	28.100	28.050	28.092	28.000	28.117
3-Nitrotoluene			29.900	29.833	29.925
RDX	7.617	7.633	7.717	7.650	7.675
2-Amino-4,6-dinitrotoluene	21.308	21.300	21.350	21.325	21.392
HMX	4.817	4.825	4.967	4.850	4.875
2,4,6-Trinitrotoluene(TNT)	18.458	18.442	18.567	18.483	18.550
1,3-Dinitrobenzene	14.042	14.042	14.117	14.058	14.100
Tetryl	15.683	15.700	15.783	15.708	15.758
1,3,5-Trinitrobenzene	10.925	10.933	11.025	10.950	10.983
1-C-3-NB		33.783	33.892	33.783	33.858

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RT6: ZK5A007 RT7: ZK5A008

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO	
4-Amino-2,6-dinitrotoluene	20.158	20.217	20.124	19.513	20.720	
Nitrobenzene	15.017	15.067	14.991	14.558	15.459	
2,6-Dinitrotoluene	22.533	22.625	22.498	21.841	23.192	
2,4-Dinitrotoluene	23.617	23.708	23.577	22.884	24.299	
2-Nitrotoluene	25.808	25.900	25.743	24.921	26.462	
4-Nitrotoluene	28.175	28.275	28.116	27.249	28.934	
3-Nitrotoluene	29.933	30.042	29.927	29.003	30.797	<-
RDX	7.692	7.742	7.675	7.485	7.948	
2-Amino-4,6-dinitrotoluene	21.400	21.458	21.362	20.710	21.991	
HMX	4.908	4.975	4.888	4.818	5.116	
2,4,6-Trinitrotoluene(TNT)	18.567	18.650	18.531	18.010	19.124	
1,3-Dinitrobenzene	14.125	14.167	14.093	13.693	14.540	
Tetryl	15.775	15.858	15.752	15.310	16.257	
1,3,5-Trinitrobenzene	11.008	11.067	10.984	10.694	11.356	
1-C-3-NB	33.942	34.075	33.889	32.875	34.908	<-

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RF20: ZK5B002 RF50: ZK5B003 RF100: ZK5B004
RF250: ZK5B005 RF500: ZK5B006

COMPOUND	RF20	RF50	RF100	RF250	RF500
4-Amino-2,6-dinitrotoluene	152.350	160.260	156.580	149.916	148.304
Nitrobenzene	388.850	390.040	375.800	372.460	375.154
2,6-Dinitrotoluene	181.600	135.620	144.840	146.516	149.538
2,4-Dinitrotoluene	403.300	376.460	367.400	376.356	376.858
2-Nitrotoluene	228.600	248.680	253.400	232.304	241.800
4-Nitrotoluene	371.850	301.580	288.360	289.412	289.712
3-Nitrotoluene	451.750	306.340	335.490	317.024	310.840
RDX		79.580	80.320	77.364	73.374
2-Amino-4,6-dinitrotoluene	345.700	285.940	291.870	292.952	291.912
HMX	97.050	59.980	43.510	48.476	44.990
2,4,6-Trinitrotoluene(TNT)	305.850	254.040	239.620	232.692	231.834
1,3-Dinitrobenzene	342.200	337.980	317.010	322.624	321.922
Tetryl	145.200	177.100	151.240	150.256	148.072
1,3,5-Trinitrobenzene	268.900	191.940	168.720	168.636	165.100
1-C-3-NB	365.950	314.960	292.280	279.216	283.330

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RF1000: ZK5B007 RF2000: ZK5B008

COMPOUND	RF1000	RF2000	CURVE	COEFFICENT A1	%RSD OR R^2	
4-Amino-2,6-dinitrotoluene	148.002	144.700	AVRG	151.444571	3.6	
Nitrobenzene	375.648	370.371	AVRG	378.331857	2.1	
2,6-Dinitrotoluene	146.925	143.412	AVRG	149.778714	9.8	
2,4-Dinitrotoluene	372.272	367.518	AVRG	377.166214	3.2	
2-Nitrotoluene	227.122	226.446	AVRG	236.907429	4.6	
4-Nitrotoluene	283.292	281.254	AVRG	300.780000	10.6	
3-Nitrotoluene	304.799	303.686	AVRG	332.847071	16.1	
RDX	73.194	67.946	AVRG	75.2962500	6.2	<-
2-Amino-4,6-dinitrotoluene	290.044	285.354	AVRG	297.681643	7.2	
HMX	41.055	34.837	AVRG	52.8425714	39.7	
2,4,6-Trinitrotoluene(TNT)	232.191	227.686	AVRG	246.273286	11.2	
1,3-Dinitrobenzene	319.802	317.178	AVRG	325.530929	3.1	
Tetryl	144.575	141.906	AVRG	151.192714	7.9	
1,3,5-Trinitrobenzene	164.877	159.282	AVRG	183.922143	21.1	
1-C-3-NB	280.087	272.021	AVRG	298.263429	11.0	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RT1: ZK5B002 RT2: ZK5B003 RT3: ZK5B004
RT4: ZK5B005 RT5: ZK5B006

COMPOUND	RT1	RT2	RT3	RT4	RT5
4-Amino-2,6-dinitrotoluene	20.117	20.025	20.117	20.092	20.158
Nitrobenzene	14.933	14.933	14.992	14.958	15.000
2,6-Dinitrotoluene	22.508	22.408	22.525	22.458	22.517
2,4-Dinitrotoluene	23.517	23.508	23.592	23.533	23.600
2-Nitrotoluene	25.658	25.633	25.708	25.700	25.783
4-Nitrotoluene	28.008	27.983	28.083	28.050	28.117
3-Nitrotoluene	29.783	29.825	29.850	29.817	29.908
RDX	7.617	7.617	7.708	7.642	7.675
2-Amino-4,6-dinitrotoluene	21.283	21.300	21.342	21.333	21.392
HMX	4.817	4.825	4.833	4.850	4.867
2,4,6-Trinitrotoluene(TNT)	18.483	18.433	18.558	18.492	18.542
1,3-Dinitrobenzene	14.017	14.050	14.117	14.058	14.100
Tetryl	15.700	15.708	15.775	15.700	15.750
1,3,5-Trinitrobenzene	10.908	10.942	11.033	10.950	10.983
1-C-3-NB	33.683	33.733	33.883	33.792	33.867

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RT6: ZK5B007 RT7: ZK5B008

COMPOUND	RT6	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4-Amino-2,6-dinitrotoluene	20.150	20.225	20.126	19.513	20.720
Nitrobenzene	15.008	15.067	14.984	14.542	15.441
2,6-Dinitrotoluene	22.542	22.625	22.512	21.849	23.201
2,4-Dinitrotoluene	23.617	23.708	23.582	22.884	24.299
2-Nitrotoluene	25.792	25.892	25.738	24.937	26.480
4-Nitrotoluene	28.167	28.267	28.096	27.241	28.926
3-Nitrotoluene	29.933	30.042	29.880	28.955	30.746
RDX	7.692	7.733	7.669	7.477	7.940
2-Amino-4,6-dinitrotoluene	21.392	21.458	21.357	20.701	21.982
HMX	4.900	4.967	4.865	4.818	5.116
2,4,6-Trinitrotoluene(TNT)	18.558	18.642	18.530	18.002	19.115
1,3-Dinitrobenzene	14.117	14.167	14.089	13.693	14.540
Tetryl	15.775	15.850	15.751	15.302	16.248
1,3,5-Trinitrobenzene	11.008	11.058	10.983	10.702	11.364
1-C-3-NB	33.933	34.058	33.850	32.867	34.900

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

LAB FILE ID: RF20: ZKEA002 RF50: ZKEA003 RF100: ZKEA004
RF250: ZKEA005 RF500: ZKEA006 RF1000: ZKEA007

COMPOUND	RF20	RF50	RF100	RF250	RF500	RF1000
4-Amino-2,6-dinitrotoluene	690.700	657.040	648.950	651.056	648.778	647.118
Nitrobenzene	144.450	155.780	142.640	151.768	148.354	146.858
2,6-Dinitrotoluene	344.750	341.060	330.090	334.316	333.978	336.027
2,4-Dinitrotoluene	415.800	424.120	406.890	409.404	408.586	412.107
2-Nitrotoluene	135.600	133.480	135.560	124.784	124.552	123.057
4-Nitrotoluene	100.500	85.220	82.480	84.288	82.402	61.117
3-Nitrotoluene	156.450	109.800	96.910	103.264	99.544	97.409
RDX	293.350	287.860	289.430	283.736	283.994	284.150
2-Amino-4,6-dinitrotoluene	570.900	581.140	551.210	561.368	558.520	557.206
HMX	442.400	407.580	413.870	423.684	410.928	409.965
2,4,6-Trinitrotoluene(TNT)	528.250	527.840	506.920	509.056	508.272	507.472
1,3-Dinitrobenzene	609.400	610.860	603.850	603.772	601.088	600.239
Tetryl	502.600	487.440	466.600	472.796	458.436	455.364
1,3,5-Trinitrobenzene	757.000	741.860	736.460	736.828	729.414	729.713
1-C-3-NB	141.800	125.880	122.230	125.016	125.082	121.242

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

RF2000: ZKEA008

COMPOUND	RF2000	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2	
4-Amino-2,6-dinitrotoluene	644.958	AVRG	655.514214	2.436	20.000	
Nitrobenzene	146.704	AVRG	148.079071	3.009	20.000	
2,6-Dinitrotoluene	327.848	AVRG	335.438429	1.756	20.000	
2,4-Dinitrotoluene	401.883	AVRG	411.255714	1.732	20.000	
2-Nitrotoluene	120.156	AVRG	128.169929	5.066	20.000	
4-Nitrotoluene	81.546	AVRG	82.5075714	13.932	20.000	
3-Nitrotoluene	86.572	AVRG	107.135500	21.331	20.000	<- reported from other wavelength. SM 1/21/08
RDX	277.576	AVRG	285.727929	1.763	20.000	
2-Amino-4,6-dinitrotoluene	546.516	AVRG	560.980071	2.096	20.000	
HMX	400.729	AVRG	415.593714	3.296	20.000	
2,4,6-Trinitrotoluene(TNT)	496.924	AVRG	512.104857	2.270	20.000	
1,3-Dinitrobenzene	590.614	AVRG	602.831857	1.110	20.000	
Tetryl	446.015	AVRG	469.893000	4.175	20.000	
1,3,5-Trinitrobenzene	717.474	AVRG	735.535500	1.666	20.000	
1-C-3-NB	119.950	AVRG	125.885714	5.845	20.000	

Average %RSD test result.

Calculate Average %RSD: 4.765585423
Maximum Average %RSD: 20.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

LAB FILE ID: RT1: ZKEA002 RT2: ZKEA003 RT3: ZKEA004
RT4: ZKEA005 RT5: ZKEA006 RT6: ZKEA007

COMPOUND	RT1	RT2	RT3	RT4	RT5	RT6
4-Amino-2,6-dinitrotoluene	33.383	33.575	33.483	33.767	33.767	33.775
Nitrobenzene	16.283	16.367	16.358	16.442	16.442	16.450
2,6-Dinitrotoluene	24.058	24.200	24.183	24.342	24.350	24.383
2,4-Dinitrotoluene	25.125	25.242	25.208	25.375	25.392	25.417
2-Nitrotoluene	27.708	27.817	27.783	27.975	27.983	28.025
4-Nitrotoluene	30.150	30.367	30.283	30.508	30.517	30.533
3-Nitrotoluene	32.508	32.617	32.550	32.783	32.808	32.825
RDX	11.242	11.283	11.250	11.325	11.325	11.325
2-Amino-4,6-dinitrotoluene	35.208	35.417	35.283	35.617	35.625	35.608
HMX	7.192	7.217	7.217	7.242	7.242	7.250
2,4,6-Trinitrotoluene(TNT)	20.733	20.825	20.833	20.942	20.950	20.983
1,3-Dinitrobenzene	14.992	15.050	15.050	15.117	15.125	15.133
Tetryl	21.483	21.617	21.600	21.742	21.750	21.775
1,3,5-Trinitrobenzene	12.158	12.192	12.225	12.250	12.258	12.275
1-C-3-NB	38.617	38.817	38.742	39.017	39.058	39.058

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

RT7: ZKEA008

COMPOUND	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4-Amino-2,6-dinitrotoluene	33.500	33.607	32.479	34.488
Nitrobenzene	16.367	16.387	15.868	16.849
2,6-Dinitrotoluene	24.233	24.250	23.458	24.909
2,4-Dinitrotoluene	25.258	25.288	24.452	25.965
2-Nitrotoluene	27.842	27.876	26.950	28.617
4-Nitrotoluene	30.342	30.386	29.375	31.192
3-Nitrotoluene	32.625	32.674	31.574	33.526
RDX	11.258	11.287	10.913	11.588
2-Amino-4,6-dinitrotoluene	35.325	35.440	34.225	36.342
HMX	7.217	7.225	7.000	7.433
2,4,6-Trinitrotoluene(TNT)	20.883	20.878	20.208	21.458
1,3-Dinitrobenzene	15.067	15.076	14.599	15.502
Tetryl	21.642	21.658	20.952	22.248
1,3,5-Trinitrobenzene	12.233	12.227	11.858	12.592
1-C-3-NB	38.808	38.874	37.579	39.904

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

LAB FILE ID: RF20: ZKEB002 RF50: ZKEB003 RF100: ZKEB004
RF250: ZKEB005 RF500: ZKEB006 RF1000: ZKEB007

COMPOUND	RF20	RF50	RF100	RF250	RF500	RF1000
4-Amino-2,6-dinitrotoluene		154.020	156.300	154.064	156.648	153.678
Nitrobenzene	370.800	371.900	372.360	372.092	372.414	377.461
2,6-Dinitrotoluene	173.000	160.200	153.430	156.788	152.704	152.511
2,4-Dinitrotoluene	386.100	382.720	380.340	384.932	381.584	382.313
2-Nitrotoluene	240.500	237.500	231.060	226.460	224.342	224.792
4-Nitrotoluene	300.900	285.920	291.590	292.488	292.368	289.894
3-Nitrotoluene	270.250	304.280	305.320	308.184	305.392	305.039
RDX	78.450	75.000	72.500	69.296	68.528	68.665
2-Amino-4,6-dinitrotoluene	310.850	304.480	305.960	302.720	304.126	301.532
HMX	66.800	43.820	44.100	47.112	51.142	52.818
2,4,6-Trinitrotoluene(TNT)	252.300	252.280	238.170	239.112	237.532	235.646
1,3-Dinitrobenzene	346.100	339.860	337.840	333.636	331.796	332.800
Tetryl	158.600	153.940	153.310	152.260	151.152	149.662
1,3,5-Trinitrobenzene	188.500	175.560	170.440	166.820	164.478	165.261
1-C-3-NB	248.150	260.980	265.240	262.040	263.068	262.376

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

RF2000: ZKEB008

COMPOUND	RF2000	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2	
4-Amino-2,6-dinitrotoluene	145.572	AVRG	153.380417	2.626	20.000	<-
Nitrobenzene	370.541	AVRG	372.509714	0.619	20.000	
2,6-Dinitrotoluene	150.702	AVRG	157.047929	4.914	20.000	
2,4-Dinitrotoluene	378.025	AVRG	382.287714	0.710	20.000	
2-Nitrotoluene	221.340	AVRG	229.427643	3.143	20.000	
4-Nitrotoluene	284.918	AVRG	291.154000	1.808	20.000	
3-Nitrotoluene	306.094	AVRG	300.651357	4.478	20.000	
RDX	66.973	AVRG	71.3445714	5.824	20.000	
2-Amino-4,6-dinitrotoluene	296.138	AVRG	303.686500	1.472	20.000	
HMX	49.934	AVRG	50.8180714	15.414	20.000	
2,4,6-Trinitrotoluene(TNT)	231.601	AVRG	240.948714	3.370	20.000	
1,3-Dinitrobenzene	325.984	AVRG	335.430929	1.931	20.000	
Tetryl	144.821	AVRG	151.963571	2.777	20.000	
1,3,5-Trinitrobenzene	162.010	AVRG	170.438500	5.350	20.000	
1-C-3-NB	259.060	AVRG	260.130571	2.156	20.000	

Average %RSD test result.

Calculate Average %RSD: 3.772799015
Maximum Average %RSD: 20.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

LAB FILE ID: RT1: ZKEB002 RT2: ZKEB003 RT3: ZKEB004
RT4: ZKEB005 RT5: ZKEB006 RT6: ZKEB007

COMPOUND	RT1	RT2	RT3	RT4	RT5	RT6
4-Amino-2,6-dinitrotoluene		33.558	33.425	33.750	33.767	33.767
Nitrobenzene	16.267	16.350	16.350	16.433	16.433	16.450
2,6-Dinitrotoluene	24.075	24.200	24.158	24.342	24.350	24.383
2,4-Dinitrotoluene	25.108	25.242	25.208	25.375	25.383	25.417
2-Nitrotoluene	27.667	27.808	27.792	27.967	27.975	28.025
4-Nitrotoluene	30.208	30.317	30.275	30.500	30.508	30.533
3-Nitrotoluene	32.417	32.592	32.550	32.767	32.792	32.817
RDX	11.233	11.275	11.233	11.325	11.325	11.325
2-Amino-4,6-dinitrotoluene	35.200	35.392	35.283	35.617	35.617	35.608
HMX	7.192	7.200	7.192	7.242	7.242	7.250
2,4,6-Trinitrotoluene(TNT)	20.733	20.842	20.825	20.933	20.950	20.983
1,3-Dinitrobenzene	14.992	15.050	15.050	15.117	15.117	15.133
Tetryl	21.475	21.608	21.600	21.750	21.750	21.775
1,3,5-Trinitrobenzene	12.142	12.192	12.225	12.242	12.250	12.267
1-C-3-NB	38.617	38.808	38.742	39.025	39.033	39.050

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/14/07 11/14/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1250 1755

RT7: ZKEB008

COMPOUND	RT7	MEAN RT	RT WINDOW FROM	RT WINDOW TO	
4-Amino-2,6-dinitrotoluene	33.483	33.625	32.422	34.428	<-
Nitrobenzene	16.367	16.379	15.860	16.841	
2,6-Dinitrotoluene	24.225	24.248	23.434	24.883	
2,4-Dinitrotoluene	25.250	25.283	24.452	25.965	
2-Nitrotoluene	27.833	27.867	26.958	28.625	
4-Nitrotoluene	30.325	30.381	29.367	31.183	
3-Nitrotoluene	32.600	32.648	31.574	33.526	
RDX	11.258	11.282	10.896	11.570	
2-Amino-4,6-dinitrotoluene	35.325	35.435	34.225	36.342	
HMX	7.217	7.219	6.976	7.407	
2,4,6-Trinitrotoluene(TNT)	20.875	20.877	20.200	21.450	
1,3-Dinitrobenzene	15.067	15.075	14.599	15.502	
Tetryl	21.642	21.657	20.952	22.248	
1,3,5-Trinitrobenzene	12.233	12.222	11.858	12.592	
1-C-3-NB	38.800	38.868	37.579	39.904	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/07/08 Time: 1615

Lab File ID: ZA7A001 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	612.100	0.01	1.2	15.0	
Nitrobenzene	146.066	142.960	0.01	2.1	15.0	
2,6-Dinitrotoluene	312.522	312.120	0.01	0.1	15.0	
2,4-Dinitrotoluene	388.818	392.830	0.01	1.0	15.0	
2-Nitrotoluene	116.911	136.170	0.01	16.5	15.0	<- reprinted from ZA7B001 SM 1/21/08
4-Nitrotoluene	78.060	75.330	0.01	3.5	15.0	
3-Nitrotoluene	104.926	93.000	0.01	11.4	15.0	
RDX	271.560	260.290	0.01	4.2	15.0	
2-Amino-4,6-dinitrotoluene	523.571	539.790	0.01	3.1	15.0	
HMX	384.995	378.520	0.01	1.7	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	488.270	0.01	0.5	15.0	
1,3-Dinitrobenzene	570.151	569.210	0.01	0.2	15.0	
Tetryl	461.196	463.660	0.01	0.5	15.0	
1,3,5-Trinitrobenzene	706.204	689.610	0.01	2.3	15.0	
1-C-3-NB	117.772	99.840	0.01	15.2	15.0	<- reprinted from ZA7B001 SM 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/07/08 Time: 1615

Lab File ID: ZA7B001 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	151.444	135.870	0.01	10.3	15.0	
Nitrobenzene	378.332	376.740	0.01	0.4	15.0	
2,6-Dinitrotoluene	149.779	142.350	0.01	5.0	15.0	
2,4-Dinitrotoluene	377.166	363.440	0.01	3.6	15.0	
2-Nitrotoluene	236.907	220.000	0.01	7.1	15.0	
4-Nitrotoluene	300.780	272.950	0.01	9.2	15.0	
3-Nitrotoluene	332.847	293.400	0.01	11.8	15.0	
RDX	75.296	79.370	0.01	5.4	15.0	
2-Amino-4,6-dinitrotoluene	297.682	284.700	0.01	4.4	15.0	
HMX	52.842		0.01	100.0	15.0	<-Reported from ZA7A101 SMW 1/21/08
2,4,6-Trinitrotoluene(TNT)	246.273	221.920	0.01	9.9	15.0	
1,3-Dinitrobenzene	325.531	322.920	0.01	0.8	15.0	
Tetryl	151.193	146.110	0.01	3.4	15.0	
1,3,5-Trinitrobenzene	183.922	161.660	0.01	12.1	15.0	
1-C-3-NB	298.263	254.100	0.01	14.8	15.0	

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 0047

Lab File ID: ZA7A012 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	576.120	0.01	4.7	15.0	
Nitrobenzene	146.066	143.140	0.01	2.0	15.0	
2,6-Dinitrotoluene	312.522	297.150	0.01	4.9	15.0	
2,4-Dinitrotoluene	388.818	369.920	0.01	4.9	15.0	
2-Nitrotoluene	116.911	15.750	0.01	86.5	15.0	<- *
4-Nitrotoluene	78.060	13.730	0.01	82.4	15.0	<- *
3-Nitrotoluene	104.926	12.370	0.01	88.2	15.0	<- *
RDX	271.560	276.860	0.01	2.0	15.0	
2-Amino-4,6-dinitrotoluene	523.571	484.400	0.01	7.5	15.0	
HMX	384.995	375.890	0.01	2.4	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	483.920	0.01	0.4	15.0	
1,3-Dinitrobenzene	570.151	575.230	0.01	0.9	15.0	
Tetryl	461.196	376.730	0.01	18.3	15.0	<- *
1,3,5-Trinitrobenzene	706.204	642.310	0.01	9.0	15.0	
1-C-3-NB	117.772	11.050	0.01	90.6	15.0	<- *

* reported from ZA2B012 SMJ 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 0047

Lab File ID: ZA7B012 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	151.444	101.310	0.01	33.1	15.0	<- *
Nitrobenzene	378.332	372.580	0.01	1.5	15.0	*
2,6-Dinitrotoluene	149.779	114.660	0.01	23.4	15.0	<- *
2,4-Dinitrotoluene	377.166	349.240	0.01	7.4	15.0	
2-Nitrotoluene	236.907	210.610	0.01	11.1	15.0	
4-Nitrotoluene	300.780	265.390	0.01	11.8	15.0	
3-Nitrotoluene	332.847	301.430	0.01	9.4	15.0	
RDX	75.296	78.620	0.01	4.4	15.0	
2-Amino-4,6-dinitrotoluene	297.682	258.010	0.01	13.3	15.0	
HMX	52.842		0.01	100.0	15.0	<- *
2,4,6-Trinitrotoluene(TNT)	246.273	208.940	0.01	15.2	15.0	<- *
1,3-Dinitrobenzene	325.531	327.570	0.01	0.6	15.0	
Tetryl	151.193	128.580	0.01	15.0	15.0	
1,3,5-Trinitrobenzene	183.922	153.910	0.01	16.3	15.0	<- *
1-C-3-NB	298.263	273.450	0.01	8.3	15.0	

* reported from ZA7B012 SMJ 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1116

Lab File ID: ZA7A020 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	329.730	0.01	45.5	15.0	<-
Nitrobenzene	146.066		0.01	100.0	15.0	<-
2,6-Dinitrotoluene	312.522		0.01	100.0	15.0	<-
2,4-Dinitrotoluene	388.818	193.780	0.01	50.2	15.0	<-
2-Nitrotoluene	116.911	16.860	0.01	85.6	15.0	<-
4-Nitrotoluene	78.060	15.410	0.01	80.2	15.0	<-
3-Nitrotoluene	104.926		0.01	100.0	15.0	<-
RDX	271.560	287.300	0.01	5.8	15.0	
2-Amino-4,6-dinitrotoluene	523.571	137.850	0.01	73.7	15.0	<-
HMX	384.995	383.890	0.01	0.3	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	384.720	0.01	20.8	15.0	<-
1,3-Dinitrobenzene	570.151	442.430	0.01	22.4	15.0	<-
Tetryl	461.196	367.920	0.01	20.2	15.0	<-
1,3,5-Trinitrobenzene	706.204	697.220	0.01	1.3	15.0	
1-C-3-NB	117.772		0.01	100.0	15.0	<-

all reviewed 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1116

Lab File ID: ZA7B020 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	151.444	43.930	0.01	71.0	15.0	<-
Nitrobenzene	378.332	267.910	0.01	29.2	15.0	<-
2,6-Dinitrotoluene	149.779		0.01	100.0	15.0	<-
2,4-Dinitrotoluene	377.166	261.790	0.01	30.6	15.0	<-
2-Nitrotoluene	236.907	195.630	0.01	17.4	15.0	<-
4-Nitrotoluene	300.780	28.920	0.01	90.4	15.0	<-
3-Nitrotoluene	332.847	184.530	0.01	44.6	15.0	<-
RDX	75.296	71.950	0.01	4.4	15.0	
2-Amino-4,6-dinitrotoluene	297.682	67.120	0.01	77.4	15.0	<-
HMX	52.842		0.01	100.0	15.0	<-
2,4,6-Trinitrotoluene(TNT)	246.273	193.090	0.01	21.6	15.0	<-
1,3-Dinitrobenzene	325.531	288.920	0.01	11.2	15.0	
Tetryl	151.193		0.01	100.0	15.0	<-
1,3,5-Trinitrobenzene	183.922	164.070	0.01	10.8	15.0	
1-C-3-NB	298.263	62.030	0.01	79.2	15.0	<-

All reviewed 1/24/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1428

Lab File ID: ZA7A021 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D
4-Amino-2,6-dinitrotoluene	604.800	589.640	0.01	2.5	15.0
Nitrobenzene	146.066	123.630	0.01	15.4	15.0
2,6-Dinitrotoluene	312.522	293.150	0.01	6.2	15.0
2,4-Dinitrotoluene	388.818	376.740	0.01	3.1	15.0
2-Nitrotoluene	116.911	121.520	0.01	3.9	15.0
4-Nitrotoluene	78.060	83.040	0.01	6.4	15.0
3-Nitrotoluene	104.926	101.860	0.01	2.9	15.0
RDX	271.560	262.710	0.01	3.2	15.0
2-Amino-4,6-dinitrotoluene	523.571	511.430	0.01	2.3	15.0
HMX	384.995	380.980	0.01	1.0	15.0
2,4,6-Trinitrotoluene(TNT)	486.022	489.220	0.01	0.6	15.0
1,3-Dinitrobenzene	570.151	548.140	0.01	3.9	15.0
Tetryl	461.196	400.240	0.01	13.2	15.0
1,3,5-Trinitrobenzene	706.204	665.880	0.01	5.7	15.0
1-C-3-NB	117.772	116.210	0.01	1.3	15.0

<- reprinted from ZA7B021 SW 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1428

Lab File ID: ZA7B021 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	151.444	140.750	0.01	7.1	15.0	
Nitrobenzene	378.332	381.690	0.01	0.9	15.0	
2,6-Dinitrotoluene	149.779	136.930	0.01	8.6	15.0	
2,4-Dinitrotoluene	377.166	360.380	0.01	4.4	15.0	
2-Nitrotoluene	236.907	226.280	0.01	4.5	15.0	
4-Nitrotoluene	300.780	283.450	0.01	5.8	15.0	
3-Nitrotoluene	332.847	302.570	0.01	9.1	15.0	
RDX	75.296	84.690	0.01	12.5	15.0	
2-Amino-4,6-dinitrotoluene	297.682	282.970	0.01	4.9	15.0	
HMX	52.842		0.01	100.0	15.0	<-reported from ZA2B021 SW 1/21/08
2,4,6-Trinitrotoluene(TNT)	246.273	238.650	0.01	3.1	15.0	
1,3-Dinitrobenzene	325.531	328.840	0.01	1.0	15.0	
Tetryl	151.193	134.270	0.01	11.2	15.0	
1,3,5-Trinitrobenzene	183.922	159.590	0.01	13.2	15.0	
1-C-3-NB	298.263	262.200	0.01	12.1	15.0	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1744

Lab File ID: ZA8A001 Init. Calib. Date(s): 11/14/07 11/14/07

Init. Calib. Times: 1250 1755

GC Column: C18 ID: 4.60 (mm)

COMPOUND	RRF OR AMOUNT	RRF100.00 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
4-Amino-2,6-dinitrotoluene	655.51400	588.55000	0.01	-10.22	15.00	AVRG
Nitrobenzene	148.07900	147.51000	0.01	-0.38	15.00	AVRG
2,6-Dinitrotoluene	335.43800	306.28000	0.01	-8.69	15.00	AVRG
2,4-Dinitrotoluene	411.25600	383.52000	0.01	-6.74	15.00	AVRG
2-Nitrotoluene	128.17000	122.69000	0.01	-4.28	15.00	AVRG
4-Nitrotoluene	82.508000	86.130000	0.01	4.39	15.00	AVRG
3-Nitrotoluene	107.13600	110.73000	0.01	3.35	15.00	AVRG
RDX	285.72800	262.52000	0.01	-8.12	15.00	AVRG
2-Amino-4,6-dinitrotoluene	560.98000	516.48000	0.01	-7.93	15.00	AVRG
HMX	415.59400	373.84000	0.01	-10.05	15.00	AVRG
2,4,6-Trinitrotoluene(TNT)	512.10500	481.74000	0.01	-5.93	15.00	AVRG
1,3-Dinitrobenzene	602.83200	571.78000	0.01	-5.15	15.00	AVRG
Tetryl	469.89300	498.00000	0.01	5.98	15.00	AVRG
1,3,5-Trinitrobenzene	735.53600	693.55000	0.01	-5.71	15.00	AVRG
1-C-3-NB	125.88600	125.69000	0.01	-0.16	15.00	AVRG

Average %D/%Drift test result.

Calculate Average %D/%Drift: 6.659791946
Maximum Average %D/%Drift: 15.00000000

Note: Passes Average %D/%Drift Test.

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1744

Lab File ID: ZA8B001 Init. Calib. Date(s): 11/14/07 11/14/07

Init. Calib. Times: 1250 1755

GC Column: C18 ID: 4.60 (mm)

COMPOUND	RRF OR AMOUNT	RRF100.00 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
4-Amino-2,6-dinitrotoluene	153.38000	131.97000	0.01	-13.96	15.00	AVRG
Nitrobenzene	372.51000	379.17000	0.01	1.79	15.00	AVRG
2,6-Dinitrotoluene	157.04800	144.09000	0.01	-8.25	15.00	AVRG
2,4-Dinitrotoluene	382.28800	364.35000	0.01	-4.69	15.00	AVRG
2-Nitrotoluene	229.42800	219.73000	0.01	-4.23	15.00	AVRG
4-Nitrotoluene	291.15400	275.94000	0.01	-5.22	15.00	AVRG
3-Nitrotoluene	300.65100	293.09000	0.01	-2.51	15.00	AVRG
RDX	71.344000	64.480000	0.01	-9.62	15.00	AVRG
2-Amino-4,6-dinitrotoluene	303.68600	259.63000	0.01	-14.51	15.00	AVRG
HMX	50.818000	52.840000	0.01	3.98	15.00	AVRG
2,4,6-Trinitrotoluene(TNT)	240.94900	225.79000	0.01	-6.29	15.00	AVRG
1,3-Dinitrobenzene	335.43100	321.32000	0.01	-4.21	15.00	AVRG
Tetryl	151.96400	152.61000	0.01	0.42	15.00	AVRG
1,3,5-Trinitrobenzene	170.43800	160.79000	0.01	-5.66	15.00	AVRG
1-C-3-NB	260.13000	269.14000	0.01	3.46	15.00	AVRG

Average %D/%Drift test result.

Calculate Average %D/%Drift: 5.651870251
Maximum Average %D/%Drift: 15.00000000

Note: Passes Average %D/%Drift Test.

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 2340

Lab File ID: ZA8A008 Init. Calib. Date(s): 11/14/07 11/14/07

Init. Calib. Times: 1250 1755

GC Column: C18 ID: 4.60 (mm)

COMPOUND	RRF OR AMOUNT	RRF100.00 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
4-Amino-2,6-dinitrotoluene	655.51400	621.49000	0.01	-5.19	15.00	AVRG
Nitrobenzene	148.07900	139.82000	0.01	-5.58	15.00	AVRG
2,6-Dinitrotoluene	335.43800	307.77000	0.01	-8.25	15.00	AVRG
2,4-Dinitrotoluene	411.25600	384.25000	0.01	-6.57	15.00	AVRG
2-Nitrotoluene	128.17000	113.01000	0.01	-11.83	15.00	AVRG
4-Nitrotoluene	82.508000	79.950000	0.01	-3.10	15.00	AVRG
3-Nitrotoluene	107.13600	118.34000	0.01	10.46	15.00	AVRG
RDX	285.72800	257.46000	0.01	-9.89	15.00	AVRG
2-Amino-4,6-dinitrotoluene	560.98000	544.38000	0.01	-2.96	15.00	AVRG
HMX	415.59400	373.44000	0.01	-10.14	15.00	AVRG
2,4,6-Trinitrotoluene(TNT)	512.10500	494.33000	0.01	-3.47	15.00	AVRG
1,3-Dinitrobenzene	602.83200	563.49000	0.01	-6.53	15.00	AVRG
Tetryl	469.89300	472.91000	0.01	0.64	15.00	AVRG
1,3,5-Trinitrobenzene	735.53600	671.87000	0.01	-8.66	15.00	AVRG
1-C-3-NB	125.88600	117.53000	0.01	-6.64	15.00	AVRG

Average %D/%Drift test result.

Calculate Average %D/%Drift: 6.659791946
Maximum Average %D/%Drift: 15.00000000

Note: Passes Average %D/%Drift Test.

FORM VII SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 2340

Lab File ID: ZA8B008 Init. Calib. Date(s): 11/14/07 11/14/07

Init. Calib. Times: 1250 1755

GC Column: C18 ID: 4.60 (mm)

COMPOUND	RRF OR AMOUNT	RRF100.00 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
4-Amino-2,6-dinitrotoluene	153.38000	128.81000	0.01	-16.02	15.00	AVRG
Nitrobenzene	372.51000	381.67000	0.01	2.46	15.00	AVRG
2,6-Dinitrotoluene	157.04800	147.48000	0.01	-6.09	15.00	AVRG
2,4-Dinitrotoluene	382.28800	357.77000	0.01	-6.41	15.00	AVRG
2-Nitrotoluene	229.42800	219.20000	0.01	-4.46	15.00	AVRG
4-Nitrotoluene	291.15400	283.55000	0.01	-2.61	15.00	AVRG
3-Nitrotoluene	300.65100	300.93000	0.01	0.09	15.00	AVRG
RDX	71.344000	67.220000	0.01	-5.78	15.00	AVRG
2-Amino-4,6-dinitrotoluene	303.68600	272.66000	0.01	-10.22	15.00	AVRG
HMX	50.818000	57.080000	0.01	12.32	15.00	AVRG
2,4,6-Trinitrotoluene(TNT)	240.94900	231.62000	0.01	-3.87	15.00	AVRG
1,3-Dinitrobenzene	335.43100	319.72000	0.01	-4.68	15.00	AVRG
Tetryl	151.96400	153.37000	0.01	0.92	15.00	AVRG
1,3,5-Trinitrobenzene	170.43800	160.04000	0.01	-6.10	15.00	AVRG
1-C-3-NB	260.13000	253.03000	0.01	-2.73	15.00	AVRG

<- reported from ZA8A008 SM 1/21/08

Average %D/%Drift test result.

Calculate Average %D/%Drift: 5.651870251
Maximum Average %D/%Drift: 15.00000000

Note: Passes Average %D/%Drift Test.

FORM VII SV

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

GC Column: C18 ID: 4.60 (mm) Init. Calib. Date(s): 11/05/07 11/05/07

Instrument ID: HPL1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 33.27

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		2ND SOURCE C	01/07/08	1615	33.21	
02	427752MB	427752	01/07/08	1708	33.15	
03	427753LCS	427753	01/07/08	1754	33.18	
04	FITG1SSD01	9716422001	01/07/08	1840	33.23	
05	FITG1SSC02	9716422002	01/07/08	1926	33.22	
06	FITG1SSD03	9716422003	01/07/08	2012	33.20	
07	FITG1SSD04	9716422004	01/07/08	2058	33.18	
08	FITG1SSC05	9716422005	01/07/08	2144	33.18	
09	FITG1SSD06	9716422006	01/07/08	2229	33.18	
10	FITG1SSD07	9716422007	01/07/08	2315	33.15	
11	FITG1SSC08	9716422008	01/08/08	0001	33.09	
12		2ND SOURCE C	01/08/08	0047	33.03	
13	FITG1SSD09	9716422009	01/08/08	0133	33.04	
14	FITG1SSD10	9716422010	01/08/08	0219	33.03	
15	FITG1SSC11	9716422011	01/08/08	0305	33.02	
16	FITG1SSC11_M	427754	01/08/08	0350	33.02	
17	FITG1SSC11_M	427755	01/08/08	0436	33.02	
18	FITG1SSD12	9716422012	01/08/08	0522	32.98	
19	FITG1SSC11D	9716422013	01/08/08	0608	32.95	
20		2ND SOURCE C	01/08/08	1116	32.85	
21		2ND SOURCE C	01/08/08	1428	33.27	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

S1 = 1-C-3-NB

QC LIMITS
(+/- 1.00 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

0150

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

GC Column: C18 ID: 4.60 (mm) Init. Calib. Date(s): 11/14/07 11/14/07

Instrument ID: HPL1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 38.34

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	2ND SOURCE C	2ND SOURCE C	01/08/08	1744	38.23	
02	FITG1SSD01	9716422001	01/08/08	1835	38.28	
03	FITG1SSD03	9716422003	01/08/08	1926	38.30	
04	FITG1SSC05	9716422005	01/08/08	2017	38.30	
05	FITG1SSD06	9716422006	01/08/08	2107	38.31	
06	FITG1SSC08	9716422008	01/08/08	2158	38.38	
07	FITG1SSD10	9716422010	01/08/08	2249	38.32	
08	2ND SOURCE C	2ND SOURCE C	01/08/08	2340	38.34	
09						
10						
11						
12						

S1 = 1-C-3-NB

QC LIMITS
(+/- 1.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

Explosives by 8330A Raw Data

Explosives by 8330A
Sample Raw Data

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A004.d
Lab Smp Id: 9716422001 Client Smp ID: FITG1SSD01
Inj Date : 07-JAN-2008 18:40
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422001
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1	HMX	Compound Not Detected.					
2	RDX	Compound Not Detected.					
3	1,3,5-Trinitrobenzene	Compound Not Detected.					
4	1,3-Dinitrobenzene	13.725	13.975	-0.250	3289	5.76864	0.0573994(a)
~~5~~	~~Nitrobenzene~~	~~14.441~~	~~14.766~~	~~-0.325~~	~~9199~~	~~62.9785~~	~~0.626651~~
6	Tetryl	Compound Not Detected.					
7	2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8	4-Amino-2,6-dinitrotoluene	19.316	19.916	-0.600	21043	34.7933	0.346202
9	2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10	2,6-Dinitrotoluene	21.525	22.175	-0.650	7534	24.1071	0.239872(a)
11	2,4-Dinitrotoluene	22.850	23.316	-0.466	19116	49.1644	0.489198
12	2-Nitrotoluene	Compound Not Detected.					
13	4-Nitrotoluene	Compound Not Detected.					
14	3-Nitrotoluene	Compound Not Detected.					
$ 15	1-C-3-NB	33.208	33.233	-0.025	60651	514.986	5.12424

ND no response @ 265nm ELC 1/8/8

Requires Conf.
No results confirmed

0124

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422001
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD01
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	5.12424	103.00	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422001
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

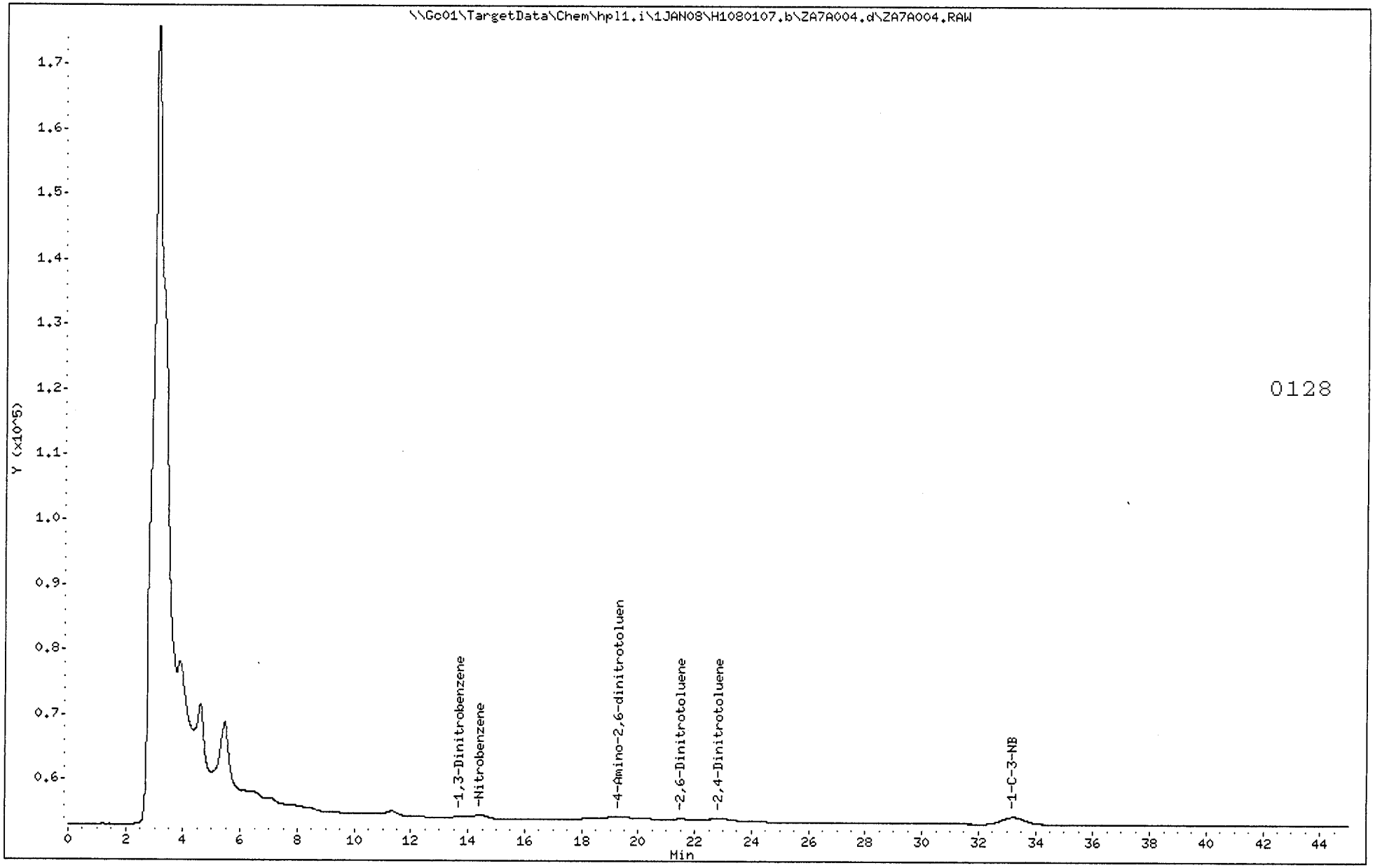
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD01
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.0573994	J
98-95-3	Nitrobenzene	0.626651	
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.346202	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.239872	J
121-14-2	2,4-Dinitrotoluene	0.489198	
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	5.12424	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A004.d
Date : 07-JAN-2008 18:40
Client ID: FITG1SSD01
Sample Info: 9716422001
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0128

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B004.d
Lab Smp Id: 9716422001 Client Smp ID: FITG1SSD01
Inj Date : 07-JAN-2008 18:40
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422001
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.233	33.208	0.025	132622	444.647	4.42435

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422001
Client Smp ID: FITG1SSD01
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.42435	88.93	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

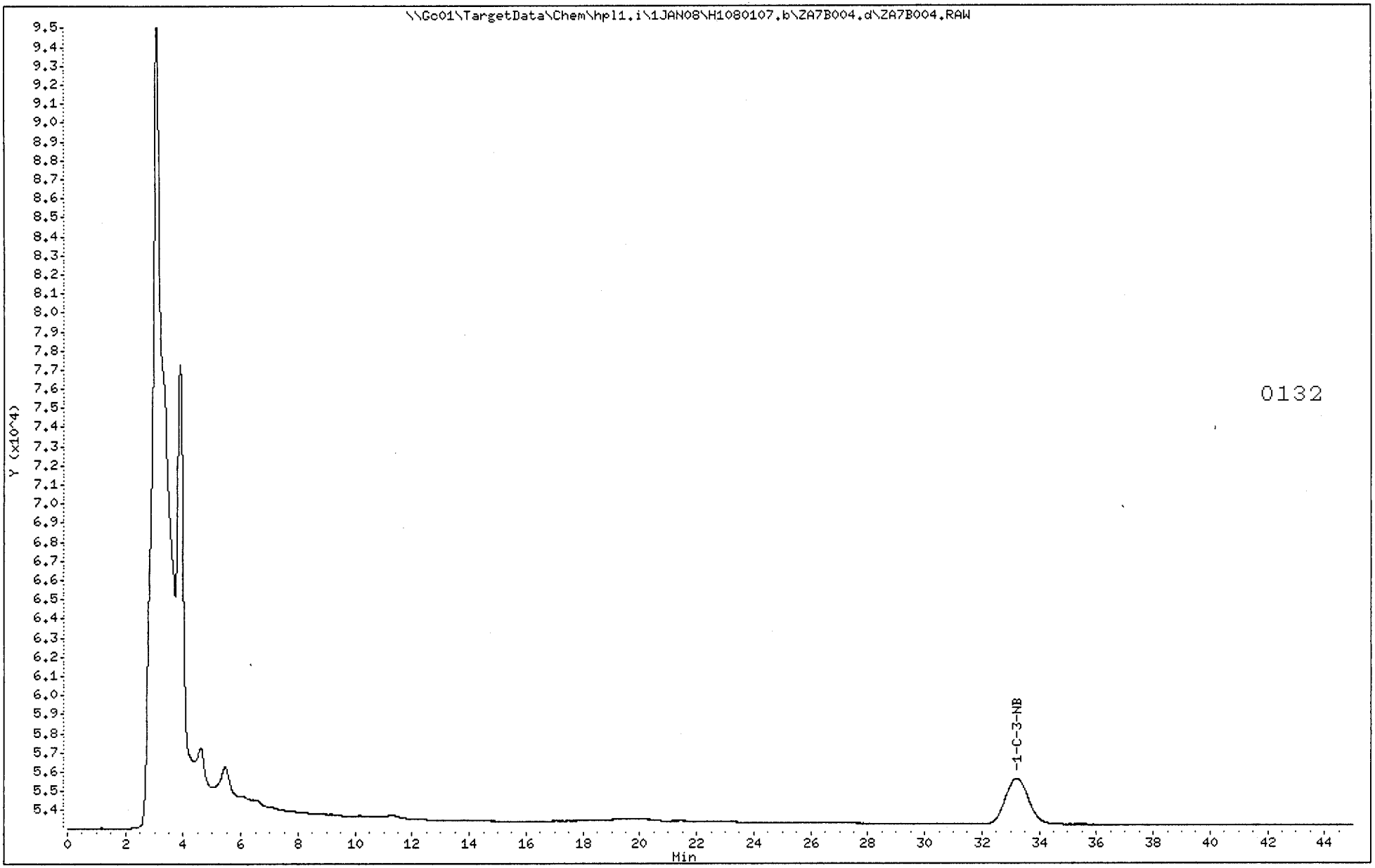
Client Name: URS Corporation -Li
Lab Smp Id: 9716422001
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD01
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.42435	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B004.d
Date : 07-JAN-2008 18:40
Client ID: FITG1SSD01
Sample Info: 9716422001
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0132

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A005.d
Lab Smp Id: 9716422002 Client Smp ID: FITG1SSC02
Inj Date : 07-JAN-2008 19:26
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422002
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.208	33.233	-0.025	57982	492.324	4.80316

0133

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JJL 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422002
Client Smp ID: FITG1SSC02
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.80316	98.46	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

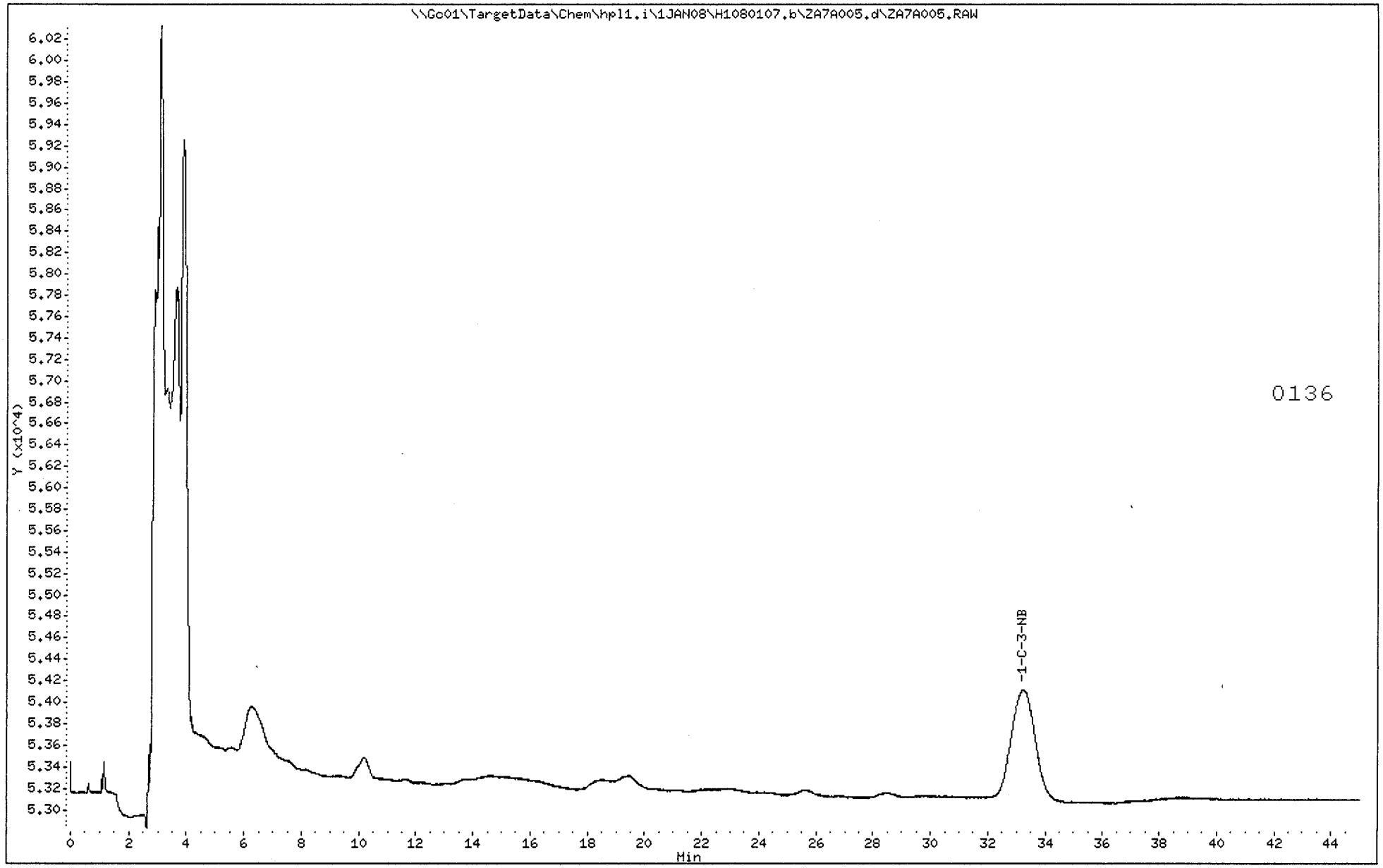
Client Name: URS Corporation -Li
Lab Smp Id: 9716422002
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC02
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-73-3	1-C-3-NB	4.80316	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A005.d
Date : 07-JAN-2008 19:26
Client ID: FITG1SSC02
Sample Info: 9716422002
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0136

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B005.d
Lab Smp Id: 9716422002 Client Smp ID: FITG1SSC02
Inj Date : 07-JAN-2008 19:26
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422002
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.216	33.208	0.008	129526	434.267	4.23675

Data File: ZA7B005.d
Report Date: 08-Jan-2008 14:15

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422002
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC02
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.23675	86.85	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

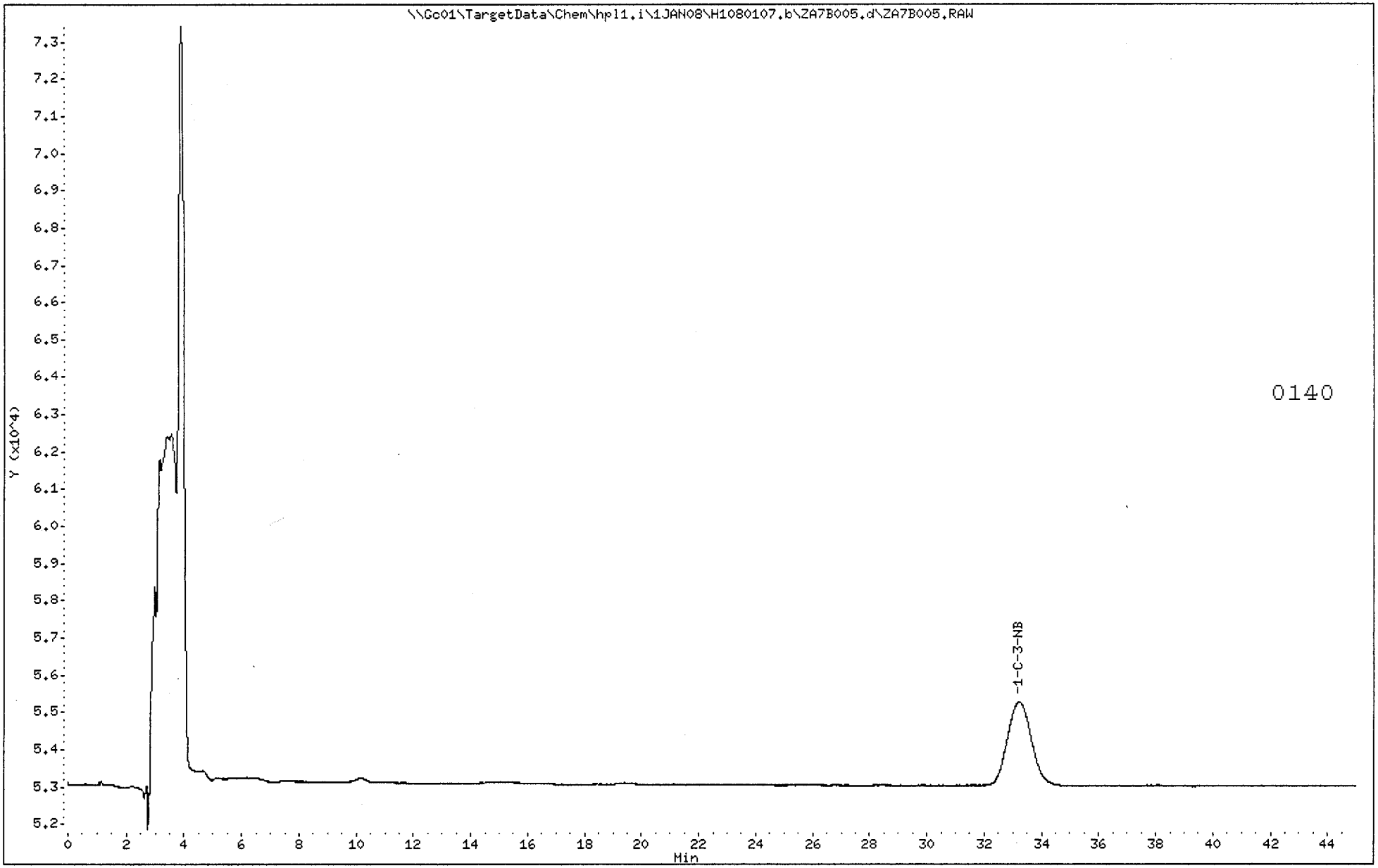
Client Name: URS Corporation -Li
Lab Smp Id: 9716422002
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC02
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-73-3	1-C-3-NB	4.23675	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B005.d
Date : 07-JAN-2008 19:26
Client ID: FITG1SSC02
Sample Info: 9716422002
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0140

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A006.d
Lab Smp Id: 9716422003 Client Smp ID: FITG1SSD03
Inj Date : 07-JAN-2008 20:12
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422003
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	18.691	18.375	0.316	22079	45.4280	0.443200
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.216	33.233	-0.017	58384	495.737	4.83646

DJS Requires Conf.
Does not confirm

ALL

0141

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JT 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422003
Client Smp ID: FITG1SSD03
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.83646	99.15	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

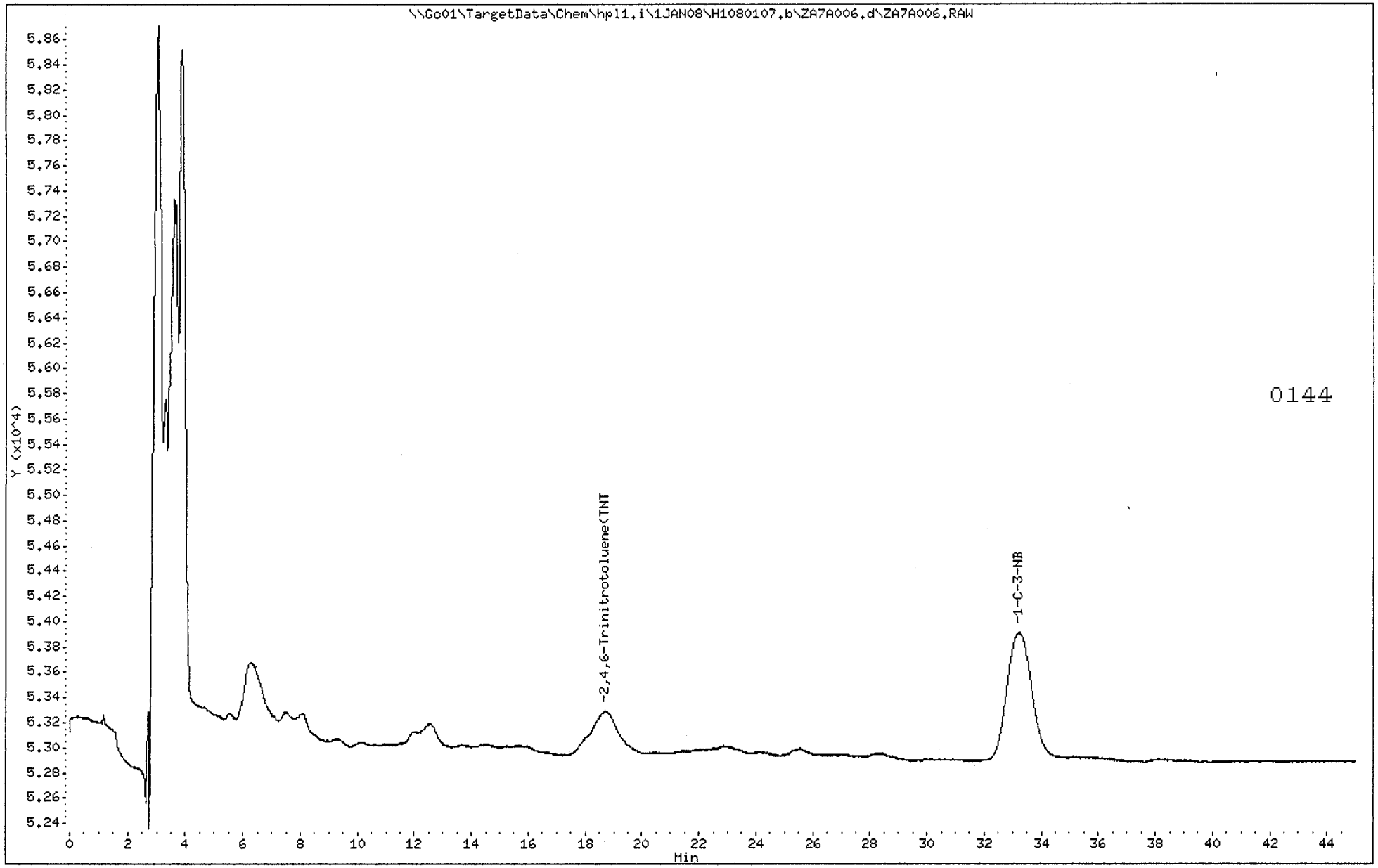
Client Name: URS Corporation -Li
Lab Smp Id: 9716422003
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD03
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.443200	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-73-3	1-C-3-NB	4.83646	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A006.d
Date : 07-JAN-2008 20:12
Client ID: FITG1SSD03
Sample Info: 9716422003
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B006.d
Lab Smp Id: 9716422003 Client Smp ID: FITG1SSD03
Inj Date : 07-JAN-2008 20:12
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422003
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.200	33.208	-0.008	130023	435.933	4.25301

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422003
Client Smp ID: FITG1SSD03
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.25301	87.19	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

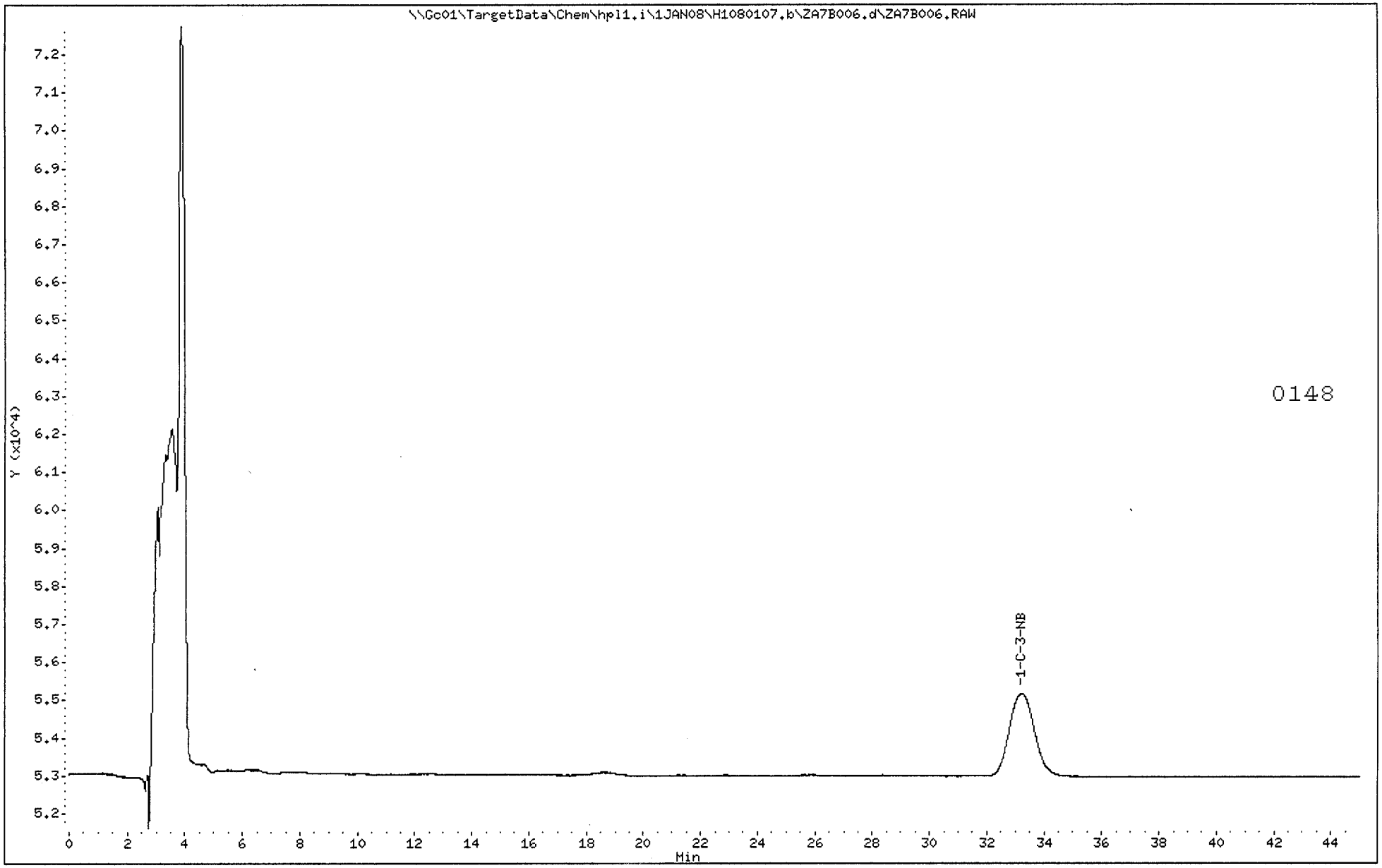
Client Name: URS Corporation -Li
Lab Smp Id: 9716422003
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD03
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
479-45-8	Tetryl	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
121-73-3	1-C-3-NB	4.25301	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B006.d
Date : 07-JAN-2008 20:12
Client ID: FITG1SSD03
Sample Info: 9716422003
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A007.d
Lab Smp Id: 9716422004 Client Smp ID: FITG1SSD04
Inj Date : 07-JAN-2008 20:58
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422004
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.020	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
~~5 Nitrobenzene~~	~~14.466~~	~~14.766~~	~~0.300~~	~~3452~~	~~23.6332~~	~~0.233992(a)~~
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.258	33.233	0.025	83770	711.289	7.04247

ND no response
@ 265 nm
ELC 1/8/8

All

0149

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JJ 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422004
Client Smp ID: FITG1SSD04
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.95050	7.04247	142.26	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422004
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

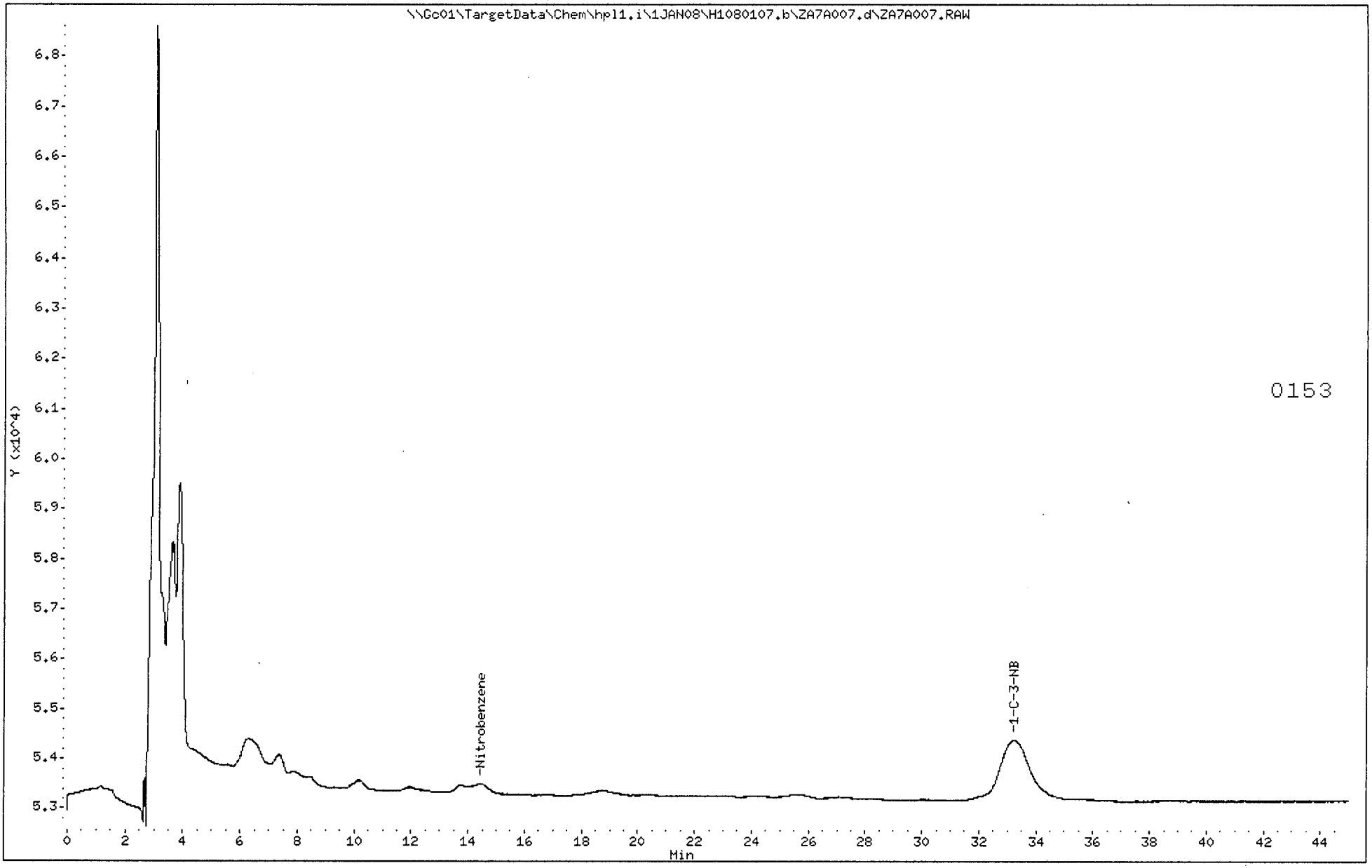
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD04
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.247525	U
121-82-4	RDX	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
98-95-3	Nitrobenzene	0.233992	J
479-45-8	Tetryl	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-73-3	1-C-3-NB	7.04247	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A007.d
Date : 07-JAN-2008 20:58
Client ID: FITG1SSD04
Sample Info: 9716422004
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0153

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B007.d
Lab Smp Id: 9716422004 Client Smp ID: FITG1SSD04
Inj Date : 07-JAN-2008 20:58
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422004
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.020	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.183	33.208	-0.025	132129	442.994	4.38608

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422004
Client Smp ID: FITG1SSD04
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.95050	4.38608	88.60	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

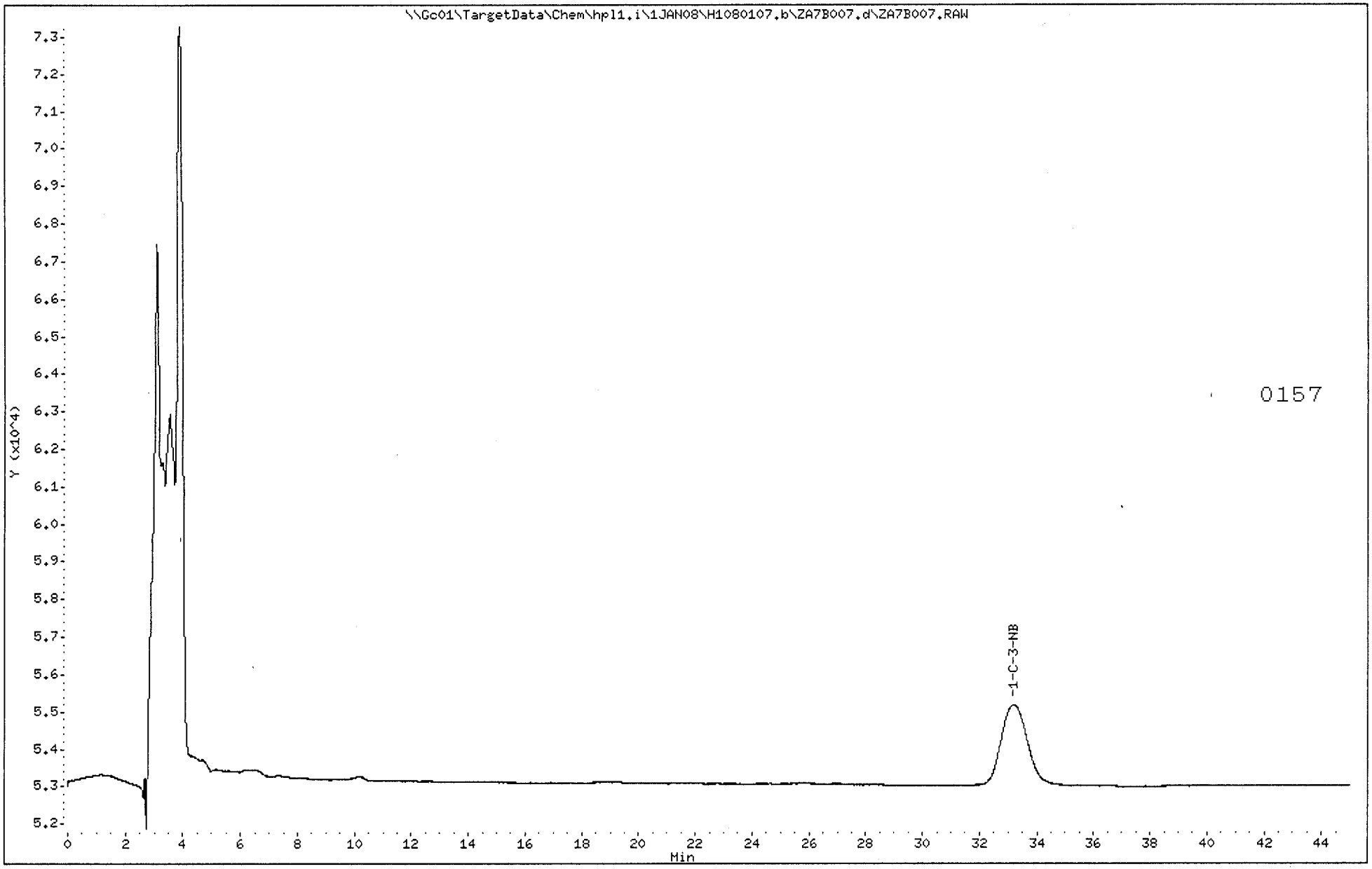
Client Name: URS Corporation -Li
Lab Smp Id: 9716422004
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD04
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.247525	U
121-82-4	RDX	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-73-3	1-C-3-NB	4.38608	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B007.d
Date : 07-JAN-2008 20:58
Client ID: FITG1SSD04
Sample Info: 9716422004
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0157

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A008.d
Lab Smp Id: 9716422005 Client Smp ID: FITG1SSC05
Inj Date : 07-JAN-2008 21:44
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422005
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	7.775	7.666	0.109	3912	14.4056	0.139861(a)
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	14.016	13.975	0.041	57780	101.341	0.983898
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.141	33.233	-0.092	45599	387.180	3.75903

Requires Conf

Results do not confirm

0158

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422005
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC05
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	3.75903	77.44	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

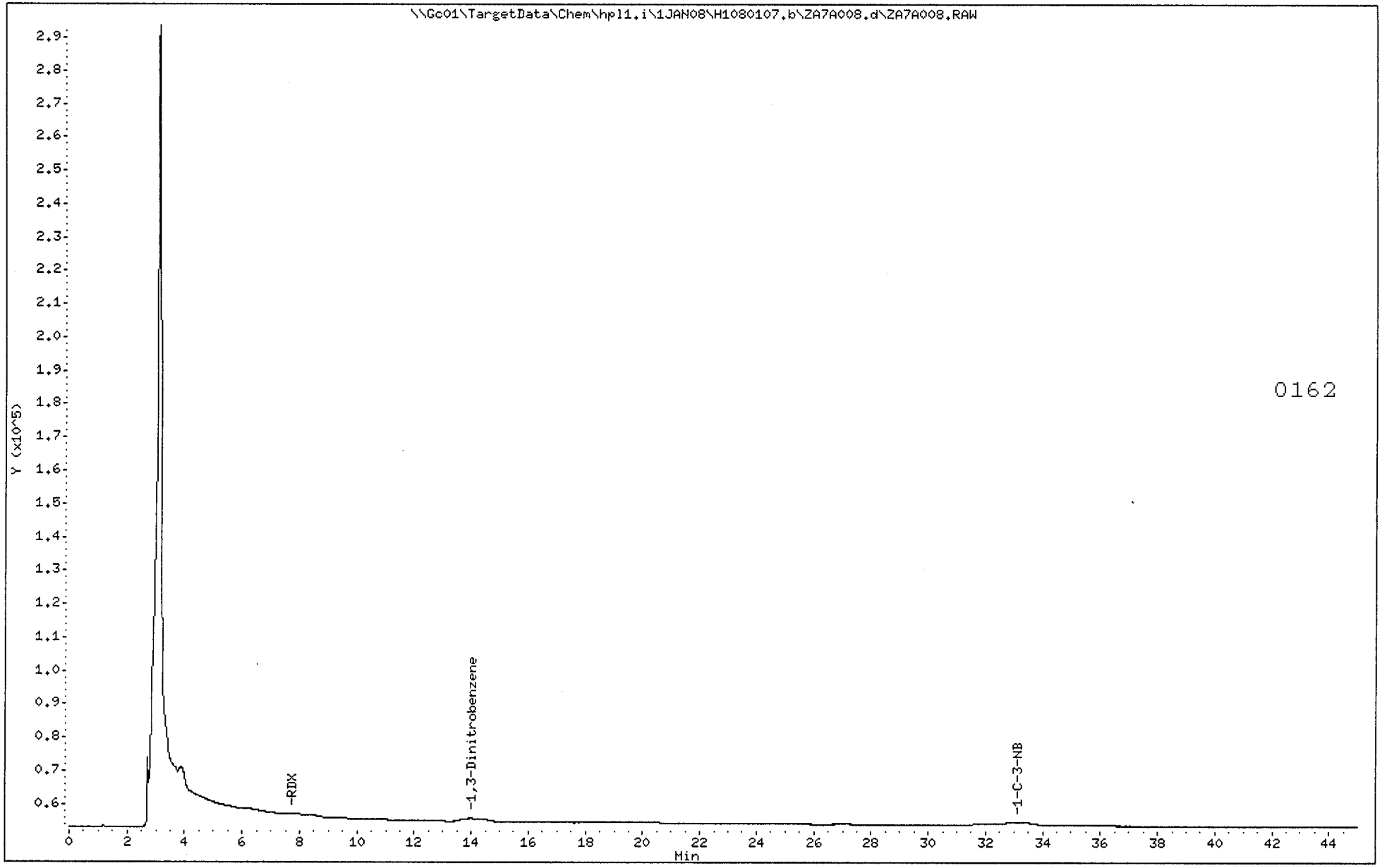
Client Name: URS Corporation -Li
Lab Smp Id: 9716422005
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC05
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.139861	J
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.983898	
98-95-3	Nitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-73-3	1-C-3-NB	3.75903	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A008.d
Date : 07-JAN-2008 21:44
Client ID: FITG1SSC05
Sample Info: 9716422005
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0162

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B008.d
Lab Smp Id: 9716422005 Client Smp ID: FITG1SSC05
Inj Date : 07-JAN-2008 21:44
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422005
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	14.008	13.975	0.033	29122	89.4600	0.868544
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.183	33.208	-0.025	162233	543.925	5.28083

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422005
Client Smp ID: FITG1SSC05
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	5.28083	108.79	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422005
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

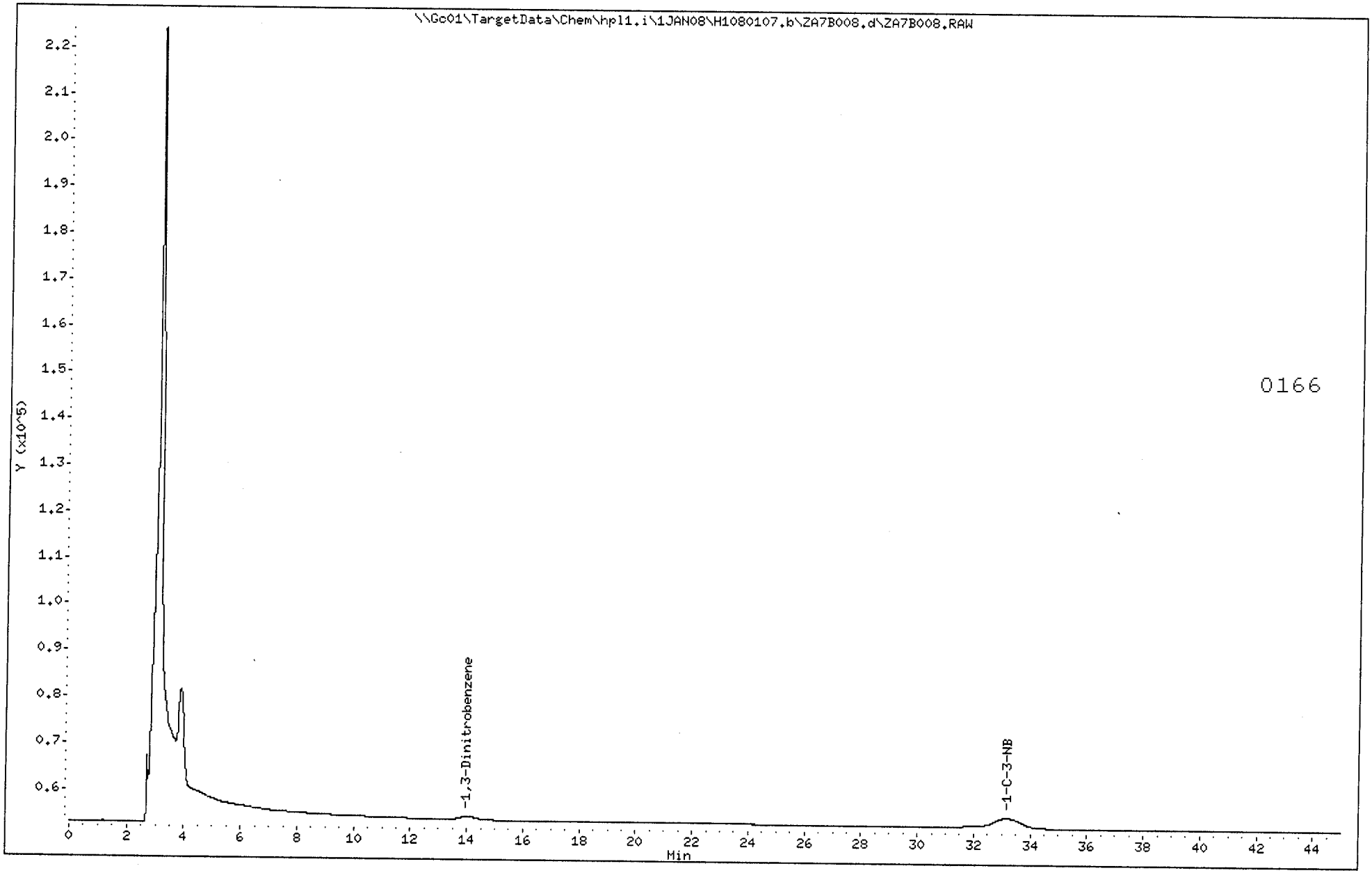
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC05
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.868544	
98-95-3	Nitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-73-3	1-C-3-NB	5.28083	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B008.d
Date : 07-JAN-2008 21:44
Client ID: FITG1SSC05
Sample Info: 9716422005
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0166

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A009.d
Lab Smp Id: 9716422006 Client Smp ID: FITG1SSD06
Inj Date : 07-JAN-2008 22:29
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422006
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	7.825	7.666	0.159	33398	122.986	1.22374
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	13.750	13.975	-0.225	19949	34.9890	0.348149(M)
~~5 Nitrobenzene~~	~~14.433~~	~~14.766~~	~~-0.333~~	~~29432~~	~~201.498~~	~~2.00496(M)~~
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
~~13 4-Nitrotoluene~~	~~26.941~~	~~27.625~~	~~-0.684~~	~~2986~~	~~38.2526~~	~~0.380623~~
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.175	33.233	-0.058	57621	489.259	4.86824 AH

Requires Conf.
Results do not Confirm

ND no response @ 265 nm

0167

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW 1/9/08

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422006
Client Smp ID: FITG1SSD06
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.86824	97.85	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422006
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

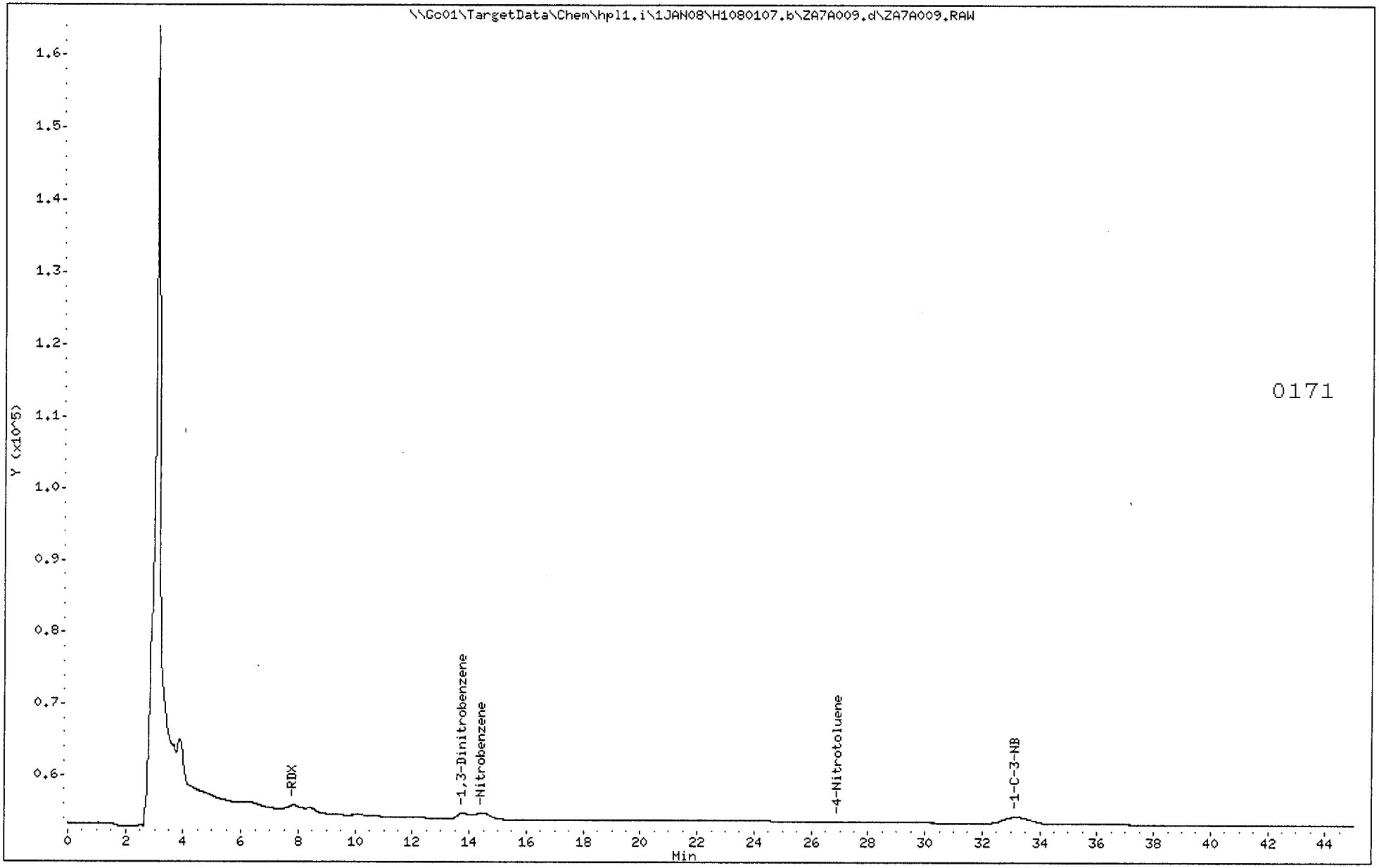
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD06
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	1.22374	
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.348149	
98-95-3	Nitrobenzene	2.00496	
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.380623	
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.86824	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A009.d
Date : 07-JAN-2008 22:29
Client ID: FITG1SSD06
Sample Info: 9716422006
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0171

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B009.d
Lab Smp Id: 9716422006 Client Smp ID: FITG1SSD06
Inj Date : 07-JAN-2008 22:29
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422006
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.183	33.208	-0.025	126146	422.935	4.20831

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422006
Client Smp ID: FITG1SSD06
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.20831	84.59	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422006
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

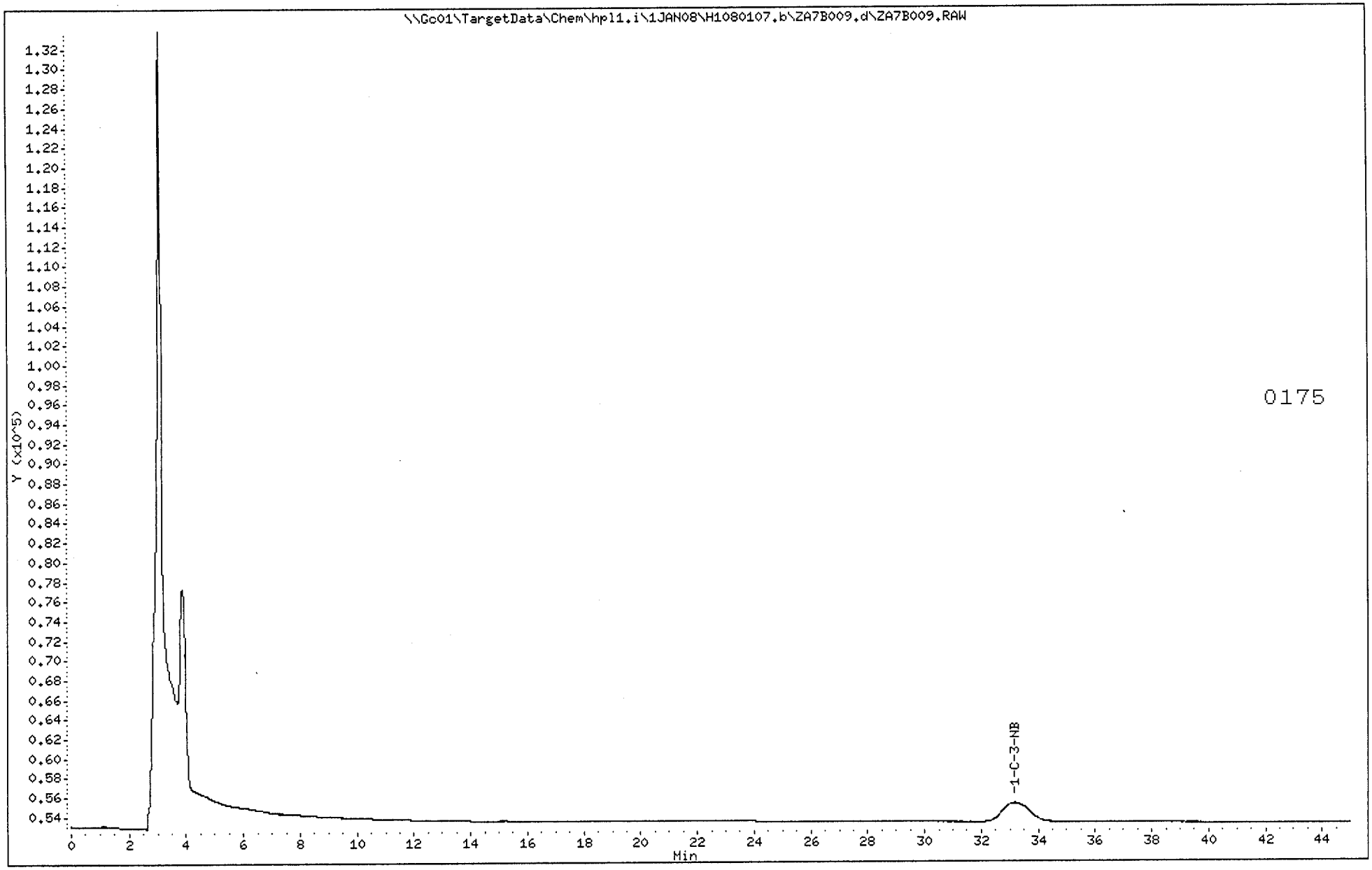
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD06
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.20831	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B009.d
Date : 07-JAN-2008 22:29
Client ID: FITG1SSD06
Sample Info: 9716422006
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A010.d
Lab Smp Id: 9716422007 Client Smp ID: FITG1SSD07
Inj Date : 07-JAN-2008 23:15
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422007
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.120	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.108	33.233	-0.125	58402	495.890	4.67821

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DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JS 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422007
Client Smp ID: FITG1SSD07
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.71698	4.67821	99.18	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422007
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

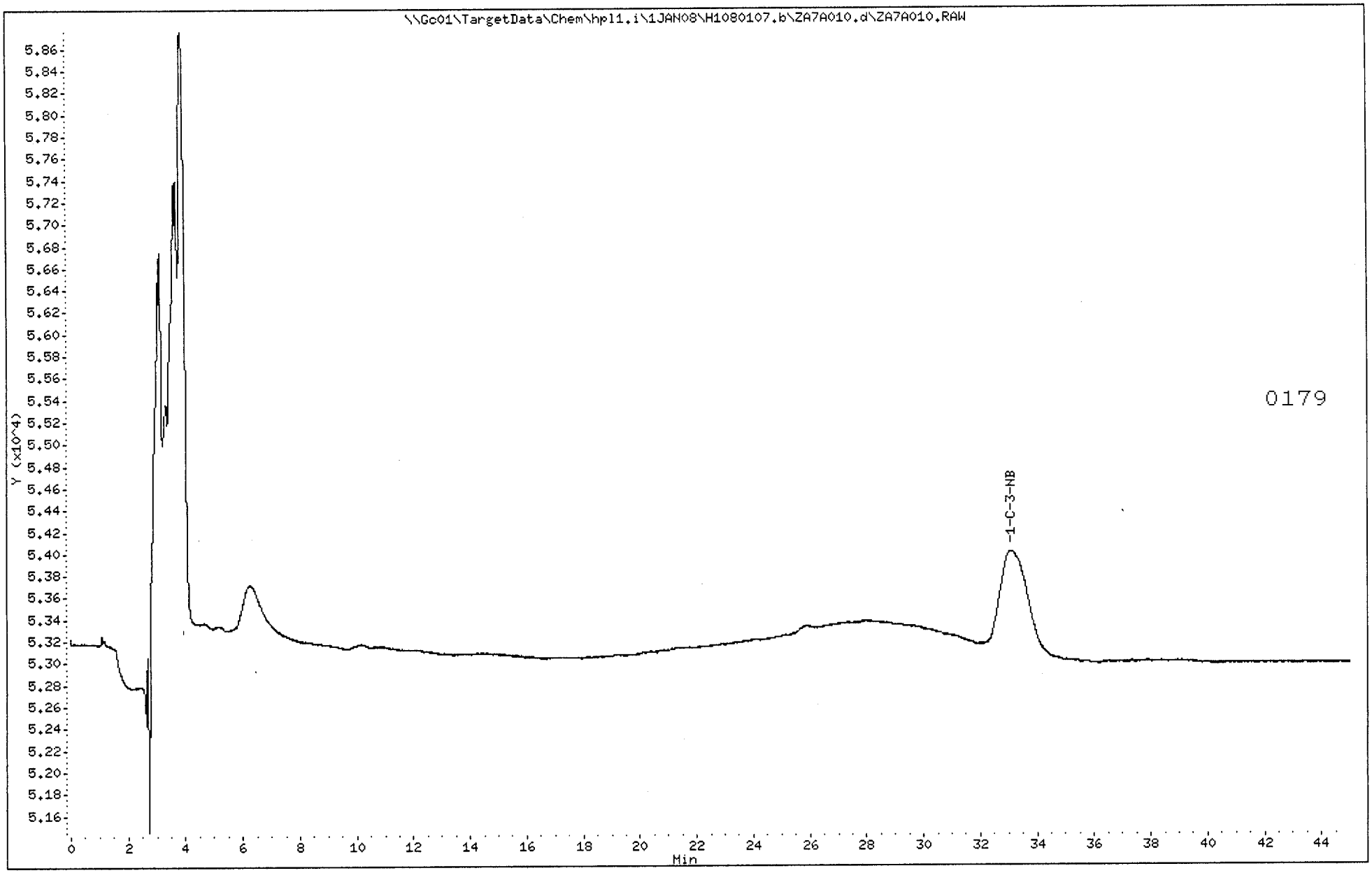
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD07
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.235849	U
121-82-4	RDX	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-73-3	1-C-3-NB	4.67821	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A010.d
Date : 07-JAN-2008 23:15
Client ID: FITG1SSD07
Sample Info: 9716422007
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B010.d
Lab Smp Id: 9716422007 Client Smp ID: FITG1SSD07
Inj Date : 07-JAN-2008 23:15
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422007
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.120	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.150	33.208	-0.058	134192	449.911	4.24444

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422007
Client Smp ID: FITG1SSD07
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.71698	4.24444	89.98	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

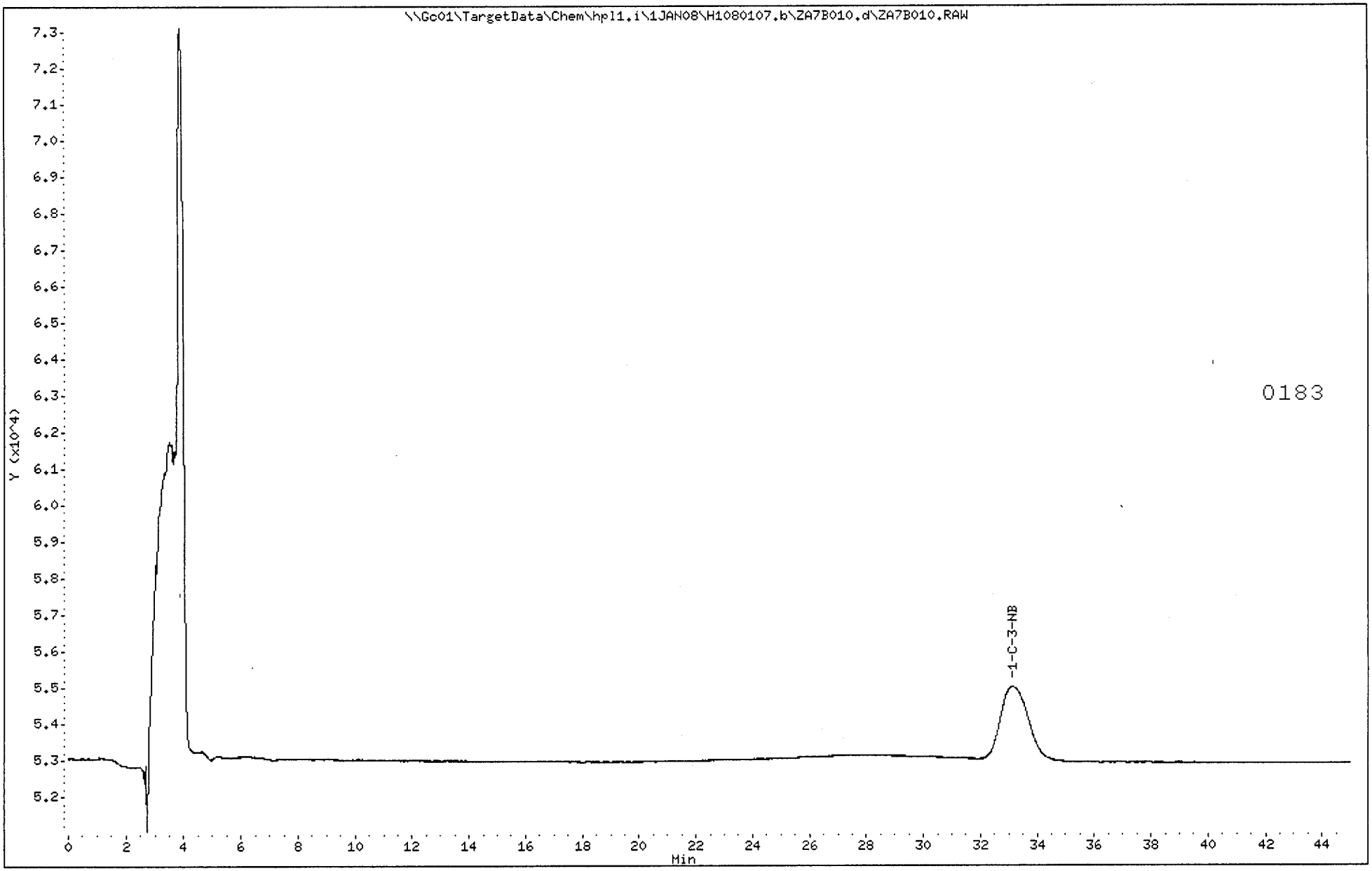
Client Name: URS Corporation -Li
Lab Smp Id: 9716422007
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD07
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.235849	U
121-82-4	RDX	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-73-3	1-C-3-NB	4.24444	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B010.d
Date : 07-JAN-2008 23:15
Client ID: FITG1SSD07
Sample Info: 9716422007
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A011.d
Lab Smp Id: 9716422008 Client Smp ID: FITG1SSC08
Inj Date : 08-JAN-2008 00:01
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422008
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	13.741	13.975	-0.234	4443	7.79267	0.0742159(aM)
~~5 Nitrobenzene~~	~~14.441~~	~~14.766~~	~~-0.325~~	~~6672~~	~~45.6780~~	~~0.435029(M)~~
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	18.558	18.375	0.183	6249	12.8575	0.122452(a)
8 4-Amino-2,6-dinitrotoluene	19.400	19.916	-0.516	12010	19.8578	0.189122(a)
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.083	33.233	-0.150	61814	524.861	4.99868 All

ND no response @ 265 nm ELC 1/8/8

Requires Conf results do not confirm

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DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JJ 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422008
Client Smp ID: FITG1SSC08
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.76190	4.99868	104.97	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

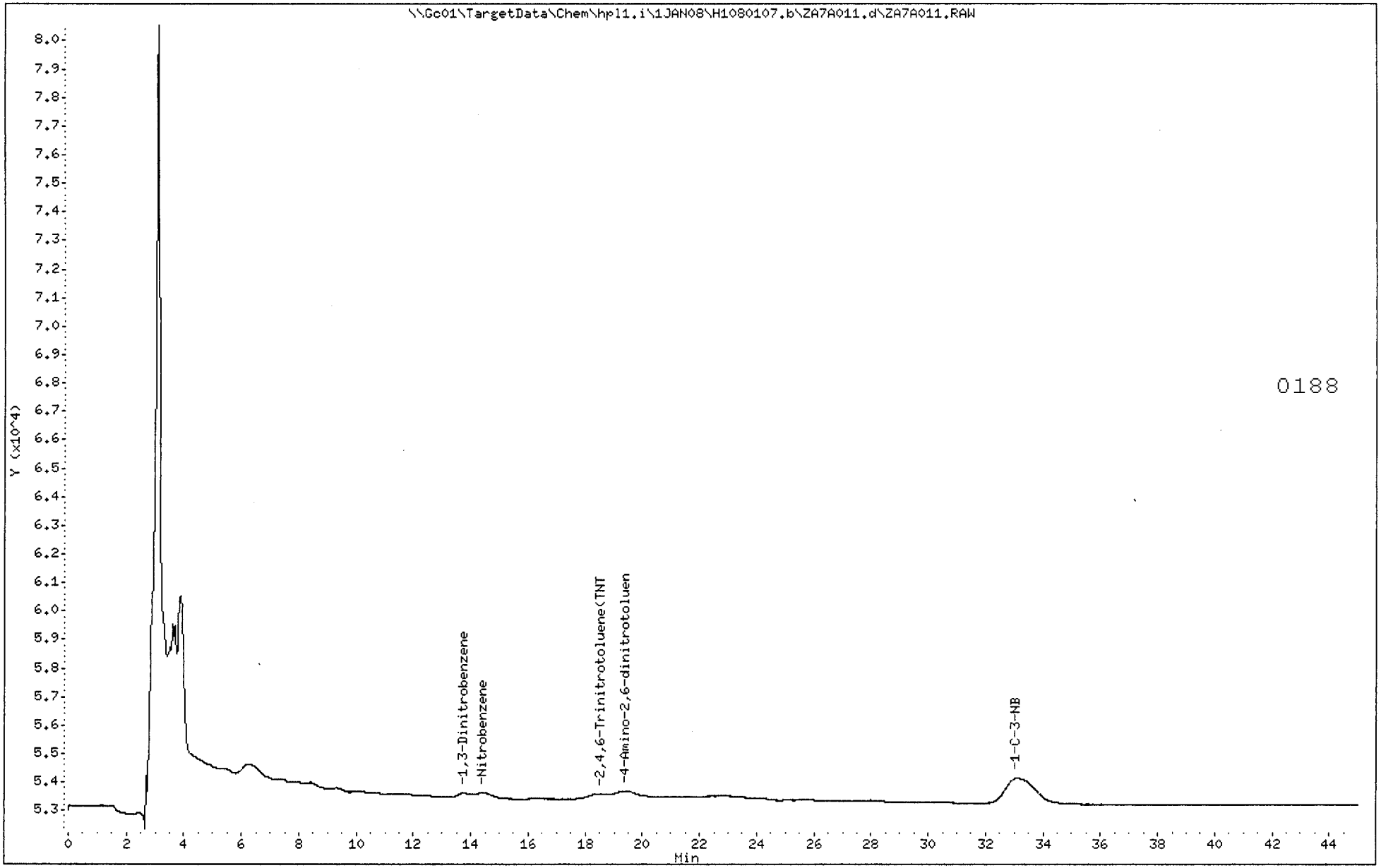
Client Name: URS Corporation -Li
Lab Smp Id: 9716422008
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC08
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.238095	U
121-82-4	RDX	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.0742159	J
98-95-3	Nitrobenzene	0.435029	
479-45-8	Tetryl	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.122452	J
1946-51-0	4-Amino-2,6-dinitrotoluene	0.189122	J
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-73-3	1-C-3-NB	4.99868	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A011.d
Date : 08-JAN-2008 00:01
Client ID: FITG1SSC08
Sample Info: 9716422008
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B011.d
Lab Smp Id: 9716422008 Client Smp ID: FITG1SSC08
Inj Date : 08-JAN-2008 00:01
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422008
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.091	33.208	-0.117	133914	448.979	4.27599

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422008
Client Smp ID: FITG1SSC08
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.76190	4.27599	89.80	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422008
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

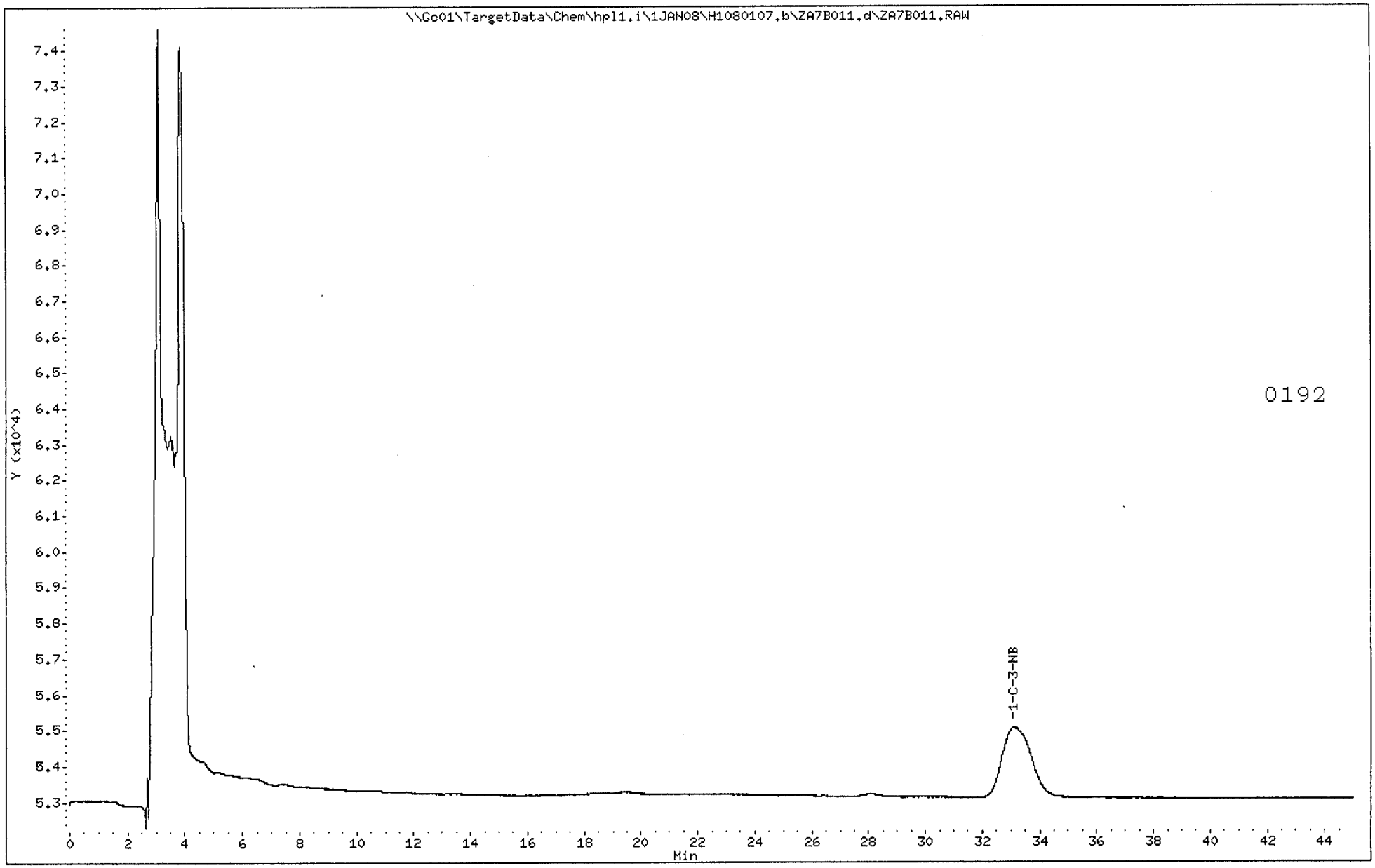
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC08
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.238095	U
121-82-4	RDX	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
479-45-8	Tetryl	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
121-73-3	1-C-3-NB	4.27599	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B011.d
Date : 08-JAN-2008 00:01
Client ID: FITG1SSC08
Sample Info: 9716422008
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A013.d
Lab Smp Id: 9716422009 Client Smp ID: FITG1SSD09
Inj Date : 08-JAN-2008 01:33
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422009
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.020	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.050	33.075	-0.025	63629	540.272	5.34923

Alt

0193

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JJ 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422009
Client Smp ID: FITG1SSD09
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.95050	5.34923	108.05	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422009
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

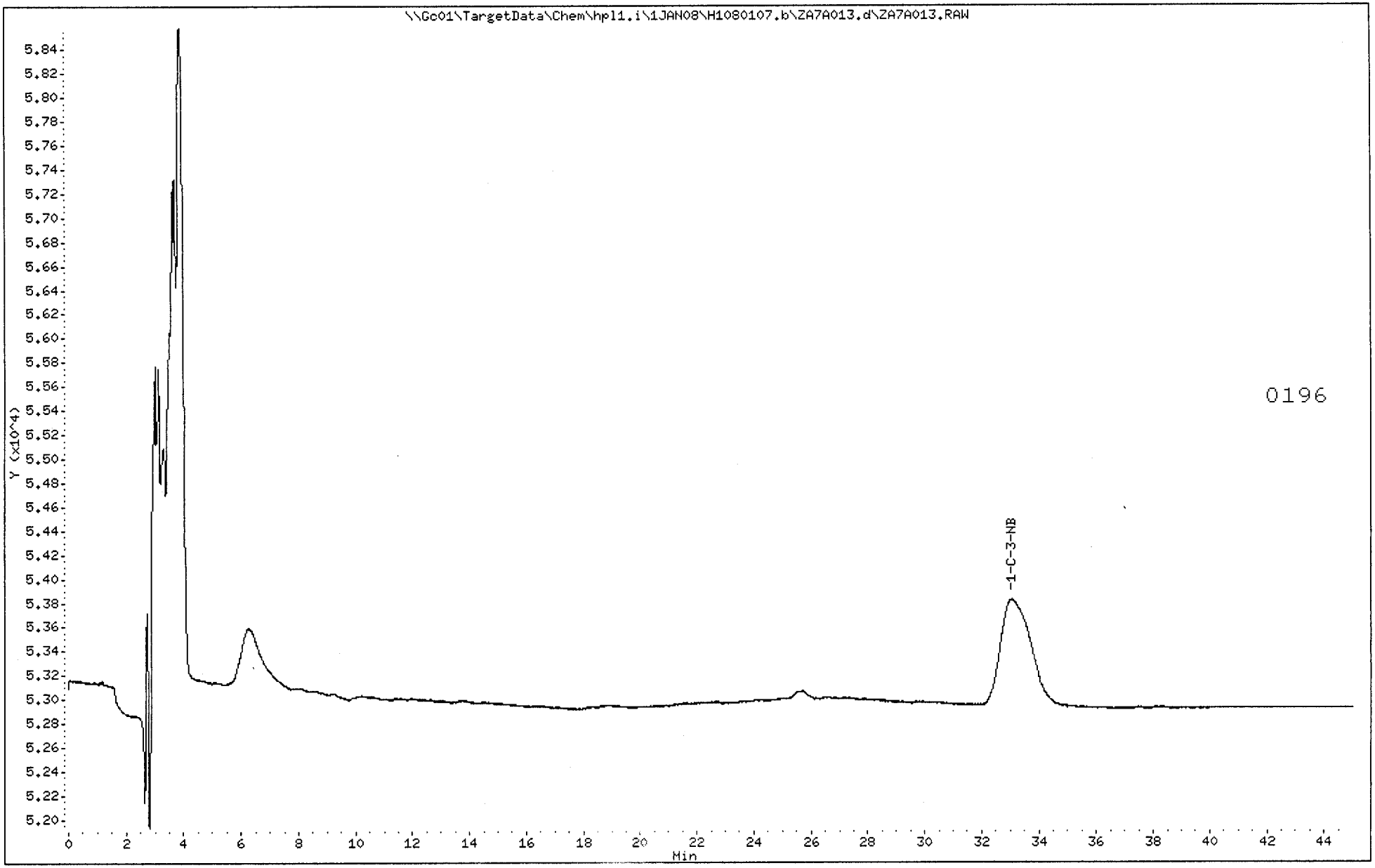
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD09
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.247525	U
121-82-4	RDX	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-73-3	1-C-3-NB	5.34923	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A013.d
Date : 08-JAN-2008 01:33
Client ID: FITG1SSD09
Sample Info: 9716422009
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B013.d
Lab Smp Id: 9716422009 Client Smp ID: FITG1SSD09
Inj Date : 08-JAN-2008 01:33
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422009
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.020	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.041	33.033	0.008	139552	467.882	4.63249

0197

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422009
Client Smp ID: FITG1SSD09
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.95050	4.63249	93.58	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

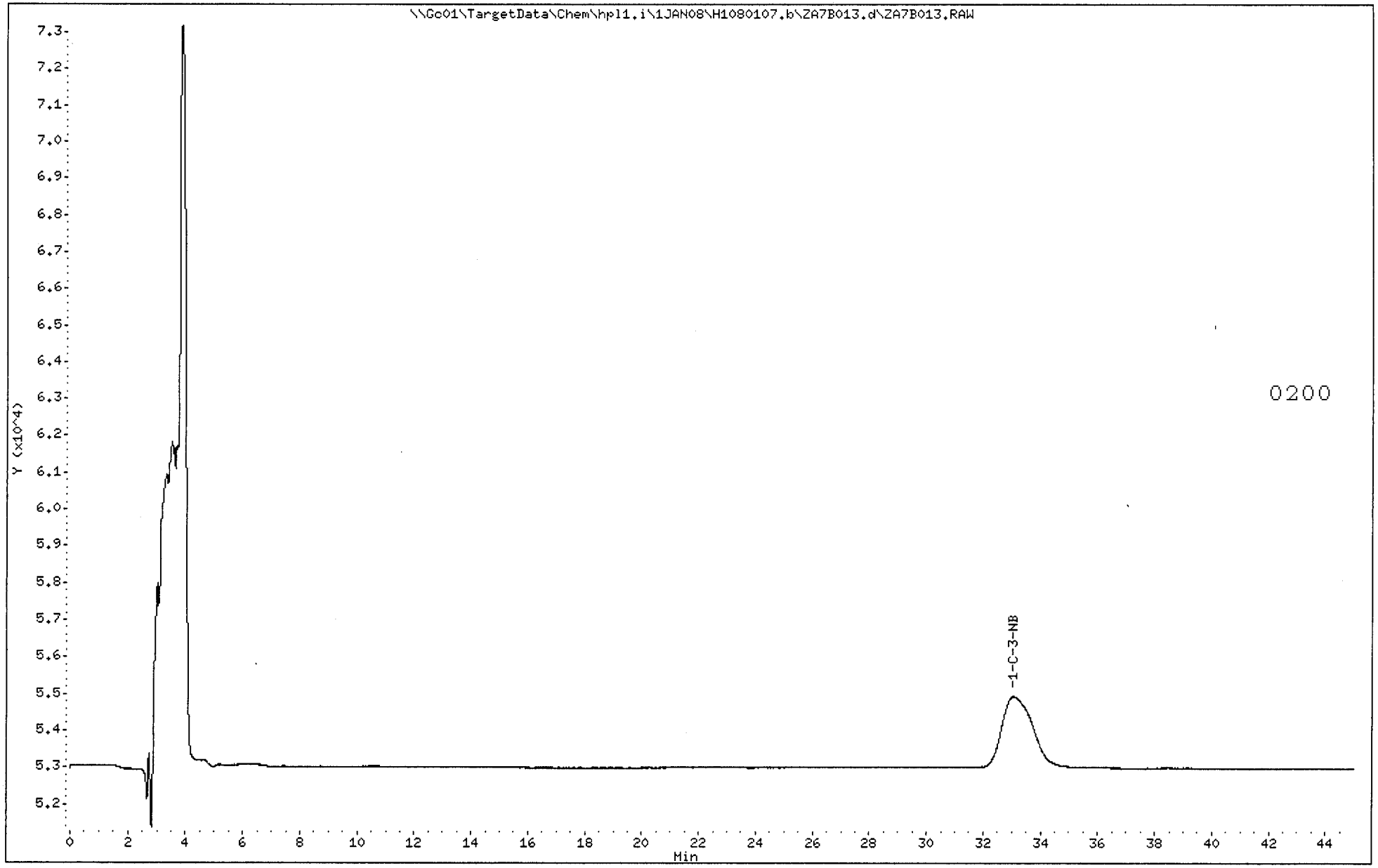
Client Name: URS Corporation -Li
Lab Smp Id: 9716422009
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD09
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.247525	U
121-82-4	RDX	0.247525	U
99-35-4	1,3,5-Trinitrobenzene	0.247525	U
99-65-0	1,3-Dinitrobenzene	0.247525	U
98-95-3	Nitrobenzene	0.247525	U
479-45-8	Tetryl	0.247525	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.247525	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.247525	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.247525	U
606-20-2	2,6-Dinitrotoluene	0.247525	U
121-14-2	2,4-Dinitrotoluene	0.247525	U
88-72-2	2-Nitrotoluene	0.247525	U
99-99-0	4-Nitrotoluene	0.247525	U
99-08-1	3-Nitrotoluene	0.247525	U
121-73-3	1-C-3-NB	4.63249	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B013.d
Date : 08-JAN-2008 01:33
Client ID: FITG1SSD09
Sample Info: 9716422009
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A014.d
Lab Smp Id: 9716422010 Client Smp ID: FITG1SSD10
Inj Date : 08-JAN-2008 02:19
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422010
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	13.791	13.933	-0.142	15472	27.1367	0.263463(M)
~~5 Nitrobenzene~~	~~14.383~~	~~14.708~~	~~-0.325~~	~~20571~~	~~140.834~~	~~1.36732(M)~~
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.008	33.075	-0.067	58274	494.803	4.80391

ND no response @ 265 nm

Requires Conf
Results do not Confirm

AK

0201

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED JT 1/9/08
2nd REVIEW JT 1/9/08

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422010
Client Smp ID: FITG1SSD10
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	4.80391	98.96	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422010
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

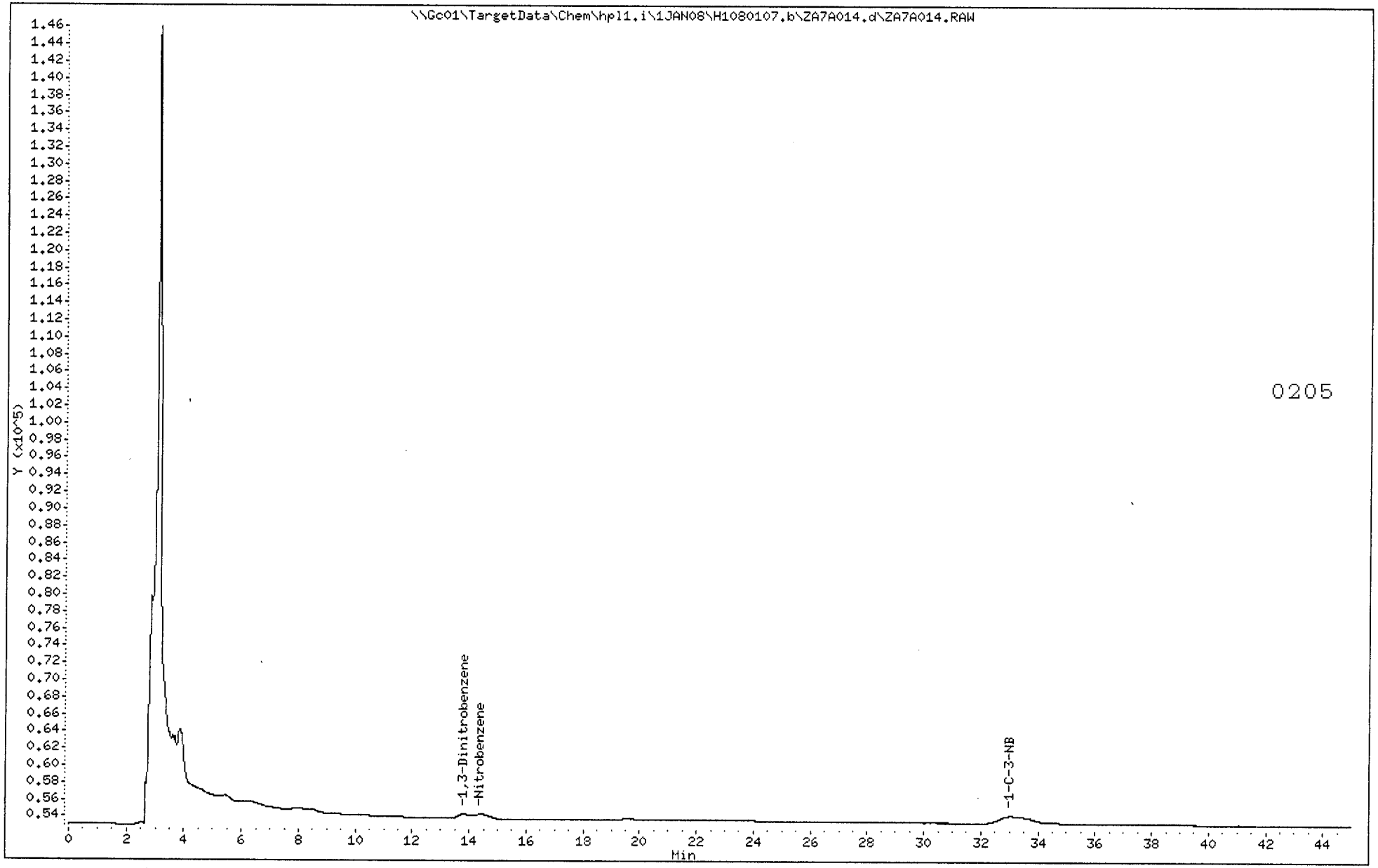
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD10
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.263463	
98-95-3	Nitrobenzene	1.36732	
479-45-8	Tetryl	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-73-3	1-C-3-NB	4.80391	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A014.d
Date : 08-JAN-2008 02:19
Client ID: FITG1SSD10
Sample Info: 9716422010
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0205

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B014.d
Lab Smp Id: 9716422010 Client Smp ID: FITG1SSD10
Inj Date : 08-JAN-2008 02:19
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422010
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.033	33.033	0.000	132607	444.597	4.31647

0206

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422010
Client Smp ID: FITG1SSD10
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	4.31647	88.92	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

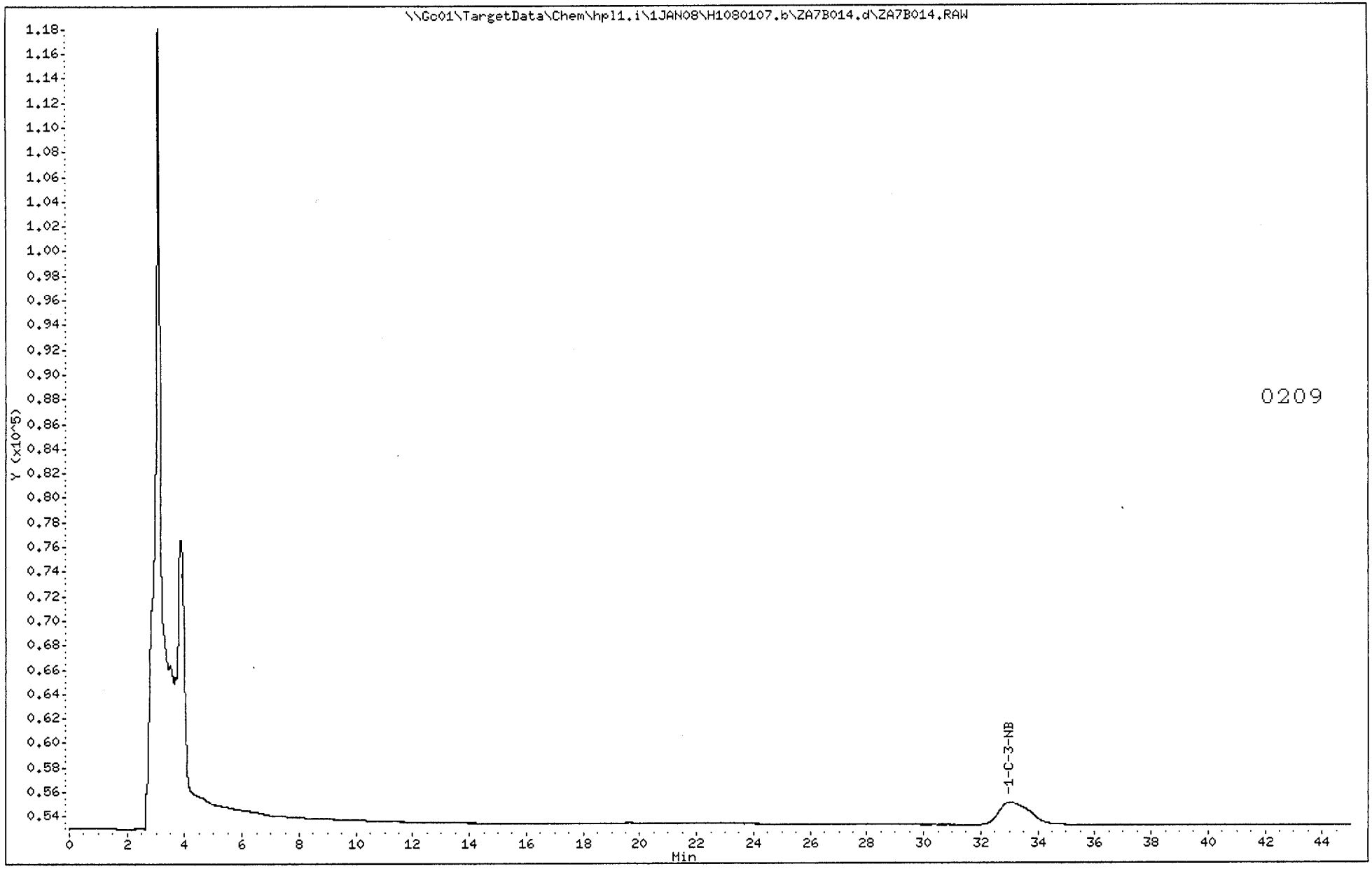
Client Name: URS Corporation -Li
Lab Smp Id: 9716422010
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD10
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
479-45-8	Tetryl	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
121-73-3	1-C-3-NB	4.31647	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B014.d
Date : 08-JAN-2008 02:19
Client ID: FITG1SSD10
Sample Info: 9716422010
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A015.d
Lab Smp Id: 9716422011 Client Smp ID: FITG1SSC11
Inj Date : 08-JAN-2008 03:05
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422011
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.050	33.075	-0.025	58729	498.667	4.96186

0210

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/9/8
2nd REVIEW JJ 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422011
Client Smp ID: FITG1SSC11
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.96186	99.73	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

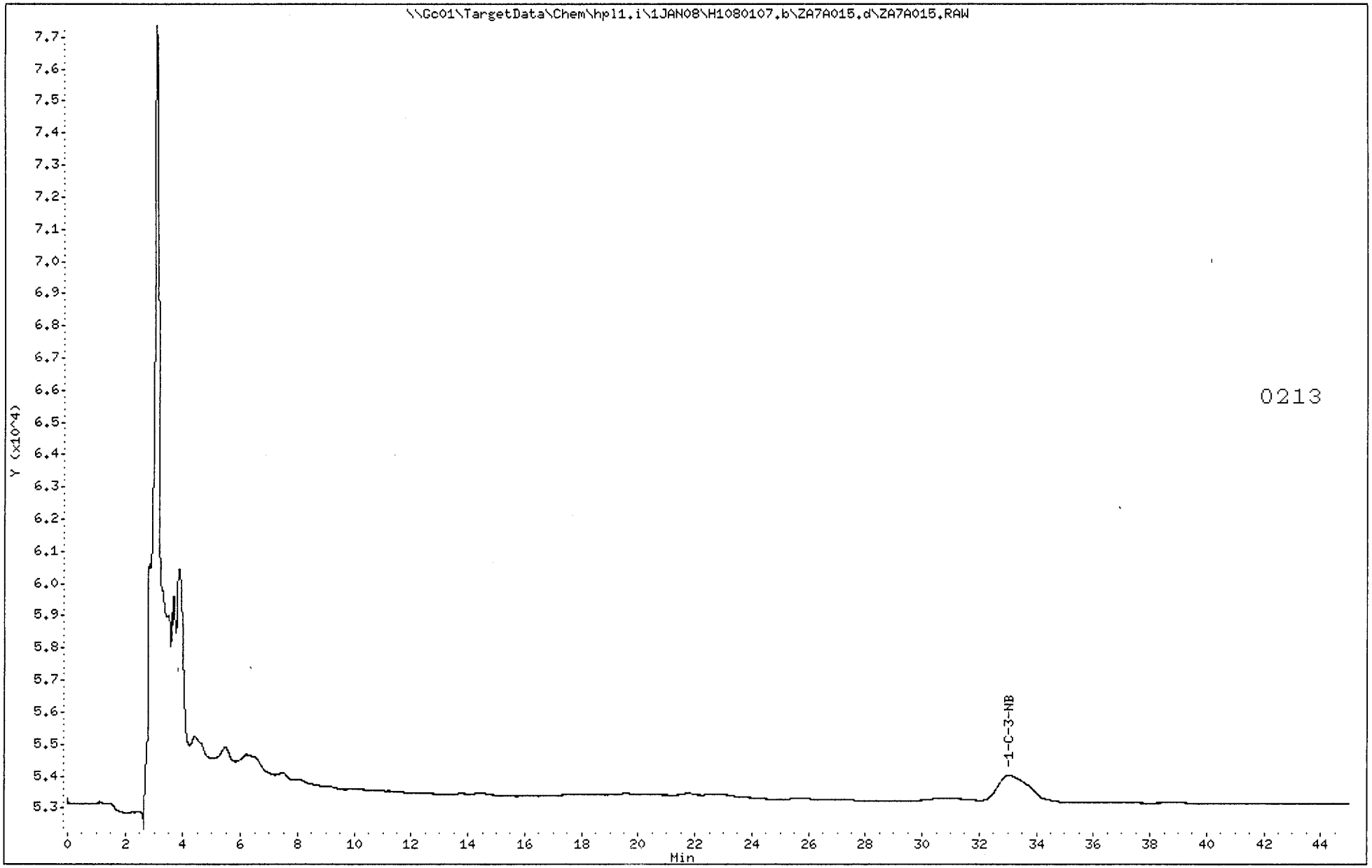
Client Name: URS Corporation -Li
Lab Smp Id: 9716422011
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC11
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.96186	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A015.d
Date : 08-JAN-2008 03:05
Client ID: FITG1SSC11
Sample Info: 9716422011
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B015.d
Lab Smp Id: 9716422011 Client Smp ID: FITG1SSC11
Inj Date : 08-JAN-2008 03:05
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422011
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.025	33.033	-0.008	133057	446.106	4.43886

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422011
Client Smp ID: FITG1SSC11
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.43886	89.22	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

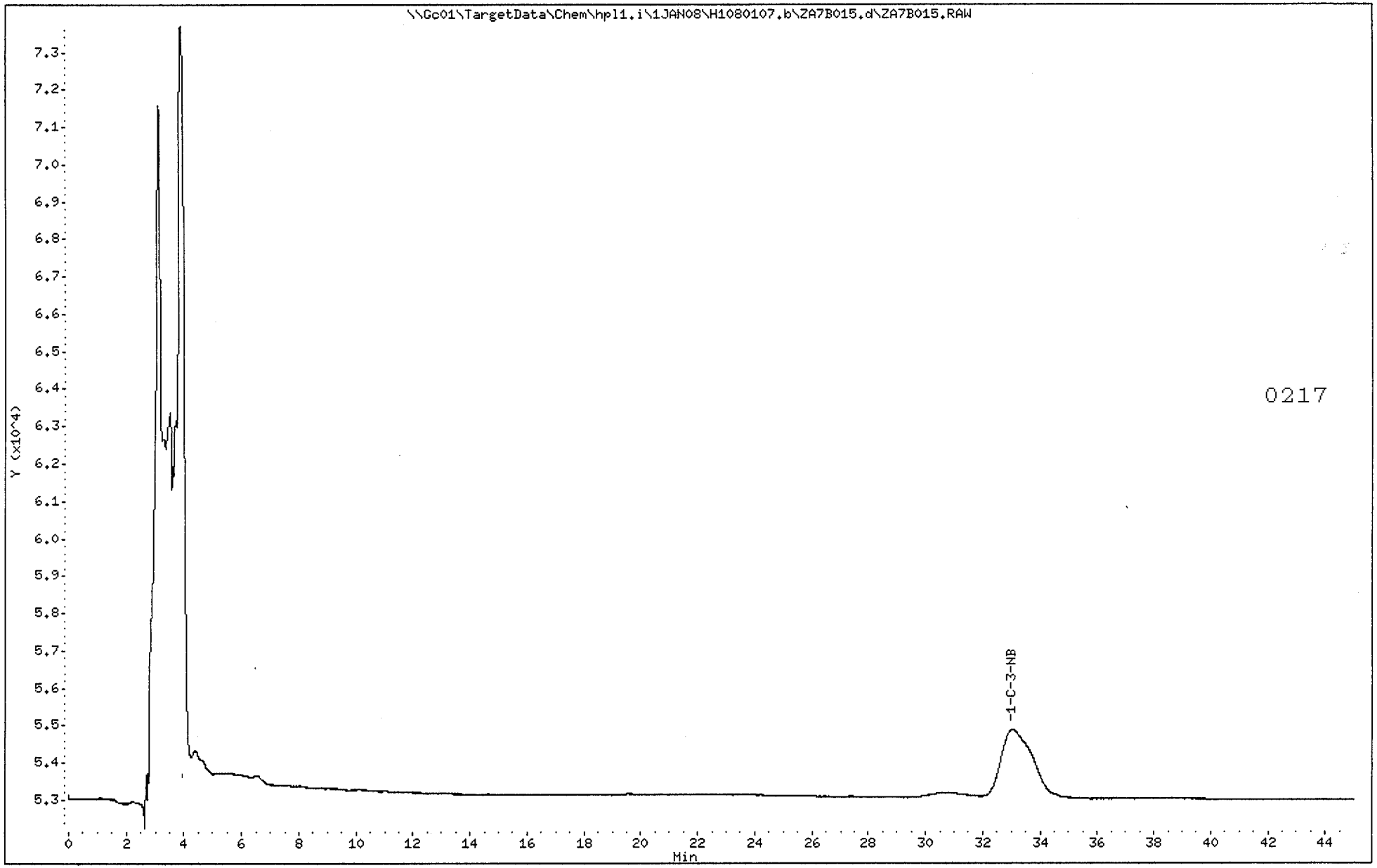
Client Name: URS Corporation -Li
Lab Smp Id: 9716422011
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC11
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
479-45-8	Tetryl	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.43886	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B015.d
Date : 08-JAN-2008 03:05
Client ID: FITG1SSC11
Sample Info: 9716422011
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0217

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A018.d
Lab Smp Id: 9716422012 Client Smp ID: FITG1SSD12
Inj Date : 08-JAN-2008 05:22
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422012
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.030	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	32.975	33.075	-0.100	59751	507.344	4.99847

A/1

0218

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JT 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422012
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD12
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.92611	4.99847	101.47	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422012
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

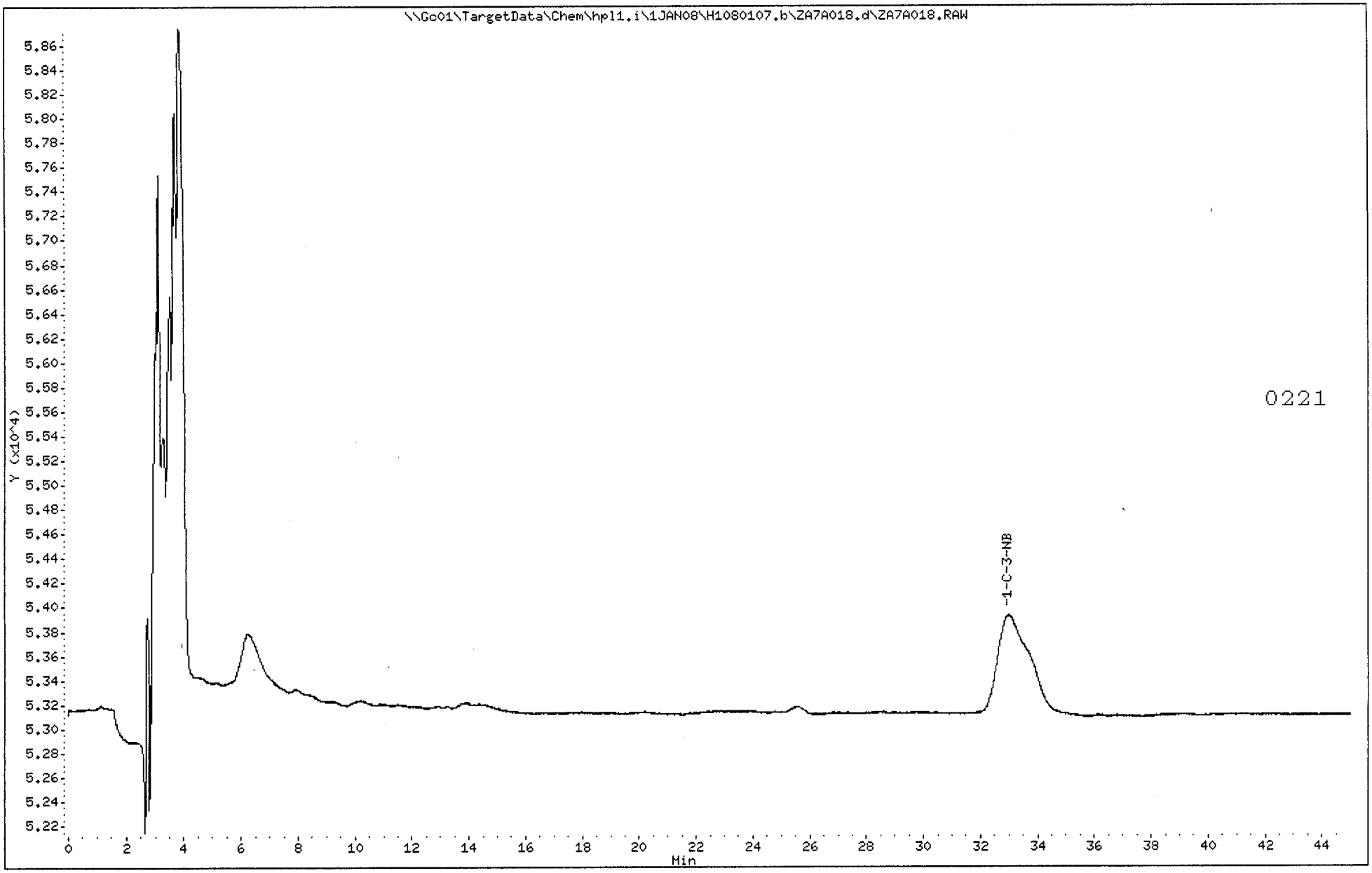
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD12
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.246305	U
121-82-4	RDX	0.246305	U
99-35-4	1,3,5-Trinitrobenzene	0.246305	U
99-65-0	1,3-Dinitrobenzene	0.246305	U
98-95-3	Nitrobenzene	0.246305	U
479-45-8	Tetryl	0.246305	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.246305	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.246305	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.246305	U
606-20-2	2,6-Dinitrotoluene	0.246305	U
121-14-2	2,4-Dinitrotoluene	0.246305	U
88-72-2	2-Nitrotoluene	0.246305	U
99-99-0	4-Nitrotoluene	0.246305	U
99-08-1	3-Nitrotoluene	0.246305	U
121-73-3	1-C-3-NB	4.99847	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A018.d
Date : 08-JAN-2008 05:22
Client ID: FITG1SSD12
Sample Info: 9716422012
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B018.d
Lab Smp Id: 9716422012 Client Smp ID: FITG1SSD12
Inj Date : 08-JAN-2008 05:22
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422012
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.030	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	32.975	33.033	-0.058	135464	454.176	4.47464

0222

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422012
Client Smp ID: FITG1SSD12
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.92611	4.47464	90.84	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

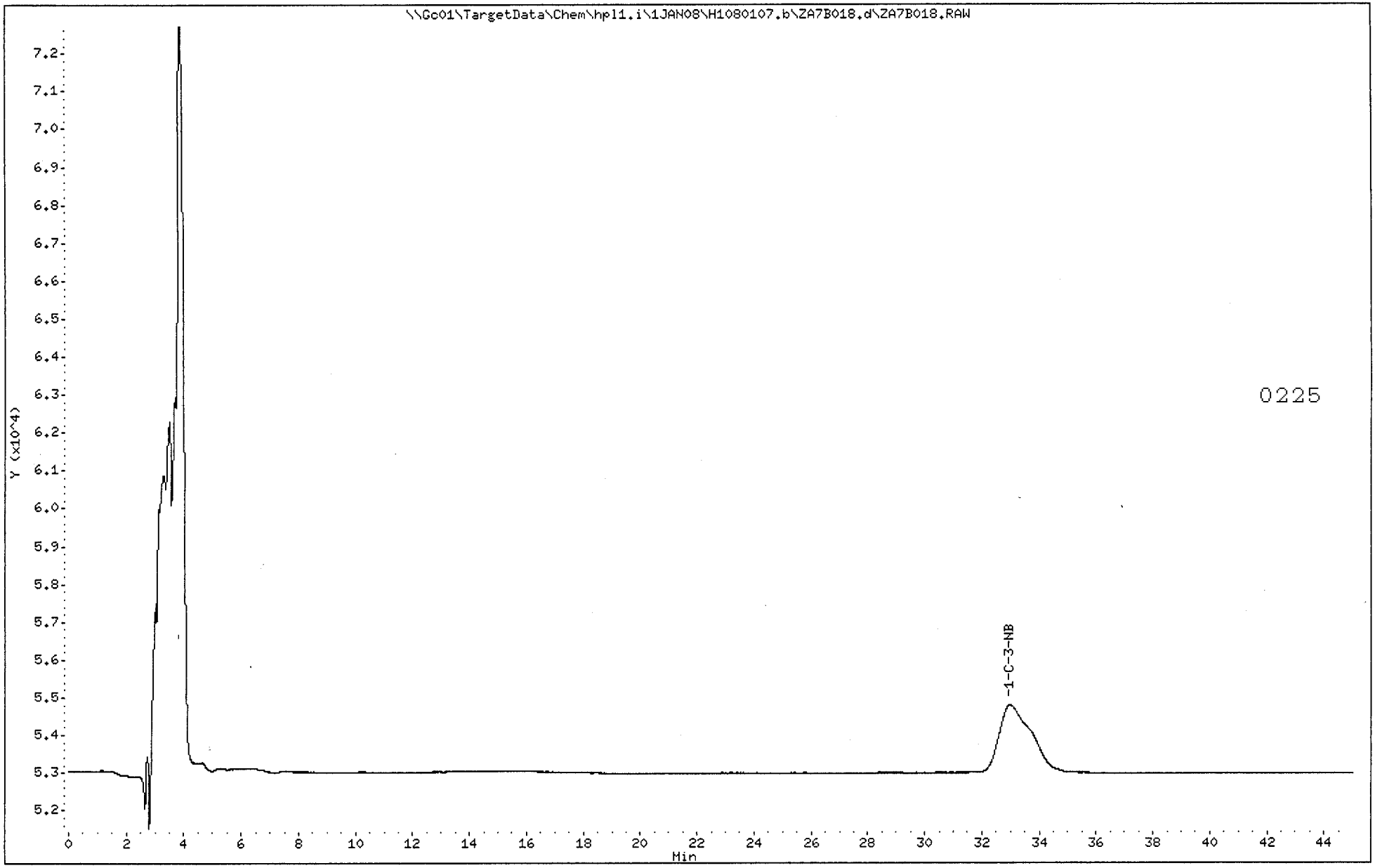
Client Name: URS Corporation -Li
Lab Smp Id: 9716422012
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD12
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.246305	U
121-82-4	RDX	0.246305	U
99-35-4	1,3,5-Trinitrobenzene	0.246305	U
99-65-0	1,3-Dinitrobenzene	0.246305	U
98-95-3	Nitrobenzene	0.246305	U
479-45-8	Tetryl	0.246305	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.246305	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.246305	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.246305	U
606-20-2	2,6-Dinitrotoluene	0.246305	U
121-14-2	2,4-Dinitrotoluene	0.246305	U
88-72-2	2-Nitrotoluene	0.246305	U
99-99-0	4-Nitrotoluene	0.246305	U
99-08-1	3-Nitrotoluene	0.246305	U
121-73-3	1-C-3-NB	4.47464	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B018.d
Date : 08-JAN-2008 05:22
Client ID: FITG1SSD12
Sample Info: 9716422012
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0225

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A019.d
Lab Smp Id: 9716422013 Client Smp ID: FITG1SSC11D
Inj Date : 08-JAN-2008 06:08
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422013
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.120	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	32.983	33.075	-0.092	61438	521.669	4.92140

A14

0226

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JS 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422013
Client Smp ID: FITG1SSC11D
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.71698	4.92140	104.33	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422013
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

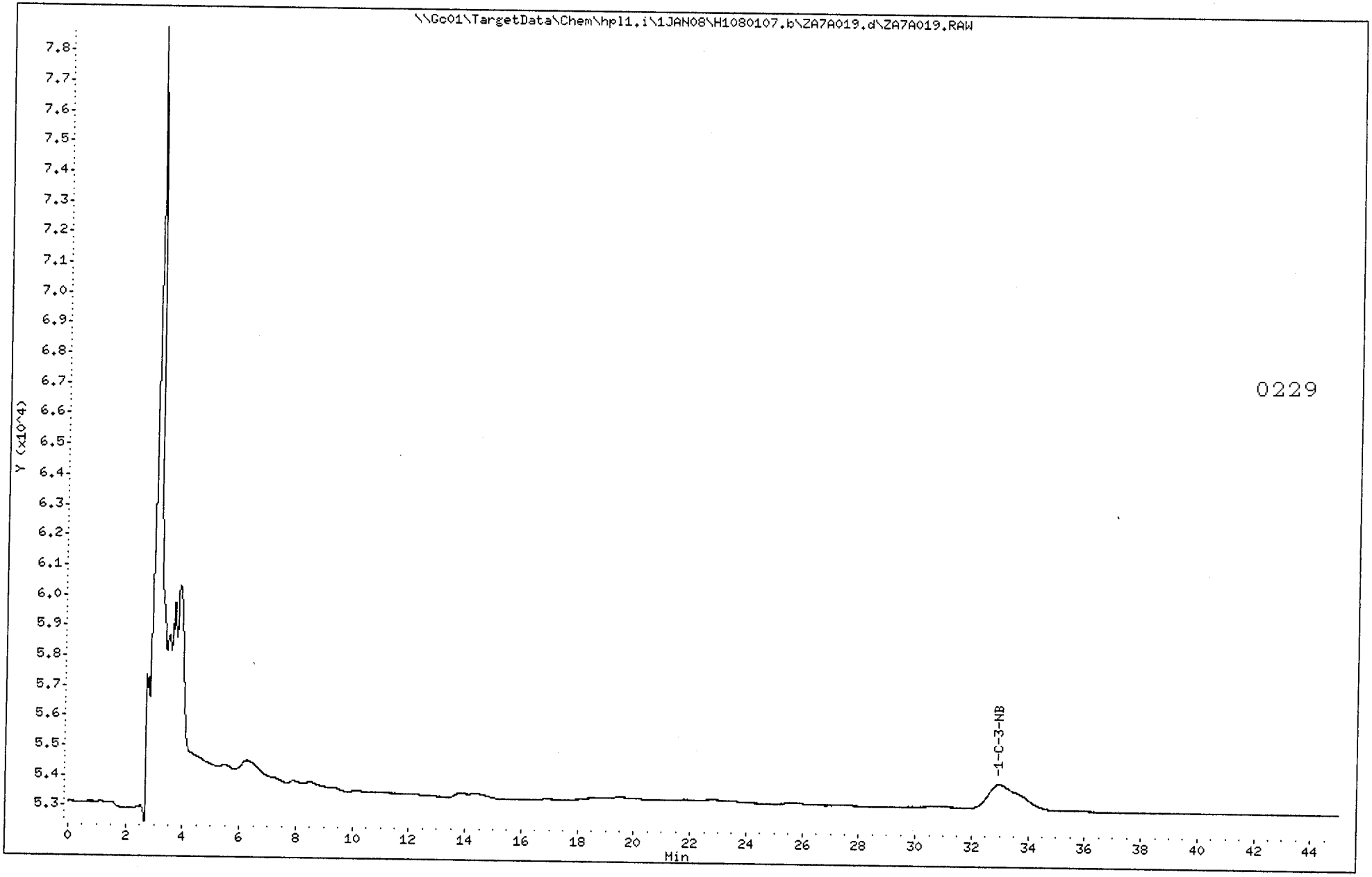
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC11D
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.235849	U
121-82-4	RDX	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
121-73-3	1-C-3-NB	4.92140	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A019.d
Date : 08-JAN-2008 06:08
Client ID: FITG1SSC11D
Sample Info: 9716422013
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0229

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B019.d
Lab Smp Id: 9716422013 Client Smp ID: FITG1SSC11D
Inj Date : 08-JAN-2008 06:08
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422013
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.120	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	32.950	33.033	-0.083	135845	455.453	4.29673

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422013
Client Smp ID: FITG1SSC11D
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.71698	4.29673	91.09	50-150

Data File: ZA7B019.d
Report Date: 08-Jan-2008 14:16

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

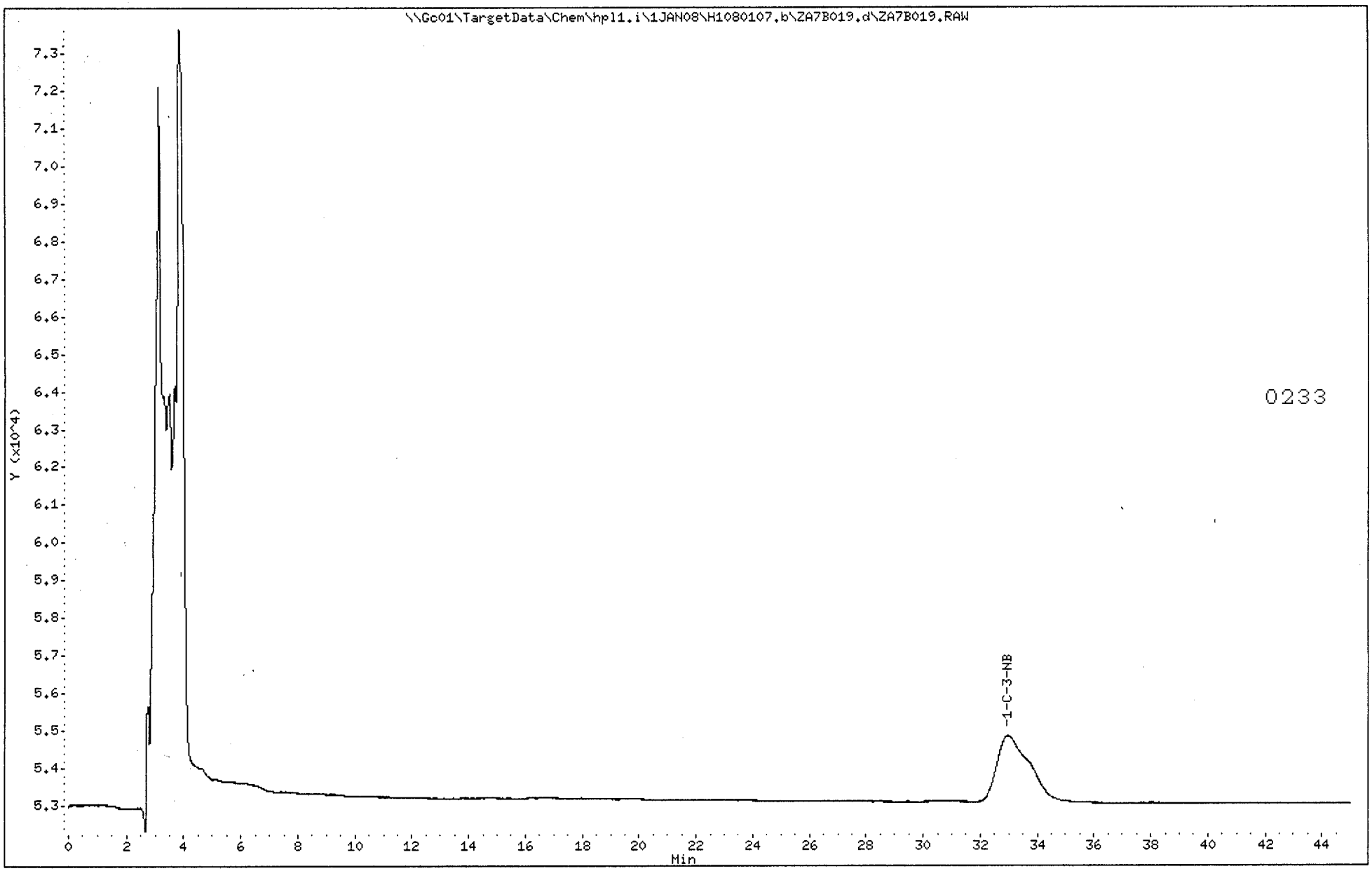
Client Name: URS Corporation -Li
Lab Smp Id: 9716422013
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC11D
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

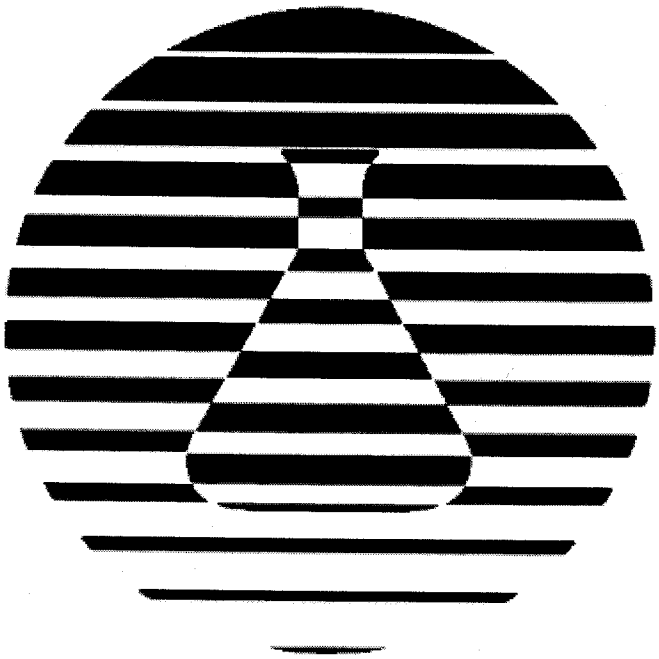
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.235849	U
121-82-4	RDX	0.235849	U
99-35-4	1,3,5-Trinitrobenzene	0.235849	U
99-65-0	1,3-Dinitrobenzene	0.235849	U
98-95-3	Nitrobenzene	0.235849	U
479-45-8	Tetryl	0.235849	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.235849	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.235849	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.235849	U
606-20-2	2,6-Dinitrotoluene	0.235849	U
121-14-2	2,4-Dinitrotoluene	0.235849	U
88-72-2	2-Nitrotoluene	0.235849	U
99-99-0	4-Nitrotoluene	0.235849	U
99-08-1	3-Nitrotoluene	0.235849	U
		==========	=====
121-73-3	1-C-3-NB	4.29673	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B019.d
Date : 08-JAN-2008 06:08
Client ID: FITG1SSC11D
Sample Info: 9716422013
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0233



DIVIDER PAGE

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A002.d
Lab Smp Id: 9716422001 Client Smp ID: FITG1SSD01
Inj Date : 08-JAN-2008 18:35
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422001
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	33.041	32.400	0.641	7102	66.2899	0.659601
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.283	38.233	0.050	62562	496.975	4.94502

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0235

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422001
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD01
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.94502	99.39	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422001
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

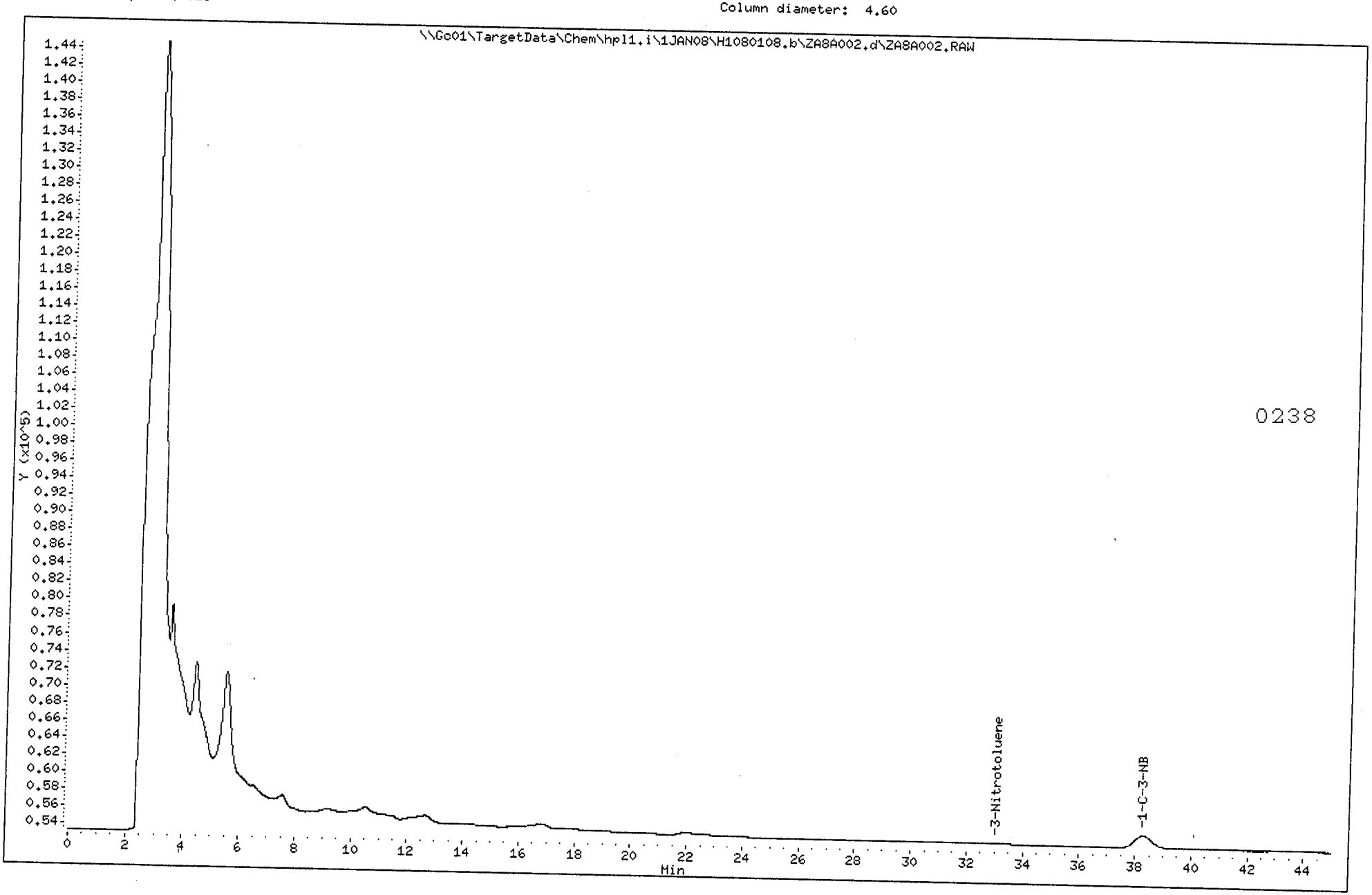
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD01
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
479-45-8	Tetryl	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.659601	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.94502	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A002.d
Date : 08-JAN-2008 18:35
Client ID: FITG1SSD01
Sample Info: 9716422001
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0238

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B002.d
Lab Smp Id: 9716422001 Client Smp ID: FITG1SSD01
Inj Date : 08-JAN-2008 18:35
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422001
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.275	38.241	0.034	132003	507.449	5.04924

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422001
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD01
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	5.04924	101.49	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422001
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

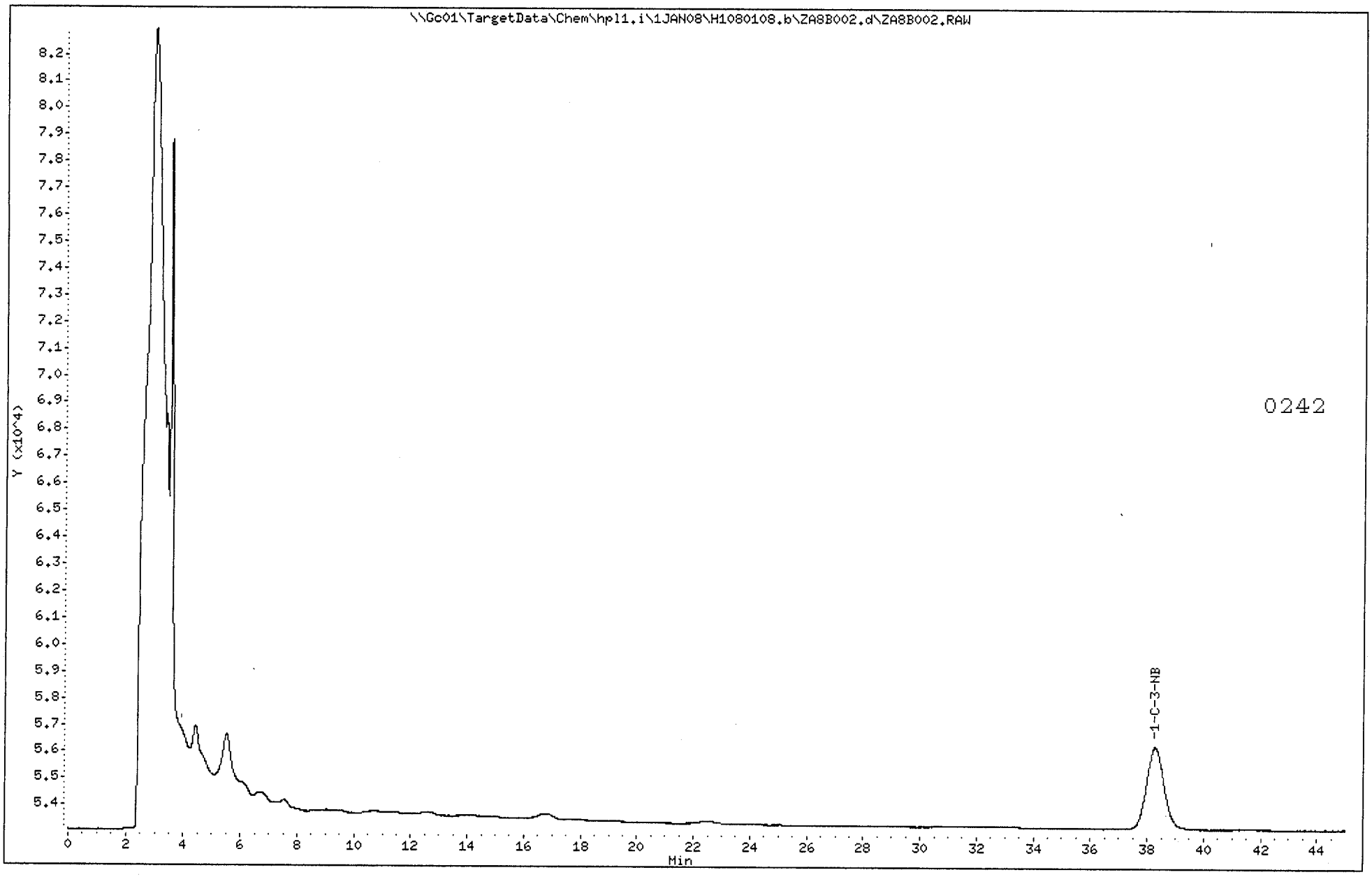
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD01
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
479-45-8	Tetryl	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
121-73-3	1-C-3-NB	5.04924	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B002.d
Date : 08-JAN-2008 18:35
Client ID: FITG1SSD01
Sample Info: 9716422001
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0242

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A003.d
Lab Smp Id: 9716422003
Client Smp ID: FITG1SSD03
Inj Date : 08-JAN-2008 19:26
Operator : ELC
Inst ID: hpl1.i
Smp Info : 9716422003
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i
Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55
Cal File: ZKEA008.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	32.741	32.400	0.341	31454	293.591	2.86430
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	Compound Not Detected.					
	38.300	38.233	0.067	61211	486.243	4.74383

DNC
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0243

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422003
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD03
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.74383	97.25	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422003
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

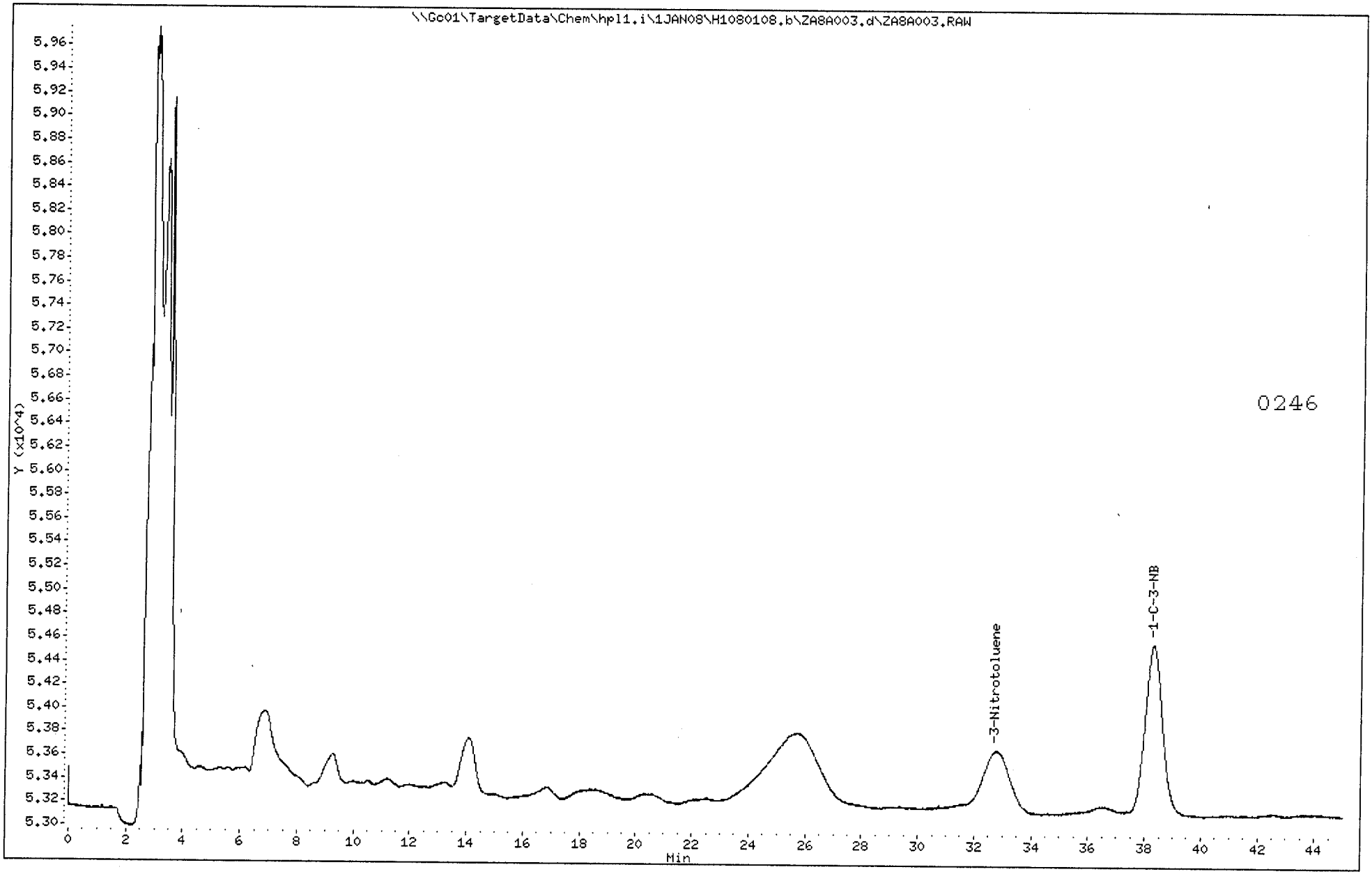
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD03
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
479-45-8	Tetryl	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	2.86430	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.243902	U
121-73-3	1-C-3-NB	4.74383	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A003.d
Date : 08-JAN-2008 19:26
Client ID: FITG1SSD03
Sample Info: 9716422003
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0246

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B003.d
Lab Smp Id: 9716422003 Client Smp ID: FITG1SSD03
Inj Date : 08-JAN-2008 19:26
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422003
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.050	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	32.758	32.800	-0.042	38885	253.520	2.47336
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.283	38.241	0.042	129753	498.800	4.86634

0247

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422003
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD03
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.87805	4.86634	99.76	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422003
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

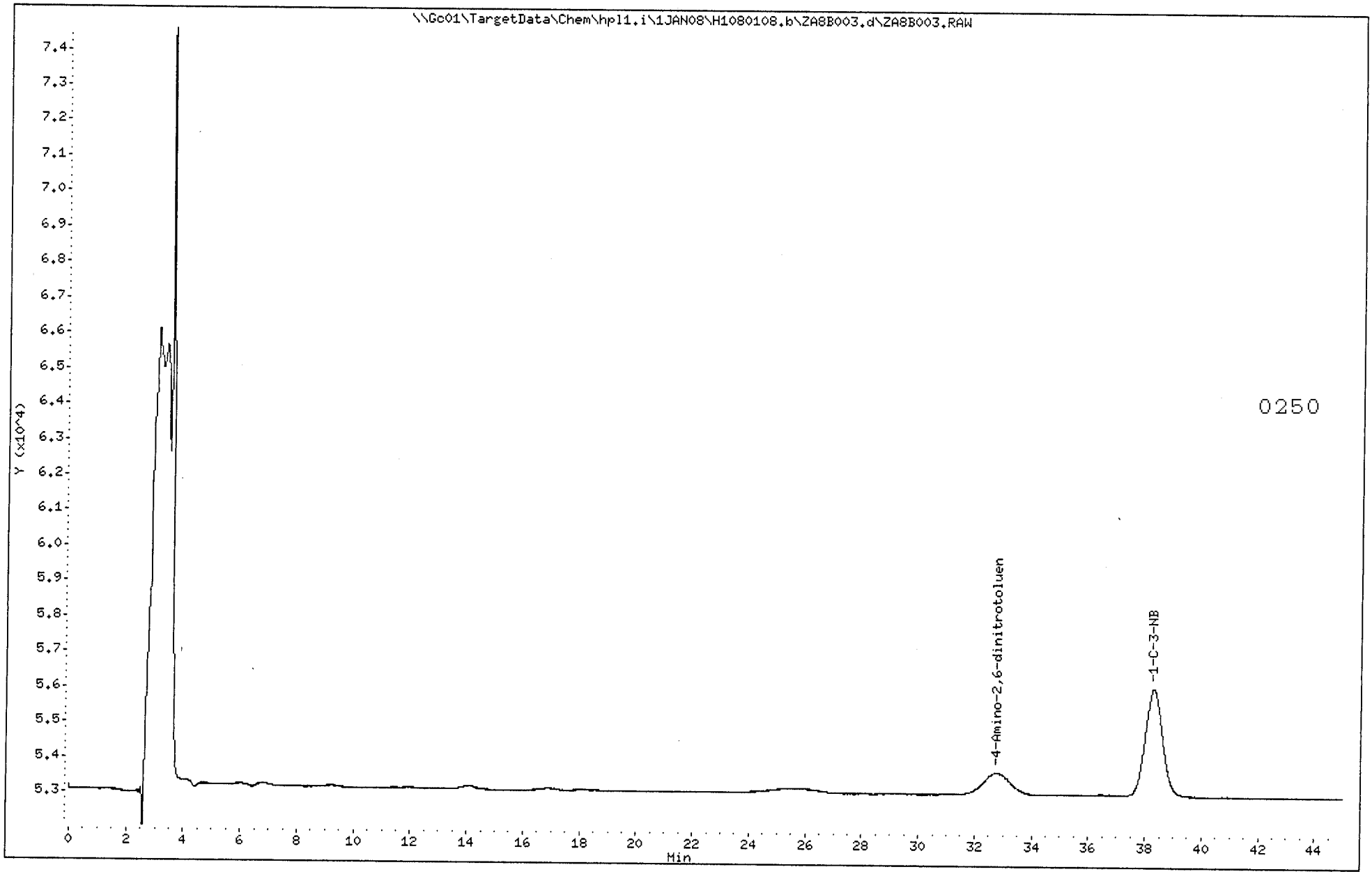
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD03
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.243902	U
121-82-4	RDX	0.243902	U
99-35-4	1,3,5-Trinitrobenzene	0.243902	U
99-65-0	1,3-Dinitrobenzene	0.243902	U
98-95-3	Nitrobenzene	0.243902	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.243902	U
479-45-8	Tetryl	0.243902	U
606-20-2	2,6-Dinitrotoluene	0.243902	U
121-14-2	2,4-Dinitrotoluene	0.243902	U
88-72-2	2-Nitrotoluene	0.243902	U
99-99-0	4-Nitrotoluene	0.243902	U
99-08-1	3-Nitrotoluene	0.243902	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.243902	U
35572-78-2	2-Amino-4,6-dinitrotoluene	2.47336	
		0.243902	U
121-73-3	1-C-3-NB	4.86634	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B003.d
Date : 08-JAN-2008 19:26
Client ID: FITG1SSD03
Sample Info: 9716422003
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A004.d
Lab Smp Id: 9716422005 Client Smp ID: FITG1SSC05
Inj Date : 08-JAN-2008 20:17
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422005
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	32.925	32.400	0.525	6788	63.3590	0.615136
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.300	38.233	0.067	59218	470.411	4.56710

Data File: ZA8A004.d
Report Date: 09-Jan-2008 10:09

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422005
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC05
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	4.56710	94.08	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422005
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

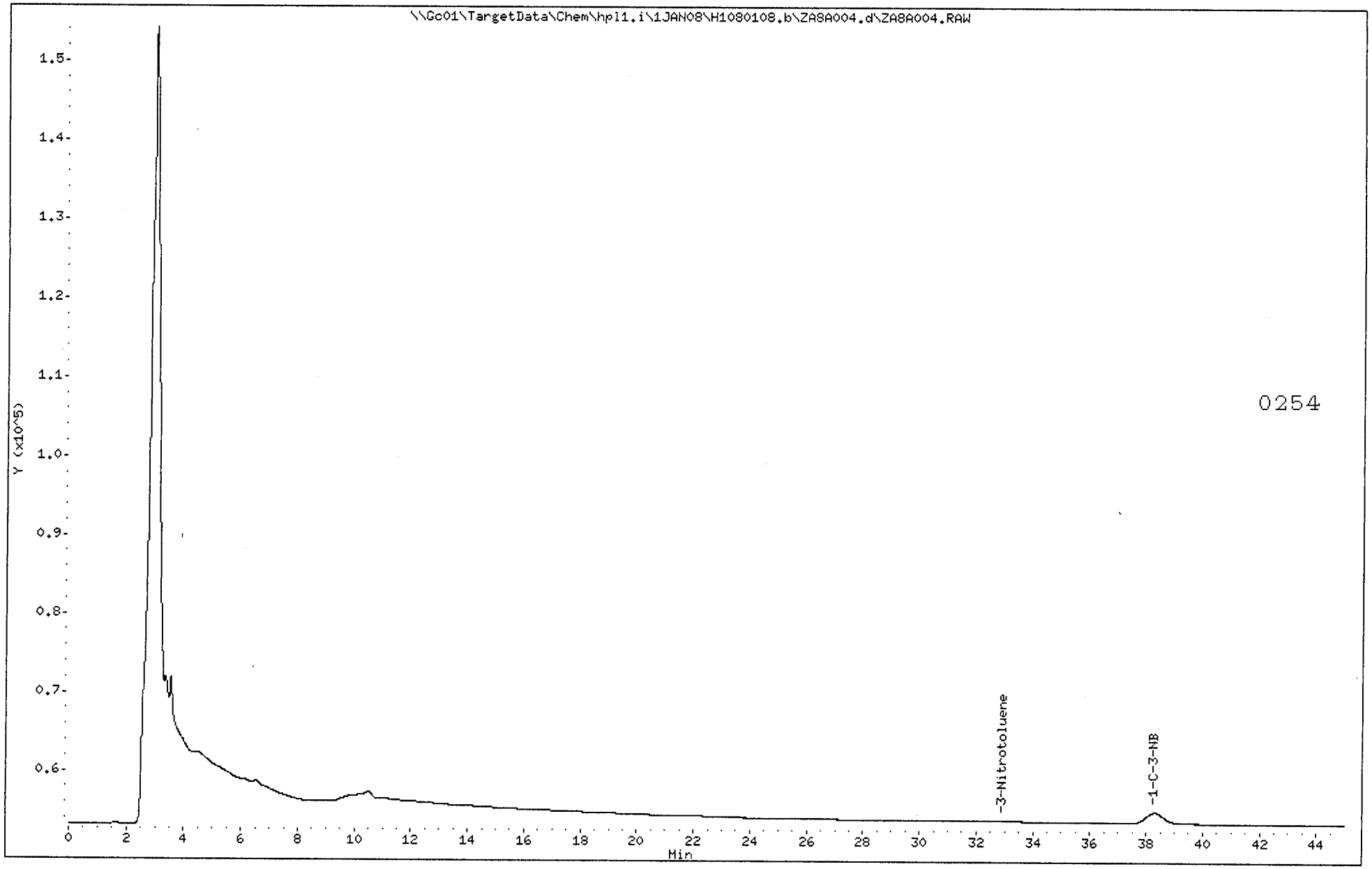
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC05
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
479-45-8	Tetryl	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.615136	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
121-73-3	1-C-3-NB	4.56710	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A004.d
Date : 08-JAN-2008 20:17
Client ID: FITG1SSC05
Sample Info: 9716422005
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0254

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B004.d
Lab Smp Id: 9716422005 Client Smp ID: FITG1SSC05
Inj Date : 08-JAN-2008 20:17
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422005
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.300	38.241	0.059	125159	481.139	4.67125

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422005
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC05
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	4.67125	96.23	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422005
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

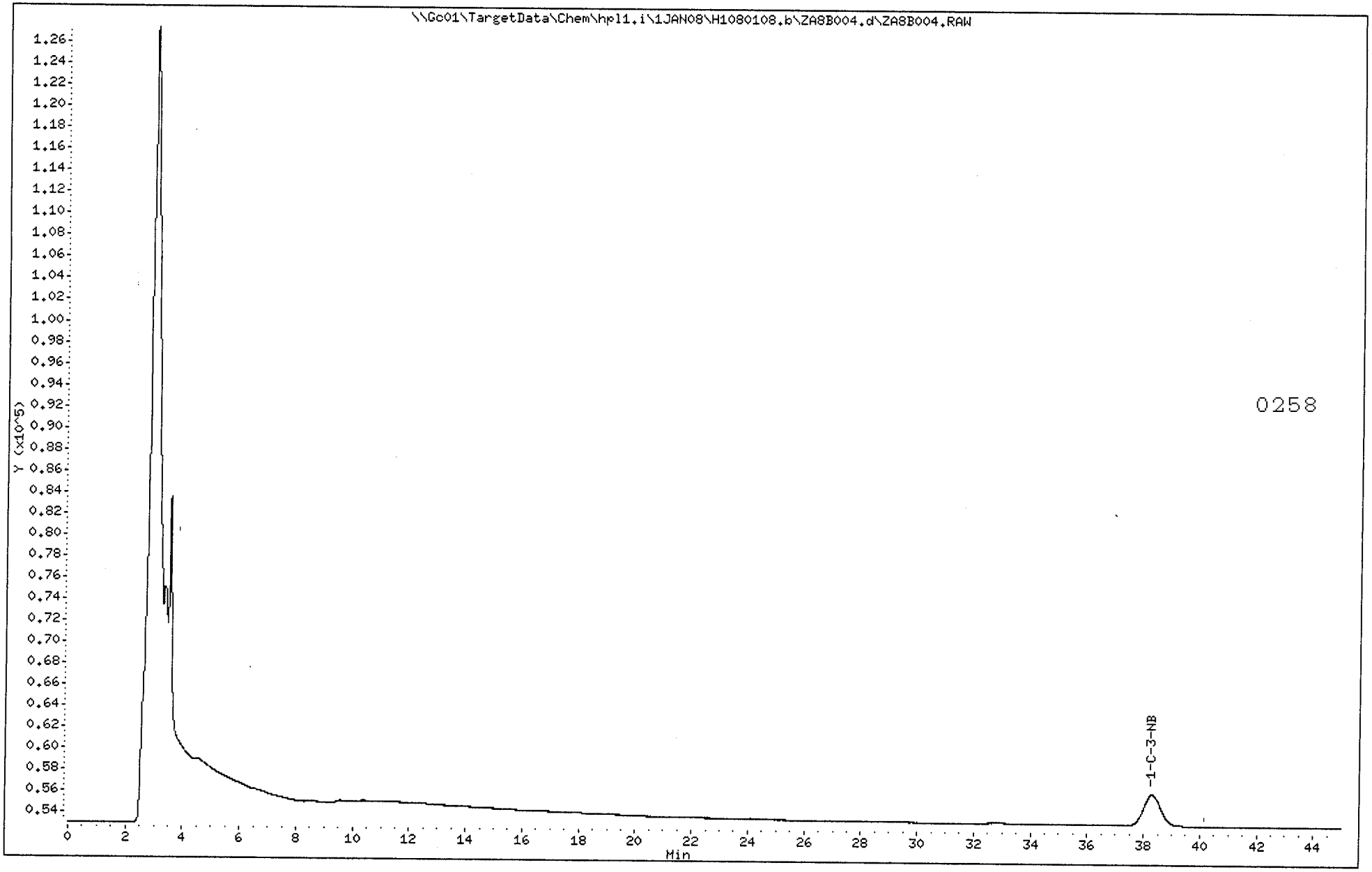
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC05
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
479-45-8	Tetryl	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
121-73-3	1-C-3-NB	4.67125	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B004.d
Date : 08-JAN-2008 20:17
Client ID: FITG1SSC05
Sample Info: 9716422005
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0258

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A005.d
Lab Smp Id: 9716422006 Client Smp ID: FITG1SSD06
Inj Date : 08-JAN-2008 21:07
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422006
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.308	38.233	0.075	60053	477.044	4.74670

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422006
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD06
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.74670	95.41	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422006
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

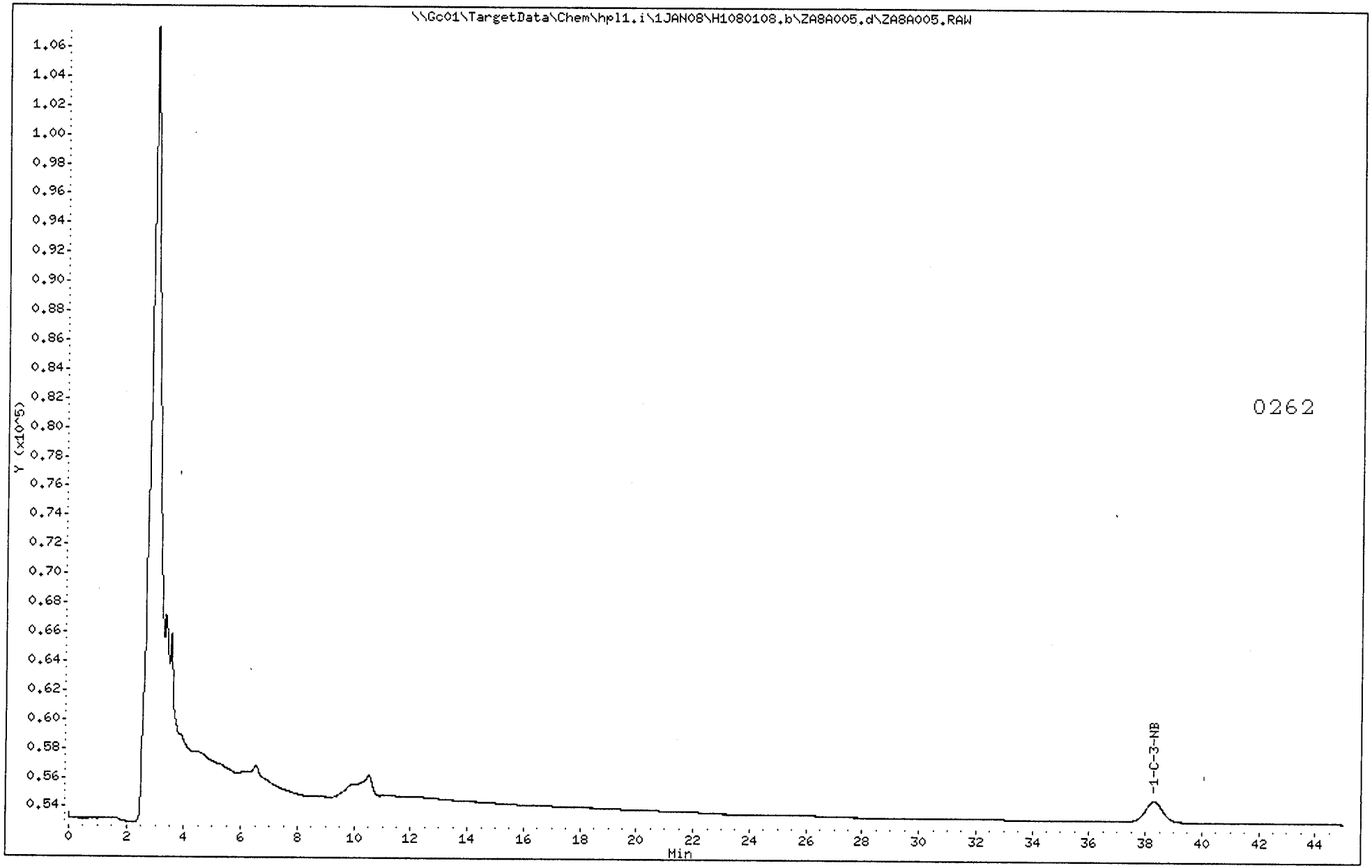
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD06
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
479-45-8	Tetryl	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.74670	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A005.d
Date : 08-JAN-2008 21:07
Client ID: FITG1SSD06
Sample Info: 9716422006
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B005.d
Lab Smp Id: 9716422006 Client Smp ID: FITG1SSD06
Inj Date : 08-JAN-2008 21:07
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422006
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.308	38.241	0.067	127001	488.220	4.85791

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422006
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSD06
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.85791	97.64	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422006
Sample Location:
Sample Date: 18-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

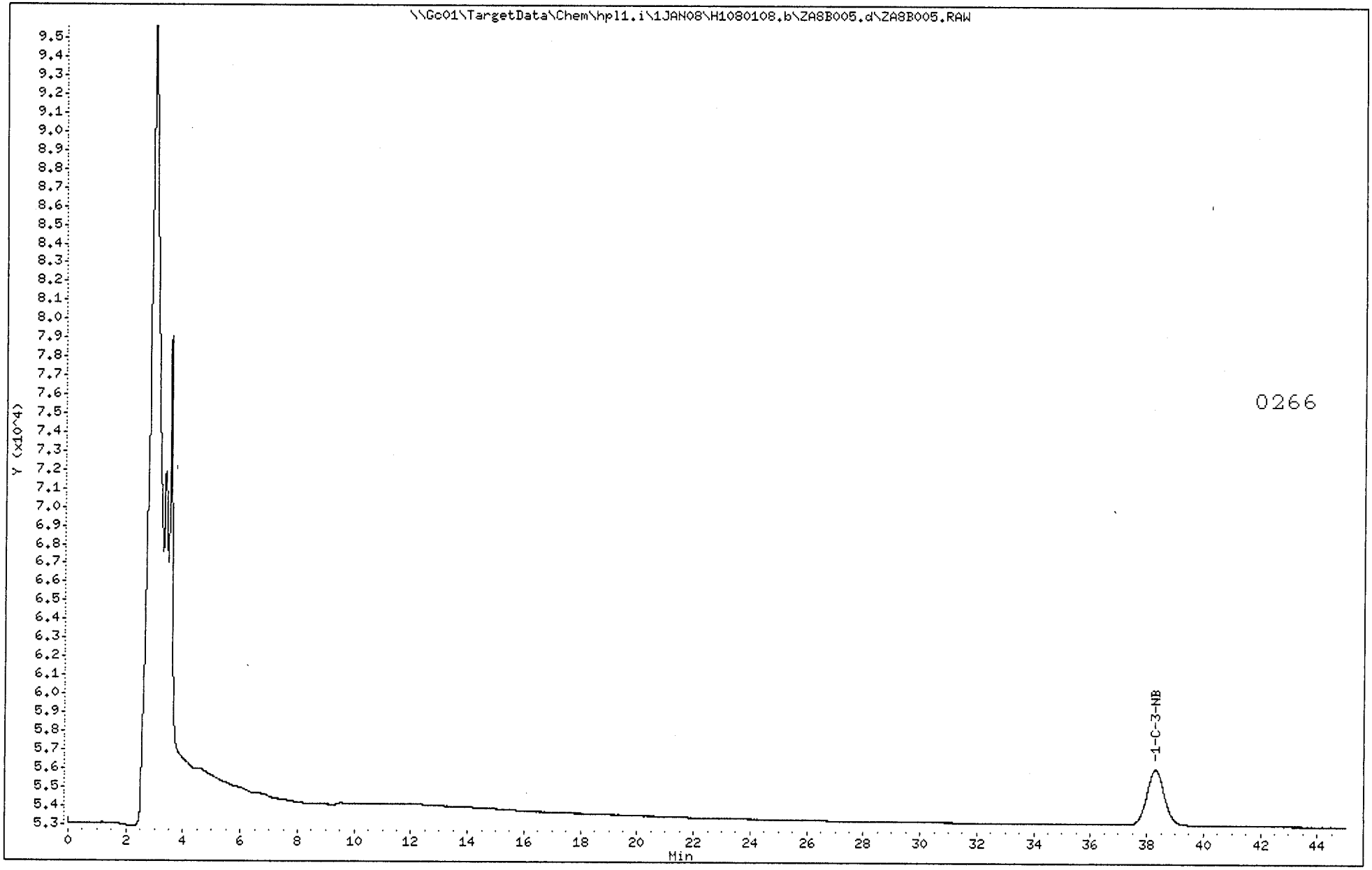
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD06
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.248756	U
99-35-4	1,3,5-Trinitrobenzene	0.248756	U
99-65-0	1,3-Dinitrobenzene	0.248756	U
98-95-3	Nitrobenzene	0.248756	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.248756	U
479-45-8	Tetryl	0.248756	U
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.248756	U
88-72-2	2-Nitrotoluene	0.248756	U
99-99-0	4-Nitrotoluene	0.248756	U
99-08-1	3-Nitrotoluene	0.248756	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.248756	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.248756	U
121-73-3	1-C-3-NB	4.85791	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B005.d
Date : 08-JAN-2008 21:07
Client ID: FITG1SSD06
Sample Info: 9716422006
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A006.d
Lab Smp Id: 9716422008 Client Smp ID: FITG1SSC08
Inj Date : 08-JAN-2008 21:58
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422008
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.375	38.233	0.142	27423	217.840	2.07467(R)

0267

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422008
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC08
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.76190	2.07467	43.57*	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422008
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

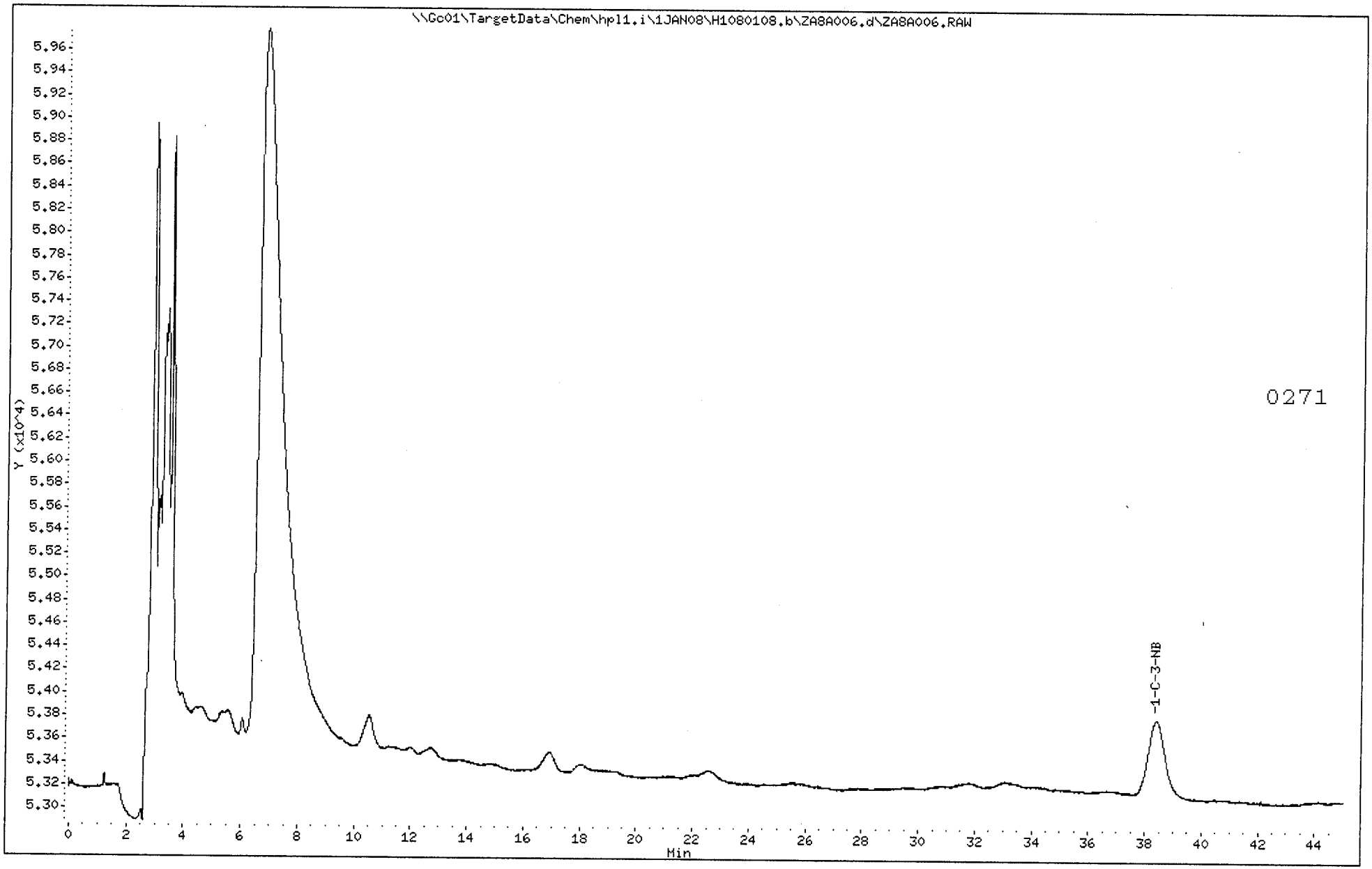
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC08
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.238095	U
121-82-4	RDX	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
479-45-8	Tetryl	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
121-73-3	1-C-3-NB	2.07467	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A006.d
Date : 08-JAN-2008 21:58
Client ID: FITG1SSC08
Sample Info: 9716422008
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0271

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B006.d
Lab Smp Id: 9716422008 Client Smp ID: FITG1SSC08
Inj Date : 08-JAN-2008 21:58
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422008
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.12 Compound Sublist: all.sub
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.375	38.241	0.134	56367	216.687	2.06369(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Sample Matrix: SOLID
Lab Smp Id: 9716422008
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Fraction: SV
Client Smp ID: FITG1SSC08
Operator: ELC
SampleType: SAMPLE
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.76190	2.06369	43.34*	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: URS Corporation -Li
Lab Smp Id: 9716422008
Sample Location:
Sample Date: 19-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

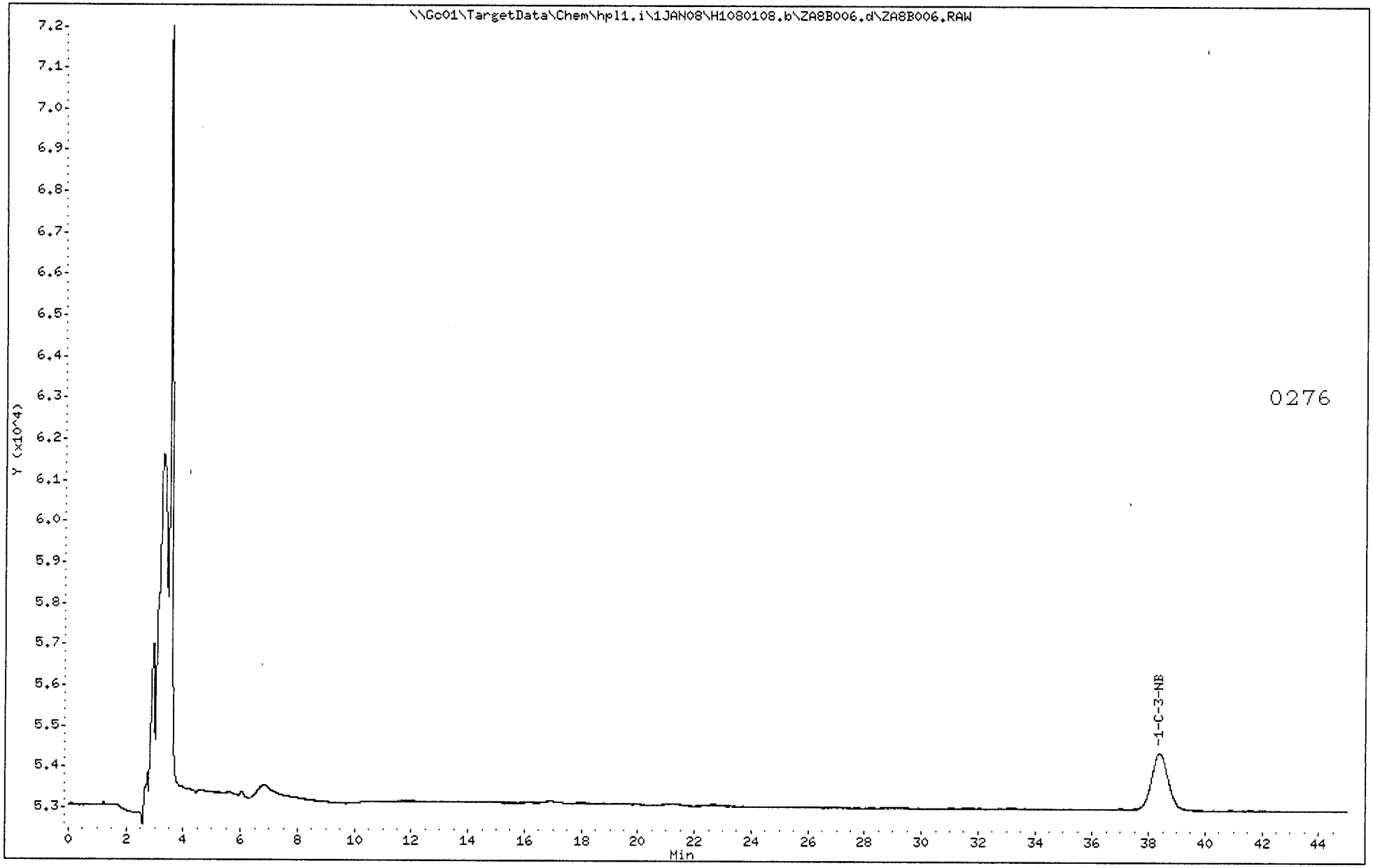
Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSC08
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.238095	U
121-82-4	RDX	0.238095	U
99-35-4	1,3,5-Trinitrobenzene	0.238095	U
99-65-0	1,3-Dinitrobenzene	0.238095	U
98-95-3	Nitrobenzene	0.238095	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.238095	U
479-45-8	Tetryl	0.238095	U
606-20-2	2,6-Dinitrotoluene	0.238095	U
121-14-2	2,4-Dinitrotoluene	0.238095	U
88-72-2	2-Nitrotoluene	0.238095	U
99-99-0	4-Nitrotoluene	0.238095	U
99-08-1	3-Nitrotoluene	0.238095	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.238095	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.238095	U
121-73-3	1-C-3-NB	2.06369	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B006.d
Date : 08-JAN-2008 21:58
Client ID: FITG1SSC08
Sample Info: 9716422008
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A007.d
Lab Smp Id: 9716422010 Client Smp ID: FITG1SSD10
Inj Date : 08-JAN-2008 22:49
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422010
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.316	38.233	0.083	66196	525.842	5.10526

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422010
Client Smp ID: FITG1SSD10
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	5.10526	105.17	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

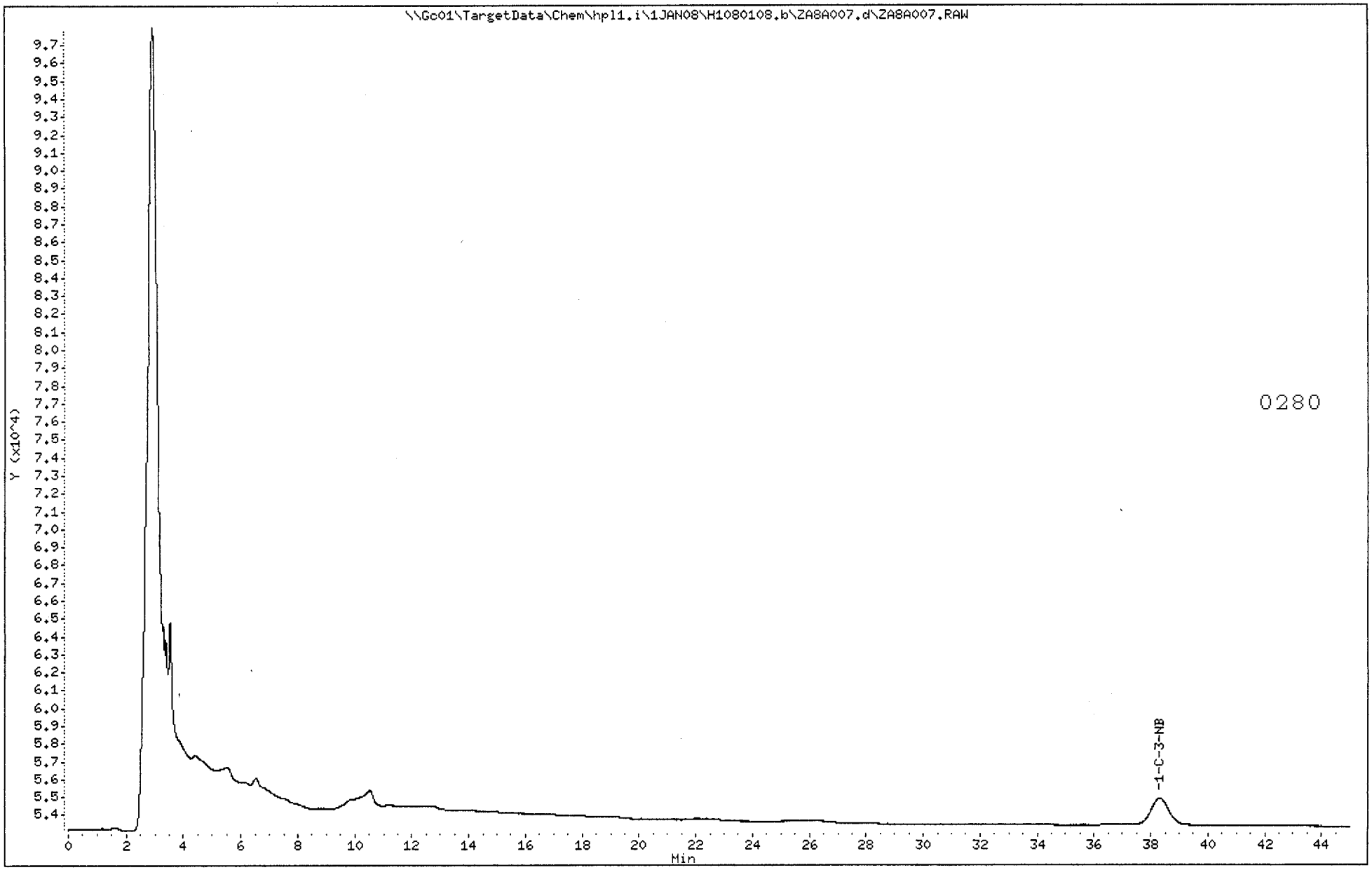
Client Name: URS Corporation -Li
Lab Smp Id: 9716422010
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD10
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
479-45-8	Tetryl	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
121-73-3	1-C-3-NB	5.10526	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A007.d
Date : 08-JAN-2008 22:49
Client ID: FITG1SSD10
Sample Info: 9716422010
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B007.d
Lab Smp Id: 9716422010 Client Smp ID: FITG1SSD10
Inj Date : 08-JAN-2008 22:49
Operator : ELC Inst ID: hpl1.i
Smp Info : 9716422010
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.060	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
7 Tetryl	Compound Not Detected.					
8 2,6-Dinitrotoluene	Compound Not Detected.					
9 2,4-Dinitrotoluene	Compound Not Detected.					
10 2-Nitrotoluene	Compound Not Detected.					
11 4-Nitrotoluene	Compound Not Detected.					
12 3-Nitrotoluene	Compound Not Detected.					
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	38.308	38.241	0.067	135936	522.568	5.07348

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: URS Corporation -Li
Client SDG: UUL001|USACE MMRP S
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 9716422010
Client Smp ID: FITG1SSD10
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: SAMPLE
SpikeList File: DoD_W.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.85437	5.07348	104.51	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

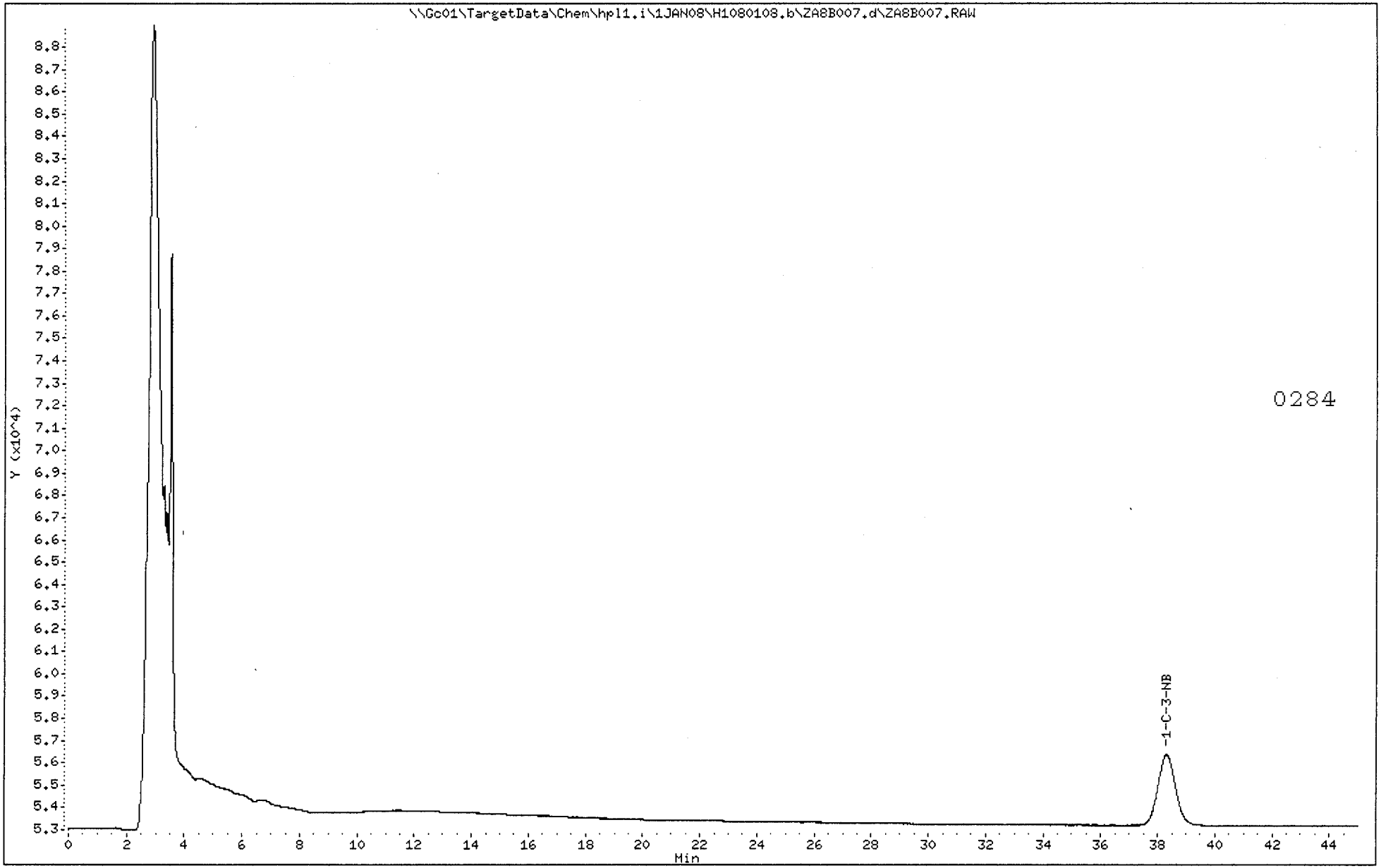
Client Name: URS Corporation -Li
Lab Smp Id: 9716422010
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: UUL001|USACE MMRP S
Client Smp ID: FITG1SSD10
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.242718	U
121-82-4	RDX	0.242718	U
99-35-4	1,3,5-Trinitrobenzene	0.242718	U
99-65-0	1,3-Dinitrobenzene	0.242718	U
98-95-3	Nitrobenzene	0.242718	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.242718	U
479-45-8	Tetryl	0.242718	U
606-20-2	2,6-Dinitrotoluene	0.242718	U
121-14-2	2,4-Dinitrotoluene	0.242718	U
88-72-2	2-Nitrotoluene	0.242718	U
99-99-0	4-Nitrotoluene	0.242718	U
99-08-1	3-Nitrotoluene	0.242718	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.242718	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.242718	U
121-73-3	1-C-3-NB	5.07348	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B007.d
Date : 08-JAN-2008 22:49
Client ID: FITG1SSD10
Sample Info: 9716422010
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Explosives by 8330A Standards Raw Data

Initial Calibrations

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A002.d
Lab Smp Id: LEVEL1
Inj Date : 05-NOV-2007 11:02
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL1
Misc Info : 004
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.816	4.966	-0.150	8104	20.0000	21.0496(a)
2 RDX	7.616	7.716	-0.100	5558	20.0000	20.4669(a)
3 1,3,5-Trinitrobenzene	10.925	11.025	-0.100	14340	20.0000	20.3058(a)
4 1,3-Dinitrobenzene	14.041	14.116	-0.075	11740	20.0000	20.5910(a)
5 Nitrobenzene	14.941	15.008	-0.067	3132	20.0000	21.4424(a)
6 Tetryl	15.683	15.783	-0.100	9250	20.0000	20.0566(a)
7 2,4,6-Trinitrotoluene(TNT)	18.458	18.566	-0.108	9933	20.0000	20.4374(a)
8 4-Amino-2,6-dinitrotoluene	20.075	20.116	-0.041	12049	20.0000	19.9223(a)
9 2-Amino-4,6-dinitrotoluene	21.308	21.350	-0.042	10412	20.0000	19.8865(a)
10 2,6-Dinitrotoluene	22.400	22.516	-0.116	6395	20.0000	20.4626(a)
11 2,4-Dinitrotoluene	23.483	23.591	-0.108	7844	20.0000	20.1740(a)
12 2-Nitrotoluene	25.691	25.691	0.000	1633	20.0000	13.9679(a)
13 4-Nitrotoluene	28.100	28.091	0.009	1381	20.0000	17.6915(a)
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL1
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 004

Client SDG: H1071105.b

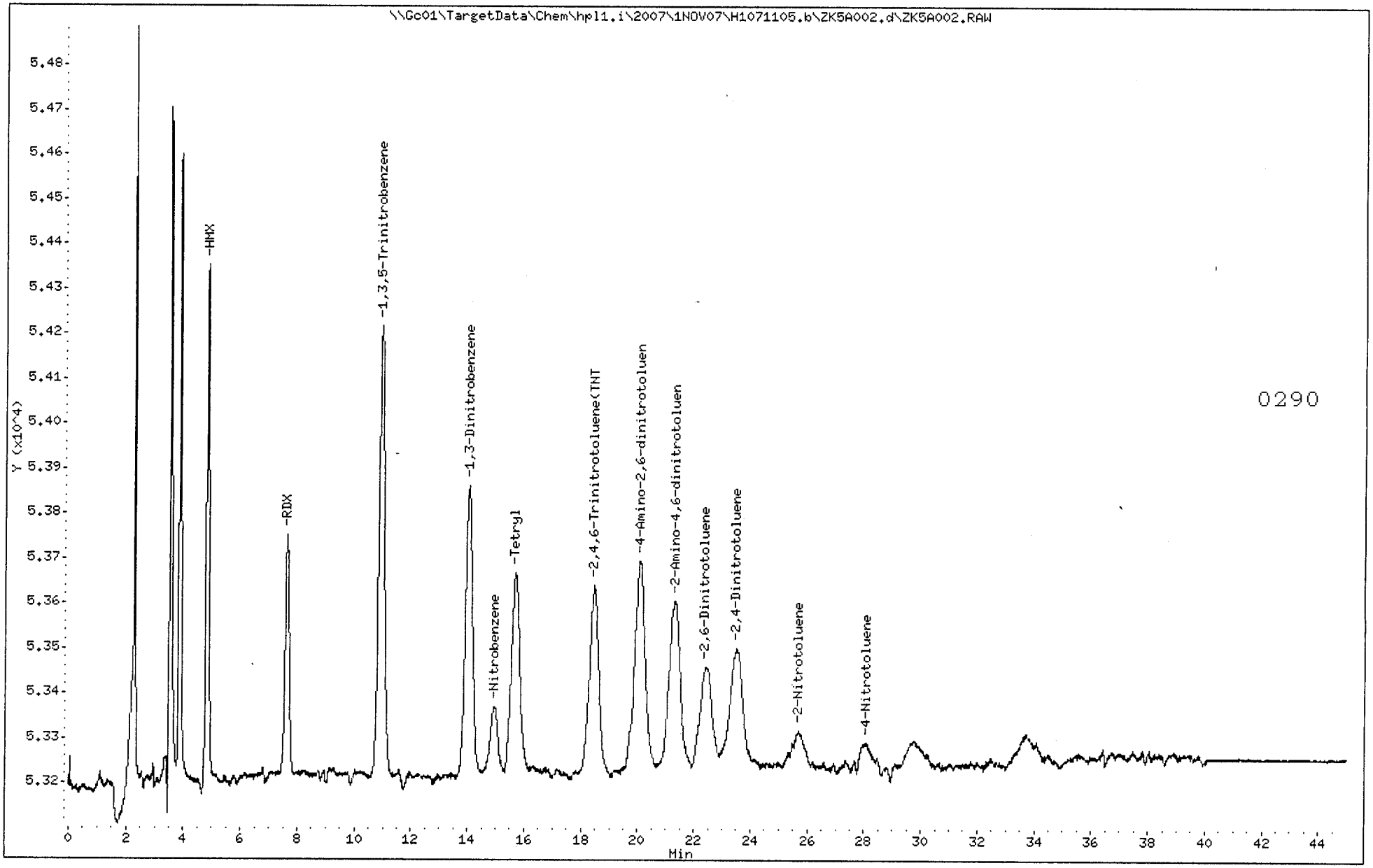
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	21.0496	J
121-82-4	RDX	20.4669	J
99-35-4	1,3,5-Trinitrobenzene	20.3058	J
99-65-0	1,3-Dinitrobenzene	20.5910	J
98-95-3	Nitrobenzene	21.4424	J
479-45-8	Tetryl	20.0566	J
118-96-7	2,4,6-Trinitrotoluene(TNT)	20.4374	J
1946-51-0	4-Amino-2,6-dinitrotoluene	19.9223	J
35572-78-2	2-Amino-4,6-dinitrotoluene	19.8865	J
606-20-2	2,6-Dinitrotoluene	20.4626	J
121-14-2	2,4-Dinitrotoluene	20.1740	J
88-72-2	2-Nitrotoluene	13.9679	J
99-99-0	4-Nitrotoluene	17.6915	J
99-08-1	3-Nitrotoluene	25.0000	U
121-73-3	1-C-3-NB	0.000000	U

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A002.d
Date : 05-NOV-2007 11:02
Client ID:
Sample Info: LEVEL1
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B002.d
Lab Smp Id: LEVEL1
Inj Date : 05-NOV-2007 11:02
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL1
Misc Info : 004
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.816	4.966	-0.150	1941	20.0000	36.7317
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	10.908	11.033	-0.125	5378	20.0000	29.2406
4 1,3-Dinitrobenzene	14.016	14.116	-0.100	6844	20.0000	21.0241(a)
5 Nitrobenzene	14.933	14.991	-0.058	7777	20.0000	20.5560(a)
6 Tetryl	15.700	15.775	-0.075	2904	20.0000	19.2073(a)
7 2,4,6-Trinitrotoluene(TNT)	18.483	18.558	-0.075	6117	20.0000	24.8383(a)
8 4-Amino-2,6-dinitrotoluene	20.116	20.116	0.000	3047	20.0000	20.1196(a)
9 2-Amino-4,6-dinitrotoluene	21.283	21.341	-0.058	6914	20.0000	23.2262(a)
10 2,6-Dinitrotoluene	22.508	22.525	-0.017	3632	20.0000	24.2491(a)
11 2,4-Dinitrotoluene	23.516	23.591	-0.075	8066	20.0000	21.3858(a)
12 2-Nitrotoluene	25.658	25.708	-0.050	4572	20.0000	19.2987(a)
13 4-Nitrotoluene	28.008	28.083	-0.075	7437	20.0000	24.7257(a)
14 3-Nitrotoluene	29.783	29.850	-0.067	9035	20.0000	27.1446
$ 15 1-C-3-NB	33.683	33.883	-0.200	7319	20.0000	24.5387

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL1
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 004

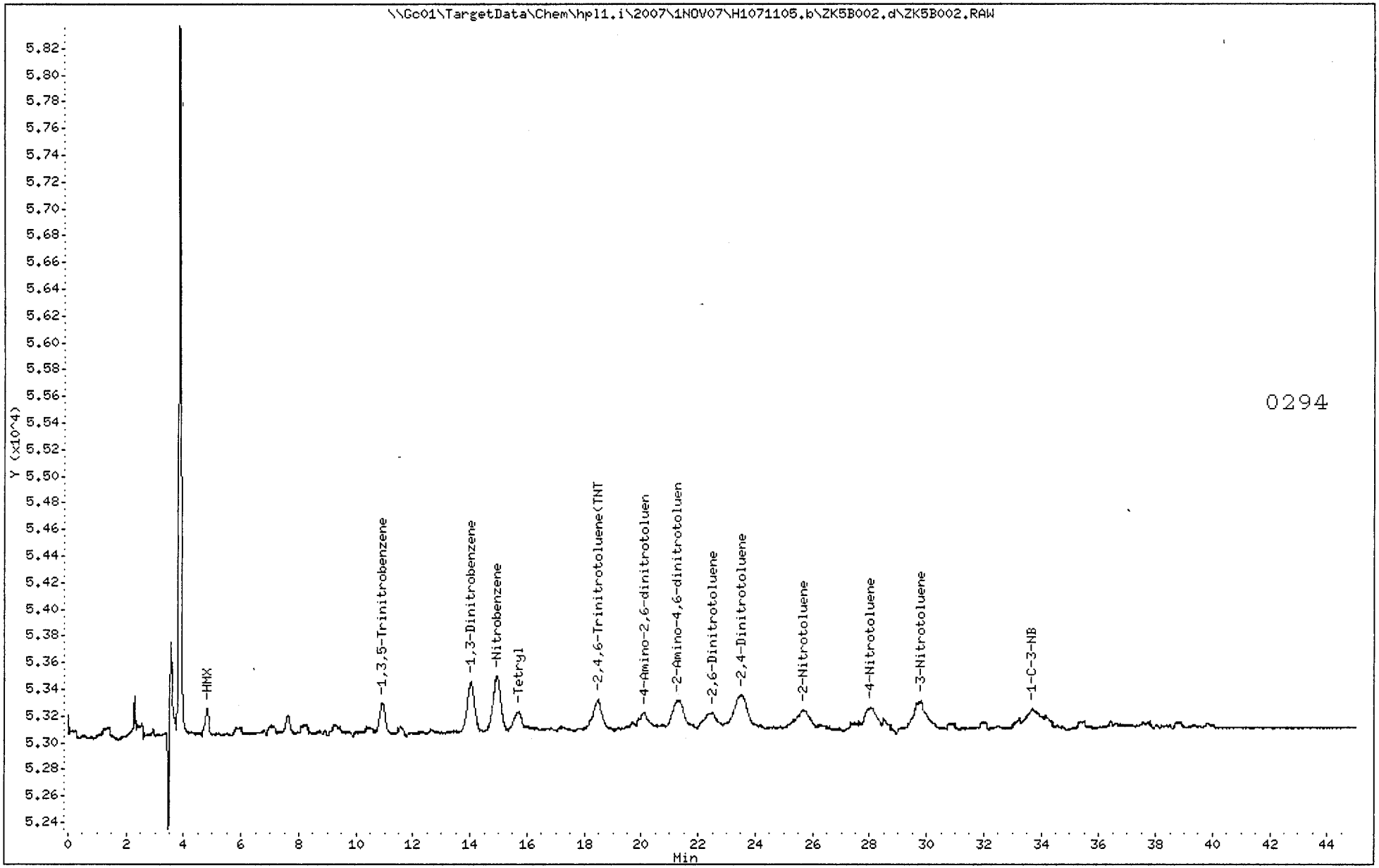
Client SDG: H1071105.b

Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	36.7317	
121-82-4	RDX	25.0000	U
99-35-4	1,3,5-Trinitrobenzene	29.2406	
99-65-0	1,3-Dinitrobenzene	21.0241	J
98-95-3	Nitrobenzene	20.5560	J
479-45-8	Tetryl	19.2073	J
118-96-7	2,4,6-Trinitrotoluene(TNT)	24.8383	J
1946-51-0	4-Amino-2,6-dinitrotoluene	20.1196	J
35572-78-2	2-Amino-4,6-dinitrotoluene	23.2262	J
606-20-2	2,6-Dinitrotoluene	24.2491	J
121-14-2	2,4-Dinitrotoluene	21.3858	J
88-72-2	2-Nitrotoluene	19.2987	J
99-99-0	4-Nitrotoluene	24.7257	J
99-08-1	3-Nitrotoluene	27.1446	
121-73-3	1-C-3-NB	24.5387	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B002.d
Date : 05-NOV-2007 11:02
Client ID:
Sample Info: LEVEL1
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0294

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A003.d
Lab Smp Id: LEVEL2
Inj Date : 05-NOV-2007 11:48
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL2
Misc Info : 005
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.825	4.966	-0.141	19085	50.0000	49.5720
2 RDX	7.633	7.716	-0.083	13431	50.0000	49.4586
3 1,3,5-Trinitrobenzene	10.933	11.025	-0.092	34960	50.0000	49.5041
4 1,3-Dinitrobenzene	14.041	14.116	-0.075	28193	50.0000	49.4483
5 Nitrobenzene	14.941	15.008	-0.067	7221	50.0000	49.4366
6 Tetryl	15.700	15.783	-0.083	23716	50.0000	51.4228
7 2,4,6-Trinitrotoluene(TNT)	18.441	18.566	-0.125	24457	50.0000	50.3208
8 4-Amino-2,6-dinitrotoluene	20.066	20.116	-0.050	31151	50.0000	51.5063
9 2-Amino-4,6-dinitrotoluene	21.300	21.350	-0.050	26552	50.0000	50.7132
10 2,6-Dinitrotoluene	22.433	22.516	-0.083	15889	50.0000	50.8412
11 2,4-Dinitrotoluene	23.516	23.591	-0.075	19679	50.0000	50.6123
12 2-Nitrotoluene	25.625	25.691	-0.066	6236	50.0000	53.3398
13 4-Nitrotoluene	28.050	28.091	-0.041	3547	50.0000	45.4394
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.783	33.891	-0.108	4032	50.0000	34.2356

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL2
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 005

Client SDG: H1071105.b

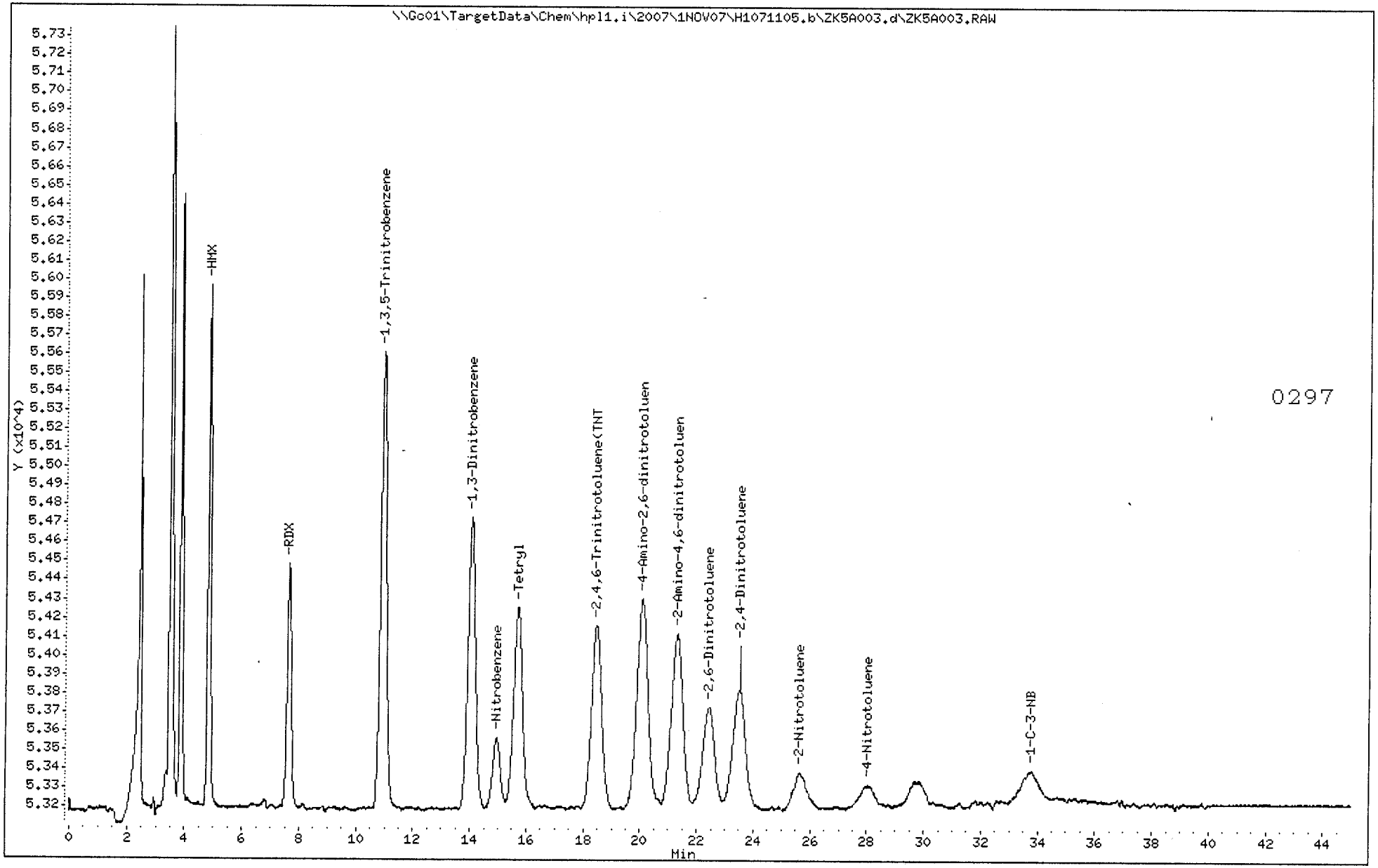
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	49.5720	
121-82-4	RDX	49.4586	
99-35-4	1,3,5-Trinitrobenzene	49.5041	
99-65-0	1,3-Dinitrobenzene	49.4483	
98-95-3	Nitrobenzene	49.4366	
479-45-8	Tetryl	51.4228	
118-96-7	2,4,6-Trinitrotoluene(TNT)	50.3208	
1946-51-0	4-Amino-2,6-dinitrotoluene	51.5063	
35572-78-2	2-Amino-4,6-dinitrotoluene	50.7132	
606-20-2	2,6-Dinitrotoluene	50.8412	
121-14-2	2,4-Dinitrotoluene	50.6123	
88-72-2	2-Nitrotoluene	53.3398	
99-99-0	4-Nitrotoluene	45.4394	
99-08-1	3-Nitrotoluene	25.0000	U
121-73-3	1-C-3-NB	34.2356	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A003.d
Date : 05-NOV-2007 11:48
Client ID:
Sample Info: LEVEL2
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B003.d
Lab Smp Id: LEVEL2
Inj Date : 05-NOV-2007 11:48
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL2
Misc Info : 005
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.825	4.966	-0.141	2999	50.0000	56.7535
2 RDX	7.616	7.708	-0.092	3979	50.0000	52.8446
3 1,3,5-Trinitrobenzene	10.941	11.033	-0.092	9597	50.0000	52.1797
4 1,3-Dinitrobenzene	14.050	14.116	-0.066	16899	50.0000	51.9121
5 Nitrobenzene	14.933	14.991	-0.058	19502	50.0000	51.5473
6 Tetryl	15.708	15.775	-0.067	8855	50.0000	58.5676
7 2,4,6-Trinitrotoluene(TNT)	18.433	18.558	-0.125	12702	50.0000	51.5768
8 4-Amino-2,6-dinitrotoluene	20.025	20.116	-0.091	8013	50.0000	52.9104
9 2-Amino-4,6-dinitrotoluene	21.300	21.341	-0.041	14297	50.0000	48.0278
10 2,6-Dinitrotoluene	22.408	22.525	-0.117	6781	50.0000	45.2734
11 2,4-Dinitrotoluene	23.508	23.591	-0.083	18823	50.0000	49.9064
12 2-Nitrotoluene	25.633	25.708	-0.075	12434	50.0000	52.4846
13 4-Nitrotoluene	27.983	28.083	-0.100	15079	50.0000	50.1330
14 3-Nitrotoluene	29.825	29.850	-0.025	15317	50.0000	46.0181
$ 15 1-C-3-NB	33.733	33.883	-0.150	15748	50.0000	52.7990

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL2
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 005

Client SDG: H1071105.b

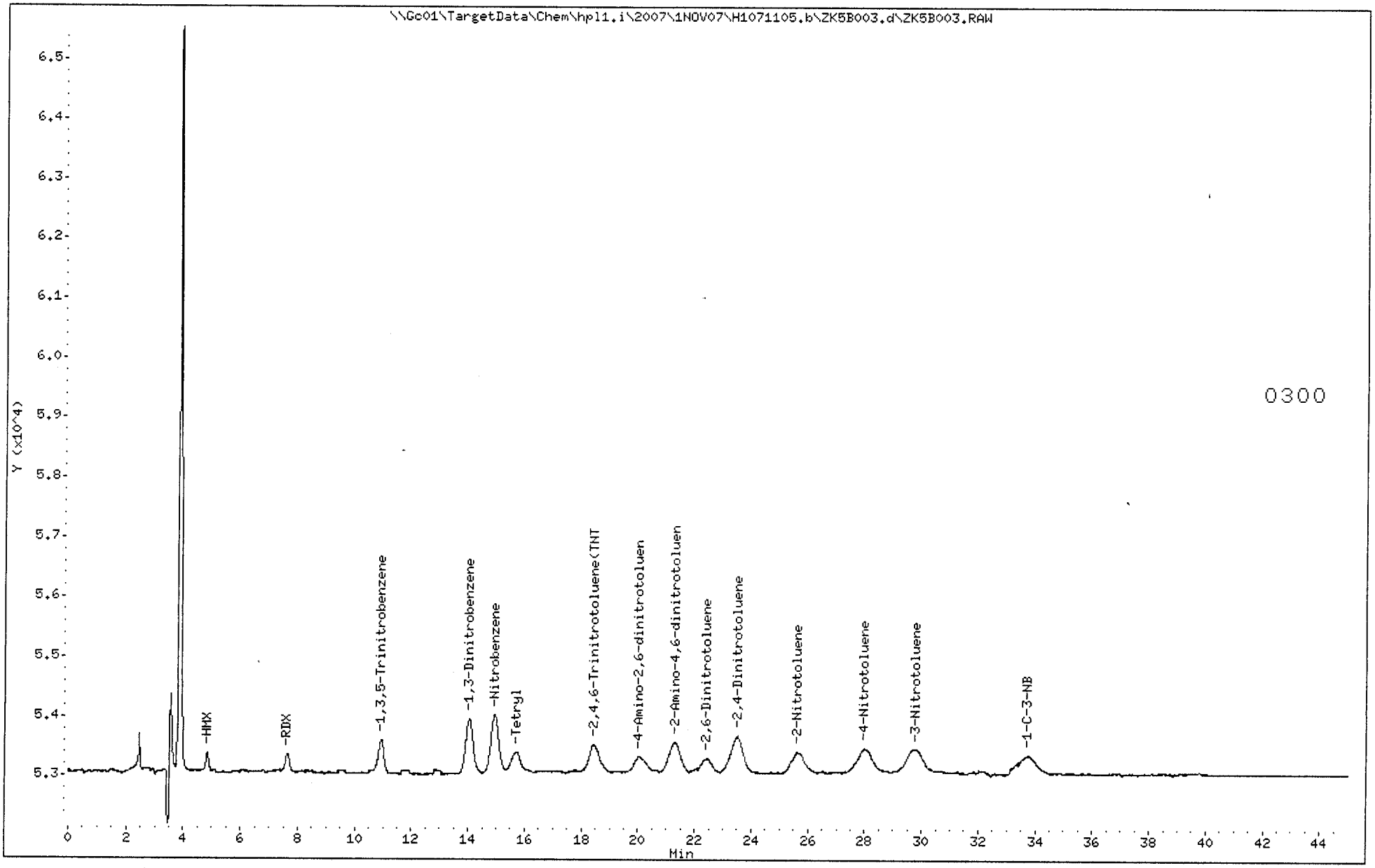
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	56.7535	
121-82-4	RDX	52.8446	
99-35-4	1,3,5-Trinitrobenzene	52.1797	
99-65-0	1,3-Dinitrobenzene	51.9121	
98-95-3	Nitrobenzene	51.5473	
479-45-8	Tetryl	58.5676	
118-96-7	2,4,6-Trinitrotoluene(TNT)	51.5768	
1946-51-0	4-Amino-2,6-dinitrotoluene	52.9104	
35572-78-2	2-Amino-4,6-dinitrotoluene	48.0278	
606-20-2	2,6-Dinitrotoluene	45.2734	
121-14-2	2,4-Dinitrotoluene	49.9064	
88-72-2	2-Nitrotoluene	52.4846	
99-99-0	4-Nitrotoluene	50.1330	
99-08-1	3-Nitrotoluene	46.0181	
121-73-3	1-C-3-NB	52.7990	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B003.d
Date : 05-NOV-2007 11:48
Client ID:
Sample Info: LEVEL2
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A004.d
Lab Smp Id: LEVEL3
Inj Date : 05-NOV-2007 12:34
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL3
Misc Info : 006
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.833	4.966	-0.133	38164	100.000	99.1285
2 RDX	7.633	7.716	-0.083	26972	100.000	99.3224
3 1,3,5-Trinitrobenzene	10.933	11.025	-0.092	70480	100.000	99.8012
4 1,3-Dinitrobenzene	14.033	14.116	-0.083	57061	100.000	100.080
5 Nitrobenzene	14.933	15.008	-0.075	15084	100.000	103.268
6 Tetryl	15.675	15.783	-0.108	46867	100.000	101.621
7 2,4,6-Trinitrotoluene(TNT)	18.450	18.566	-0.116	48464	100.000	99.7157
8 4-Amino-2,6-dinitrotoluene	20.041	20.116	-0.075	60671	100.000	100.316
9 2-Amino-4,6-dinitrotoluene	21.300	21.350	-0.050	52524	100.000	100.319
10 2,6-Dinitrotoluene	22.416	22.516	-0.100	30891	100.000	98.8443
11 2,4-Dinitrotoluene	23.483	23.591	-0.108	38728	100.000	99.6044
12 2-Nitrotoluene	25.666	25.691	-0.025	11762	100.000	100.607
13 4-Nitrotoluene	28.016	28.091	-0.075	8490	100.000	108.762
14 3-Nitrotoluene	29.725	29.900	-0.175	11104	100.000	105.827
$ 15 1-C-3-NB	33.725	33.891	-0.166	12973	100.000	110.153

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL3
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 006

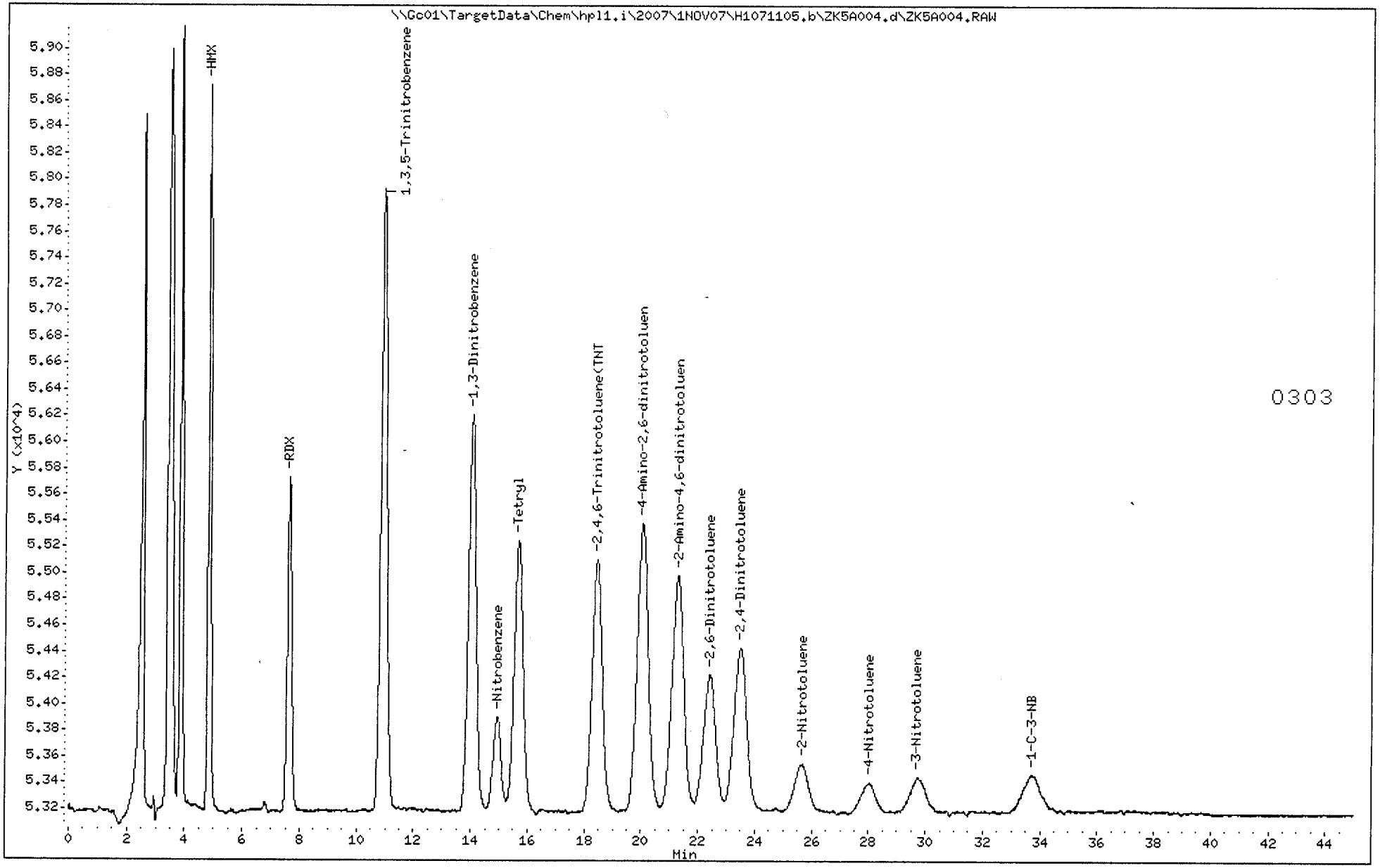
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	99.1285	
121-82-4	RDX	99.3224	
99-35-4	1,3,5-Trinitrobenzene	99.8012	
99-65-0	1,3-Dinitrobenzene	100.080	
98-95-3	Nitrobenzene	103.268	
479-45-8	Tetryl	101.621	
118-96-7	2,4,6-Trinitrotoluene(TNT)	99.7157	
1946-51-0	4-Amino-2,6-dinitrotoluene	100.316	
35572-78-2	2-Amino-4,6-dinitrotoluene	100.319	
606-20-2	2,6-Dinitrotoluene	98.8443	
121-14-2	2,4-Dinitrotoluene	99.6044	
88-72-2	2-Nitrotoluene	100.607	
99-99-0	4-Nitrotoluene	108.762	
99-08-1	3-Nitrotoluene	105.827	
121-73-3	1-C-3-NB	110.153	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A004.d
Date : 05-NOV-2007 12:34
Client ID:
Sample Info: LEVEL3
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B004.d
Lab Smp Id: LEVEL3
Inj Date : 05-NOV-2007 12:34
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL3
Misc Info : 006
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.833	4.966	-0.133	4351	100.000	82.3389
2 RDX	7.633	7.708	-0.075	8032	100.000	106.672
3 1,3,5-Trinitrobenzene	10.925	11.033	-0.108	16872	100.000	91.7345
4 1,3-Dinitrobenzene	14.016	14.116	-0.100	31701	100.000	97.3824
5 Nitrobenzene	14.925	14.991	-0.066	37580	100.000	99.3308
6 Tetryl	15.691	15.775	-0.084	15124	100.000	100.031
7 2,4,6-Trinitrotoluene(TNT)	18.441	18.558	-0.117	23962	100.000	97.2984
8 4-Amino-2,6-dinitrotoluene	20.041	20.116	-0.075	15658	100.000	103.391
9 2-Amino-4,6-dinitrotoluene	21.291	21.341	-0.050	29187	100.000	98.0477
10 2,6-Dinitrotoluene	22.441	22.525	-0.084	14484	100.000	96.7026
11 2,4-Dinitrotoluene	23.483	23.591	-0.108	36740	100.000	97.4106
12 2-Nitrotoluene	25.625	25.708	-0.083	25340	100.000	106.962
13 4-Nitrotoluene	27.983	28.083	-0.100	28836	100.000	95.8707
14 3-Nitrotoluene	29.733	29.850	-0.117	33549	100.000	100.794
$ 15 1-C-3-NB	33.733	33.883	-0.150	29228	100.000	97.9939

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL3
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 006

Client SDG: H1071105.b

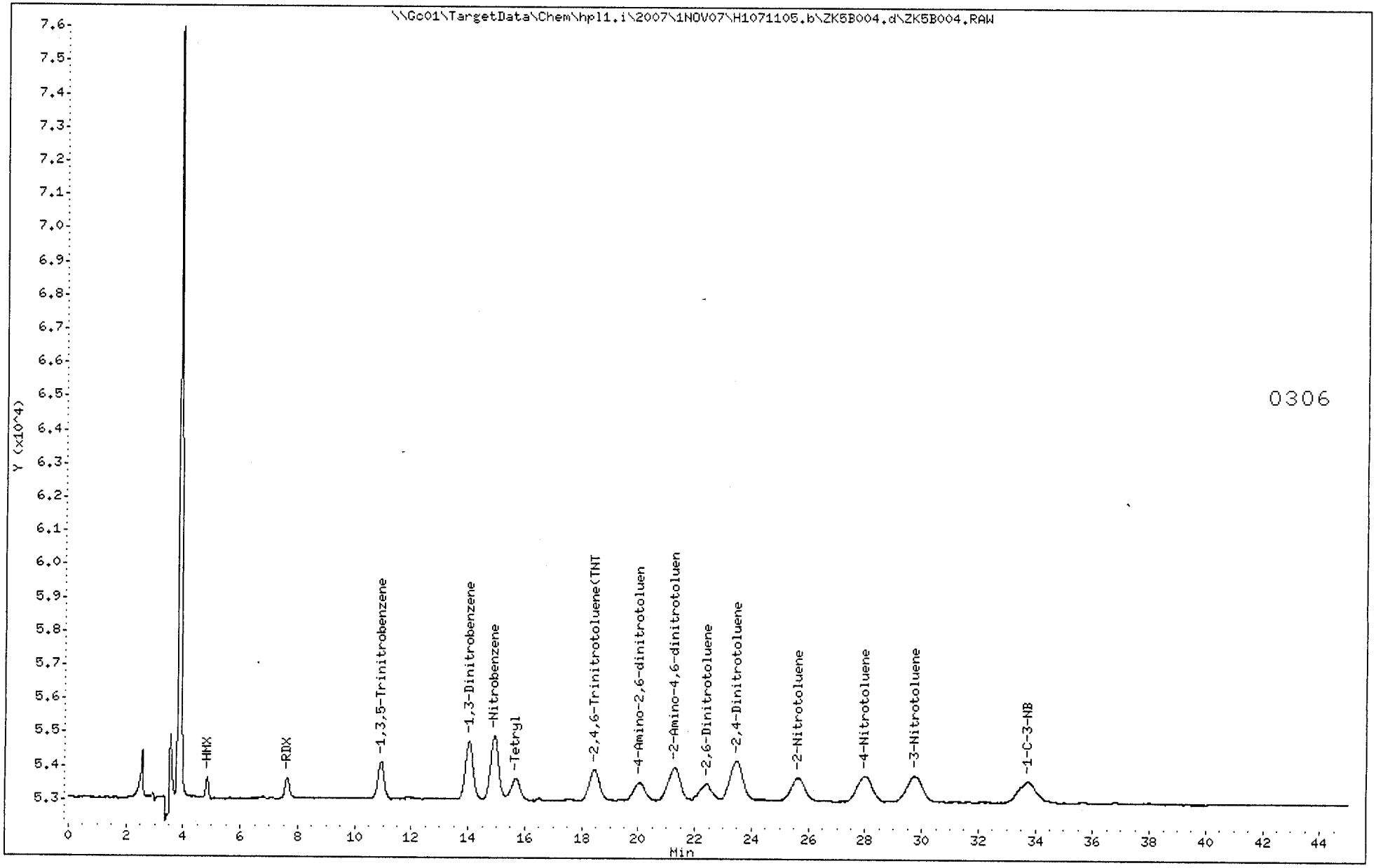
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	82.3389	
121-82-4	RDX	106.672	
99-35-4	1,3,5-Trinitrobenzene	91.7345	
99-65-0	1,3-Dinitrobenzene	97.3824	
98-95-3	Nitrobenzene	99.3308	
479-45-8	Tetryl	100.031	
118-96-7	2,4,6-Trinitrotoluene(TNT)	97.2984	
1946-51-0	4-Amino-2,6-dinitrotoluene	103.391	
35572-78-2	2-Amino-4,6-dinitrotoluene	98.0477	
606-20-2	2,6-Dinitrotoluene	96.7026	
121-14-2	2,4-Dinitrotoluene	97.4106	
88-72-2	2-Nitrotoluene	106.962	
99-99-0	4-Nitrotoluene	95.8707	
99-08-1	3-Nitrotoluene	100.794	
121-73-3	1-C-3-NB	97.9939	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B004.d
Date : 05-NOV-2007 12:34
Client ID:
Sample Info: LEVEL3
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0306

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A005.d
Lab Smp Id: LEVEL4
Inj Date : 05-NOV-2007 13:20
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL4
Misc Info : 007
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.850	4.966	-0.116	95130	250.000	247.094
2 RDX	7.650	7.716	-0.066	68260	250.000	251.362
3 1,3,5-Trinitrobenzene	10.950	11.025	-0.075	176926	250.000	250.531
4 1,3-Dinitrobenzene	14.058	14.116	-0.058	142146	250.000	249.313
5 Nitrobenzene	14.958	15.008	-0.050	36052	250.000	246.820
6 Tetryl	15.708	15.783	-0.075	116028	250.000	251.581
7 2,4,6-Trinitrotoluene(TNT)	18.483	18.566	-0.083	120864	250.000	248.680
8 4-Amino-2,6-dinitrotoluene	20.083	20.116	-0.033	149974	250.000	247.973
9 2-Amino-4,6-dinitrotoluene	21.325	21.350	-0.025	131109	250.000	250.413
10 2,6-Dinitrotoluene	22.450	22.516	-0.066	77583	250.000	248.248
11 2,4-Dinitrotoluene	23.525	23.591	-0.066	96787	250.000	248.926
12 2-Nitrotoluene	25.700	25.691	0.009	32176	250.000	275.218
13 4-Nitrotoluene	28.000	28.091	-0.091	19568	250.000	250.679
14 3-Nitrotoluene	29.833	29.900	-0.067	25808	250.000	245.965
$ 15 1-C-3-NB	33.783	33.891	-0.108	30354	250.000	257.735

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL4
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 007

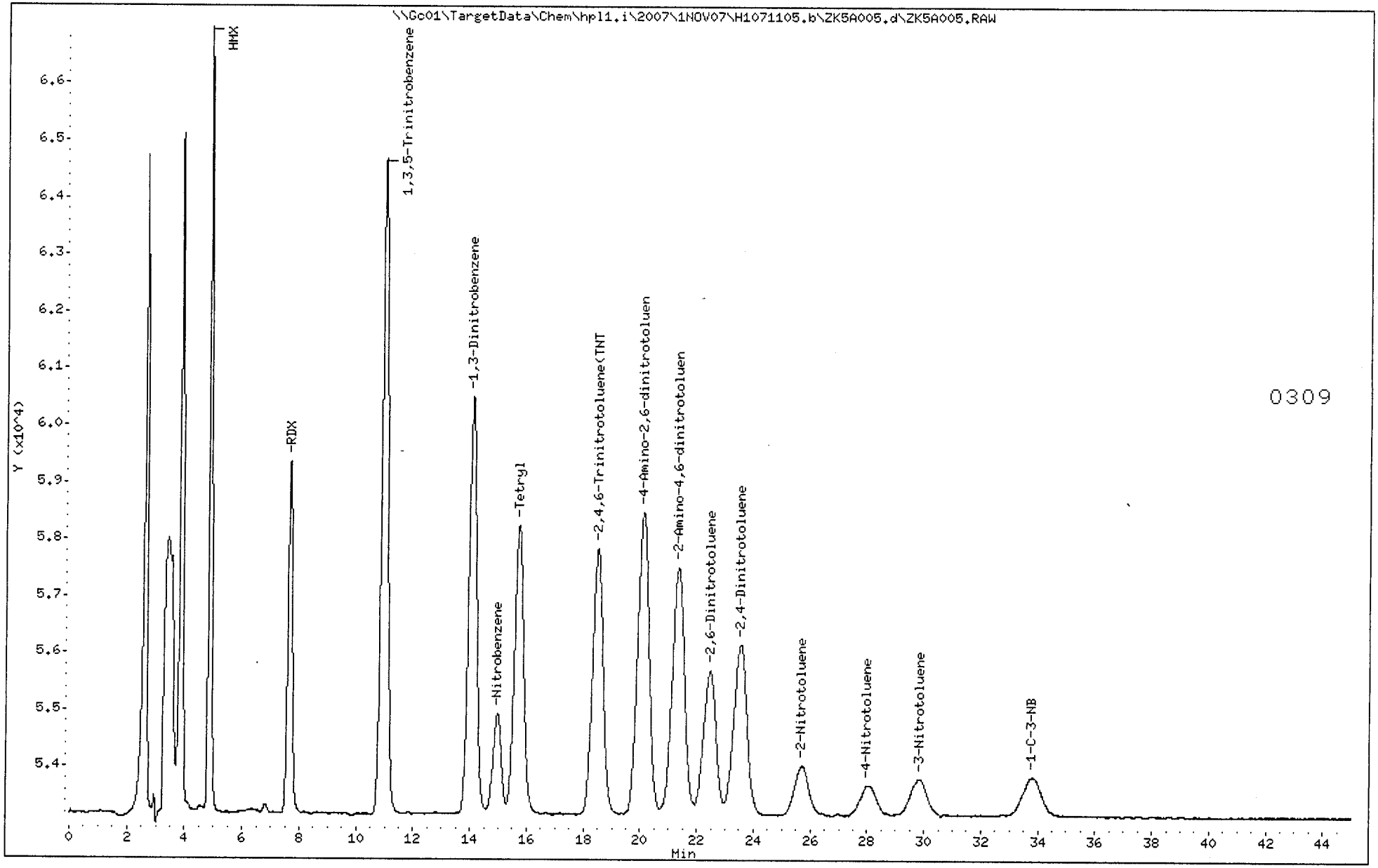
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	247.094	
121-82-4	RDX	251.362	
99-35-4	1,3,5-Trinitrobenzene	250.531	
99-65-0	1,3-Dinitrobenzene	249.313	
98-95-3	Nitrobenzene	246.820	
479-45-8	Tetryl	251.581	
118-96-7	2,4,6-Trinitrotoluene(TNT)	248.680	
1946-51-0	4-Amino-2,6-dinitrotoluene	247.973	
35572-78-2	2-Amino-4,6-dinitrotoluene	250.413	
606-20-2	2,6-Dinitrotoluene	248.248	
121-14-2	2,4-Dinitrotoluene	248.926	
88-72-2	2-Nitrotoluene	275.218	
99-99-0	4-Nitrotoluene	250.679	
99-08-1	3-Nitrotoluene	245.965	
121-73-3	1-C-3-NB	257.735	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A005.d
Date : 05-NOV-2007 13:20
Client ID:
Sample Info: LEVEL4
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B005.d
Lab Smp Id: LEVEL4
Inj Date : 05-NOV-2007 13:20
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL4
Misc Info : 007
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.850	4.966	-0.116	12119	250.000	229.342
2 RDX	7.641	7.708	-0.067	19341	250.000	256.865
3 1,3,5-Trinitrobenzene	10.950	11.033	-0.083	42159	250.000	229.222
4 1,3-Dinitrobenzene	14.058	14.116	-0.058	80656	250.000	247.768
5 Nitrobenzene	14.958	14.991	-0.033	93115	250.000	246.120
6 Tetryl	15.700	15.775	-0.075	37564	250.000	248.451
7 2,4,6-Trinitrotoluene(TNT)	18.491	18.558	-0.067	58173	250.000	236.213
8 4-Amino-2,6-dinitrotoluene	20.091	20.116	-0.025	37479	250.000	247.477
9 2-Amino-4,6-dinitrotoluene	21.333	21.341	-0.008	73238	250.000	246.028
10 2,6-Dinitrotoluene	22.458	22.525	-0.067	36629	250.000	244.554
11 2,4-Dinitrotoluene	23.533	23.591	-0.058	94089	250.000	249.463
12 2-Nitrotoluene	25.700	25.708	-0.008	58076	250.000	245.142
13 4-Nitrotoluene	28.050	28.083	-0.033	72353	250.000	240.551
14 3-Nitrotoluene	29.816	29.850	-0.034	79256	250.000	238.115
$ 15 1-C-3-NB	33.791	33.883	-0.092	69804	250.000	234.035

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

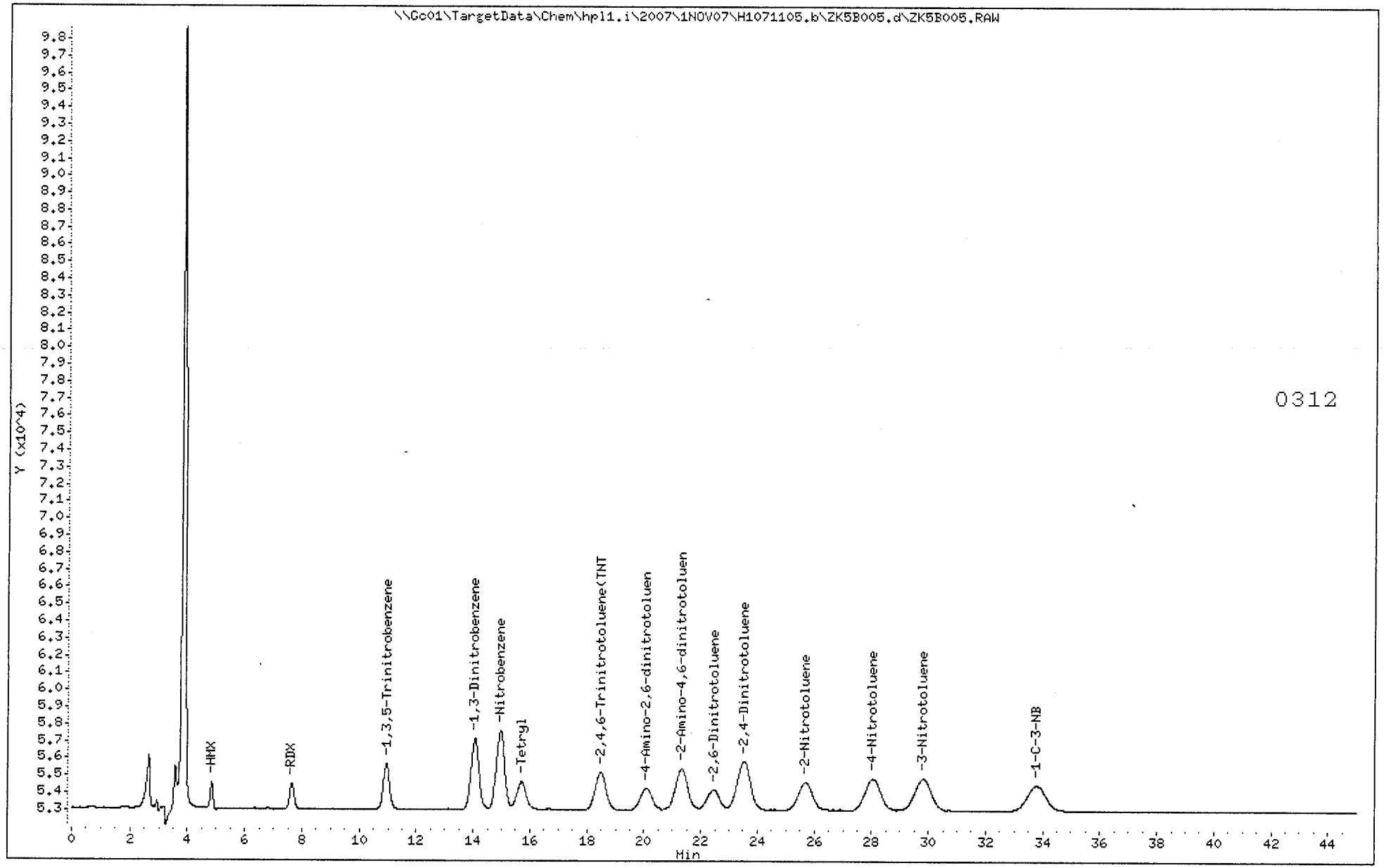
Client Name:
Lab Smp Id: LEVEL4
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 007

Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	229.342	
121-82-4	RDX	256.865	
99-35-4	1,3,5-Trinitrobenzene	229.222	
99-65-0	1,3-Dinitrobenzene	247.768	
98-95-3	Nitrobenzene	246.120	
479-45-8	Tetryl	248.451	
118-96-7	2,4,6-Trinitrotoluene(TNT)	236.213	
1946-51-0	4-Amino-2,6-dinitrotoluene	247.477	
35572-78-2	2-Amino-4,6-dinitrotoluene	246.028	
606-20-2	2,6-Dinitrotoluene	244.554	
121-14-2	2,4-Dinitrotoluene	249.463	
88-72-2	2-Nitrotoluene	245.142	
99-99-0	4-Nitrotoluene	240.551	
99-08-1	3-Nitrotoluene	238.115	
121-73-3	1-C-3-NB	234.035	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B005.d
Date : 05-NOV-2007 13:20
Client ID:
Sample Info: LEVEL4
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A006.d
Lab Smp Id: LEVEL5
Inj Date : 05-NOV-2007 14:05
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL5
Misc Info : 008
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.875	4.966	-0.091	192780	500.000	500.733
2 RDX	7.675	7.716	-0.041	135926	500.000	500.537
3 1,3,5-Trinitrobenzene	10.983	11.025	-0.042	353313	500.000	500.299
4 1,3-Dinitrobenzene	14.100	14.116	-0.016	284280	500.000	498.604
5 Nitrobenzene	15.000	15.008	-0.008	71749	500.000	491.210
6 Tetryl	15.758	15.783	-0.025	228055	500.000	494.486
7 2,4,6-Trinitrotoluene(TNT)	18.550	18.566	-0.016	242417	500.000	498.778
8 4-Amino-2,6-dinitrotoluene	20.150	20.116	0.034	300507	500.000	496.870
9 2-Amino-4,6-dinitrotoluene	21.391	21.350	0.041	261535	500.000	499.521
10 2,6-Dinitrotoluene	22.525	22.516	0.009	155472	500.000	497.475
11 2,4-Dinitrotoluene	23.600	23.591	0.009	194239	500.000	499.562
12 2-Nitrotoluene	25.783	25.691	0.092	61071	500.000	522.373
13 4-Nitrotoluene	28.116	28.091	0.025	40561	500.000	519.613
14 3-Nitrotoluene	29.925	29.900	0.025	51504	500.000	490.862
$ 15 1-C-3-NB	33.858	33.891	-0.033	63445	500.000	538.710

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL5
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 008

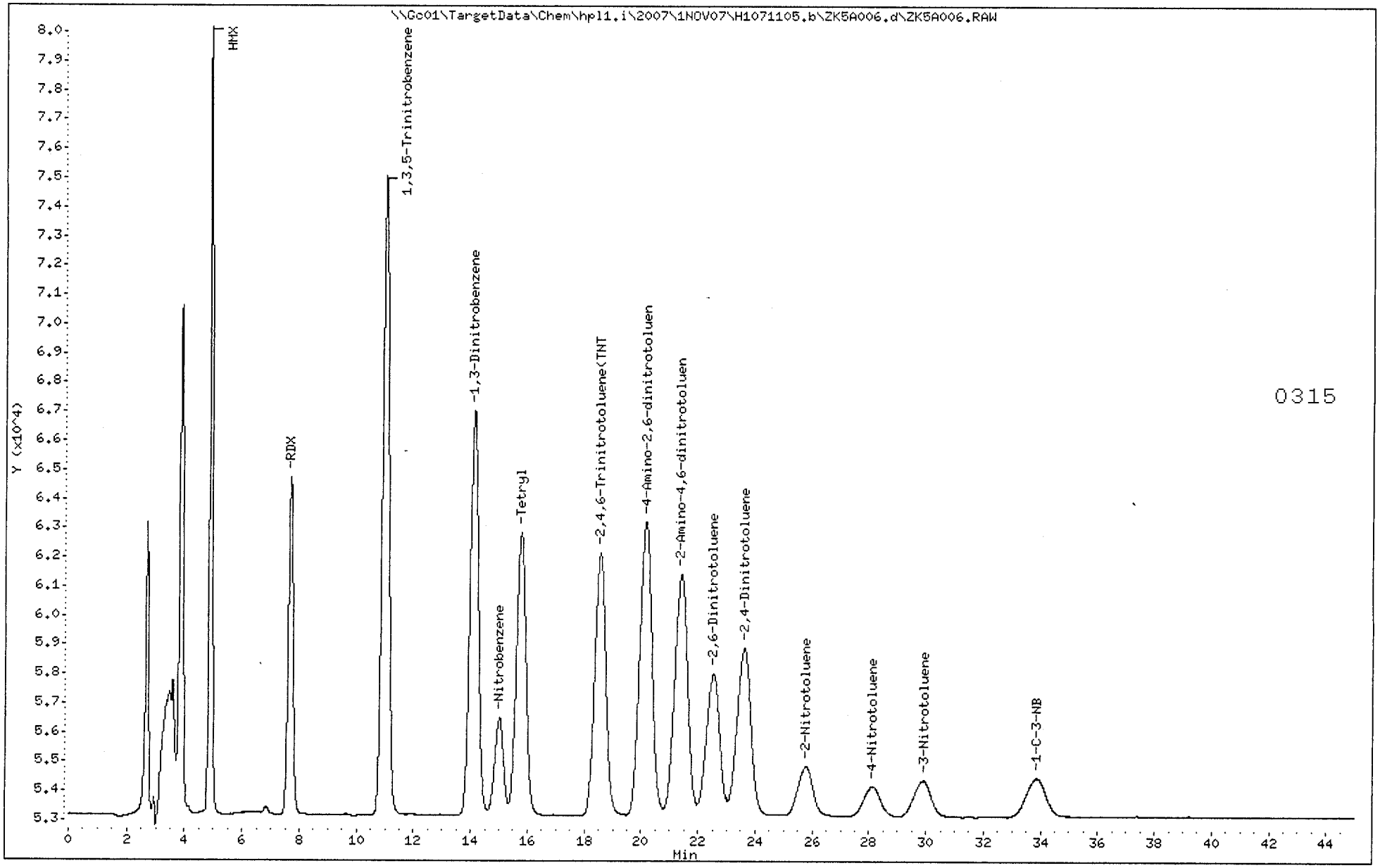
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	500.733	
121-82-4	RDX	500.537	
99-35-4	1,3,5-Trinitrobenzene	500.299	
99-65-0	1,3-Dinitrobenzene	498.604	
98-95-3	Nitrobenzene	491.210	
479-45-8	Tetryl	494.486	
118-96-7	2,4,6-Trinitrotoluene(TNT)	498.778	
1946-51-0	4-Amino-2,6-dinitrotoluene	496.870	
35572-78-2	2-Amino-4,6-dinitrotoluene	499.521	
606-20-2	2,6-Dinitrotoluene	497.475	
121-14-2	2,4-Dinitrotoluene	499.562	
88-72-2	2-Nitrotoluene	522.373	
99-99-0	4-Nitrotoluene	519.613	
99-08-1	3-Nitrotoluene	490.862	
121-73-3	1-C-3-NB	538.710	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A006.d
Date : 05-NOV-2007 14:05
Client ID:
Sample Info: LEVEL5
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B006.d
Lab Smp Id: LEVEL5
Inj Date : 05-NOV-2007 14:05
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL5
Misc Info : 008
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.866	4.966	-0.100	22495	500.000	425.698
2 RDX	7.675	7.708	-0.033	36687	500.000	487.235
3 1,3,5-Trinitrobenzene	10.983	11.033	-0.050	82550	500.000	448.831
4 1,3-Dinitrobenzene	14.100	14.116	-0.016	160961	500.000	494.457
5 Nitrobenzene	15.000	14.991	0.009	187577	500.000	495.800
6 Tetryl	15.750	15.775	-0.025	74036	500.000	489.680
7 2,4,6-Trinitrotoluene(TNT)	18.541	18.558	-0.017	115917	500.000	470.684
8 4-Amino-2,6-dinitrotoluene	20.158	20.116	0.042	74152	500.000	489.631
9 2-Amino-4,6-dinitrotoluene	21.391	21.341	0.050	145956	500.000	490.309
10 2,6-Dinitrotoluene	22.516	22.525	-0.009	74769	500.000	499.196
11 2,4-Dinitrotoluene	23.600	23.591	0.009	188429	500.000	499.591
12 2-Nitrotoluene	25.783	25.708	0.075	120900	500.000	510.326
13 4-Nitrotoluene	28.116	28.083	0.033	144856	500.000	481.601
14 3-Nitrotoluene	29.908	29.850	0.058	155420	500.000	466.941
$ 15 1-C-3-NB	33.866	33.883	-0.017	141665	500.000	474.966

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL5
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 008

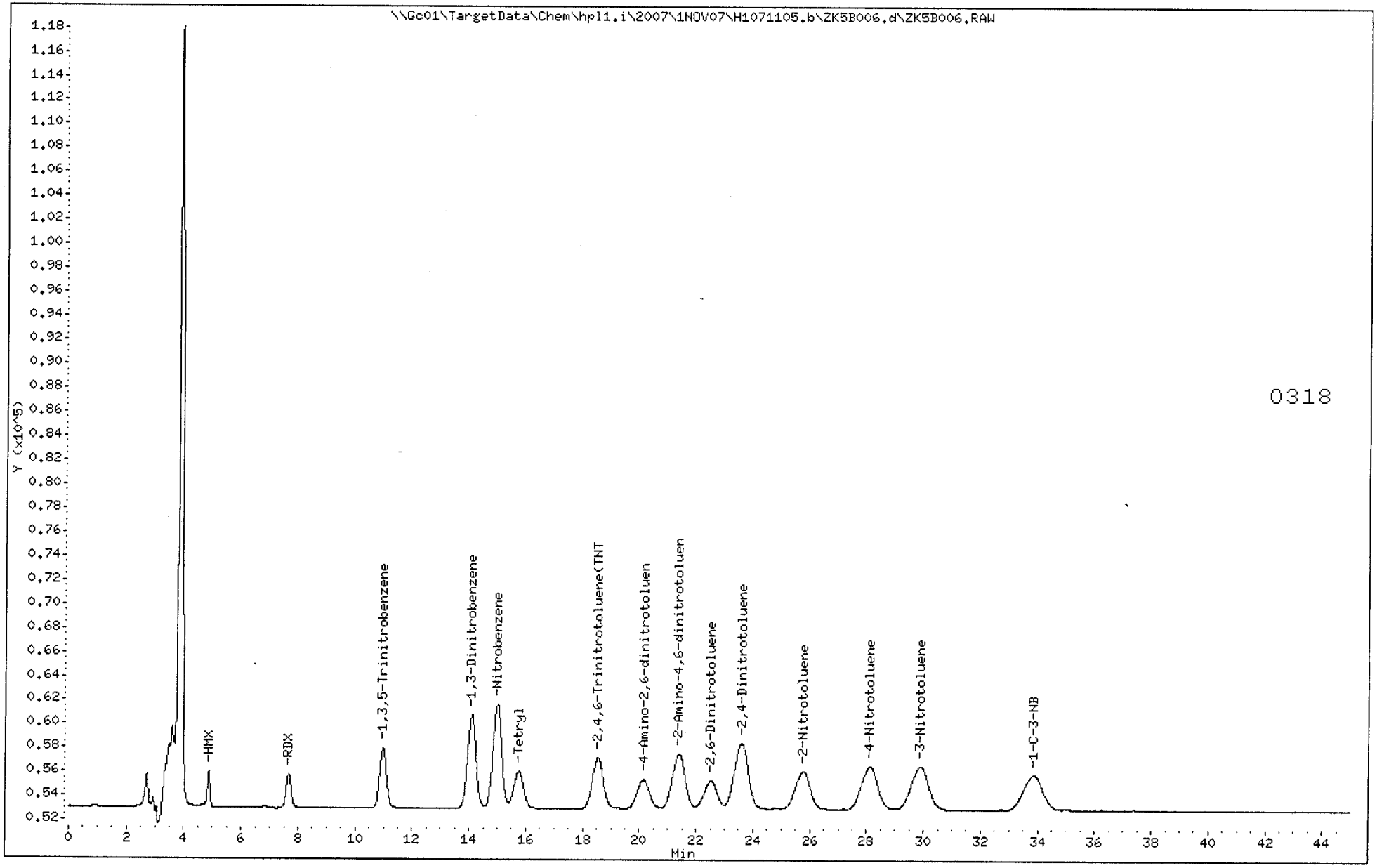
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	425.698	
121-82-4	RDX	487.235	
99-35-4	1,3,5-Trinitrobenzene	448.831	
99-65-0	1,3-Dinitrobenzene	494.457	
98-95-3	Nitrobenzene	495.800	
479-45-8	Tetryl	489.680	
118-96-7	2,4,6-Trinitrotoluene(TNT)	470.684	
1946-51-0	4-Amino-2,6-dinitrotoluene	489.631	
35572-78-2	2-Amino-4,6-dinitrotoluene	490.309	
606-20-2	2,6-Dinitrotoluene	499.196	
121-14-2	2,4-Dinitrotoluene	499.591	
88-72-2	2-Nitrotoluene	510.326	
99-99-0	4-Nitrotoluene	481.601	
99-08-1	3-Nitrotoluene	466.941	
121-73-3	1-C-3-NB	474.966	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B006.d
Date : 05-NOV-2007 14:05
Client ID:
Sample Info: LEVEL5
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0318

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A007.d
Lab Smp Id: LEVEL6
Inj Date : 05-NOV-2007 14:51
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL6
Misc Info : 009
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.908	4.966	-0.058	384872	1000.00	999.680
2 RDX	7.691	7.716	-0.025	272693	1000.00	1004.17
3 1,3,5-Trinitrobenzene	11.008	11.025	-0.017	707866	1000.00	1002.35
4 1,3-Dinitrobenzene	14.125	14.116	0.009	569130	1000.00	998.208
5 Nitrobenzene	15.016	15.008	0.008	143881	1000.00	985.042
6 Tetryl	15.775	15.783	-0.008	455419	1000.00	987.474
7 2,4,6-Trinitrotoluene(TNT)	18.566	18.566	0.000	485010	1000.00	997.918
8 4-Amino-2,6-dinitrotoluene	20.158	20.116	0.042	601684	1000.00	994.848
9 2-Amino-4,6-dinitrotoluene	21.400	21.350	0.050	524484	1000.00	1001.74
10 2,6-Dinitrotoluene	22.533	22.516	0.017	311367	1000.00	996.304
11 2,4-Dinitrotoluene	23.616	23.591	0.025	388766	1000.00	999.866
12 2-Nitrotoluene	25.808	25.691	0.117	122234	1000.00	1045.53
13 4-Nitrotoluene	28.175	28.091	0.084	80987	1000.00	1037.50
14 3-Nitrotoluene	29.933	29.900	0.033	104268	1000.00	993.734
$ 15 1-C-3-NB	33.941	33.891	0.050	126284	1000.00	1072.27

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL6
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 009

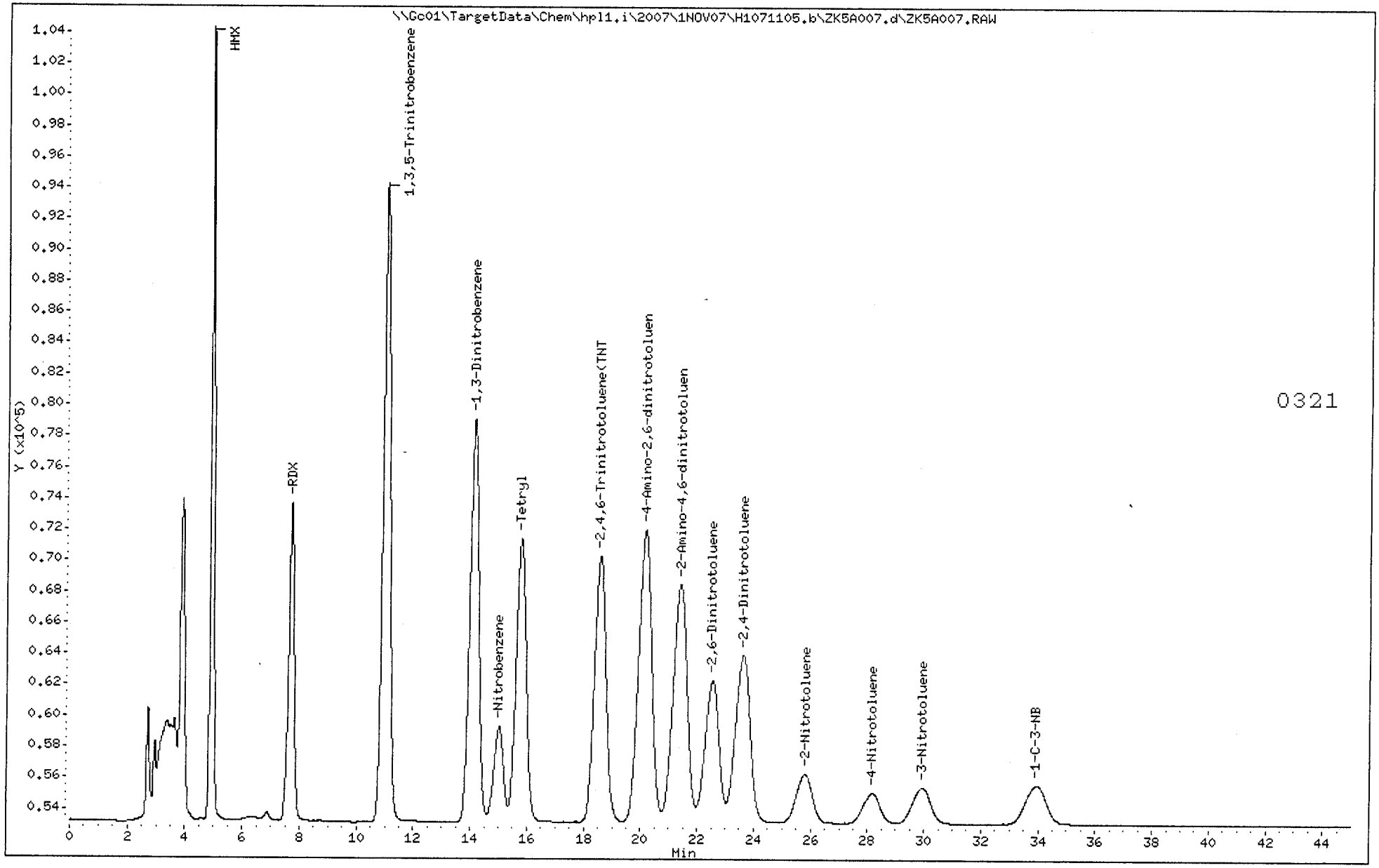
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	999.680	
121-82-4	RDX	1004.17	
99-35-4	1,3,5-Trinitrobenzene	1002.35	
99-65-0	1,3-Dinitrobenzene	998.208	
98-95-3	Nitrobenzene	985.042	
479-45-8	Tetryl	987.474	
118-96-7	2,4,6-Trinitrotoluene(TNT)	997.918	
1946-51-0	4-Amino-2,6-dinitrotoluene	994.848	
35572-78-2	2-Amino-4,6-dinitrotoluene	1001.74	
606-20-2	2,6-Dinitrotoluene	996.304	
121-14-2	2,4-Dinitrotoluene	999.866	
88-72-2	2-Nitrotoluene	1045.53	
99-99-0	4-Nitrotoluene	1037.50	
99-08-1	3-Nitrotoluene	993.734	
121-73-3	1-C-3-NB	1072.27	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A007.d
Date : 05-NOV-2007 14:51
Client ID:
Sample Info: LEVEL6
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0321

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B007.d
Lab Smp Id: LEVEL6
Inj Date : 05-NOV-2007 14:51
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL6
Misc Info : 009
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.900	4.966	-0.066	41055	1000.00	776.930
2 RDX	7.691	7.708	-0.017	73194	1000.00	972.080
3 1,3,5-Trinitrobenzene	11.008	11.033	-0.025	164877	1000.00	896.450
4 1,3-Dinitrobenzene	14.116	14.116	0.000	319802	1000.00	982.401
5 Nitrobenzene	15.008	14.991	0.017	375648	1000.00	992.906
6 Tetryl	15.775	15.775	0.000	144575	1000.00	956.230
7 2,4,6-Trinitrotoluene(TNT)	18.558	18.558	0.000	232191	1000.00	942.818
8 4-Amino-2,6-dinitrotoluene	20.150	20.116	0.034	148002	1000.00	977.268
9 2-Amino-4,6-dinitrotoluene	21.391	21.341	0.050	290044	1000.00	974.343
10 2,6-Dinitrotoluene	22.541	22.525	0.016	146925	1000.00	980.947
11 2,4-Dinitrotoluene	23.616	23.591	0.025	372272	1000.00	987.024
12 2-Nitrotoluene	25.791	25.708	0.083	227122	1000.00	958.695
13 4-Nitrotoluene	28.166	28.083	0.083	283292	1000.00	941.858
14 3-Nitrotoluene	29.933	29.850	0.083	304799	1000.00	915.733
$ 15 1-C-3-NB	33.933	33.883	0.050	280087	1000.00	939.059

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL6
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 009

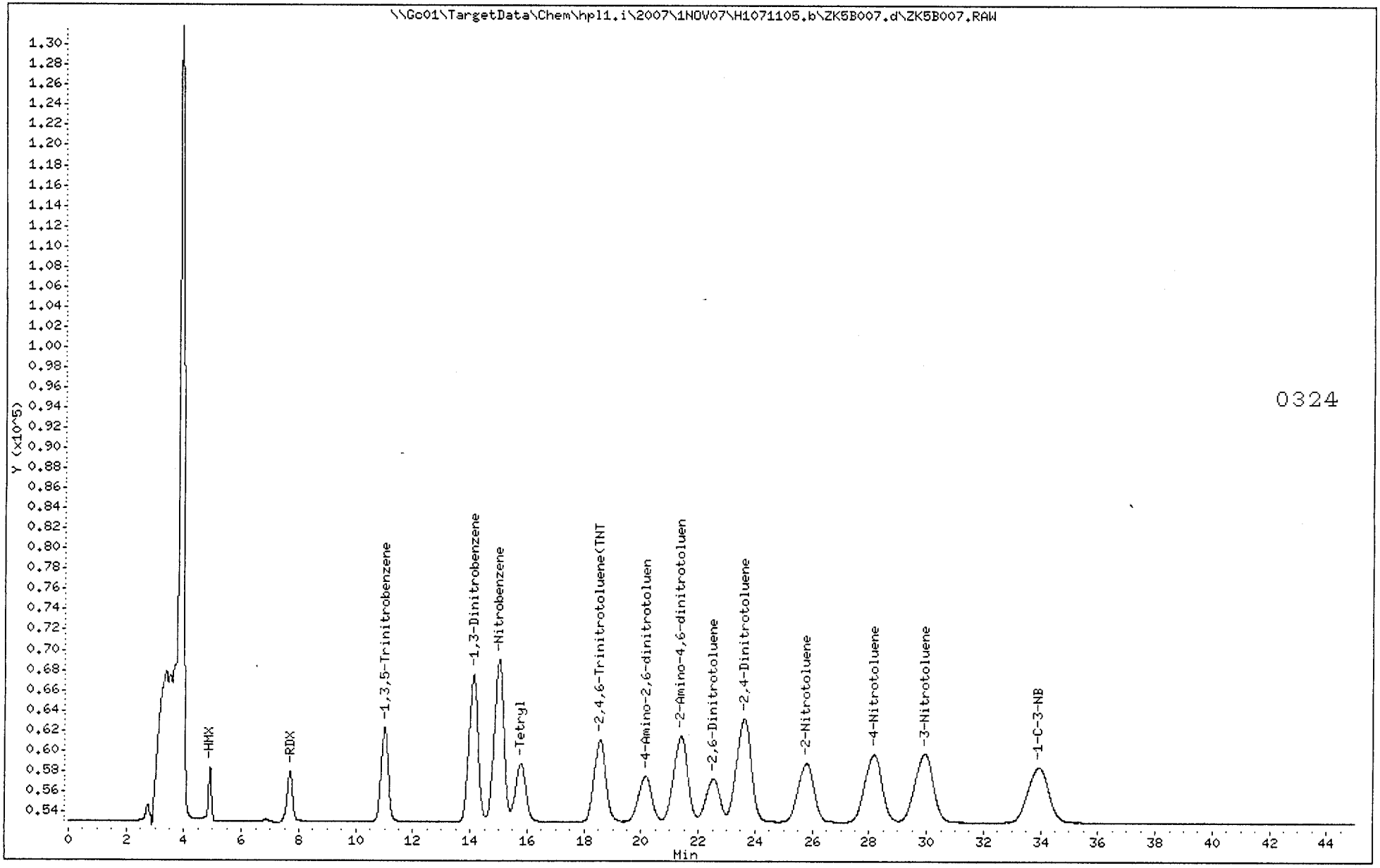
Client SDG: H1071105.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	776.930	
121-82-4	RDX	972.080	
99-35-4	1,3,5-Trinitrobenzene	896.450	
99-65-0	1,3-Dinitrobenzene	982.401	
98-95-3	Nitrobenzene	992.906	
479-45-8	Tetryl	956.230	
118-96-7	2,4,6-Trinitrotoluene(TNT)	942.818	
1946-51-0	4-Amino-2,6-dinitrotoluene	977.268	
35572-78-2	2-Amino-4,6-dinitrotoluene	974.343	
606-20-2	2,6-Dinitrotoluene	980.947	
121-14-2	2,4-Dinitrotoluene	987.024	
88-72-2	2-Nitrotoluene	958.695	
99-99-0	4-Nitrotoluene	941.858	
99-08-1	3-Nitrotoluene	915.733	
121-73-3	1-C-3-NB	939.059	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B007.d
Date : 05-NOV-2007 14:51
Client ID:
Sample Info: LEVEL6
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0324

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A008.d
Lab Smp Id: LEVEL7
Inj Date : 05-NOV-2007 15:37
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL7
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.975	4.966	0.009	750949	2000.00	1950.54
2 RDX	7.741	7.716	0.025	534192	2000.00	1967.12
3 1,3,5-Trinitrobenzene	11.066	11.025	0.041	1400459	2000.00	1983.08
4 1,3-Dinitrobenzene	14.166	14.116	0.050	1126632	2000.00	1976.02
5 Nitrobenzene	15.066	15.008	0.058	278027	2000.00	1903.44
6 Tetryl	15.858	15.783	0.075	894479	2000.00	1939.48
7 2,4,6-Trinitrotoluene(TNT)	18.650	18.566	0.084	956844	2000.00	1968.73
8 4-Amino-2,6-dinitrotoluene	20.216	20.116	0.100	1197652	2000.00	1980.24
9 2-Amino-4,6-dinitrotoluene	21.458	21.350	0.108	1032260	2000.00	1971.57
10 2,6-Dinitrotoluene	22.625	22.516	0.109	617141	2000.00	1974.71
11 2,4-Dinitrotoluene	23.708	23.591	0.117	768551	2000.00	1976.63
12 2-Nitrotoluene	25.900	25.691	0.209	242611	2000.00	2075.18(A)
13 4-Nitrotoluene	28.275	28.091	0.184	162299	2000.00	2079.16(A)
14 3-Nitrotoluene	30.041	29.900	0.141	206159	2000.00	1964.81
$ 15 1-C-3-NB	34.075	33.891	0.184	243345	2000.00	2066.24(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL7
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 010

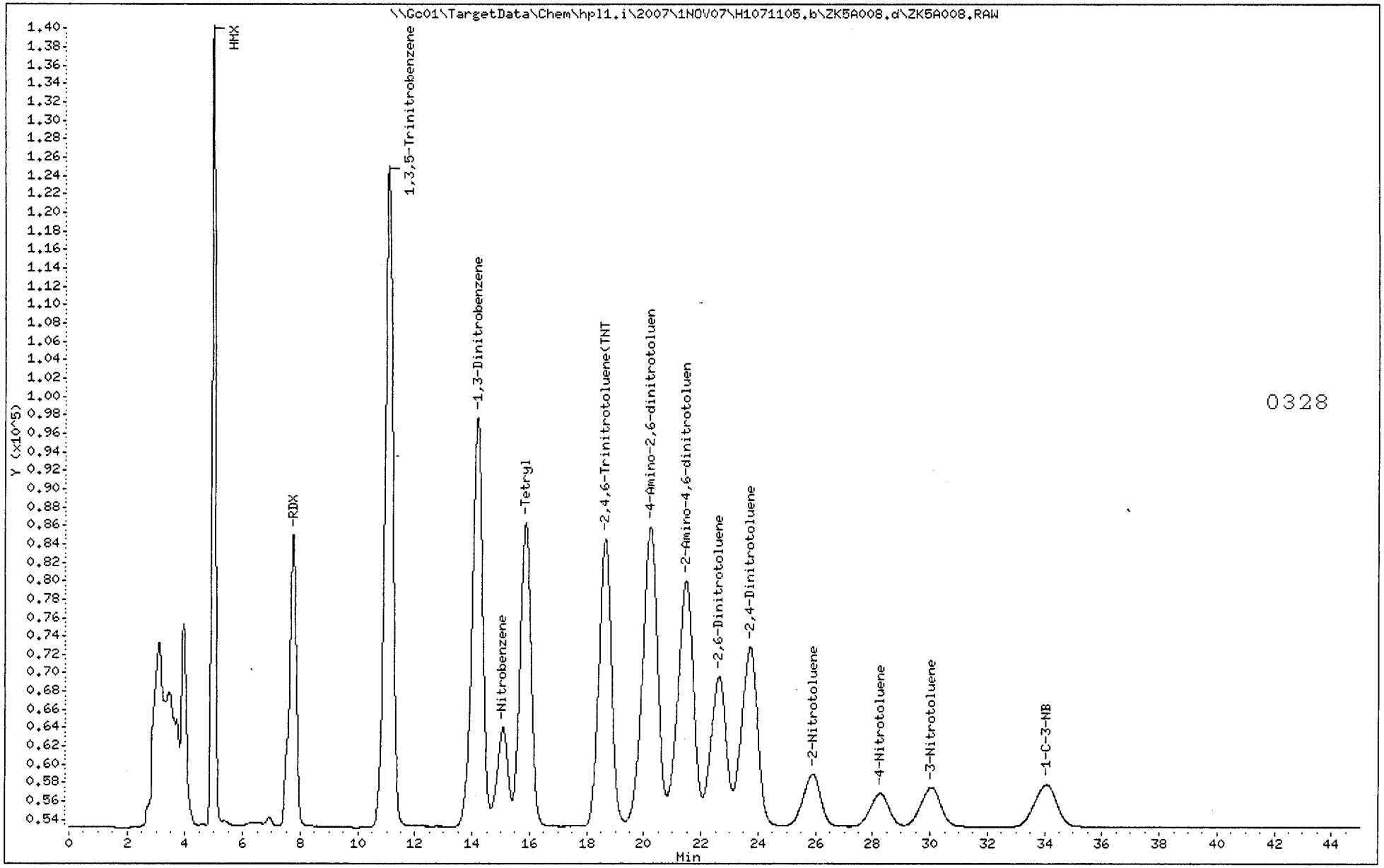
Client SDG: H1071105.b

Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1950.54	
121-82-4	RDX	1967.12	
99-35-4	1,3,5-Trinitrobenzene	1983.08	
99-65-0	1,3-Dinitrobenzene	1976.02	
98-95-3	Nitrobenzene	1903.44	
479-45-8	Tetryl	1939.48	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1968.73	
1946-51-0	4-Amino-2,6-dinitrotoluene	1980.24	
35572-78-2	2-Amino-4,6-dinitrotoluene	1971.57	
606-20-2	2,6-Dinitrotoluene	1974.71	
121-14-2	2,4-Dinitrotoluene	1976.63	
88-72-2	2-Nitrotoluene	2075.18	E
99-99-0	4-Nitrotoluene	2079.16	E
99-08-1	3-Nitrotoluene	1964.81	
121-73-3	1-C-3-NB	2066.24	E

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A008.d
Date : 05-NOV-2007 15:37
Client ID:
Sample Info: LEVEL7
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B008.d
Lab Smp Id: LEVEL7
Inj Date : 05-NOV-2007 15:37
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL7
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 07-Nov-2007 11:39 elc Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.966	4.966	0.000	69674	2000.00	1318.52
2 RDX	7.733	7.708	0.025	135891	2000.00	1804.75
3 1,3,5-Trinitrobenzene	11.058	11.033	0.025	318564	2000.00	1732.06
4 1,3-Dinitrobenzene	14.166	14.116	0.050	634357	2000.00	1948.68
5 Nitrobenzene	15.066	14.991	0.075	740742	2000.00	1957.92
6 Tetryl	15.850	15.775	0.075	283812	2000.00	1877.15
7 2,4,6-Trinitrotoluene(TNT)	18.641	18.558	0.083	455372	2000.00	1849.05
8 4-Amino-2,6-dinitrotoluene	20.225	20.116	0.109	289400	2000.00	1910.93
9 2-Amino-4,6-dinitrotoluene	21.458	21.341	0.117	570707	2000.00	1917.17
10 2,6-Dinitrotoluene	22.625	22.525	0.100	286824	2000.00	1914.98
11 2,4-Dinitrotoluene	23.708	23.591	0.117	735035	2000.00	1948.84
12 2-Nitrotoluene	25.891	25.708	0.183	452892	2000.00	1911.68
13 4-Nitrotoluene	28.266	28.083	0.183	562508	2000.00	1870.16
14 3-Nitrotoluene	30.041	29.850	0.191	607373	2000.00	1824.78
$ 15 1-C-3-NB	34.058	33.883	0.175	544042	2000.00	1824.03

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL7
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 010

Client SDG: H1071105.b

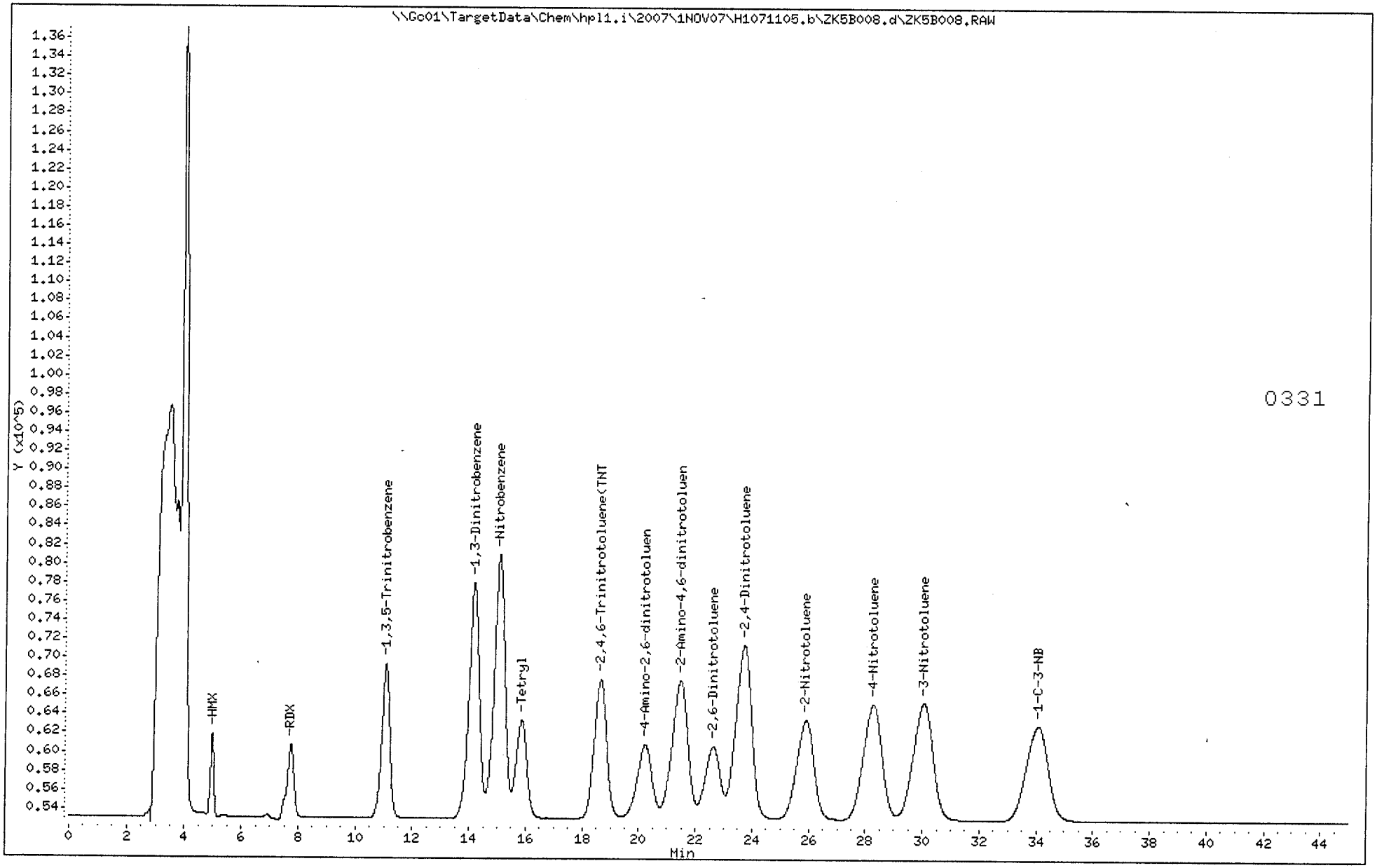
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1318.52	
121-82-4	RDX	1804.75	
99-35-4	1,3,5-Trinitrobenzene	1732.06	
99-65-0	1,3-Dinitrobenzene	1948.68	
98-95-3	Nitrobenzene	1957.92	
479-45-8	Tetryl	1877.15	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1849.05	
1946-51-0	4-Amino-2,6-dinitrotoluene	1910.93	
35572-78-2	2-Amino-4,6-dinitrotoluene	1917.17	
606-20-2	2,6-Dinitrotoluene	1914.98	
121-14-2	2,4-Dinitrotoluene	1948.84	
88-72-2	2-Nitrotoluene	1911.68	
99-99-0	4-Nitrotoluene	1870.16	
99-08-1	3-Nitrotoluene	1824.78	
121-73-3	1-C-3-NB	1824.03	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B008.d
Date : 05-NOV-2007 15:37
Client ID:
Sample Info: LEVEL7
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A009.d
Lab Smp Id: 2nd Source CCV
Inj Date : 05-NOV-2007 16:23
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 011
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m
Meth Date : 15-Jan-2008 17:00 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.966	4.966	0.000	34702	100.000	90.1362
2 RDX	7.716	7.716	0.000	27445	100.000	101.064
3 1,3,5-Trinitrobenzene	11.025	11.025	0.000	72761	100.000	103.031
4 1,3-Dinitrobenzene	14.116	14.116	0.000	55861	100.000	97.9757
5 Nitrobenzene	15.008	15.008	0.000	13770	100.000	94.2726
6 Tetryl	15.783	15.783	0.000	49904	100.000	108.206
7 2,4,6-Trinitrotoluene(TNT)	18.566	18.566	0.000	48430	100.000	99.6458
8 4-Amino-2,6-dinitrotoluene	20.116	20.116	0.000	59282	100.000	98.0192
9 2-Amino-4,6-dinitrotoluene	21.350	21.350	0.000	50362	100.000	96.1894
10 2,6-Dinitrotoluene	22.516	22.516	0.000	29778	100.000	95.2829
11 2,4-Dinitrotoluene	23.591	23.591	0.000	38777	100.000	99.7304
12 2-Nitrotoluene	25.691	25.691	0.000	17942	100.000	153.467
13 4-Nitrotoluene	28.091	28.091	0.000	6694	100.000	85.7545
14 3-Nitrotoluene	29.900	29.900	0.000	6260	100.000	59.6614
$ 15 1-C-3-NB	33.891	33.891	0.000	8389	100.000	71.2308

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 05-NOV-2007 16:23
Lab File ID: ZK5A009.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m

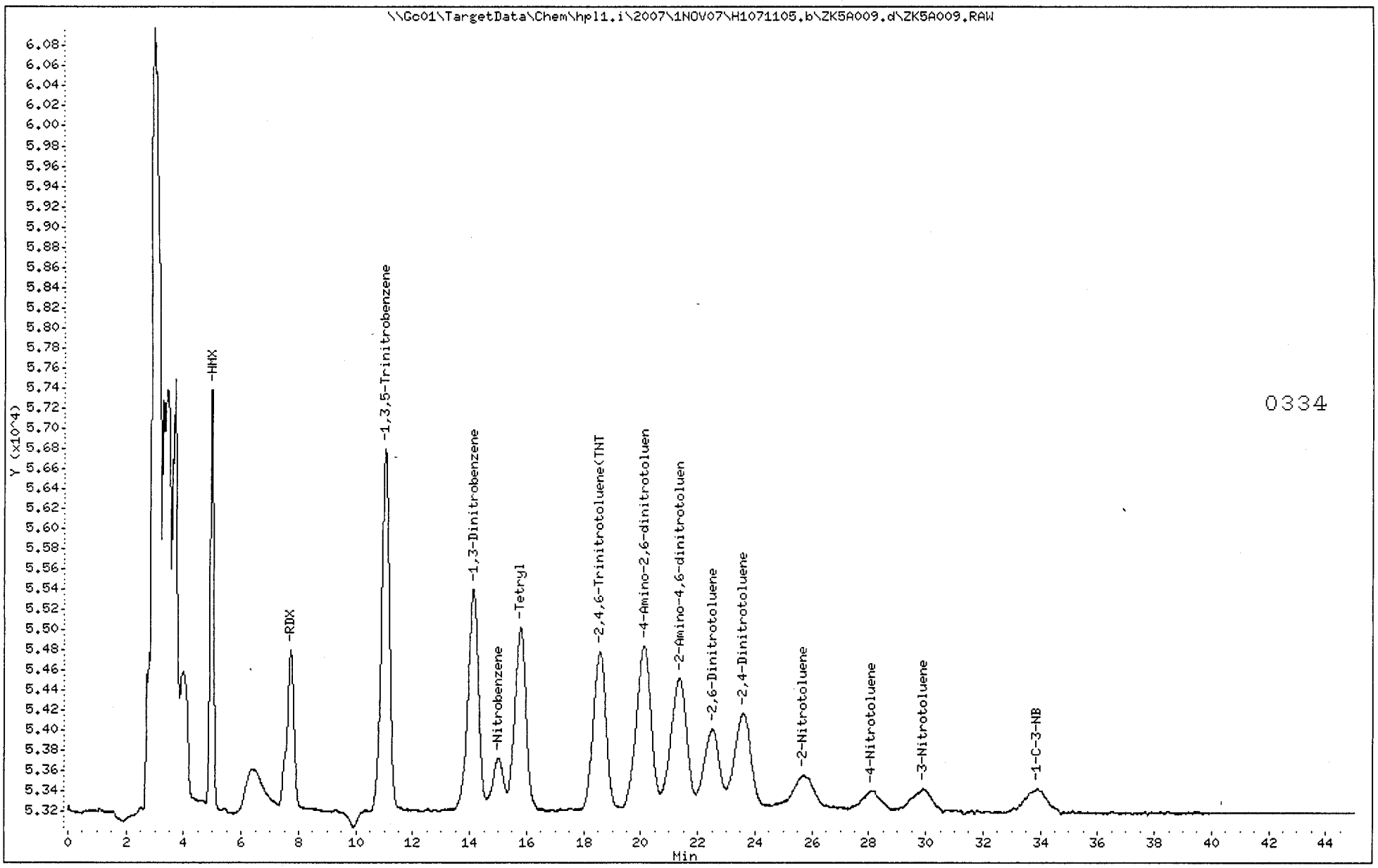
COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	385	347	0.010	-9.86381	15.00000	Averaged	
2 RDX	272	274	0.010	1.06417	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	706	728	0.010	3.03119	15.00000	Averaged	
4 1,3-Dinitrobenzene	570	559	0.010	-2.02427	15.00000	Averaged	
5 Nitrobenzene	146	138	0.010	-5.72741	15.00000	Averaged	
6 Tetryl	461	499	0.010	8.20567	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	486	484	0.010	-0.35425	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	605	593	0.010	-1.98082	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	524	504	0.010	-3.81064	15.00000	Averaged	
10 2,6-Dinitrotoluene	313	298	0.010	-4.71709	15.00000	Averaged	
11 2,4-Dinitrotoluene	389	388	0.010	-0.26959	15.00000	Averaged	
12 2-Nitrotoluene	117	179	0.010	53.46745	15.00000	Averaged	<-
13 4-Nitrotoluene	78.06007	66.94000	0.010	-14.24553	15.00000	Averaged	
14 3-Nitrotoluene	105	62.60000	0.010	-40.33862	15.00000	Averaged	<-
$ 15 1-C-3-NB	118	83.89000	0.010	-28.76920	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 11.85798
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5A009.d
Date : 05-NOV-2007 16:23
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0334

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B009.d
Lab Smp Id: 2nd Source CCV
Inj Date : 05-NOV-2007 16:23
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 011
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m
Meth Date : 15-Jan-2008 17:01 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	Compound Not Detected.					
2 RDX	7.708	7.708	0.000	9349	100.000	124.163
3 1,3,5-Trinitrobenzene	11.033	11.033	0.000	15723	100.000	85.4872
4 1,3-Dinitrobenzene	14.116	14.116	0.000	31374	100.000	96.3779
5 Nitrobenzene	14.991	14.991	0.000	35986	100.000	95.1176
6 Tetryl	15.775	15.775	0.000	14693	100.000	97.1806
7 2,4,6-Trinitrotoluene(TNT)	18.558	18.558	0.000	23423	100.000	95.1098
8 4-Amino-2,6-dinitrotoluene	20.116	20.116	0.000	14211	100.000	93.8363
9 2-Amino-4,6-dinitrotoluene	21.341	21.341	0.000	26869	100.000	90.2608
10 2,6-Dinitrotoluene	22.525	22.525	0.000	13625	100.000	90.9675
11 2,4-Dinitrotoluene	23.591	23.591	0.000	34575	100.000	91.6704
12 2-Nitrotoluene	25.708	25.708	0.000	24318	100.000	102.648
13 4-Nitrotoluene	28.083	28.083	0.000	27787	100.000	92.3831
14 3-Nitrotoluene	29.850	29.850	0.000	28771	100.000	86.4391
$ 15 1-C-3-NB	33.883	33.883	0.000	27847	100.000	93.3638

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 05-NOV-2007 16:23
Lab File ID: ZK5B009.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_265.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	52.84257	++++	0.010	++++	15.00000	Averaged	<-
2 RDX	75.29625	93.49000	0.010	24.16289	15.00000	Averaged	<-
3 1,3,5-Trinitrobenzene	184	157	0.010	-14.51274	15.00000	Averaged	
4 1,3-Dinitrobenzene	326	314	0.010	-3.62206	15.00000	Averaged	
5 Nitrobenzene	378	360	0.010	-4.88245	15.00000	Averaged	
6 Tetryl	151	147	0.010	-2.81939	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	246	234	0.010	-4.89021	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	151	142	0.010	-6.16369	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	298	269	0.010	-9.73914	15.00000	Averaged	
10 2,6-Dinitrotoluene	150	136	0.010	-9.03247	15.00000	Averaged	
11 2,4-Dinitrotoluene	377	346	0.010	-8.32954	15.00000	Averaged	
12 2-Nitrotoluene	237	243	0.010	2.64769	15.00000	Averaged	
13 4-Nitrotoluene	301	278	0.010	-7.61686	15.00000	Averaged	
14 3-Nitrotoluene	333	288	0.010	-13.56090	15.00000	Averaged	
$ 15 1-C-3-NB	298	278	0.010	-6.63622	15.00000	Averaged	

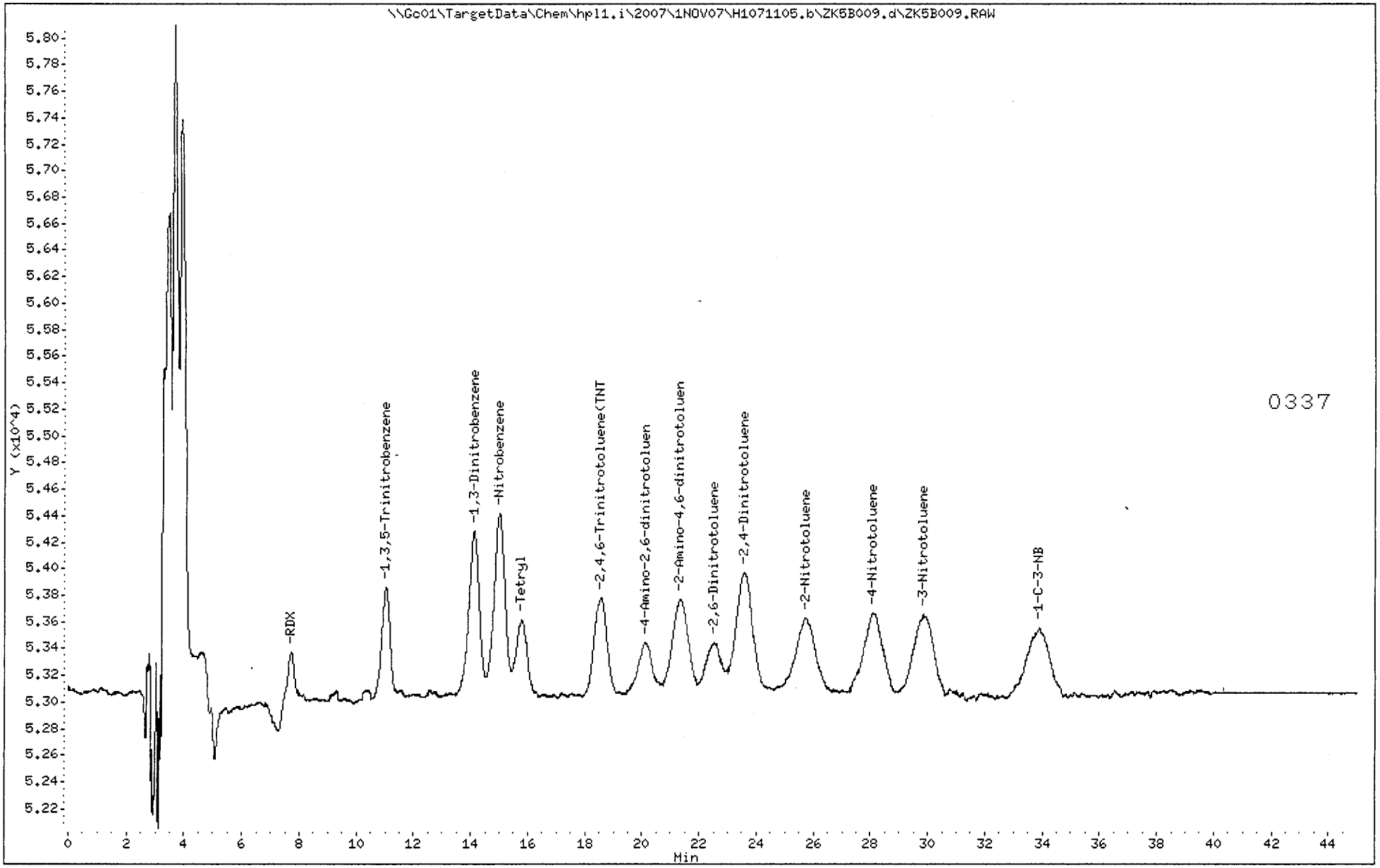
Average %D / Drift Results.

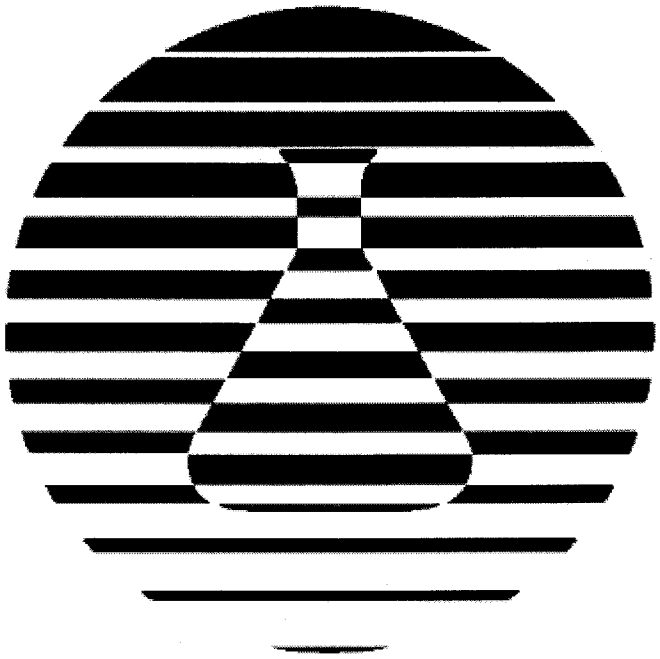
Calculated Average %D/Drift = 8.47259
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\ZK5B009.d
Date : 05-NOV-2007 16:23
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60





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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA002.d
Lab Smp Id: LEVEL1
Inj Date : 14-NOV-2007 12:50
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL1
Misc Info : 004
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.191	7.216	-0.025	8848	20.0000	21.2900(a)
2 RDX	11.241	11.250	-0.009	5867	20.0000	20.5335(a)
3 1,3,5-Trinitrobenzene	12.158	12.225	-0.067	15140	20.0000	20.5836(a)
4 1,3-Dinitrobenzene	14.991	15.050	-0.059	12188	20.0000	20.2179(a)
5 Nitrobenzene	16.283	16.358	-0.075	2889	20.0000	19.5098(a)
6 2,4,6-Trinitrotoluene(TNT)	20.733	20.833	-0.100	10565	20.0000	20.6305(a)
7 Tetryl	21.483	21.600	-0.117	10052	20.0000	21.3921(a)
8 2,6-Dinitrotoluene	24.058	24.183	-0.125	6895	20.0000	20.5552(a)
9 2,4-Dinitrotoluene	25.125	25.208	-0.083	8316	20.0000	20.2210(a)
10 2-Nitrotoluene	27.708	27.783	-0.075	2712	20.0000	21.1594(a)
11 4-Nitrotoluene	30.150	30.283	-0.133	2010	20.0000	24.3614(a)
12 3-Nitrotoluene	32.508	32.550	-0.042	3129	20.0000	29.2060
13 4-Amino-2,6-dinitrotoluene	33.383	33.483	-0.100	13814	20.0000	21.0735(a)
14 2-Amino-4,6-dinitrotoluene	35.208	35.283	-0.075	11418	20.0000	20.3537(a)
$ 15 1-C-3-NB	38.616	38.741	-0.125	2836	20.0000	22.5284

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL1
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 004

Client SDG: H1071114.b

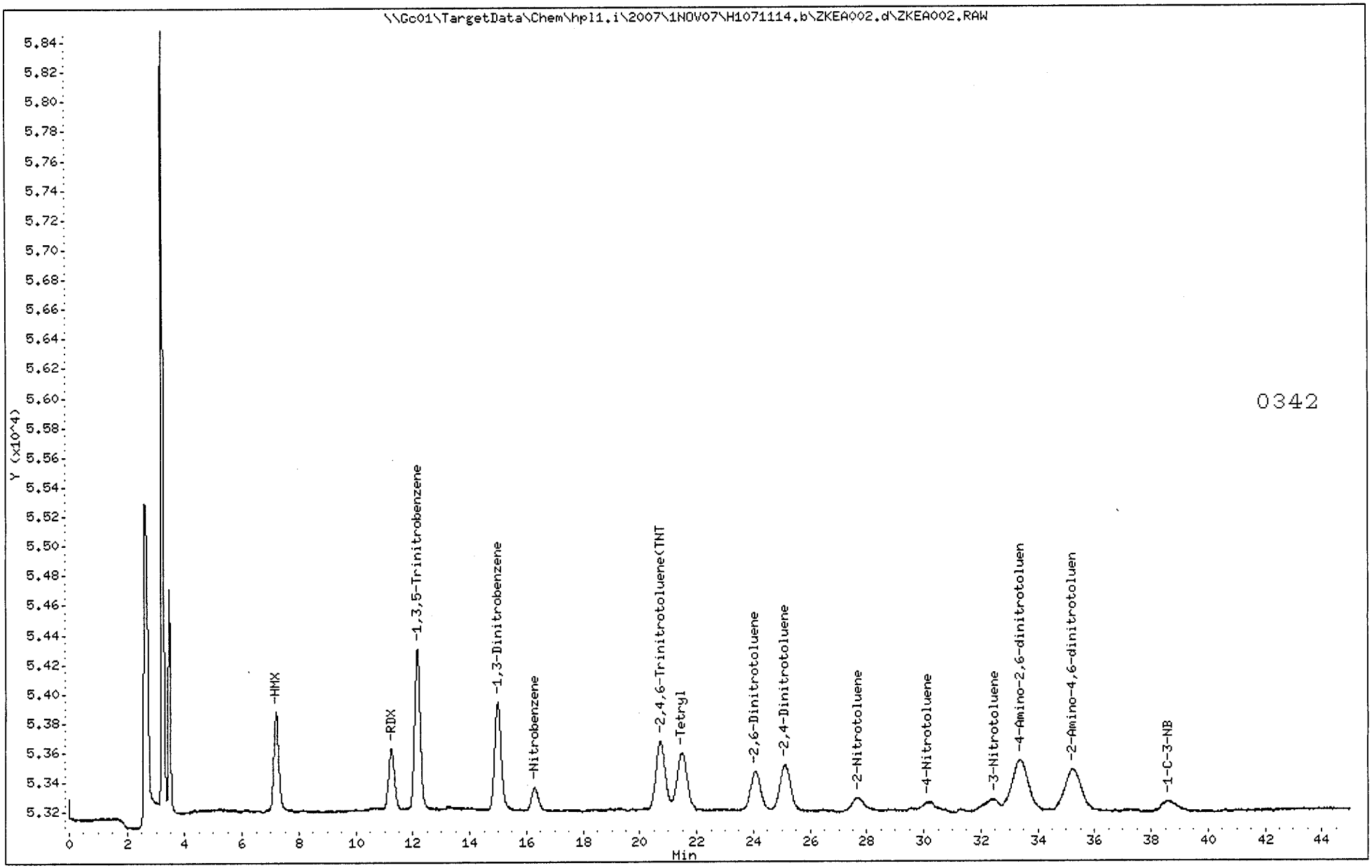
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	21.2900	J
121-82-4	RDX	20.5335	J
99-35-4	1,3,5-Trinitrobenzene	20.5836	J
99-65-0	1,3-Dinitrobenzene	20.2179	J
98-95-3	Nitrobenzene	19.5098	J
118-96-7	2,4,6-Trinitrotoluene(TNT)	20.6305	J
479-45-8	Tetryl	21.3921	J
606-20-2	2,6-Dinitrotoluene	20.5552	J
121-14-2	2,4-Dinitrotoluene	20.2210	J
88-72-2	2-Nitrotoluene	21.1594	J
99-99-0	4-Nitrotoluene	24.3614	J
99-08-1	3-Nitrotoluene	29.2060	
1946-51-0	4-Amino-2,6-dinitrotoluene	21.0735	J
35572-78-2	2-Amino-4,6-dinitrotoluene	20.3537	J
121-73-3	1-C-3-NB	22.5284	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA002.d
Date : 14-NOV-2007 12:50
Client ID:
Sample Info: LEVEL1
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0342

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB002.d
Lab Smp Id: LEVEL1
Inj Date : 14-NOV-2007 12:50
Operator : ELC
Smp Info : LEVEL1
Misc Info : 004
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i
Cal Date : 14-NOV-2007 17:55
Als bottle: 4
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.12
Processing Host: WMMS014

Inst ID: hpl1.i

Quant Type: ESTD
Cal File: ZKEB008.d
Calibration Sample, Level: 1

Compound Sublist: all.sub

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.191	7.191	0.000	1336	20.0000	26.2899
2 RDX	11.233	11.233	0.000	1569	20.0000	21.9919(a)
3 1,3,5-Trinitrobenzene	12.141	12.141	0.000	3770	20.0000	22.1194(a)
4 1,3-Dinitrobenzene	14.991	14.991	0.000	6922	20.0000	20.6361(a)
5 Nitrobenzene	16.266	16.266	0.000	7416	20.0000	19.9082(a)
6 2,4,6-Trinitrotoluene(TNT)	20.733	20.733	0.000	5046	20.0000	20.9422(a)
7 Tetryl	21.475	21.475	0.000	3172	20.0000	20.8734(a)
8 2,6-Dinitrotoluene	24.075	24.075	0.000	3460	20.0000	22.0315(a)
9 2,4-Dinitrotoluene	25.108	25.108	0.000	7722	20.0000	20.1994(a)
10 2-Nitrotoluene	27.666	27.666	0.000	4810	20.0000	20.9652(a)
11 4-Nitrotoluene	30.208	30.208	0.000	6018	20.0000	20.6695(a)
12 3-Nitrotoluene	32.416	32.416	0.000	5405	20.0000	17.9776(a)
13 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
14 2-Amino-4,6-dinitrotoluene	35.200	35.200	0.000	6217	20.0000	20.4718(a)
$ 15 1-C-3-NB	38.616	38.616	0.000	4963	20.0000	19.0789

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL1
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 004

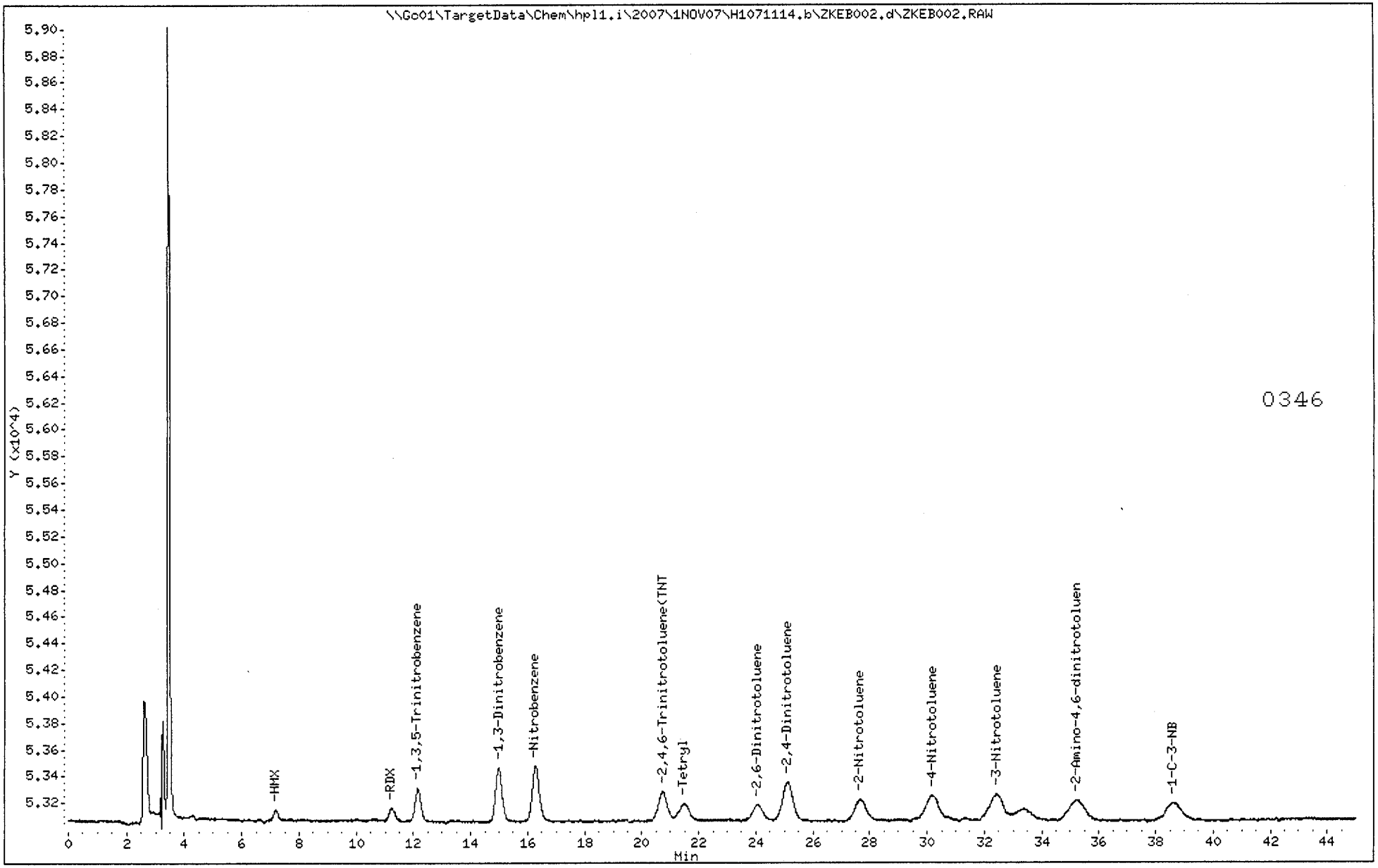
Client SDG: H1071114.b

Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	26.2899	
121-82-4	RDX	21.9919	J
99-35-4	1,3,5-Trinitrobenzene	22.1194	J
99-65-0	1,3-Dinitrobenzene	20.6361	J
98-95-3	Nitrobenzene	19.9082	J
118-96-7	2,4,6-Trinitrotoluene(TNT)	20.9422	J
479-45-8	Tetryl	20.8734	J
606-20-2	2,6-Dinitrotoluene	22.0315	J
121-14-2	2,4-Dinitrotoluene	20.1994	J
88-72-2	2-Nitrotoluene	20.9652	J
99-99-0	4-Nitrotoluene	20.6695	J
99-08-1	3-Nitrotoluene	17.9776	J
1946-51-0	4-Amino-2,6-dinitrotoluene	25.0000	U
35572-78-2	2-Amino-4,6-dinitrotoluene	20.4718	J
121-73-3	1-C-3-NB	19.0789	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB002.d
Date : 14-NOV-2007 12:50
Client ID:
Sample Info: LEVEL1
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA003.d
Lab Smp Id: LEVEL2
Inj Date : 14-NOV-2007 13:41
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL2
Misc Info : 005
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.216	7.216	0.000	20379	50.0000	49.0359
2 RDX	11.283	11.250	0.033	14393	50.0000	50.3731
3 1,3,5-Trinitrobenzene	12.191	12.225	-0.034	37093	50.0000	50.4299
4 1,3-Dinitrobenzene	15.050	15.050	0.000	30543	50.0000	50.6659
5 Nitrobenzene	16.366	16.358	0.008	7789	50.0000	52.6003
6 2,4,6-Trinitrotoluene(TNT)	20.825	20.833	-0.008	26392	50.0000	51.5363
7 Tetryl	21.616	21.600	0.016	24372	50.0000	51.8671
8 2,6-Dinitrotoluene	24.200	24.183	0.017	17053	50.0000	50.8379
9 2,4-Dinitrotoluene	25.241	25.208	0.033	21206	50.0000	51.5640
10 2-Nitrotoluene	27.816	27.783	0.033	6674	50.0000	52.0715
11 4-Nitrotoluene	30.366	30.283	0.083	4261	50.0000	51.6437
12 3-Nitrotoluene	32.616	32.550	0.066	5490	50.0000	51.2435
13 4-Amino-2,6-dinitrotoluene	33.575	33.483	0.092	32852	50.0000	50.1164
14 2-Amino-4,6-dinitrotoluene	35.416	35.283	0.133	29057	50.0000	51.7968
$ 15 1-C-3-NB	38.816	38.741	0.075	6294	50.0000	49.9977

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

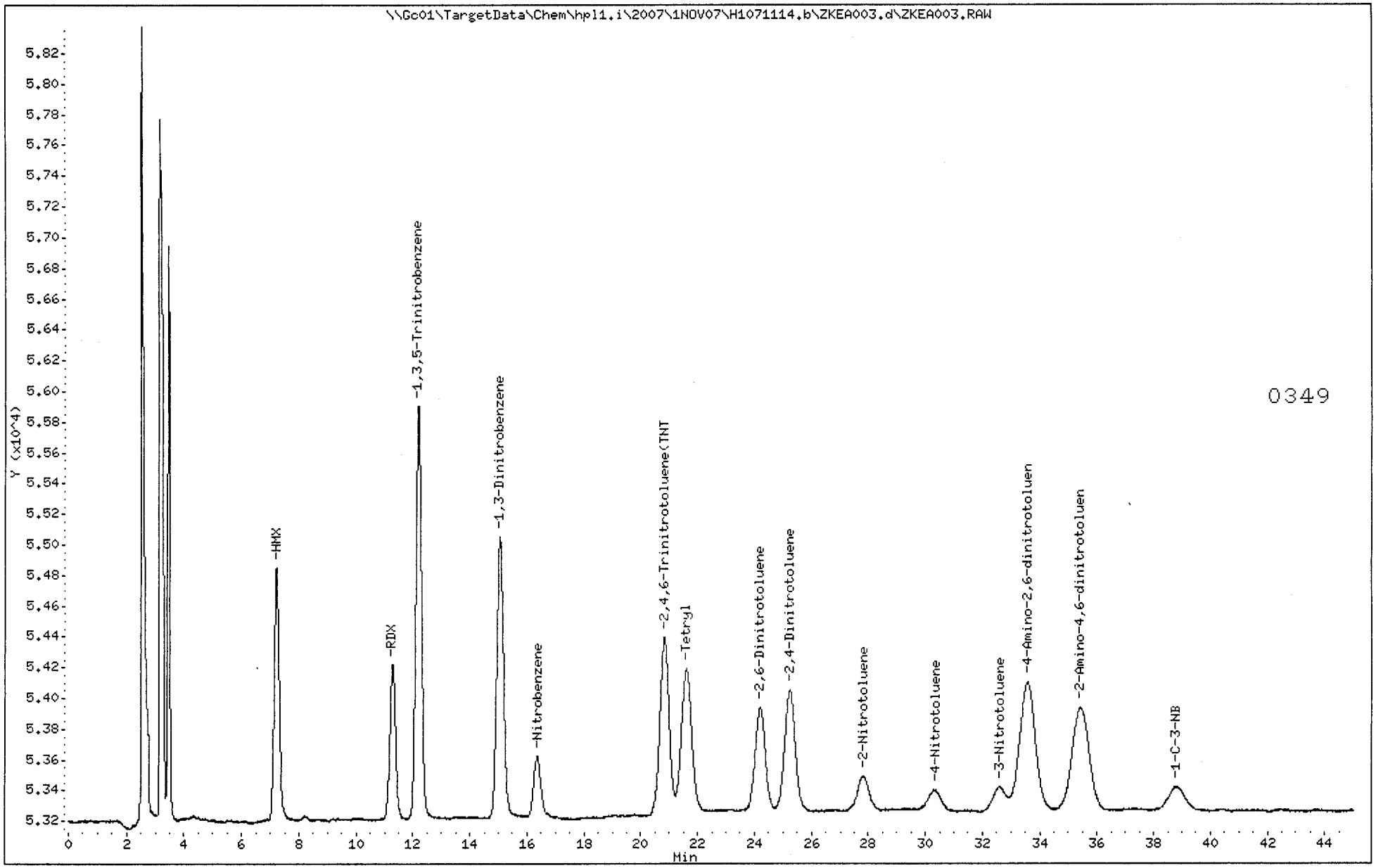
Client Name:
Lab Smp Id: LEVEL2
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 005

Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	49.0359	
121-82-4	RDX	50.3731	
99-35-4	1,3,5-Trinitrobenzene	50.4299	
99-65-0	1,3-Dinitrobenzene	50.6659	
98-95-3	Nitrobenzene	52.6003	
118-96-7	2,4,6-Trinitrotoluene(TNT)	51.5363	
479-45-8	Tetryl	51.8671	
606-20-2	2,6-Dinitrotoluene	50.8379	
121-14-2	2,4-Dinitrotoluene	51.5640	
88-72-2	2-Nitrotoluene	52.0715	
99-99-0	4-Nitrotoluene	51.6437	
99-08-1	3-Nitrotoluene	51.2435	
1946-51-0	4-Amino-2,6-dinitrotoluene	50.1164	
35572-78-2	2-Amino-4,6-dinitrotoluene	51.7968	
121-73-3	1-C-3-NB	49.9977	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA003.d
Date : 14-NOV-2007 13:41
Client ID:
Sample Info: LEVEL2
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0349

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB003.d
Lab Smp Id: LEVEL2
Inj Date : 14-NOV-2007 13:41
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL2
Misc Info : 005
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 12:50 Cal File: ZKEB002.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.200	7.200	0.000	2191	50.0000	43.1146
2 RDX	11.275	11.275	0.000	3750	50.0000	52.5618
3 1,3,5-Trinitrobenzene	12.191	12.191	0.000	8778	50.0000	51.5024
4 1,3-Dinitrobenzene	15.050	15.050	0.000	16993	50.0000	50.6602
5 Nitrobenzene	16.350	16.350	0.000	18595	50.0000	49.9182
6 2,4,6-Trinitrotoluene(TNT)	20.841	20.841	0.000	12614	50.0000	52.3514
7 Tetryl	21.608	21.608	0.000	7697	50.0000	50.6503
8 2,6-Dinitrotoluene	24.200	24.200	0.000	8010	50.0000	51.0035
9 2,4-Dinitrotoluene	25.241	25.241	0.000	19136	50.0000	50.0565
10 2-Nitrotoluene	27.808	27.808	0.000	11875	50.0000	51.7592
11 4-Nitrotoluene	30.316	30.316	0.000	14296	50.0000	49.1012
12 3-Nitrotoluene	32.591	32.591	0.000	15214	50.0000	50.6035
13 4-Amino-2,6-dinitrotoluene	33.558	33.558	0.000	7701	50.0000	50.2085
14 2-Amino-4,6-dinitrotoluene	35.391	35.391	0.000	15224	50.0000	50.1306
$ 15 1-C-3-NB	38.808	38.808	0.000	13049	50.0000	50.1633

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

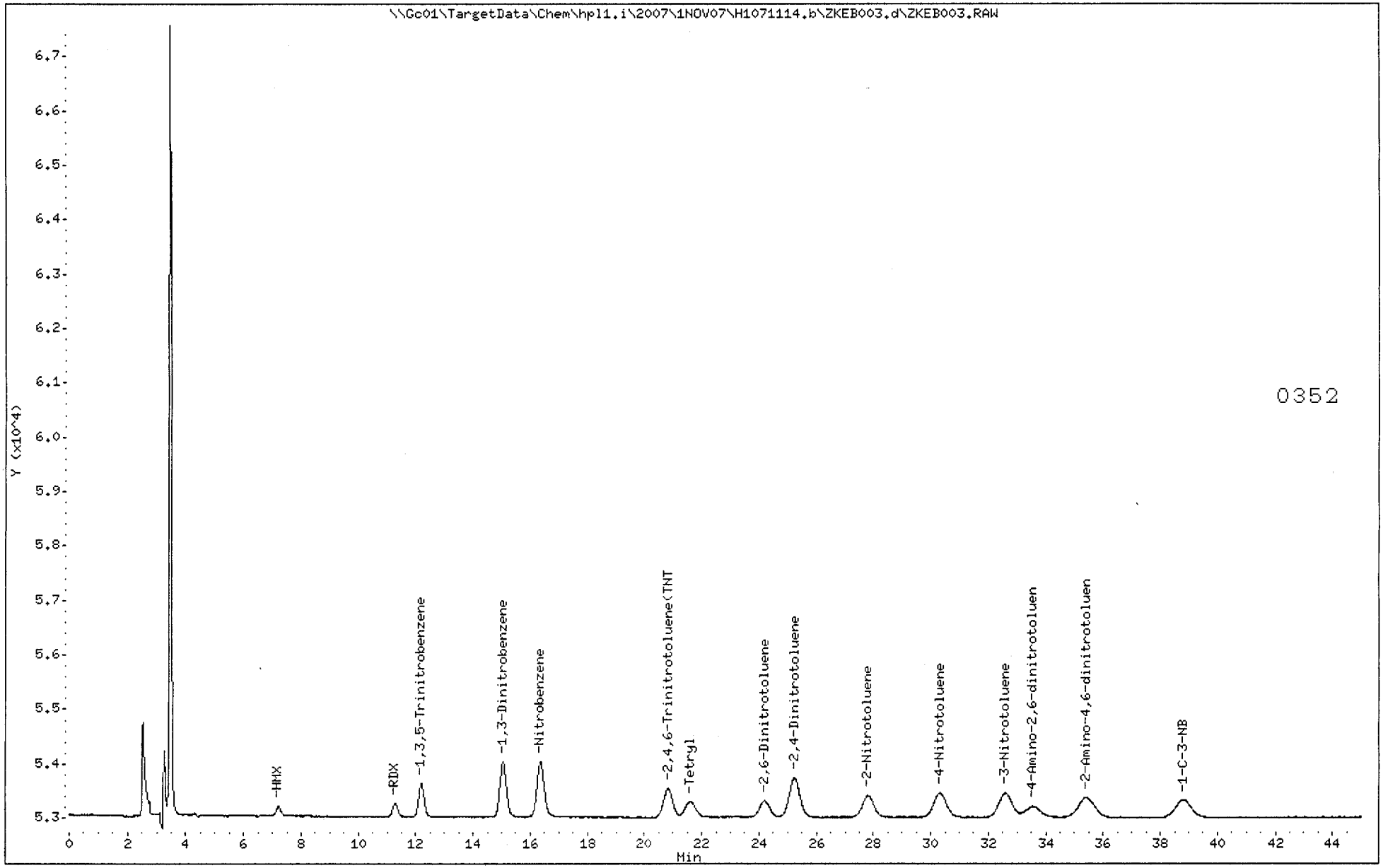
Client Name:
Lab Smp Id: LEVEL2
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 005

Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	43.1146	
121-82-4	RDX	52.5618	
99-35-4	1,3,5-Trinitrobenzene	51.5024	
99-65-0	1,3-Dinitrobenzene	50.6602	
98-95-3	Nitrobenzene	49.9182	
118-96-7	2,4,6-Trinitrotoluene(TNT)	52.3514	
479-45-8	Tetryl	50.6503	
606-20-2	2,6-Dinitrotoluene	51.0035	
121-14-2	2,4-Dinitrotoluene	50.0565	
88-72-2	2-Nitrotoluene	51.7592	
99-99-0	4-Nitrotoluene	49.1012	
99-08-1	3-Nitrotoluene	50.6035	
1946-51-0	4-Amino-2,6-dinitrotoluene	50.2085	
35572-78-2	2-Amino-4,6-dinitrotoluene	50.1306	
121-73-3	1-C-3-NB	50.1633	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB003.d
Date : 14-NOV-2007 13:41
Client ID:
Sample Info: LEVEL2
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0352

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA004.d
Lab Smp Id: LEVEL3
Inj Date : 14-NOV-2007 14:32
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL3
Misc Info : 006
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.233	7.216	0.017	41387	100.000	99.5852
2 RDX	11.325	11.250	0.075	28943	100.000	101.296
3 1,3,5-Trinitrobenzene	12.241	12.225	0.016	73646	100.000	100.126
4 1,3-Dinitrobenzene	15.108	15.050	0.058	60385	100.000	100.169
5 Nitrobenzene	16.425	16.358	0.067	14264	100.000	96.3269
6 2,4,6-Trinitrotoluene(TNT)	20.925	20.833	0.092	50692	100.000	98.9875
7 Tetryl	21.725	21.600	0.125	46660	100.000	99.2992
8 2,6-Dinitrotoluene	24.316	24.183	0.133	33009	100.000	98.4055
9 2,4-Dinitrotoluene	25.358	25.208	0.150	40689	100.000	98.9384
10 2-Nitrotoluene	27.950	27.783	0.167	13556	100.000	105.766
11 4-Nitrotoluene	30.475	30.283	0.192	8248	100.000	99.9666
12 3-Nitrotoluene	32.766	32.550	0.216	9691	100.000	90.4555
13 4-Amino-2,6-dinitrotoluene	33.733	33.483	0.250	64895	100.000	98.9986
14 2-Amino-4,6-dinitrotoluene	35.583	35.283	0.300	55121	100.000	98.2584
$ 15 1-C-3-NB	38.991	38.741	0.250	12223	100.000	97.0960

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL3
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 006

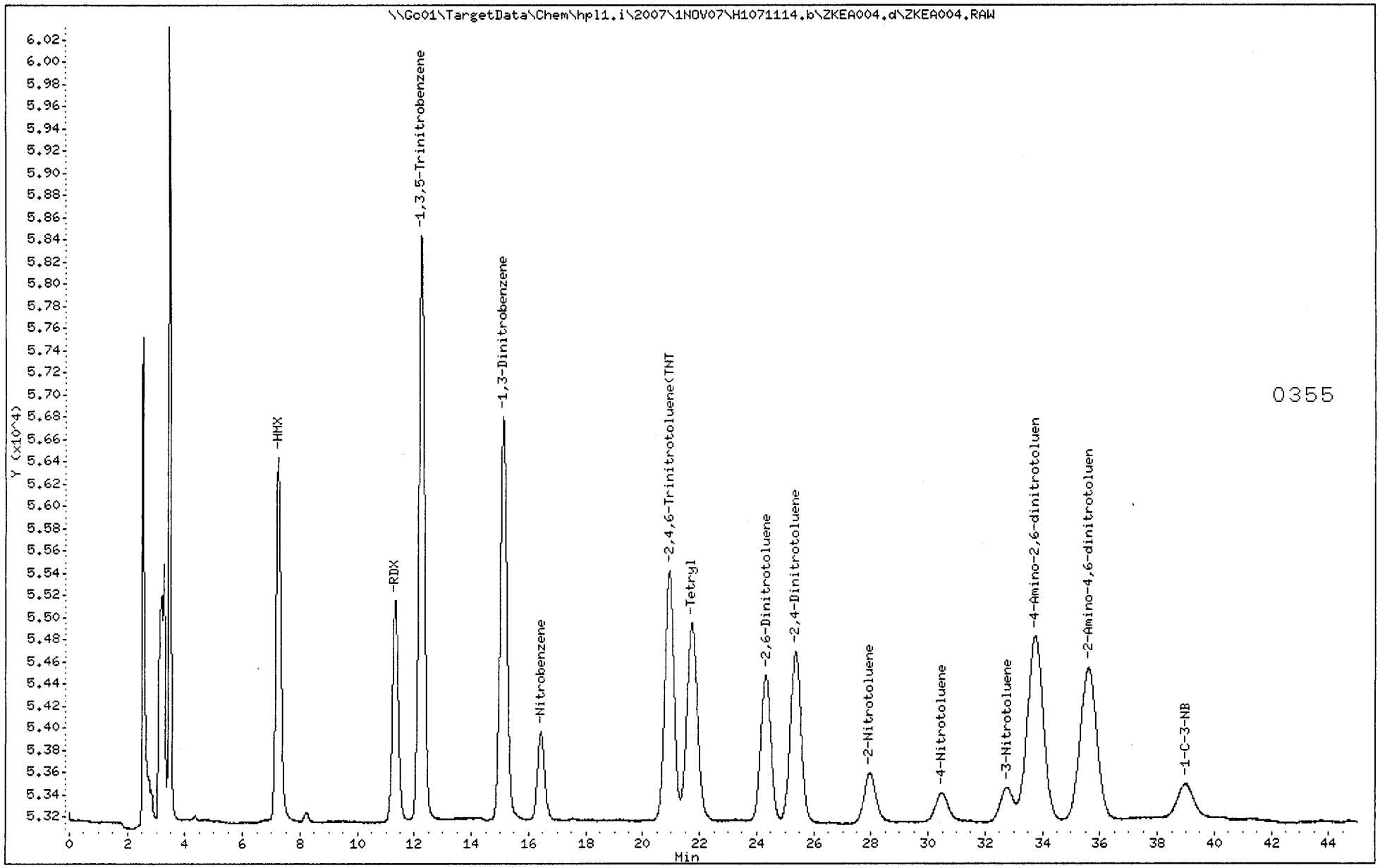
Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	99.5852	
121-82-4	RDX	101.296	
99-35-4	1,3,5-Trinitrobenzene	100.126	
99-65-0	1,3-Dinitrobenzene	100.169	
98-95-3	Nitrobenzene	96.3269	
118-96-7	2,4,6-Trinitrotoluene(TNT)	98.9875	
479-45-8	Tetryl	99.2992	
606-20-2	2,6-Dinitrotoluene	98.4055	
121-14-2	2,4-Dinitrotoluene	98.9384	
88-72-2	2-Nitrotoluene	105.766	
99-99-0	4-Nitrotoluene	99.9666	
99-08-1	3-Nitrotoluene	90.4555	
1946-51-0	4-Amino-2,6-dinitrotoluene	98.9986	
35572-78-2	2-Amino-4,6-dinitrotoluene	98.2584	
121-73-3	1-C-3-NB	97.0960	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA004.d
Date : 14-NOV-2007 14:32
Client ID:
Sample Info: LEVEL3
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB004.d
Lab Smp Id: LEVEL3
Inj Date : 14-NOV-2007 14:32
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL3
Misc Info : 006
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 13:41 Cal File: ZKEB003.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.233	7.233	0.000	4410	100.000	86.7802
2 RDX	11.316	11.316	0.000	7250	100.000	101.620
3 1,3,5-Trinitrobenzene	12.233	12.233	0.000	17044	100.000	100.001
4 1,3-Dinitrobenzene	15.108	15.108	0.000	33784	100.000	100.718
5 Nitrobenzene	16.425	16.425	0.000	37236	100.000	99.9598
6 2,4,6-Trinitrotoluene(TNT)	20.925	20.925	0.000	23817	100.000	98.8468
7 Tetryl	21.725	21.725	0.000	15331	100.000	100.886
8 2,6-Dinitrotoluene	24.316	24.316	0.000	15343	100.000	97.6963
9 2,4-Dinitrotoluene	25.350	25.350	0.000	38034	100.000	99.4905
10 2-Nitrotoluene	27.958	27.958	0.000	23106	100.000	100.711
11 4-Nitrotoluene	30.491	30.491	0.000	29159	100.000	100.150
12 3-Nitrotoluene	32.758	32.758	0.000	30532	100.000	101.553
13 4-Amino-2,6-dinitrotoluene	33.700	33.700	0.000	15630	100.000	101.903
14 2-Amino-4,6-dinitrotoluene	35.575	35.575	0.000	30596	100.000	100.749
$ 15 1-C-3-NB	38.991	38.991	0.000	26524	100.000	101.964

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL3
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 006

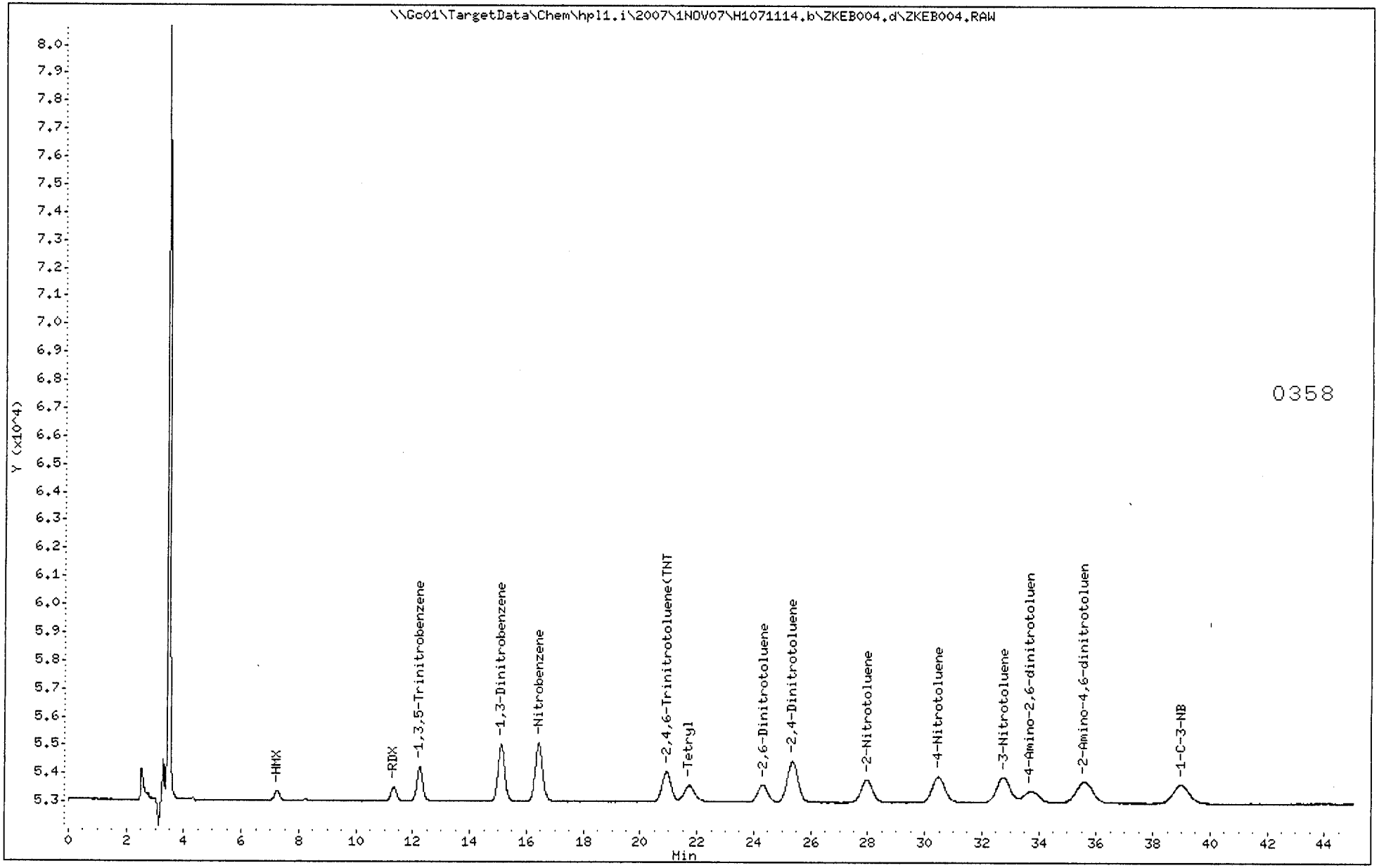
Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	86.7802	
121-82-4	RDX	101.620	
99-35-4	1,3,5-Trinitrobenzene	100.001	
99-65-0	1,3-Dinitrobenzene	100.718	
98-95-3	Nitrobenzene	99.9598	
118-96-7	2,4,6-Trinitrotoluene(TNT)	98.8468	
479-45-8	Tetryl	100.886	
606-20-2	2,6-Dinitrotoluene	97.6963	
121-14-2	2,4-Dinitrotoluene	99.4905	
88-72-2	2-Nitrotoluene	100.711	
99-99-0	4-Nitrotoluene	100.150	
99-08-1	3-Nitrotoluene	101.553	
1946-51-0	4-Amino-2,6-dinitrotoluene	101.903	
35572-78-2	2-Amino-4,6-dinitrotoluene	100.749	
121-73-3	1-C-3-NB	101.964	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB004.d
Date : 14-NOV-2007 14:32
Client ID:
Sample Info: LEVEL3
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0358

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA005.d
Lab Smp Id: LEVEL4
Inj Date : 14-NOV-2007 15:23
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL4
Misc Info : 007
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.241	7.216	0.025	105921	250.000	254.867
2 RDX	11.325	11.250	0.075	70934	250.000	248.257
3 1,3,5-Trinitrobenzene	12.250	12.225	0.025	184207	250.000	250.439
4 1,3-Dinitrobenzene	15.116	15.050	0.066	150943	250.000	250.390
5 Nitrobenzene	16.441	16.358	0.083	37942	250.000	256.228
6 2,4,6-Trinitrotoluene(TNT)	20.941	20.833	0.108	127264	250.000	248.512
7 Tetryl	21.741	21.600	0.141	118199	250.000	251.544
8 2,6-Dinitrotoluene	24.341	24.183	0.158	83579	250.000	249.163
9 2,4-Dinitrotoluene	25.375	25.208	0.167	102351	250.000	248.874
10 2-Nitrotoluene	27.975	27.783	0.192	31196	250.000	243.396
11 4-Nitrotoluene	30.508	30.283	0.225	21072	250.000	255.395
12 3-Nitrotoluene	32.783	32.550	0.233	25816	250.000	240.966
13 4-Amino-2,6-dinitrotoluene	33.766	33.483	0.283	162764	250.000	248.300
14 2-Amino-4,6-dinitrotoluene	35.616	35.283	0.333	140342	250.000	250.173
$ 15 1-C-3-NB	39.016	38.741	0.275	31254	250.000	248.273

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL4
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 007

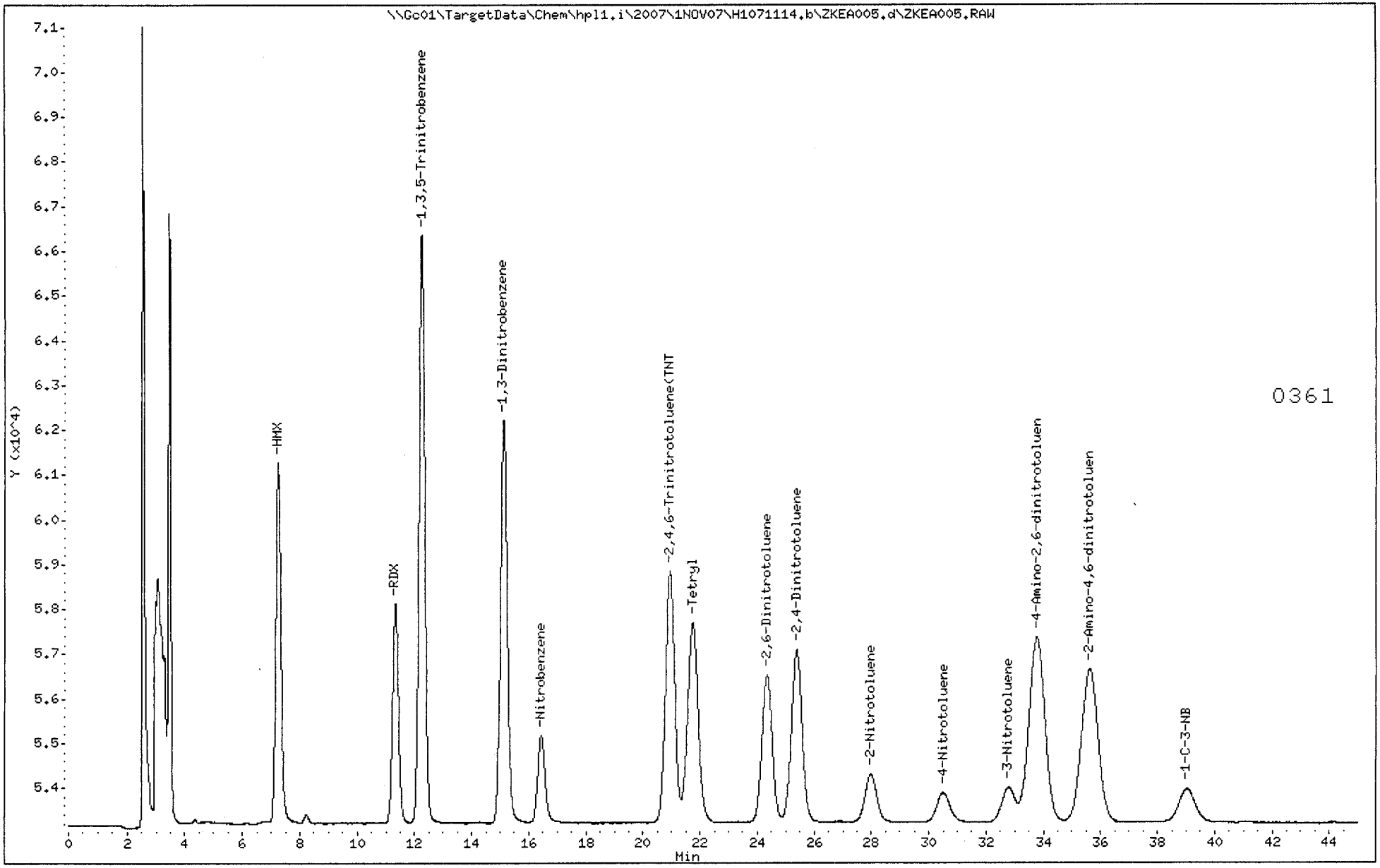
Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	254.867	
121-82-4	RDX	248.257	
99-35-4	1,3,5-Trinitrobenzene	250.439	
99-65-0	1,3-Dinitrobenzene	250.390	
98-95-3	Nitrobenzene	256.228	
118-96-7	2,4,6-Trinitrotoluene(TNT)	248.512	
479-45-8	Tetryl	251.544	
606-20-2	2,6-Dinitrotoluene	249.163	
121-14-2	2,4-Dinitrotoluene	248.874	
88-72-2	2-Nitrotoluene	243.396	
99-99-0	4-Nitrotoluene	255.395	
99-08-1	3-Nitrotoluene	240.966	
1946-51-0	4-Amino-2,6-dinitrotoluene	248.300	
35572-78-2	2-Amino-4,6-dinitrotoluene	250.173	
121-73-3	1-C-3-NB	248.273	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA005.d
Date : 14-NOV-2007 15:23
Client ID:
Sample Info: LEVEL4
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0361

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB005.d
Lab Smp Id: LEVEL4
Inj Date : 14-NOV-2007 15:23
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL4
Misc Info : 007
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 14:32 Cal File: ZKEB004.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.241	7.241	0.000	11778	250.000	231.768
2 RDX	11.325	11.325	0.000	17324	250.000	242.822
3 1,3,5-Trinitrobenzene	12.241	12.241	0.000	41705	250.000	244.692
4 1,3-Dinitrobenzene	15.116	15.116	0.000	83409	250.000	248.662
5 Nitrobenzene	16.433	16.433	0.000	93023	250.000	249.720
6 2,4,6-Trinitrotoluene(TNT)	20.933	20.933	0.000	59778	250.000	248.094
7 Tetryl	21.750	21.750	0.000	38065	250.000	250.488
8 2,6-Dinitrotoluene	24.341	24.341	0.000	39197	250.000	249.586
9 2,4-Dinitrotoluene	25.375	25.375	0.000	96233	250.000	251.729
10 2-Nitrotoluene	27.966	27.966	0.000	56615	250.000	246.766
11 4-Nitrotoluene	30.500	30.500	0.000	73122	250.000	251.145
12 3-Nitrotoluene	32.766	32.766	0.000	77046	250.000	256.264
13 4-Amino-2,6-dinitrotoluene	33.750	33.750	0.000	38516	250.000	251.114
14 2-Amino-4,6-dinitrotoluene	35.616	35.616	0.000	75680	250.000	249.204
$ 15 1-C-3-NB	39.025	39.025	0.000	65510	250.000	251.835

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

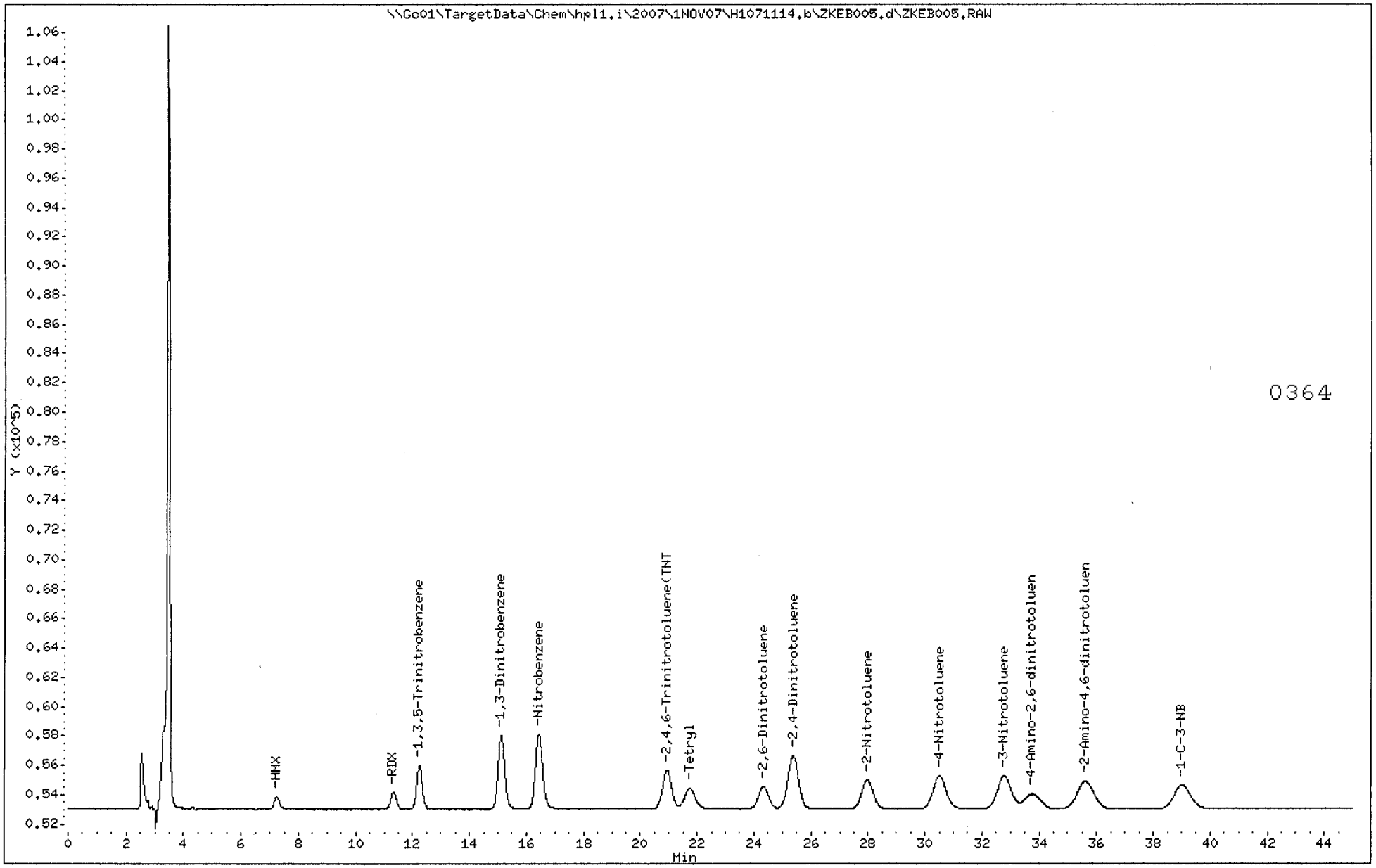
Client Name:
Lab Smp Id: LEVEL4
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 007

Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	231.768	
121-82-4	RDX	242.822	
99-35-4	1,3,5-Trinitrobenzene	244.692	
99-65-0	1,3-Dinitrobenzene	248.662	
98-95-3	Nitrobenzene	249.720	
118-96-7	2,4,6-Trinitrotoluene(TNT)	248.094	
479-45-8	Tetryl	250.488	
606-20-2	2,6-Dinitrotoluene	249.586	
121-14-2	2,4-Dinitrotoluene	251.729	
88-72-2	2-Nitrotoluene	246.766	
99-99-0	4-Nitrotoluene	251.145	
99-08-1	3-Nitrotoluene	256.264	
1946-51-0	4-Amino-2,6-dinitrotoluene	251.114	
35572-78-2	2-Amino-4,6-dinitrotoluene	249.204	
121-73-3	1-C-3-NB	251.835	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB005.d
Date : 14-NOV-2007 15:23
Client ID:
Sample Info: LEVEL4
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0364

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA006.d
Lab Smp Id: LEVEL5
Inj Date : 14-NOV-2007 16:13
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL5
Misc Info : 008
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.241	7.216	0.025	205464	500.000	494.387
2 RDX	11.325	11.250	0.075	141997	500.000	496.966
3 1,3,5-Trinitrobenzene	12.258	12.225	0.033	364707	500.000	495.839
4 1,3-Dinitrobenzene	15.125	15.050	0.075	300544	500.000	498.554
5 Nitrobenzene	16.441	16.358	0.083	74177	500.000	500.928
6 2,4,6-Trinitrotoluene(TNT)	20.950	20.833	0.117	254136	500.000	496.258
7 Tetryl	21.750	21.600	0.150	229218	500.000	487.809
8 2,6-Dinitrotoluene	24.350	24.183	0.167	166989	500.000	497.823
9 2,4-Dinitrotoluene	25.391	25.208	0.183	204293	500.000	496.754
10 2-Nitrotoluene	27.983	27.783	0.200	62276	500.000	485.886
11 4-Nitrotoluene	30.516	30.283	0.233	41201	500.000	499.360
12 3-Nitrotoluene	32.808	32.550	0.258	49772	500.000	464.570
13 4-Amino-2,6-dinitrotoluene	33.766	33.483	0.283	324389	500.000	494.862
14 2-Amino-4,6-dinitrotoluene	35.625	35.283	0.342	279260	500.000	497.807
$ 15 1-C-3-NB	39.058	38.741	0.317	62541	500.000	496.808

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL5
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 008

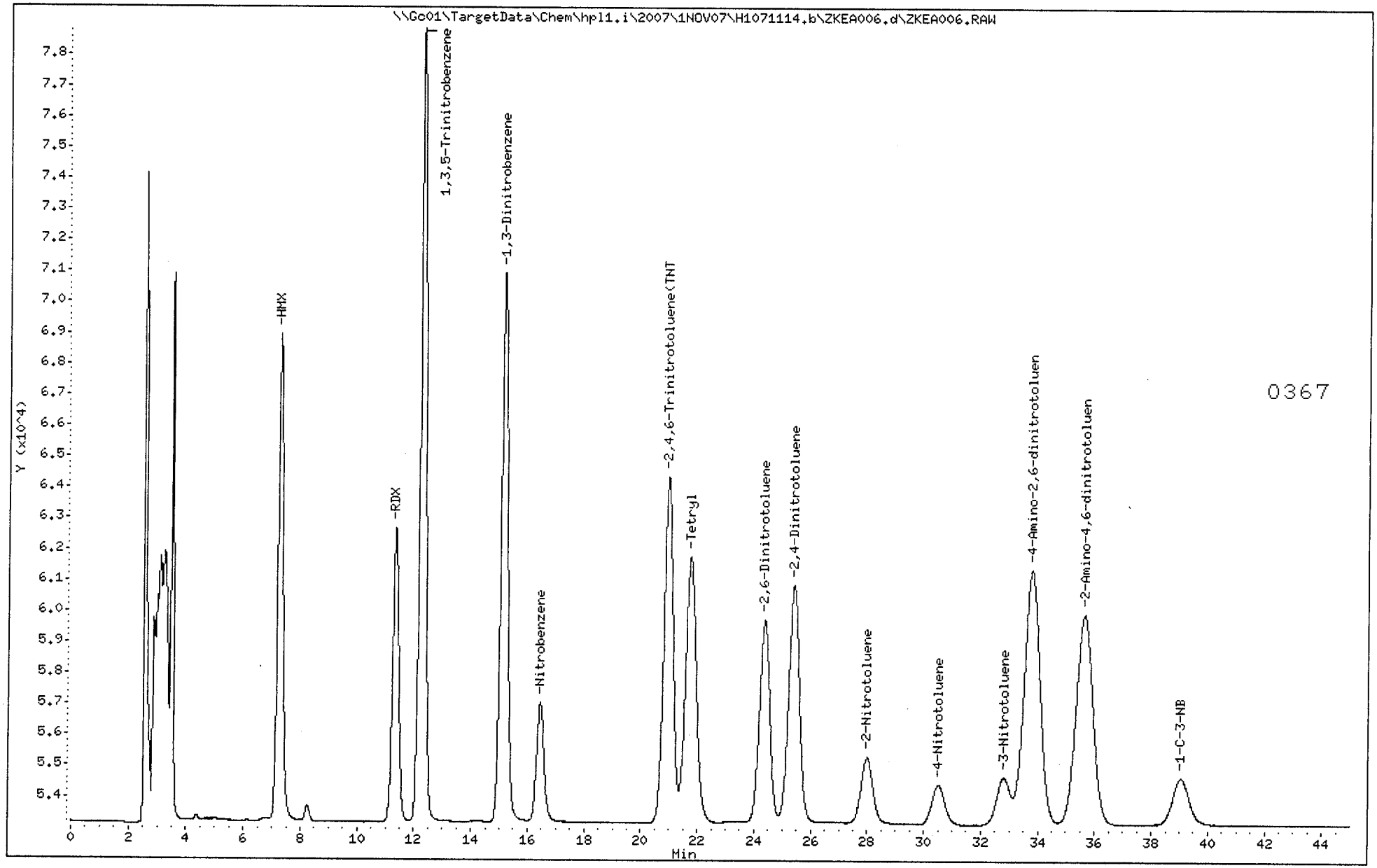
Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	494.387	
121-82-4	RDX	496.966	
99-35-4	1,3,5-Trinitrobenzene	495.839	
99-65-0	1,3-Dinitrobenzene	498.554	
98-95-3	Nitrobenzene	500.928	
118-96-7	2,4,6-Trinitrotoluene(TNT)	496.258	
479-45-8	Tetryl	487.809	
606-20-2	2,6-Dinitrotoluene	497.823	
121-14-2	2,4-Dinitrotoluene	496.754	
88-72-2	2-Nitrotoluene	485.886	
99-99-0	4-Nitrotoluene	499.360	
99-08-1	3-Nitrotoluene	464.570	
1946-51-0	4-Amino-2,6-dinitrotoluene	494.862	
35572-78-2	2-Amino-4,6-dinitrotoluene	497.807	
121-73-3	1-C-3-NB	496.808	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA006.d
Date : 14-NOV-2007 16:13
Client ID:
Sample Info: LEVEL5
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0367

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB006.d
Lab Smp Id: LEVEL5
Inj Date : 14-NOV-2007 16:13
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL5
Misc Info : 008
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 15:23 Cal File: ZKEB005.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.241	7.241	0.000	25571	500.000	503.187
2 RDX	11.325	11.325	0.000	34264	500.000	480.261
3 1,3,5-Trinitrobenzene	12.250	12.250	0.000	82239	500.000	482.514
4 1,3-Dinitrobenzene	15.116	15.116	0.000	165898	500.000	494.582
5 Nitrobenzene	16.433	16.433	0.000	186207	500.000	499.872
6 2,4,6-Trinitrotoluene(TNT)	20.950	20.950	0.000	118766	500.000	492.910
7 Tetryl	21.750	21.750	0.000	75576	500.000	497.330
8 2,6-Dinitrotoluene	24.350	24.350	0.000	76352	500.000	486.170
9 2,4-Dinitrotoluene	25.383	25.383	0.000	190792	500.000	499.080
10 2-Nitrotoluene	27.975	27.975	0.000	112171	500.000	488.917
11 4-Nitrotoluene	30.508	30.508	0.000	146184	500.000	502.085
12 3-Nitrotoluene	32.791	32.791	0.000	152696	500.000	507.884
13 4-Amino-2,6-dinitrotoluene	33.766	33.766	0.000	78324	500.000	510.652
14 2-Amino-4,6-dinitrotoluene	35.616	35.616	0.000	152063	500.000	500.724
$ 15 1-C-3-NB	39.033	39.033	0.000	131534	500.000	505.646

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL5
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 008

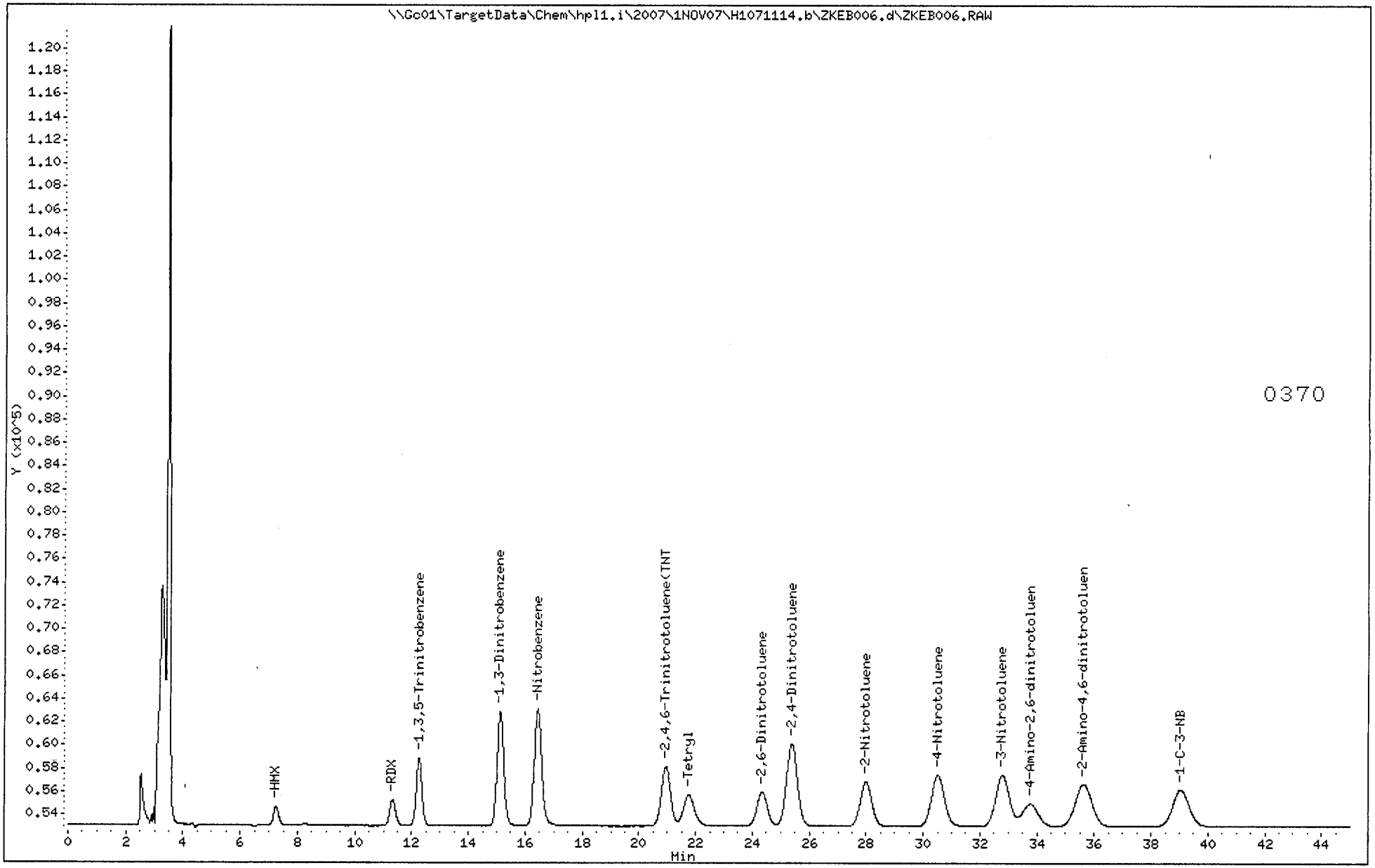
Client SDG: H1071114.b

Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	503.187	
121-82-4	RDX	480.261	
99-35-4	1,3,5-Trinitrobenzene	482.514	
99-65-0	1,3-Dinitrobenzene	494.582	
98-95-3	Nitrobenzene	499.872	
118-96-7	2,4,6-Trinitrotoluene(TNT)	492.910	
479-45-8	Tetryl	497.330	
606-20-2	2,6-Dinitrotoluene	486.170	
121-14-2	2,4-Dinitrotoluene	499.080	
88-72-2	2-Nitrotoluene	488.917	
99-99-0	4-Nitrotoluene	502.085	
99-08-1	3-Nitrotoluene	507.884	
1946-51-0	4-Amino-2,6-dinitrotoluene	510.652	
35572-78-2	2-Amino-4,6-dinitrotoluene	500.724	
121-73-3	1-C-3-NB	505.646	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB006.d
Date : 14-NOV-2007 16:13
Client ID:
Sample Info: LEVEL5
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA007.d
Lab Smp Id: LEVEL6
Inj Date : 14-NOV-2007 17:04
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL6
Misc Info : 009
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.250	7.216	0.034	409965	1000.00	986.456
2 RDX	11.325	11.250	0.075	284150	1000.00	994.478
3 1,3,5-Trinitrobenzene	12.275	12.225	0.050	729713	1000.00	992.084
4 1,3-Dinitrobenzene	15.133	15.050	0.083	600239	1000.00	995.699
5 Nitrobenzene	16.450	16.358	0.092	146858	1000.00	991.754
6 2,4,6-Trinitrotoluene(TNT)	20.983	20.833	0.150	507472	1000.00	990.953
7 Tetryl	21.775	21.600	0.175	455364	1000.00	969.080
8 2,6-Dinitrotoluene	24.383	24.183	0.200	336027	1000.00	1001.75
9 2,4-Dinitrotoluene	25.416	25.208	0.208	412107	1000.00	1002.07
10 2-Nitrotoluene	28.025	27.783	0.242	123057	1000.00	960.108
11 4-Nitrotoluene	30.533	30.283	0.250	61117	1000.00	740.744
12 3-Nitrotoluene	32.825	32.550	0.275	97409	1000.00	909.213
13 4-Amino-2,6-dinitrotoluene	33.775	33.483	0.292	647118	1000.00	987.191
14 2-Amino-4,6-dinitrotoluene	35.608	35.283	0.325	557206	1000.00	993.272
$ 15 1-C-3-NB	39.058	38.741	0.317	121242	1000.00	963.112

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL6
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 009

Client SDG: H1071114.b

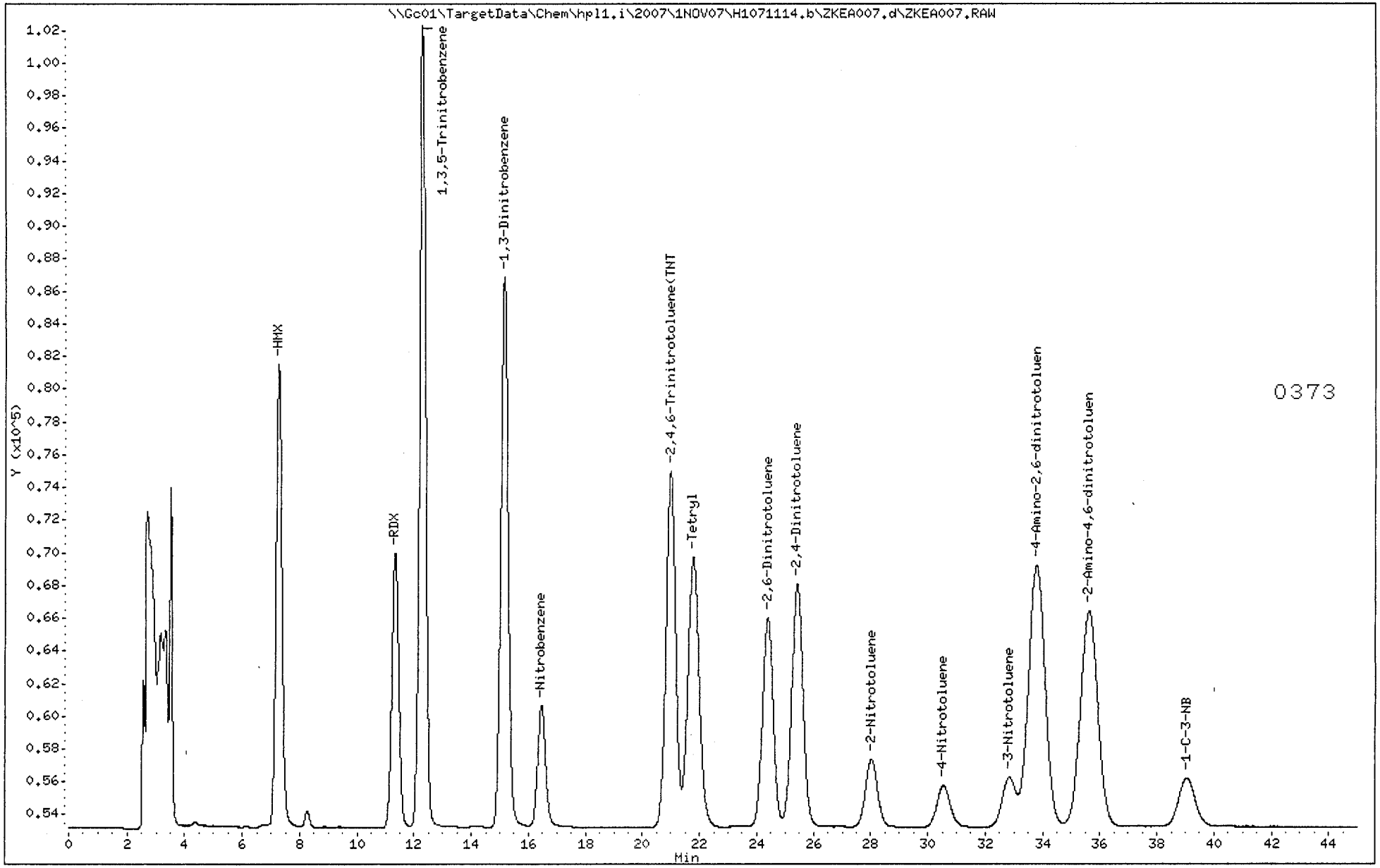
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	986.456	
121-82-4	RDX	994.478	
99-35-4	1,3,5-Trinitrobenzene	992.084	
99-65-0	1,3-Dinitrobenzene	995.699	
98-95-3	Nitrobenzene	991.754	
118-96-7	2,4,6-Trinitrotoluene(TNT)	990.953	
479-45-8	Tetryl	969.080	
606-20-2	2,6-Dinitrotoluene	1001.75	
121-14-2	2,4-Dinitrotoluene	1002.07	
88-72-2	2-Nitrotoluene	960.108	
99-99-0	4-Nitrotoluene	740.744	
99-08-1	3-Nitrotoluene	909.213	
1946-51-0	4-Amino-2,6-dinitrotoluene	987.191	
35572-78-2	2-Amino-4,6-dinitrotoluene	993.272	
121-73-3	1-C-3-NB	963.112	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA007.d
Date : 14-NOV-2007 17:04
Client ID:
Sample Info: LEVEL6
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB007.d
Lab Smp Id: LEVEL6
Inj Date : 14-NOV-2007 17:04
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL6
Misc Info : 009
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 16:13 Cal File: ZKEB006.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.250	7.250	0.000	52818	1000.00	1039.35
2 RDX	11.325	11.325	0.000	68665	1000.00	962.442
3 1,3,5-Trinitrobenzene	12.266	12.266	0.000	165261	1000.00	969.622
4 1,3-Dinitrobenzene	15.133	15.133	0.000	332800	1000.00	992.156
5 Nitrobenzene	16.450	16.450	0.000	377461	1000.00	1013.29
6 2,4,6-Trinitrotoluene(TNT)	20.983	20.983	0.000	235646	1000.00	977.992
7 Tetryl	21.775	21.775	0.000	149662	1000.00	984.854
8 2,6-Dinitrotoluene	24.383	24.383	0.000	152511	1000.00	971.111
9 2,4-Dinitrotoluene	25.416	25.416	0.000	382313	1000.00	1000.07
10 2-Nitrotoluene	28.025	28.025	0.000	224792	1000.00	979.795
11 4-Nitrotoluene	30.533	30.533	0.000	289894	1000.00	995.672
12 3-Nitrotoluene	32.816	32.816	0.000	305039	1000.00	1014.59
13 4-Amino-2,6-dinitrotoluene	33.766	33.766	0.000	153678	1000.00	1001.94
14 2-Amino-4,6-dinitrotoluene	35.608	35.608	0.000	301532	1000.00	992.906
$ 15 1-C-3-NB	39.050	39.050	0.000	262376	1000.00	1008.63

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

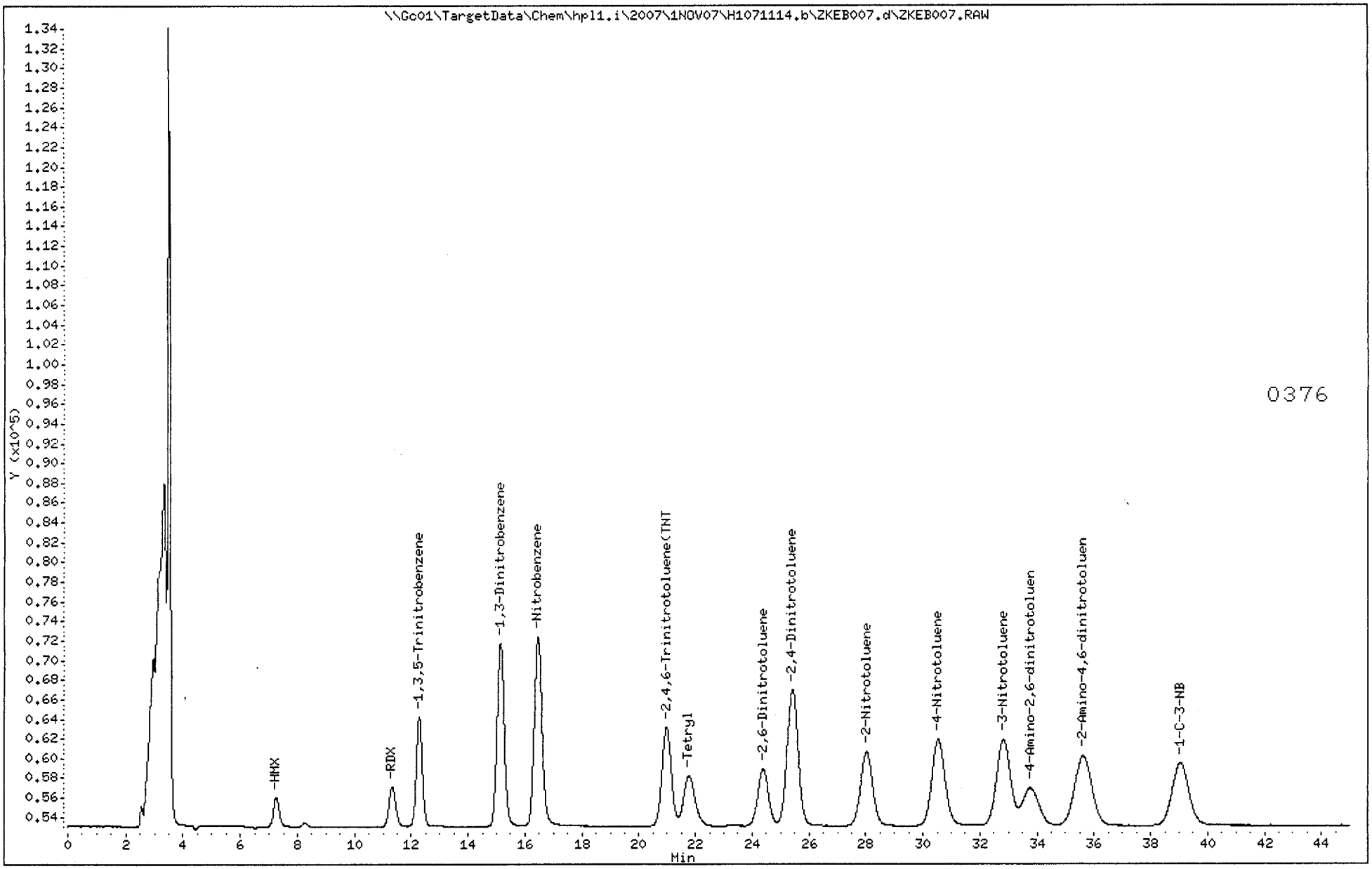
Client Name:
Lab Smp Id: LEVEL6
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 009

Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1039.35	
121-82-4	RDX	962.442	
99-35-4	1,3,5-Trinitrobenzene	969.622	
99-65-0	1,3-Dinitrobenzene	992.156	
98-95-3	Nitrobenzene	1013.29	
118-96-7	2,4,6-Trinitrotoluene(TNT)	977.992	
479-45-8	Tetryl	984.854	
606-20-2	2,6-Dinitrotoluene	971.111	
121-14-2	2,4-Dinitrotoluene	1000.07	
88-72-2	2-Nitrotoluene	979.795	
99-99-0	4-Nitrotoluene	995.672	
99-08-1	3-Nitrotoluene	1014.59	
1946-51-0	4-Amino-2,6-dinitrotoluene	1001.94	
35572-78-2	2-Amino-4,6-dinitrotoluene	992.906	
121-73-3	1-C-3-NB	1008.63	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB007.d
Date : 14-NOV-2007 17:04
Client ID:
Sample Info: LEVEL6
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA008.d
Lab Smp Id: LEVEL7
Inj Date : 14-NOV-2007 17:55
Operator : ELC Inst ID: hpl1.i
Smp Info : LEVEL7
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 29-Nov-2007 09:17 jhall Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.216	7.216	0.000	801458	2000.00	1928.46
2 RDX	11.258	11.250	0.008	555151	2000.00	1942.94
3 1,3,5-Trinitrobenzene	12.233	12.225	0.008	1434947	2000.00	1950.89
4 1,3-Dinitrobenzene	15.066	15.050	0.016	1181228	2000.00	1959.46
5 Nitrobenzene	16.366	16.358	0.008	293407	2000.00	1981.42
6 2,4,6-Trinitrotoluene(TNT)	20.883	20.833	0.050	993848	2000.00	1940.71
7 Tetryl	21.641	21.600	0.041	892030	2000.00	1898.37
8 2,6-Dinitrotoluene	24.233	24.183	0.050	655696	2000.00	1954.74
9 2,4-Dinitrotoluene	25.258	25.208	0.050	803766	2000.00	1954.42
10 2-Nitrotoluene	27.841	27.783	0.058	240313	2000.00	1874.96
11 4-Nitrotoluene	30.341	30.283	0.058	163092	2000.00	1976.69
12 3-Nitrotoluene	32.625	32.550	0.075	173143	2000.00	1616.11
13 4-Amino-2,6-dinitrotoluene	33.500	33.483	0.017	1289915	2000.00	1967.79
14 2-Amino-4,6-dinitrotoluene	35.325	35.283	0.042	1093033	2000.00	1948.43
$ 15 1-C-3-NB	38.808	38.741	0.067	239900	2000.00	1905.70

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

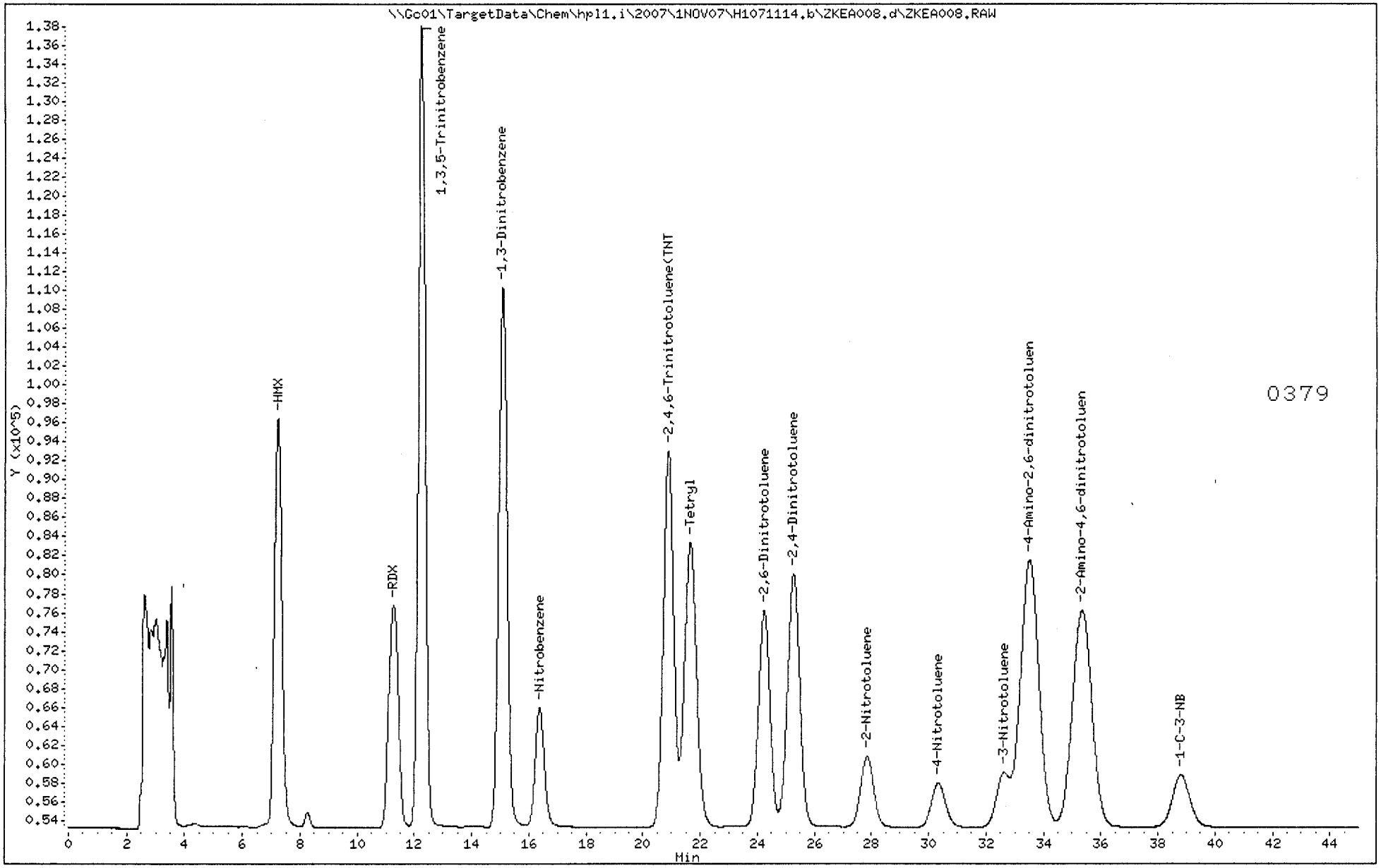
Client Name:
Lab Smp Id: LEVEL7
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 010

Client SDG: H1071114.b
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1928.46	
121-82-4	RDX	1942.94	
99-35-4	1,3,5-Trinitrobenzene	1950.89	
99-65-0	1,3-Dinitrobenzene	1959.46	
98-95-3	Nitrobenzene	1981.42	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1940.71	
479-45-8	Tetryl	1898.37	
606-20-2	2,6-Dinitrotoluene	1954.74	
121-14-2	2,4-Dinitrotoluene	1954.42	
88-72-2	2-Nitrotoluene	1874.96	
99-99-0	4-Nitrotoluene	1976.69	
99-08-1	3-Nitrotoluene	1616.11	
1946-51-0	4-Amino-2,6-dinitrotoluene	1967.79	
35572-78-2	2-Amino-4,6-dinitrotoluene	1948.43	
121-73-3	1-C-3-NB	1905.70	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA008.d
Date : 14-NOV-2007 17:55
Client ID:
Sample Info: LEVEL7
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB008.d
Lab Smp Id: LEVEL7
Inj Date : 14-NOV-2007 17:55
Operator : ELC
Smp Info : LEVEL7
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i
Cal Date : 14-NOV-2007 17:04
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 4.12
Processing Host: WMMS014

Inst ID: hpl1.i

Quant Type: ESTD
Cal File: ZKEB007.d
Calibration Sample, Level: 7

Compound Sublist: all.sub

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.216	7.216	0.000	99869	2000.00	1965.23
2 RDX	11.258	11.258	0.000	133946	2000.00	1877.45
3 1,3,5-Trinitrobenzene	12.233	12.233	0.000	324021	2000.00	1901.10
4 1,3-Dinitrobenzene	15.066	15.066	0.000	651969	2000.00	1943.68
5 Nitrobenzene	16.366	16.366	0.000	741082	2000.00	1989.43
6 2,4,6-Trinitrotoluene(TNT)	20.875	20.875	0.000	463202	2000.00	1922.41
7 Tetryl	21.641	21.641	0.000	289642	2000.00	1906.00
8 2,6-Dinitrotoluene	24.225	24.225	0.000	301405	2000.00	1919.19
9 2,4-Dinitrotoluene	25.250	25.250	0.000	756050	2000.00	1977.70
10 2-Nitrotoluene	27.833	27.833	0.000	442679	2000.00	1929.49
11 4-Nitrotoluene	30.325	30.325	0.000	569836	2000.00	1957.16
12 3-Nitrotoluene	32.600	32.600	0.000	612189	2000.00	2036.21(A)
13 4-Amino-2,6-dinitrotoluene	33.483	33.483	0.000	291145	2000.00	1898.19
14 2-Amino-4,6-dinitrotoluene	35.325	35.325	0.000	592275	2000.00	1950.28
$ 15 1-C-3-NB	38.800	38.800	0.000	518120	2000.00	1991.77

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: LEVEL7
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: 010

Client SDG: H1071114.b

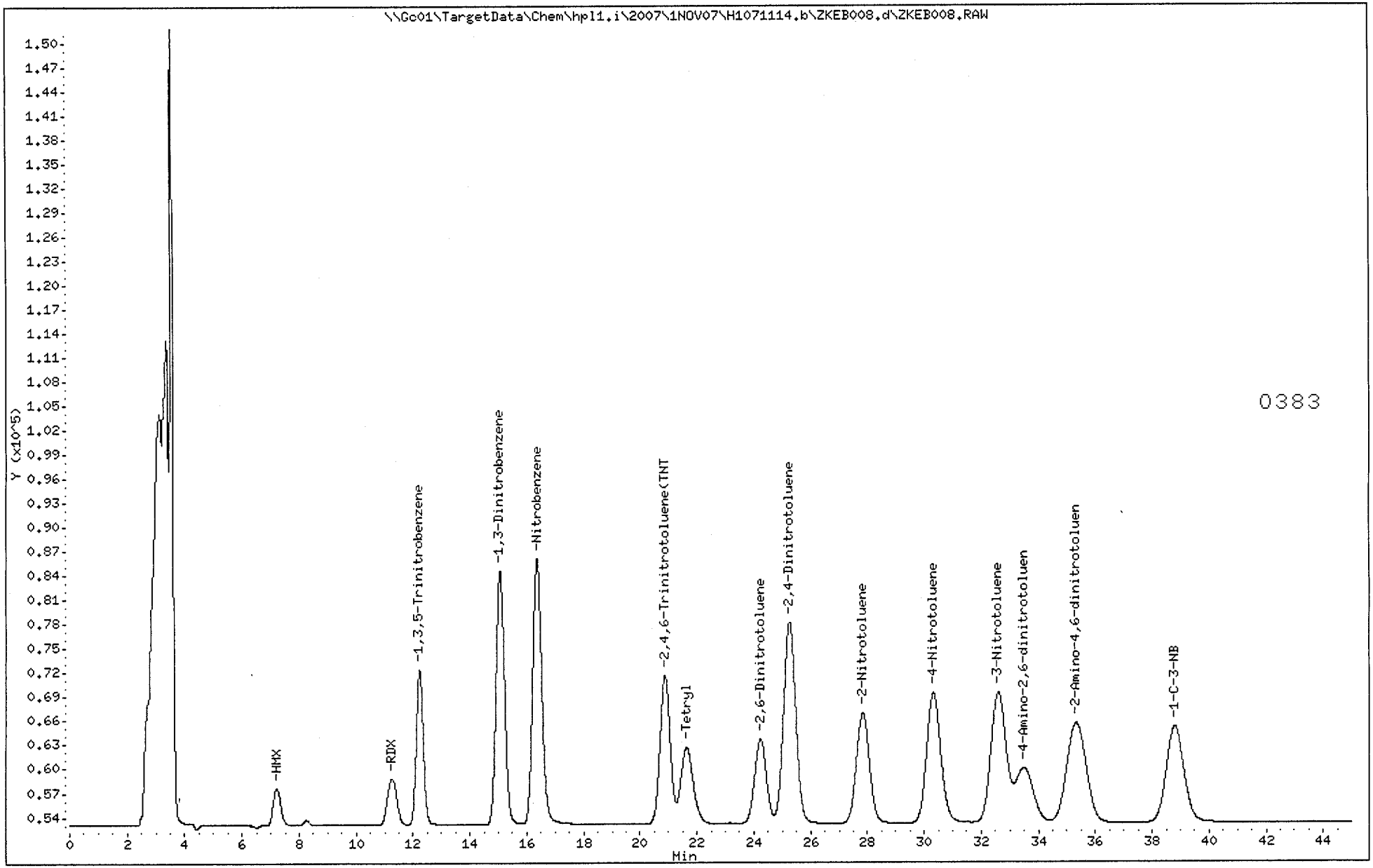
Sample Point:
Date Received: 07-NOV-2001
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1965.23	
121-82-4	RDX	1877.45	
99-35-4	1,3,5-Trinitrobenzene	1901.10	
99-65-0	1,3-Dinitrobenzene	1943.68	
98-95-3	Nitrobenzene	1989.43	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1922.41	
479-45-8	Tetryl	1906.00	
606-20-2	2,6-Dinitrotoluene	1919.19	
121-14-2	2,4-Dinitrotoluene	1977.70	
88-72-2	2-Nitrotoluene	1929.49	
99-99-0	4-Nitrotoluene	1957.16	
99-08-1	3-Nitrotoluene	2036.21	E
1946-51-0	4-Amino-2,6-dinitrotoluene	1898.19	
35572-78-2	2-Amino-4,6-dinitrotoluene	1950.28	
121-73-3	1-C-3-NB	1991.77	

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB008.d
Date : 14-NOV-2007 17:55
Client ID:
Sample Info: LEVEL7
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA009.d
Lab Smp Id: 2nd Source CCV
Inj Date : 14-NOV-2007 18:46
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 011
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_co
Meth Date : 17-Jan-2008 13:51 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.216	7.216	0.000	37532	100.000	90.3094(M)
2 RDX	11.250	11.250	0.000	27046	100.000	94.6565
3 1,3,5-Trinitrobenzene	12.225	12.225	0.000	67794	100.000	92.1696
4 1,3-Dinitrobenzene	15.050	15.050	0.000	55724	100.000	92.4370
5 Nitrobenzene	16.358	16.358	0.000	13922	100.000	94.0173
6 2,4,6-Trinitrotoluene(TNT)	20.833	20.833	0.000	47020	100.000	91.8171
7 Tetryl	21.600	21.600	0.000	44582	100.000	94.8769
8 2,6-Dinitrotoluene	24.183	24.183	0.000	31068	100.000	92.6191
9 2,4-Dinitrotoluene	25.208	25.208	0.000	37810	100.000	91.9379
10 2-Nitrotoluene	27.783	27.783	0.000	12401	100.000	96.7544
11 4-Nitrotoluene	30.283	30.283	0.000	8836	100.000	107.093
12 3-Nitrotoluene	32.550	32.550	0.000	8353	100.000	77.9667
13 4-Amino-2,6-dinitrotoluene	33.483	33.483	0.000	60924	100.000	92.9408
14 2-Amino-4,6-dinitrotoluene	35.283	35.283	0.000	51872	100.000	92.4667
$ 15 1-C-3-NB	38.741	38.741	0.000	12289	100.000	97.6203

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 14-NOV-2007 18:46
Lab File ID: ZKEA009.d Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 12:50 17:55
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_235_conf.m

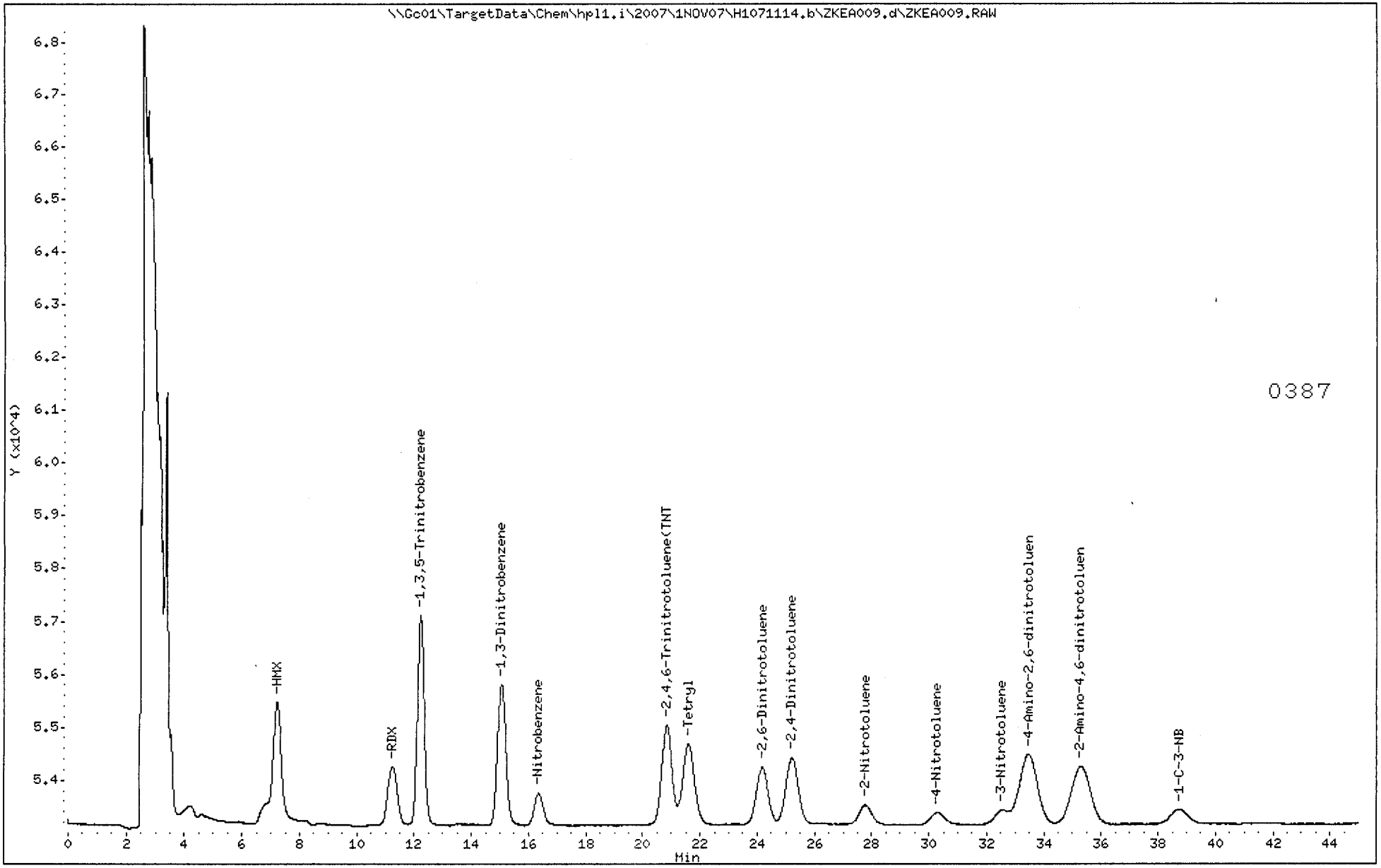
COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	416	375	0.010	-9.69065	15.00000	Averaged	
2 RDX	286	270	0.010	-5.34352	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	736	678	0.010	-7.83042	15.00000	Averaged	
4 1,3-Dinitrobenzene	603	557	0.010	-7.56295	15.00000	Averaged	
5 Nitrobenzene	148	139	0.010	-5.98266	15.00000	Averaged	
6 2,4,6-Trinitrotoluene(TNT)	512	470	0.010	-8.18287	15.00000	Averaged	
7 Tetryl	470	446	0.010	-5.12308	15.00000	Averaged	
8 2,6-Dinitrotoluene	335	311	0.010	-7.38092	15.00000	Averaged	
9 2,4-Dinitrotoluene	411	378	0.010	-8.06207	15.00000	Averaged	
10 2-Nitrotoluene	128	124	0.010	-3.24564	15.00000	Averaged	
11 4-Nitrotoluene	82.50757	88.36000	0.010	7.09320	15.00000	Averaged	
12 3-Nitrotoluene	107	83.53000	0.010	-22.03331	15.00000	Averaged	<-
13 4-Amino-2,6-dinitrotoluene	656	609	0.010	-7.05922	15.00000	Averaged	
14 2-Amino-4,6-dinitrotoluene	561	519	0.010	-7.53326	15.00000	Averaged	
$ 15 1-C-3-NB	126	123	0.010	-2.37971	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 7.63356
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEA009.d
Date : 14-NOV-2007 18:46
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0387

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB009.d
Lab Smp Id: 2nd Source CCV
Inj Date : 14-NOV-2007 18:46
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 011
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_co
Meth Date : 17-Jan-2008 13:52 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.191	7.191	0.000	15075	100.000	296.646
2 RDX	11.233	11.233	0.000	6913	100.000	96.8959
3 1,3,5-Trinitrobenzene	12.225	12.225	0.000	15421	100.000	90.4784
4 1,3-Dinitrobenzene	15.050	15.050	0.000	30915	100.000	92.1650
5 Nitrobenzene	16.350	16.350	0.000	35787	100.000	96.0700
6 2,4,6-Trinitrotoluene(TNT)	20.825	20.825	0.000	22049	100.000	91.5091
7 Tetryl	21.600	21.600	0.000	14764	100.000	97.1549
8 2,6-Dinitrotoluene	24.158	24.158	0.000	14216	100.000	90.5201
9 2,4-Dinitrotoluene	25.208	25.208	0.000	35015	100.000	91.5933
10 2-Nitrotoluene	27.791	27.791	0.000	21832	100.000	95.1585
11 4-Nitrotoluene	30.275	30.275	0.000	27814	100.000	95.5302
12 3-Nitrotoluene	32.550	32.550	0.000	30280	100.000	100.715
13 4-Amino-2,6-dinitrotoluene	33.425	33.425	0.000	14187	100.000	92.4955
14 2-Amino-4,6-dinitrotoluene	35.283	35.283	0.000	28599	100.000	94.1728
$ 15 1-C-3-NB	38.741	38.741	0.000	25131	100.000	96.6092

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 14-NOV-2007 18:46
Lab File ID: ZKEB009.d Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 12:50 17:55
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\8330_265_conf.m

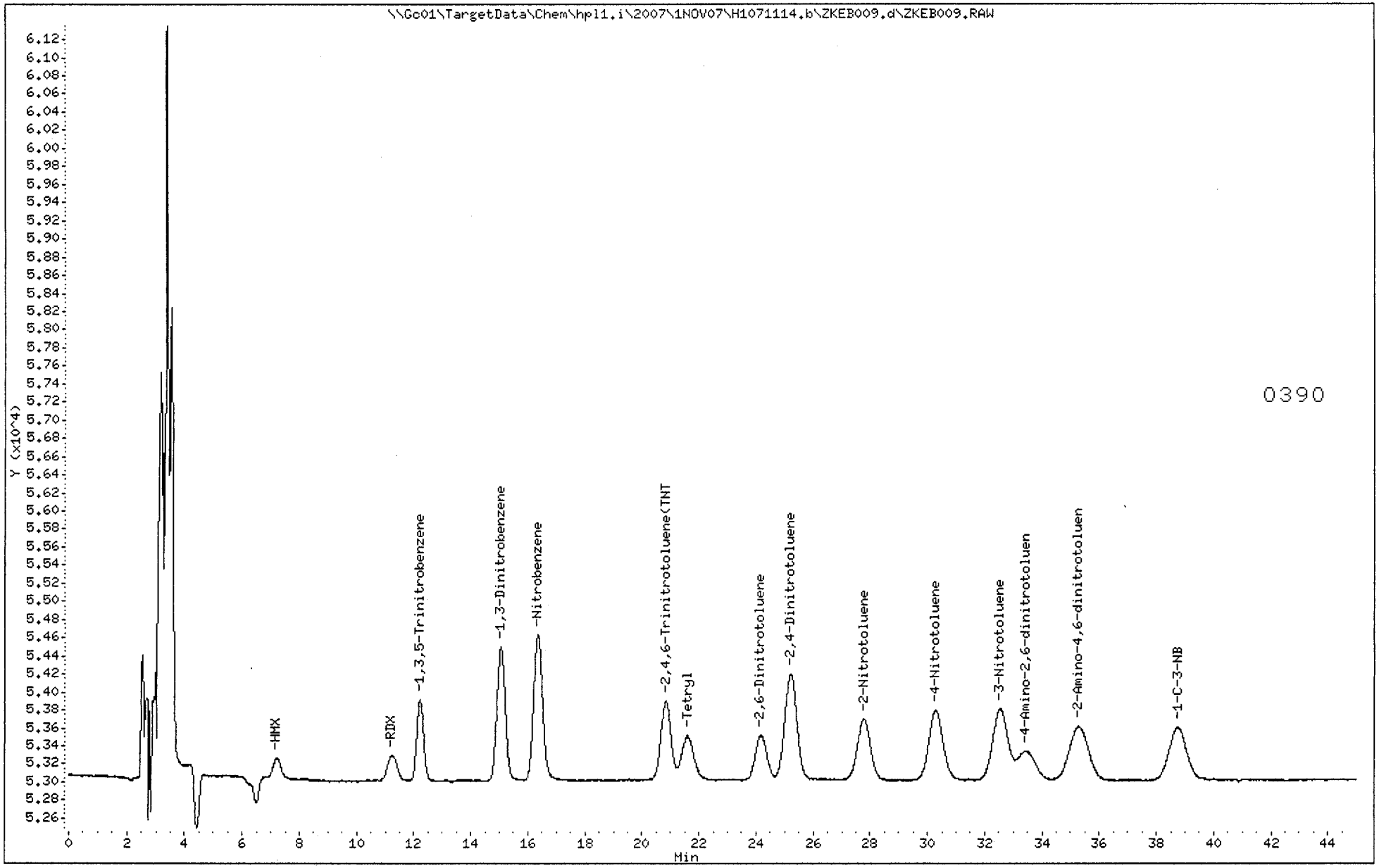
COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	50.81807	151	0.010	197	15.00000	Averaged	<-
2 RDX	71.34457	69.13000	0.010	-3.10405	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	170	154	0.010	-9.52162	15.00000	Averaged	
4 1,3-Dinitrobenzene	335	309	0.010	-7.83497	15.00000	Averaged	
5 Nitrobenzene	373	358	0.010	-3.93002	15.00000	Averaged	
6 2,4,6-Trinitrotoluene(TNT)	241	220	0.010	-8.49090	15.00000	Averaged	
7 Tetryl	152	148	0.010	-2.84514	15.00000	Averaged	
8 2,6-Dinitrotoluene	157	142	0.010	-9.47986	15.00000	Averaged	
9 2,4-Dinitrotoluene	382	350	0.010	-8.40668	15.00000	Averaged	
10 2-Nitrotoluene	229	218	0.010	-4.84146	15.00000	Averaged	
11 4-Nitrotoluene	291	278	0.010	-4.46980	15.00000	Averaged	
12 3-Nitrotoluene	301	303	0.010	0.71466	15.00000	Averaged	
13 4-Amino-2,6-dinitrotoluene	153	142	0.010	-7.50449	15.00000	Averaged	
14 2-Amino-4,6-dinitrotoluene	304	286	0.010	-5.82723	15.00000	Averaged	
$ 15 1-C-3-NB	260	251	0.010	-3.39082	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 18.46721
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071114.b\ZKEB009.d
Date : 14-NOV-2007 18:46
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0390

Continuing Calibrations

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A001.d
Lab Smp Id: 2nd Source CCV
Inj Date : 07-JAN-2008 16:15
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 003
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.933	4.933	0.000	37852	100.000	98.3181
2 RDX	7.666	7.666	0.000	26029	100.000	95.8498
3 1,3,5-Trinitrobenzene	10.950	10.950	0.000	68961	100.000	97.6503
4 1,3-Dinitrobenzene	13.975	13.975	0.000	56921	100.000	99.8349
5 Nitrobenzene	14.766	14.766	0.000	14296	100.000	97.8737
6 Tetryl	15.650	15.650	0.000	46366	100.000	100.534
7 2,4,6-Trinitrotoluene(TNT)	18.375	18.375	0.000	48827	100.000	100.462
8 4-Amino-2,6-dinitrotoluene	19.916	19.916	0.000	61210	100.000	101.207
9 2-Amino-4,6-dinitrotoluene	21.191	21.191	0.000	53979	100.000	103.098
10 2,6-Dinitrotoluene	22.175	22.175	0.000	31212	100.000	99.8714
11 2,4-Dinitrotoluene	23.316	23.316	0.000	39283	100.000	101.032
12 2-Nitrotoluene	25.241	25.241	0.000	13617	100.000	116.473
13 4-Nitrotoluene	27.625	27.625	0.000	7533	100.000	96.5026
14 3-Nitrotoluene	29.316	29.316	0.000	9300	100.000	88.6343
$ 15 1-C-3-NB	33.233	33.233	0.000	9984	100.000	84.7739

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 07-JAN-2008 16:15
Lab File ID: ZA7A001.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	385	379	0.010	-1.68189	15.00000	Averaged	
2 RDX	272	260	0.010	-4.15015	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	706	690	0.010	-2.34970	15.00000	Averaged	
4 1,3-Dinitrobenzene	570	569	0.010	-0.16512	15.00000	Averaged	
5 Nitrobenzene	146	143	0.010	-2.12629	15.00000	Averaged	
6 Tetryl	461	464	0.010	0.53431	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	486	488	0.010	0.46259	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	605	612	0.010	1.20701	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	524	540	0.010	3.09768	15.00000	Averaged	
10 2,6-Dinitrotoluene	313	312	0.010	-0.12861	15.00000	Averaged	
11 2,4-Dinitrotoluene	389	393	0.010	1.03179	15.00000	Averaged	
12 2-Nitrotoluene	117	136	0.010	16.47343	15.00000	Averaged	<-
13 4-Nitrotoluene	78.06007	75.33000	0.010	-3.49740	15.00000	Averaged	
14 3-Nitrotoluene	105	93.00000	0.010	-11.36568	15.00000	Averaged	
$ 15 1-C-3-NB	118	100	0.010	-15.22609	15.00000	Averaged	<-

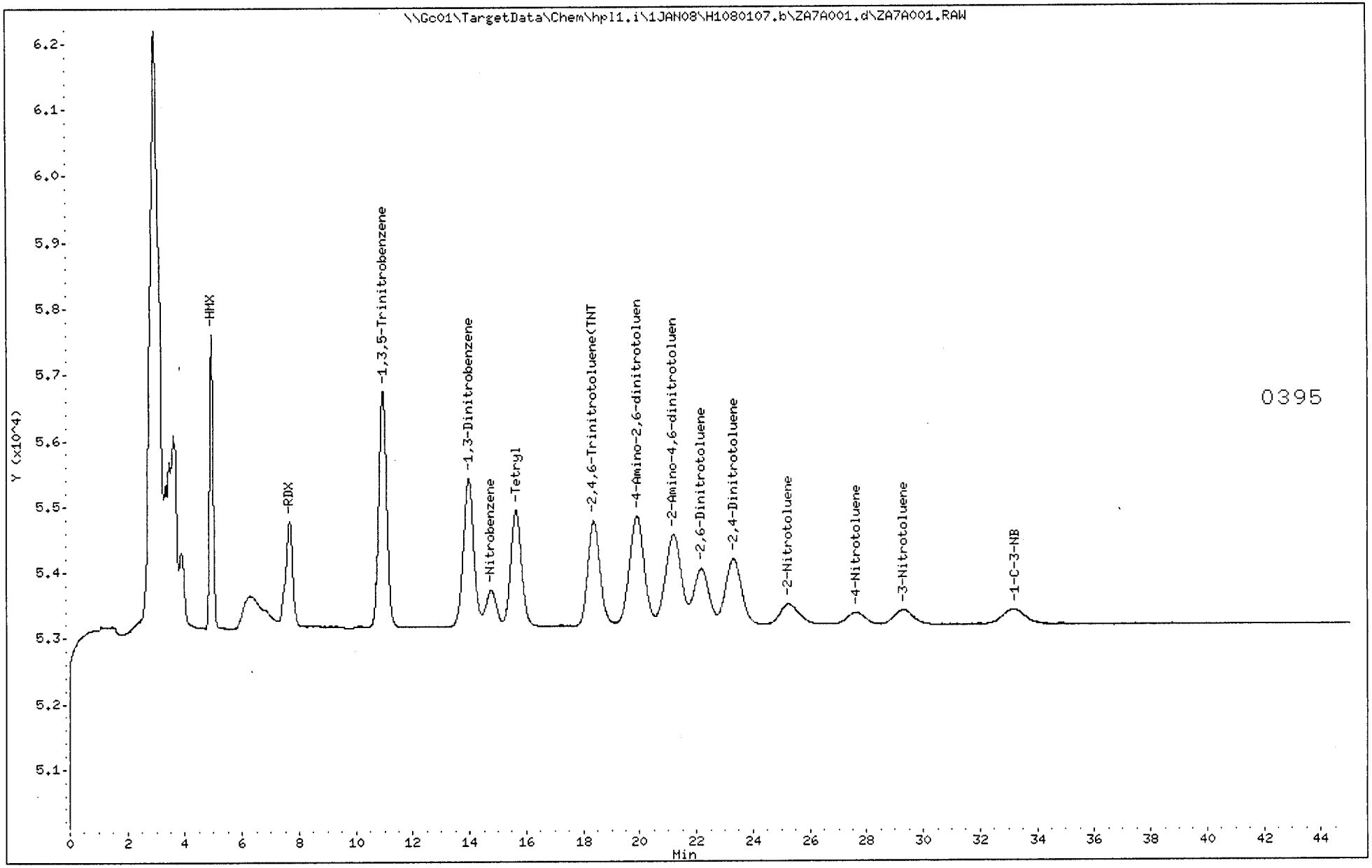
Average %D / Drift Results.

Calculated Average %D/Drift = 4.23318
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A001.d
Date : 07-JAN-2008 16:15
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B001.d
Lab Smp Id: 2nd Source CCV
Inj Date : 07-JAN-2008 16:15
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 003
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	Compound Not Detected.					
2 RDX	7.658	7.658	0.000	7937	100.000	105.410
3 1,3,5-Trinitrobenzene	10.950	10.950	0.000	16166	100.000	87.8959
4 1,3-Dinitrobenzene	13.975	13.975	0.000	32292	100.000	99.1979
5 Nitrobenzene	14.766	14.766	0.000	37674	100.000	99.5792
6 Tetryl	15.641	15.641	0.000	14611	100.000	96.6382
7 2,4,6-Trinitrotoluene(TNT)	18.358	18.358	0.000	22192	100.000	90.1113
8 4-Amino-2,6-dinitrotoluene	19.908	19.908	0.000	13587	100.000	89.7160
9 2-Amino-4,6-dinitrotoluene	21.191	21.191	0.000	28470	100.000	95.6391
10 2,6-Dinitrotoluene	22.208	22.208	0.000	14235	100.000	95.0402
11 2,4-Dinitrotoluene	23.308	23.308	0.000	36344	100.000	96.3607
12 2-Nitrotoluene	25.250	25.250	0.000	22000	100.000	92.8633
13 4-Nitrotoluene	27.616	27.616	0.000	27295	100.000	90.7474
14 3-Nitrotoluene	29.325	29.325	0.000	29340	100.000	88.1486
$ 15 1-C-3-NB	33.208	33.208	0.000	25410	100.000	85.1931

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 07-JAN-2008 16:15
Lab File ID: ZA7B001.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	52.84257	++++	0.010	++++	15.00000	Averaged	<-
2 RDX	75.29625	79.37000	0.010	5.41030	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	184	162	0.010	-12.10411	15.00000	Averaged	
4 1,3-Dinitrobenzene	326	323	0.010	-0.80205	15.00000	Averaged	
5 Nitrobenzene	378	377	0.010	-0.42076	15.00000	Averaged	
6 Tetryl	151	146	0.010	-3.36175	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	246	222	0.010	-9.88872	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	151	136	0.010	-10.28401	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	298	285	0.010	-4.36091	15.00000	Averaged	
10 2,6-Dinitrotoluene	150	142	0.010	-4.95979	15.00000	Averaged	
11 2,4-Dinitrotoluene	377	363	0.010	-3.63930	15.00000	Averaged	
12 2-Nitrotoluene	237	220	0.010	-7.13672	15.00000	Averaged	
13 4-Nitrotoluene	301	273	0.010	-9.25261	15.00000	Averaged	
14 3-Nitrotoluene	333	293	0.010	-11.85141	15.00000	Averaged	
$ 15 1-C-3-NB	298	254	0.010	-14.80685	15.00000	Averaged	

Average %D / Drift Results.

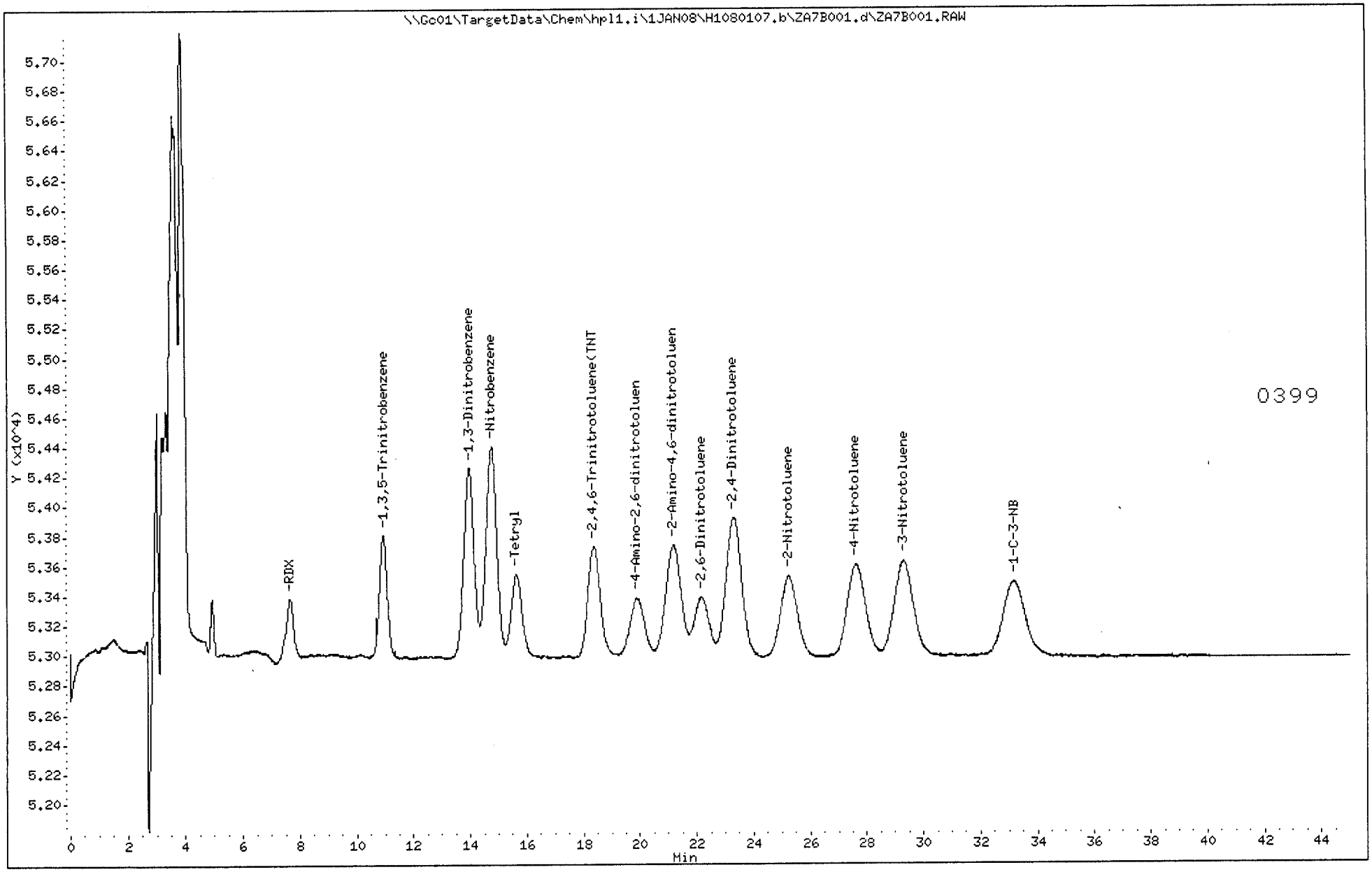
Calculated Average %D/Drift = 7.01995
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

8680

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B001.d
Date : 07-JAN-2008 16:15
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A012.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 00:47
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 014
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.925	4.925	0.000	37589	100.000	97.6350
2 RDX	7.650	7.650	0.000	27686	100.000	101.952
3 1,3,5-Trinitrobenzene	10.916	10.916	0.000	64231	100.000	90.9525
4 1,3-Dinitrobenzene	13.933	13.933	0.000	57523	100.000	100.891
5 Nitrobenzene	14.708	14.708	0.000	14314	100.000	97.9969
6 Tetryl	15.583	15.583	0.000	37673	100.000	81.6855
7 2,4,6-Trinitrotoluene(TNT)	18.316	18.316	0.000	48392	100.000	99.5676(M)
8 4-Amino-2,6-dinitrotoluene	19.850	19.850	0.000	57612	100.000	95.2579(M)
9 2-Amino-4,6-dinitrotoluene	21.125	21.125	0.000	48440	100.000	92.5184(M)
10 2,6-Dinitrotoluene	22.058	22.058	0.000	29715	100.000	95.0813(M)
11 2,4-Dinitrotoluene	23.216	23.216	0.000	36992	100.000	95.1396(M)
12 2-Nitrotoluene	25.191	25.191	0.000	1575	100.000	13.4718(a)
13 4-Nitrotoluene	27.500	27.500	0.000	1373	100.000	17.5890(a)
14 3-Nitrotoluene	29.191	29.191	0.000	1237	100.000	11.7893(a)
$ 15 1-C-3-NB	33.075	33.075	0.000	1105	100.000	9.38253

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 00:47
Lab File ID: ZA7A012.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	385	376	0.010	-2.36502	15.00000	Averaged	
2 RDX	272	277	0.010	1.95163	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	706	642	0.010	-9.04748	15.00000	Averaged	
4 1,3-Dinitrobenzene	570	575	0.010	0.89074	15.00000	Averaged	
5 Nitrobenzene	146	143	0.010	-2.00306	15.00000	Averaged	
6 Tetryl	461	377	0.010	-18.31452	15.00000	Averaged	<-
7 2,4,6-Trinitrotoluene(TNT)	486	484	0.010	-0.43243	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	605	576	0.010	-4.74206	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	524	484	0.010	-7.48158	15.00000	Averaged	
10 2,6-Dinitrotoluene	313	297	0.010	-4.91867	15.00000	Averaged	
11 2,4-Dinitrotoluene	389	370	0.010	-4.86042	15.00000	Averaged	
12 2-Nitrotoluene	117	15.75000	0.010	-86.52819	15.00000	Averaged	<-
13 4-Nitrotoluene	78.06007	13.73000	0.010	-82.41098	15.00000	Averaged	<-
14 3-Nitrotoluene	105	12.37000	0.010	-88.21068	15.00000	Averaged	<-
$ 15 1-C-3-NB	118	11.05000	0.010	-90.61747	15.00000	Averaged	<-

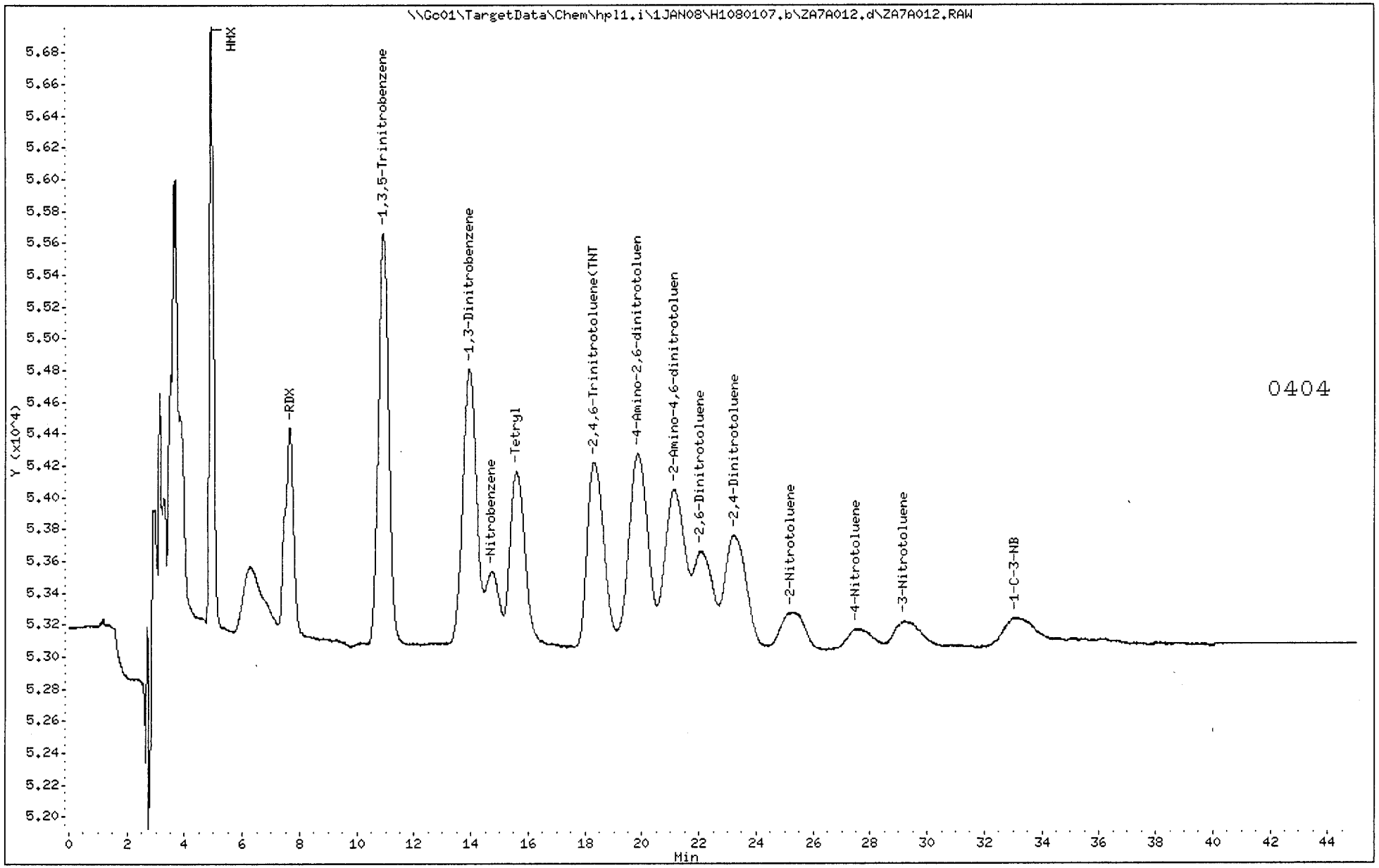
Average %D / Drift Results.

Calculated Average %D/Drift = 26.98500
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A012.d
Date : 08-JAN-2008 00:47
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0404

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B012.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 00:47
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 014
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:44 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	Compound Not Detected.					
2 RDX	7.641	7.641	0.000	7862	100.000	104.414
3 1,3,5-Trinitrobenzene	10.908	10.908	0.000	15391	100.000	83.6821
4 1,3-Dinitrobenzene	13.925	13.925	0.000	32757	100.000	100.626
5 Nitrobenzene	14.725	14.725	0.000	37258	100.000	98.4797
6 Tetryl	15.591	15.591	0.000	12858	100.000	85.0438
7 2,4,6-Trinitrotoluene(TNT)	18.333	18.333	0.000	20894	100.000	84.8407
8 4-Amino-2,6-dinitrotoluene	19.891	19.891	0.000	10131	100.000	66.8958
9 2-Amino-4,6-dinitrotoluene	21.141	21.141	0.000	25801	100.000	86.6731(M)
10 2,6-Dinitrotoluene	22.041	22.041	0.000	11466	100.000	76.5529(M)
11 2,4-Dinitrotoluene	23.216	23.216	0.000	34924	100.000	92.5958
12 2-Nitrotoluene	25.166	25.166	0.000	21061	100.000	88.8997
13 4-Nitrotoluene	27.525	27.525	0.000	26539	100.000	88.2339
14 3-Nitrotoluene	29.183	29.183	0.000	30143	100.000	90.5611
$ 15 1-C-3-NB	33.033	33.033	0.000	27345	100.000	91.6807(M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 00:47
Lab File ID: ZA7B012.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	52.84257	++++	0.010	++++	15.00000	Averaged	<-
2 RDX	75.29625	78.62000	0.010	4.41423	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	184	154	0.010	-16.31785	15.00000	Averaged	<-
4 1,3-Dinitrobenzene	326	328	0.010	0.62638	15.00000	Averaged	
5 Nitrobenzene	378	373	0.010	-1.52032	15.00000	Averaged	
6 Tetryl	151	129	0.010	-14.95622	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	246	209	0.010	-15.15929	15.00000	Averaged	<-
8 4-Amino-2,6-dinitrotoluene	151	101	0.010	-33.10424	15.00000	Averaged	<-
9 2-Amino-4,6-dinitrotoluene	298	258	0.010	-13.32687	15.00000	Averaged	
10 2,6-Dinitrotoluene	150	115	0.010	-23.44707	15.00000	Averaged	<-
11 2,4-Dinitrotoluene	377	349	0.010	-7.40422	15.00000	Averaged	
12 2-Nitrotoluene	237	211	0.010	-11.10030	15.00000	Averaged	
13 4-Nitrotoluene	301	265	0.010	-11.76607	15.00000	Averaged	
14 3-Nitrotoluene	333	301	0.010	-9.43889	15.00000	Averaged	
$ 15 1-C-3-NB	298	273	0.010	-8.31930	15.00000	Averaged	

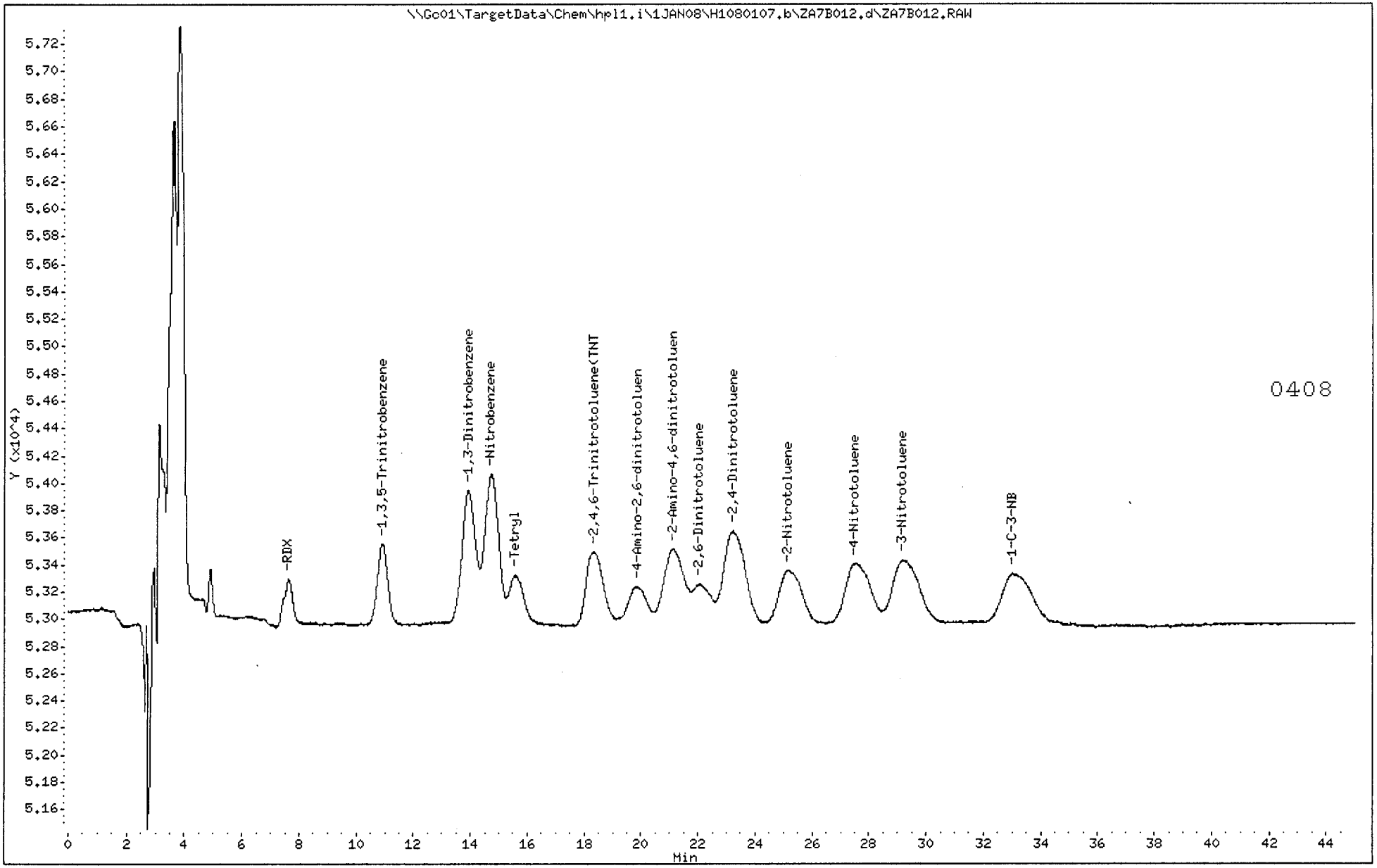
Average %D / Drift Results.

Calculated Average %D/Drift = 12.20723
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B012.d
Date : 08-JAN-2008 00:47
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A020.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 11:16
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 022
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.908	4.908	0.000	38389	100.000	99.7129
2 RDX	7.625	7.625	0.000	28730	100.000	105.796
3 1,3,5-Trinitrobenzene	10.833	10.833	0.000	69722	100.000	98.7279
4 1,3-Dinitrobenzene	13.858	13.858	0.000	44243	100.000	77.5987
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	15.475	15.475	0.000	36792	100.000	79.7752
7 2,4,6-Trinitrotoluene(TNT)	18.175	18.175	0.000	38472	100.000	79.1570
8 4-Amino-2,6-dinitrotoluene	19.691	19.691	0.000	32973	100.000	54.5188
9 2-Amino-4,6-dinitrotoluene	20.925	20.925	0.000	13785	100.000	26.3288
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	23.050	23.050	0.000	19378	100.000	49.8382
12 2-Nitrotoluene	25.033	25.033	0.000	1686	100.000	14.4212(a)
13 4-Nitrotoluene	27.325	27.325	0.000	1541	100.000	19.7412(a)
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	Compound Not Detected.					

Reject

0409

NU

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 11:16
Lab File ID: ZA7A020.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	385	384	0.010	-0.28707	15.00000	Averaged	
2 RDX	272	287	0.010	5.79609	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	706	697	0.010	-1.27210	15.00000	Averaged	
4 1,3-Dinitrobenzene	570	442	0.010	-22.40132	15.00000	Averaged	<-
5 Nitrobenzene	146	++++	0.010	++++	15.00000	Averaged	<-
6 Tetryl	461	368	0.010	-20.22477	15.00000	Averaged	<-
7 2,4,6-Trinitrotoluene(TNT)	486	385	0.010	-20.84304	15.00000	Averaged	<-
8 4-Amino-2,6-dinitrotoluene	605	330	0.010	-45.48115	15.00000	Averaged	<-
9 2-Amino-4,6-dinitrotoluene	524	138	0.010	-73.67121	15.00000	Averaged	<-
10 2,6-Dinitrotoluene	313	++++	0.010	++++	15.00000	Averaged	<-
11 2,4-Dinitrotoluene	389	194	0.010	-50.16180	15.00000	Averaged	<-
12 2-Nitrotoluene	117	16.86000	0.010	-85.57875	15.00000	Averaged	<-
13 4-Nitrotoluene	78.06007	15.41000	0.010	-80.25879	15.00000	Averaged	<-
14 3-Nitrotoluene	105	++++	0.010	++++	15.00000	Averaged	<-
$ 15 1-C-3-NB	118	++++	0.010	++++	15.00000	Averaged	<-

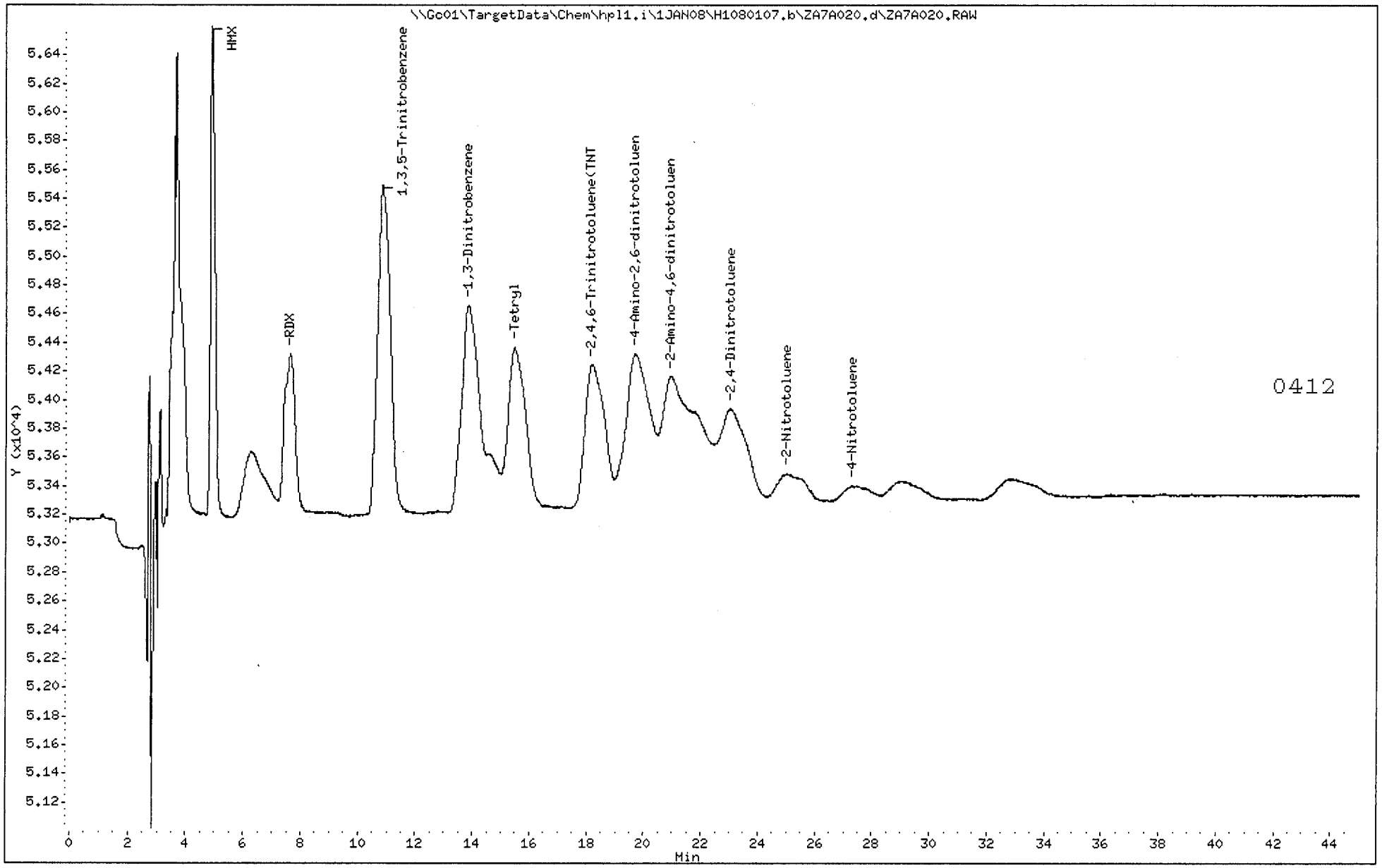
Average %D / Drift Results.

Calculated Average %D/Drift = 36.90692
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A020.d
Date : 08-JAN-2008 11:16
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B020.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 11:16
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 022
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:16 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	Compound Not Detected.					
2 RDX	7.625	7.625	0.000	7195	100.000	95.5559
3 1,3,5-Trinitrobenzene	10.866	10.866	0.000	16407	100.000	89.2062
4 1,3-Dinitrobenzene	13.833	13.833	0.000	28892	100.000	88.7535
5 Nitrobenzene	14.633	14.633	0.000	26791	100.000	70.8135
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	18.183	18.183	0.000	19309	100.000	78.4048
8 4-Amino-2,6-dinitrotoluene	19.725	19.725	0.000	4393	100.000	29.0073
9 2-Amino-4,6-dinitrotoluene	20.950	20.950	0.000	6712	100.000	22.5476(a)
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	23.066	23.066	0.000	26179	100.000	69.4097
12 2-Nitrotoluene	25.008	25.008	0.000	19563	100.000	82.5766
13 4-Nitrotoluene	27.341	27.341	0.000	2892	100.000	9.61500(a)
14 3-Nitrotoluene	29.000	29.000	0.000	18453	100.000	55.4399
$ 15 1-C-3-NB	32.850	32.850	0.000	6203	100.000	20.7970

Reject

0413

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i
Lab File ID: ZA7B020.d
Analysis Type: SOIL
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m

Injection Date: 08-JAN-2008 11:16
Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Init. Cal. Times: 11:02 15:37

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	52.84257	++++	0.010	++++	15.00000	Averaged	<-
2 RDX	75.29625	71.95000	0.010	-4.44411	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	184	164	0.010	-10.79378	15.00000	Averaged	
4 1,3-Dinitrobenzene	326	289	0.010	-11.24653	15.00000	Averaged	
5 Nitrobenzene	378	268	0.010	-29.18651	15.00000	Averaged	<-
6 Tetryl	151	++++	0.010	++++	15.00000	Averaged	<-
7 2,4,6-Trinitrotoluene(TNT)	246	193	0.010	-21.59523	15.00000	Averaged	<-
8 4-Amino-2,6-dinitrotoluene	151	43.93000	0.010	-70.99269	15.00000	Averaged	<-
9 2-Amino-4,6-dinitrotoluene	298	67.12000	0.010	-77.45242	15.00000	Averaged	<-
10 2,6-Dinitrotoluene	150	++++	0.010	++++	15.00000	Averaged	<-
11 2,4-Dinitrotoluene	377	262	0.010	-30.59028	15.00000	Averaged	<-
12 2-Nitrotoluene	237	196	0.010	-17.42344	15.00000	Averaged	<-
13 4-Nitrotoluene	301	28.92000	0.010	-90.38500	15.00000	Averaged	<-
14 3-Nitrotoluene	333	185	0.010	-44.56013	15.00000	Averaged	<-
$ 15 1-C-3-NB	298	62.03000	0.010	-79.20295	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 40.65609
Maximun Average %D/Drift = 15.00000
* Failed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B020.d

Date : 08-JAN-2008 11:16

Client ID:

Instrument: hpl1.i

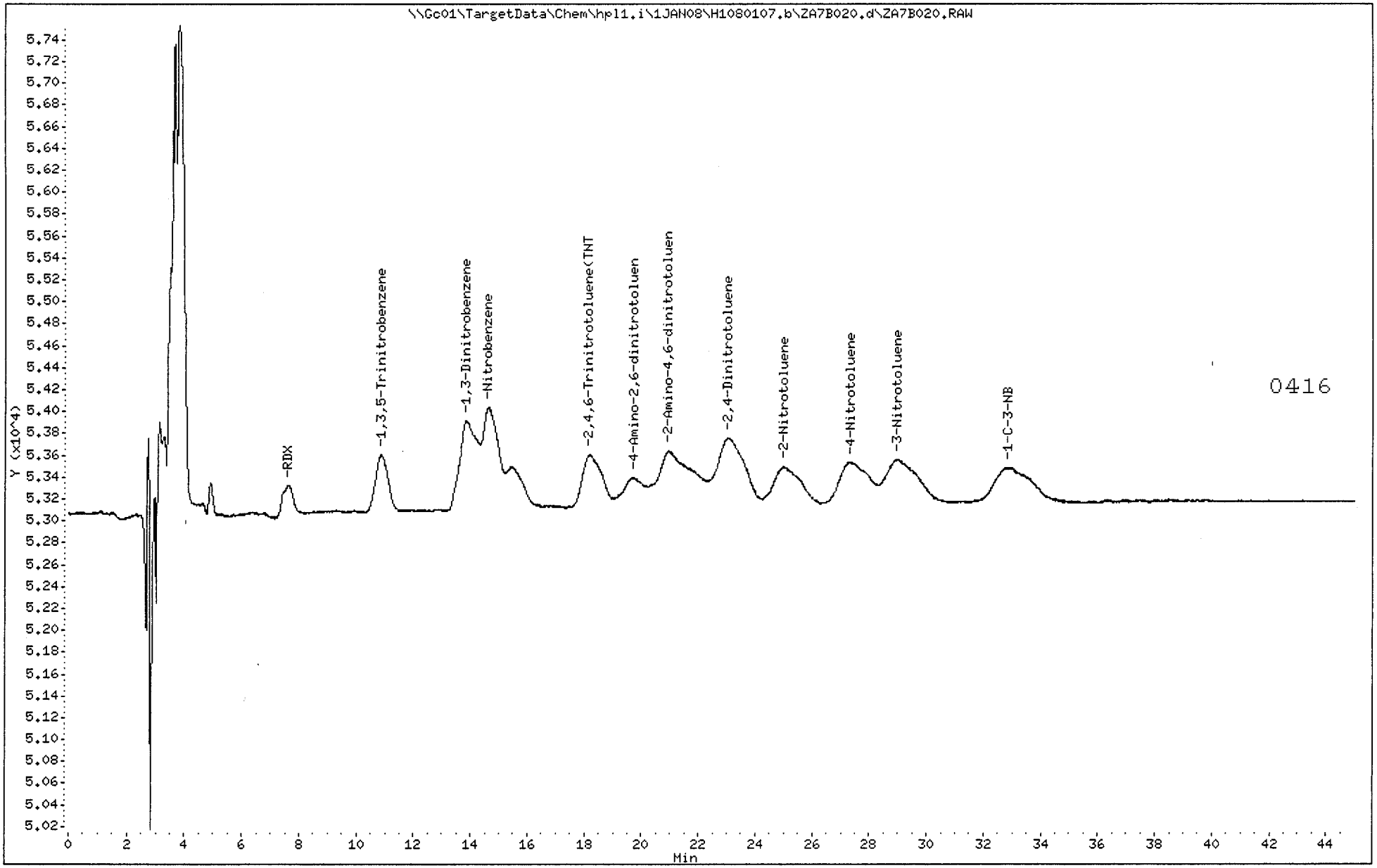
Sample Info: 2nd Source CCV

Volume Injected (uL): 100.0

Operator: ELC

Column phase: C18

Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A021.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 14:28
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 023
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 15:31 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	4.925	4.925	0.000	38098	100.000	98.9571
2 RDX	7.650	7.650	0.000	26271	100.000	96.7410
3 1,3,5-Trinitrobenzene	10.950	10.950	0.000	66588	100.000	94.2901
4 1,3-Dinitrobenzene	13.983	13.983	0.000	54814	100.000	96.1394
5 Nitrobenzene	14.791	14.791	0.000	12363	100.000	84.6399
6 Tetryl	15.675	15.675	0.000	40024	100.000	86.7831
7 2,4,6-Trinitrotoluene(TNT)	18.416	18.416	0.000	48922	100.000	100.658
8 4-Amino-2,6-dinitrotoluene	19.950	19.950	0.000	58964	100.000	97.4934
9 2-Amino-4,6-dinitrotoluene	21.241	21.241	0.000	51143	100.000	97.6810
10 2,6-Dinitrotoluene	22.250	22.250	0.000	29315	100.000	93.8014
11 2,4-Dinitrotoluene	23.383	23.383	0.000	37674	100.000	96.8936
12 2-Nitrotoluene	25.316	25.316	0.000	12152	100.000	103.942
13 4-Nitrotoluene	27.741	27.741	0.000	8304	100.000	106.380
14 3-Nitrotoluene	29.441	29.441	0.000	10186	100.000	97.0784
$ 15 1-C-3-NB	33.316	33.316	0.000	11621	100.000	98.6736

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 14:28
Lab File ID: ZA7A021.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	385	381	0.010	-1.04293	15.00000	Averaged
2 RDX	272	263	0.010	-3.25900	15.00000	Averaged
3 1,3,5-Trinitrobenzene	706	666	0.010	-5.70992	15.00000	Averaged
4 1,3-Dinitrobenzene	570	548	0.010	-3.86063	15.00000	Averaged
5 Nitrobenzene	146	124	0.010	-15.36006	15.00000	Averaged <-
6 Tetryl	461	400	0.010	-13.21690	15.00000	Averaged
7 2,4,6-Trinitrotoluene(TNT)	486	489	0.010	0.65805	15.00000	Averaged
8 4-Amino-2,6-dinitrotoluene	605	590	0.010	-2.50661	15.00000	Averaged
9 2-Amino-4,6-dinitrotoluene	524	511	0.010	-2.31896	15.00000	Averaged
10 2,6-Dinitrotoluene	313	293	0.010	-6.19858	15.00000	Averaged
11 2,4-Dinitrotoluene	389	377	0.010	-3.10639	15.00000	Averaged
12 2-Nitrotoluene	117	122	0.010	3.94251	15.00000	Averaged
13 4-Nitrotoluene	78.06007	83.04000	0.010	6.37961	15.00000	Averaged
14 3-Nitrotoluene	105	102	0.010	-2.92160	15.00000	Averaged
$ 15 1-C-3-NB	118	116	0.010	-1.32636	15.00000	Averaged

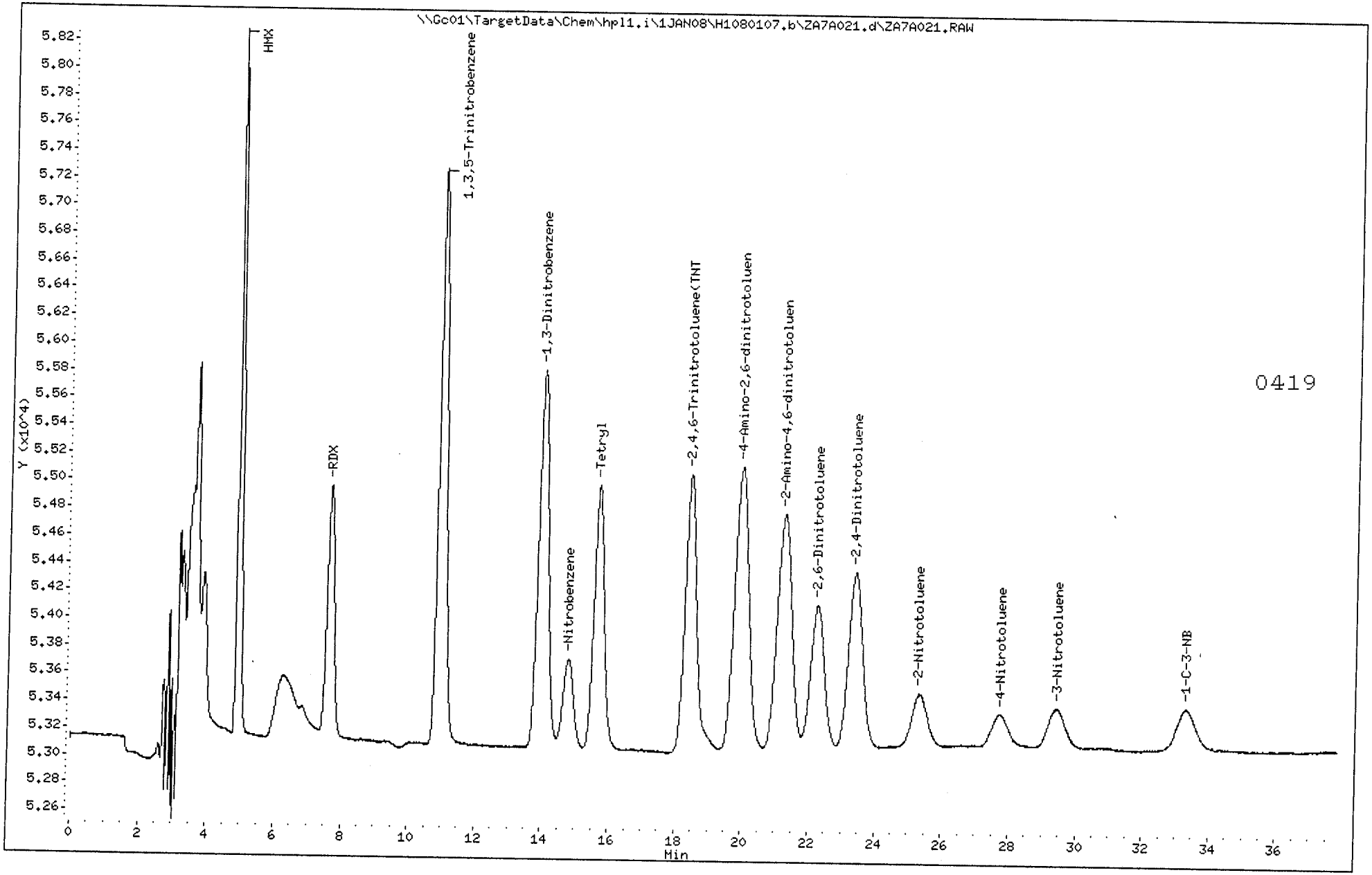
Average %D / Drift Results.

Calculated Average %D/Drift = 4.78721
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A021.d
Date : 08-JAN-2008 14:28
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0419

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B021.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 14:28
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 023
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 15:31 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 23 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 HMX	Compound Not Detected.					
	2 RDX	7.650	7.650	0.000	8469	100.000	112.476
	3 1,3,5-Trinitrobenzene	10.958	10.958	0.000	15959	100.000	86.7704
	4 1,3-Dinitrobenzene	13.983	13.983	0.000	32884	100.000	101.016
	5 Nitrobenzene	14.791	14.791	0.000	38169	100.000	100.888
	6 Tetryl	15.666	15.666	0.000	13427	100.000	88.8072
	7 2,4,6-Trinitrotoluene(TNT)	18.416	18.416	0.000	23865	100.000	96.9045
	8 4-Amino-2,6-dinitrotoluene	19.958	19.958	0.000	14075	100.000	92.9383
	9 2-Amino-4,6-dinitrotoluene	21.241	21.241	0.000	28297	100.000	95.0579
	10 2,6-Dinitrotoluene	22.258	22.258	0.000	13693	100.000	91.4215
	11 2,4-Dinitrotoluene	23.375	23.375	0.000	36038	100.000	95.5494
	12 2-Nitrotoluene	25.316	25.316	0.000	22628	100.000	95.5141
	13 4-Nitrotoluene	27.716	27.716	0.000	28345	100.000	94.2383
	14 3-Nitrotoluene	29.400	29.400	0.000	30257	100.000	90.9036
$	15 1-C-3-NB	33.275	33.275	0.000	26220	100.000	87.9089

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 14:28
Lab File ID: ZA7B021.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	52.84257	++++	0.010	++++	15.00000	Averaged	<-
2 RDX	75.29625	84.69000	0.010	12.47572	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	184	160	0.010	-13.22959	15.00000	Averaged	
4 1,3-Dinitrobenzene	326	329	0.010	1.01652	15.00000	Averaged	
5 Nitrobenzene	378	382	0.010	0.88762	15.00000	Averaged	
6 Tetryl	151	134	0.010	-11.19281	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	246	239	0.010	-3.09546	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	151	141	0.010	-7.06171	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	298	283	0.010	-4.94207	15.00000	Averaged	
10 2,6-Dinitrotoluene	150	137	0.010	-8.57846	15.00000	Averaged	
11 2,4-Dinitrotoluene	377	360	0.010	-4.45061	15.00000	Averaged	
12 2-Nitrotoluene	237	226	0.010	-4.48590	15.00000	Averaged	
13 4-Nitrotoluene	301	283	0.010	-5.76169	15.00000	Averaged	
14 3-Nitrotoluene	333	303	0.010	-9.09639	15.00000	Averaged	
$ 15 1-C-3-NB	298	262	0.010	-12.09113	15.00000	Averaged	

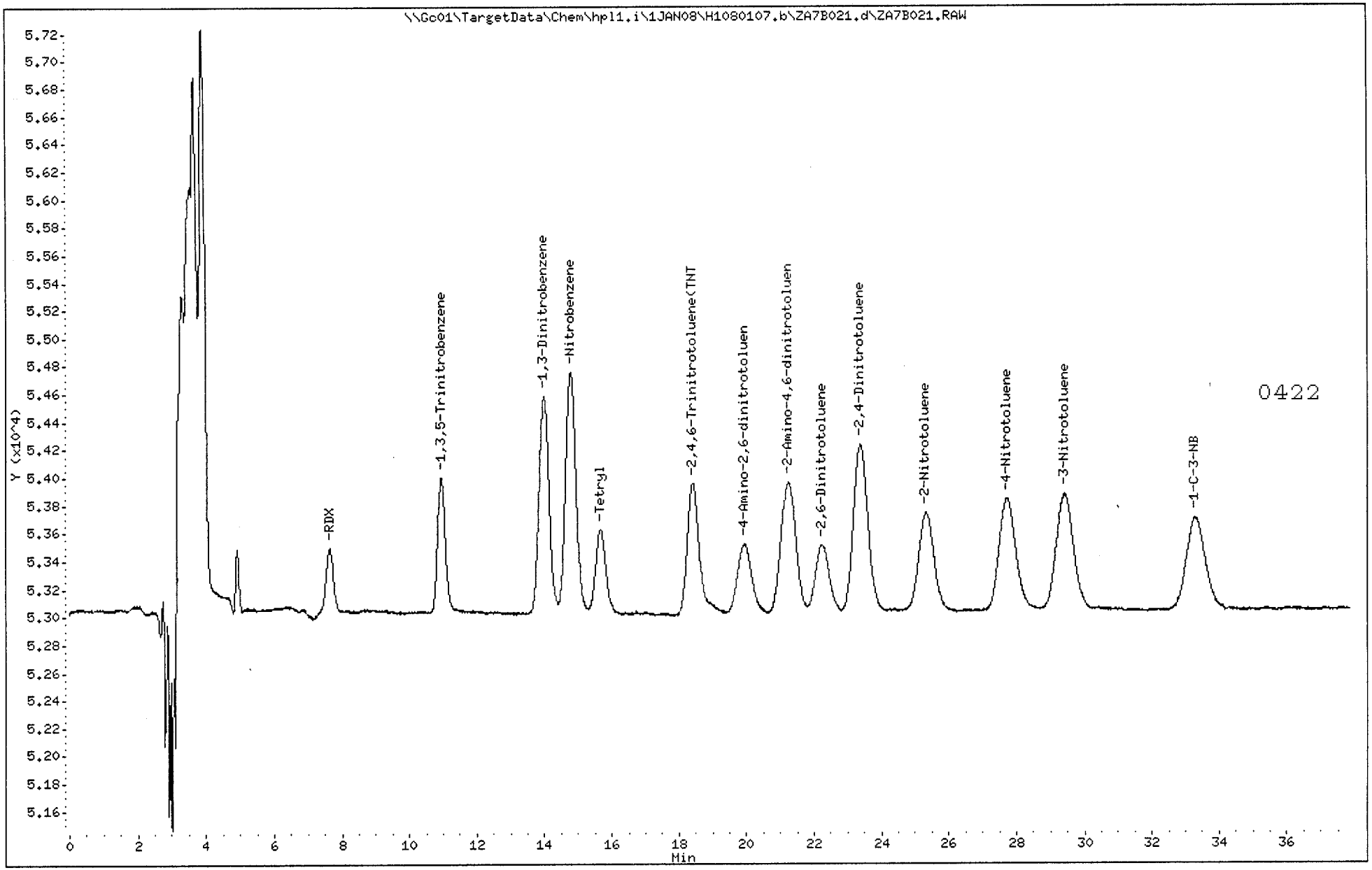
Average %D / Drift Results.

Calculated Average %D/Drift = 7.02612
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B021.d
Date : 08-JAN-2008 14:28
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A002.d
Lab Smp Id: 427752 Client Smp ID: MB for HBN 211504 [
Inj Date : 07-JAN-2008 17:08
Operator : ELC Inst ID: hpl1.i
Smp Info : 427752
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 4 QC Sample: MB
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.141	33.233	-0.092	60348	512.413	5.12413 AH

0423

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JD 1/9/08

Data File: ZA7A002.d
Report Date: 08-Jan-2008 14:14

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427752
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: MB for HBN 211504 [
Operator: ELC
SampleType: MB
Quant Type: ESTD

Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	5.00000	5.12413	102.48	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

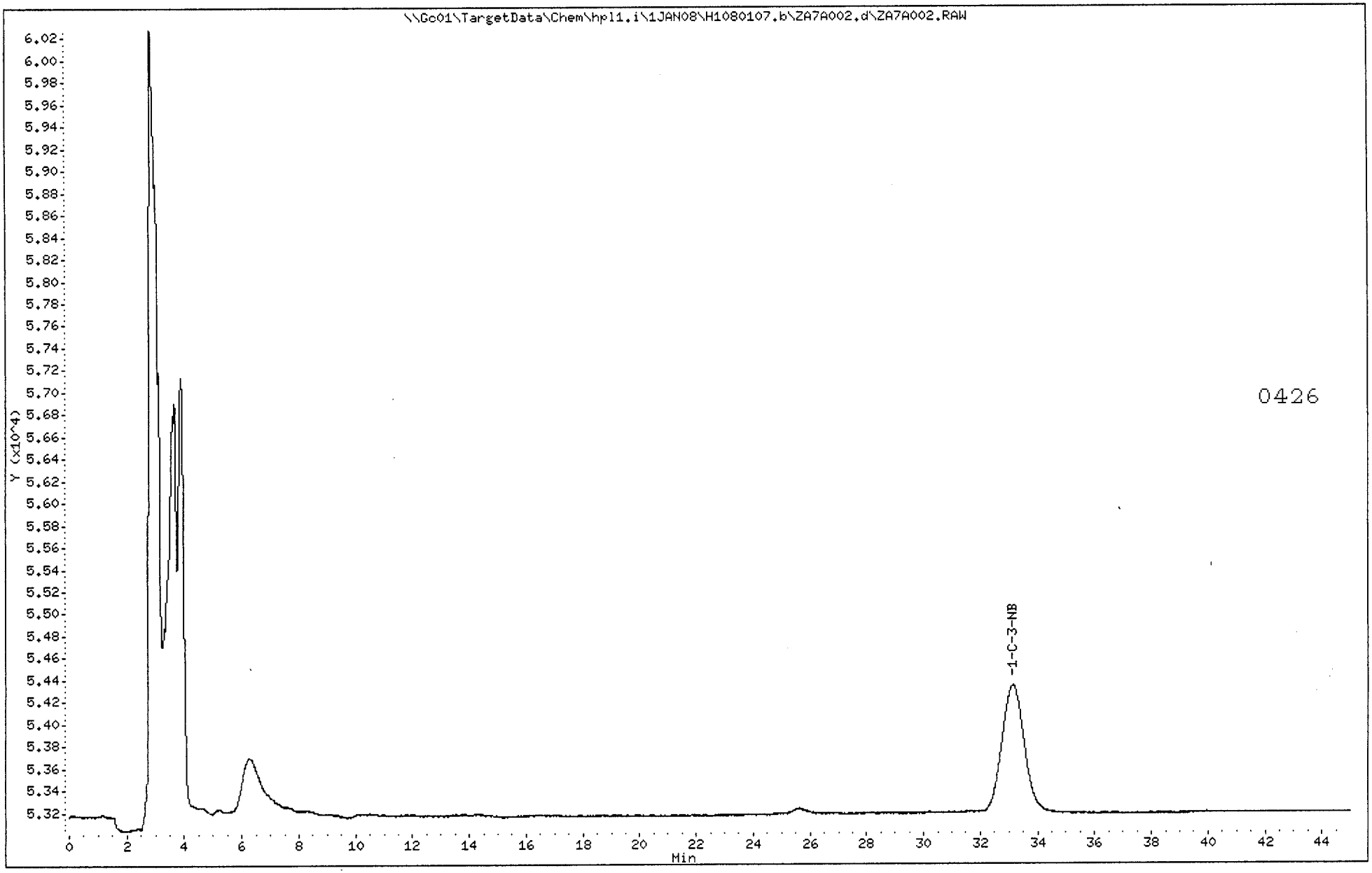
Client Name: In-house QC Account
Lab Smp Id: 427752
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

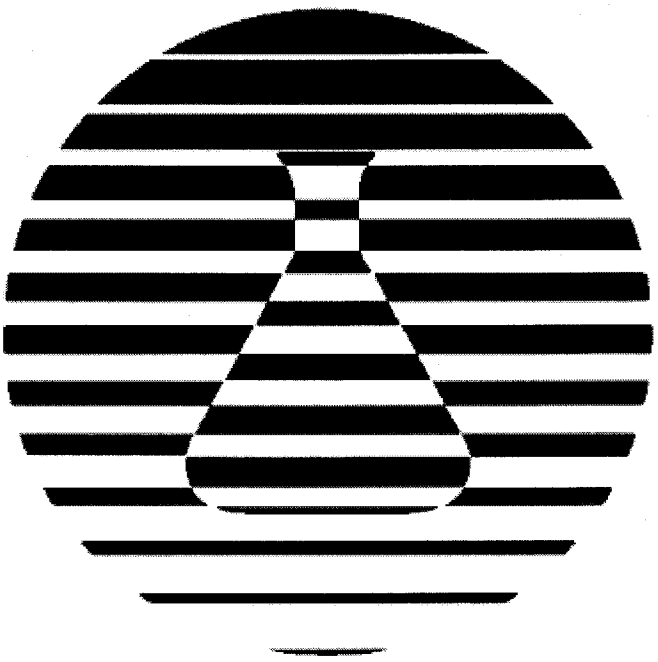
Client SDG: H1080107.b
Client Smp ID: MB for HBN 211504 [
Sample Point:
Date Received: 27-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.250000	U
121-82-4	RDX	0.250000	U
99-35-4	1,3,5-Trinitrobenzene	0.250000	U
99-65-0	1,3-Dinitrobenzene	0.250000	U
98-95-3	Nitrobenzene	0.250000	U
479-45-8	Tetryl	0.250000	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.250000	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.250000	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.250000	U
606-20-2	2,6-Dinitrotoluene	0.250000	U
121-14-2	2,4-Dinitrotoluene	0.250000	U
88-72-2	2-Nitrotoluene	0.250000	U
99-99-0	4-Nitrotoluene	0.250000	U
99-08-1	3-Nitrotoluene	0.250000	U
121-73-3	1-C-3-NB	5.12413	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A002.d
Date : 07-JAN-2008 17:08
Client ID: MB for HBN 211504 [
Sample Info: 427752
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60





DIVIDER PAGE

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A001.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 17:44
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 003
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.100	7.100	0.000	37384	100.000	89.9532(M)
2 RDX	11.091	11.091	0.000	26252	100.000	91.8776
3 1,3,5-Trinitrobenzene	12.091	12.091	0.000	69355	100.000	94.2918
4 1,3-Dinitrobenzene	14.891	14.891	0.000	57178	100.000	94.8490
5 Nitrobenzene	16.158	16.158	0.000	14751	100.000	99.6157
6 2,4,6-Trinitrotoluene(TNT)	20.591	20.591	0.000	48174	100.000	94.0706
7 Tetryl	21.258	21.258	0.000	49800	100.000	105.982
8 2,6-Dinitrotoluene	23.883	23.883	0.000	30628	100.000	91.3074
9 2,4-Dinitrotoluene	24.916	24.916	0.000	38352	100.000	93.2558
10 2-Nitrotoluene	27.450	27.450	0.000	12269	100.000	95.7245
11 4-Nitrotoluene	29.891	29.891	0.000	8613	100.000	104.390
12 3-Nitrotoluene	32.400	32.400	0.000	11073	100.000	103.355(M)
13 4-Amino-2,6-dinitrotoluene	32.883	32.883	0.000	58855	100.000	89.7845(M)
14 2-Amino-4,6-dinitrotoluene	34.691	34.691	0.000	51648	100.000	92.0674
$ 15 1-C-3-NB	38.233	38.233	0.000	12569	100.000	99.8445

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 08-JAN-2008 17:44
Lab File ID: ZA8A001.d Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 12:50 17:55
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	416	374	0.010	-10.04676	15.00000	Averaged
2 RDX	286	263	0.010	-8.12239	15.00000	Averaged
3 1,3,5-Trinitrobenzene	736	694	0.010	-5.70815	15.00000	Averaged
4 1,3-Dinitrobenzene	603	572	0.010	-5.15100	15.00000	Averaged
5 Nitrobenzene	148	148	0.010	-0.38430	15.00000	Averaged
6 2,4,6-Trinitrotoluene(TNT)	512	482	0.010	-5.92942	15.00000	Averaged
7 Tetryl	470	498	0.010	5.98157	15.00000	Averaged
8 2,6-Dinitrotoluene	335	306	0.010	-8.69263	15.00000	Averaged
9 2,4-Dinitrotoluene	411	384	0.010	-6.74415	15.00000	Averaged
10 2-Nitrotoluene	128	123	0.010	-4.27552	15.00000	Averaged
11 4-Nitrotoluene	82.50757	86.13000	0.010	4.39042	15.00000	Averaged
12 3-Nitrotoluene	107	111	0.010	3.35510	15.00000	Averaged
13 4-Amino-2,6-dinitrotoluene	656	589	0.010	-10.21552	15.00000	Averaged
14 2-Amino-4,6-dinitrotoluene	561	516	0.010	-7.93256	15.00000	Averaged
$ 15 1-C-3-NB	126	126	0.010	-0.15547	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.80567
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A001.d

Date : 08-JAN-2008 17:44

Client ID:

Instrument: hpl1.i

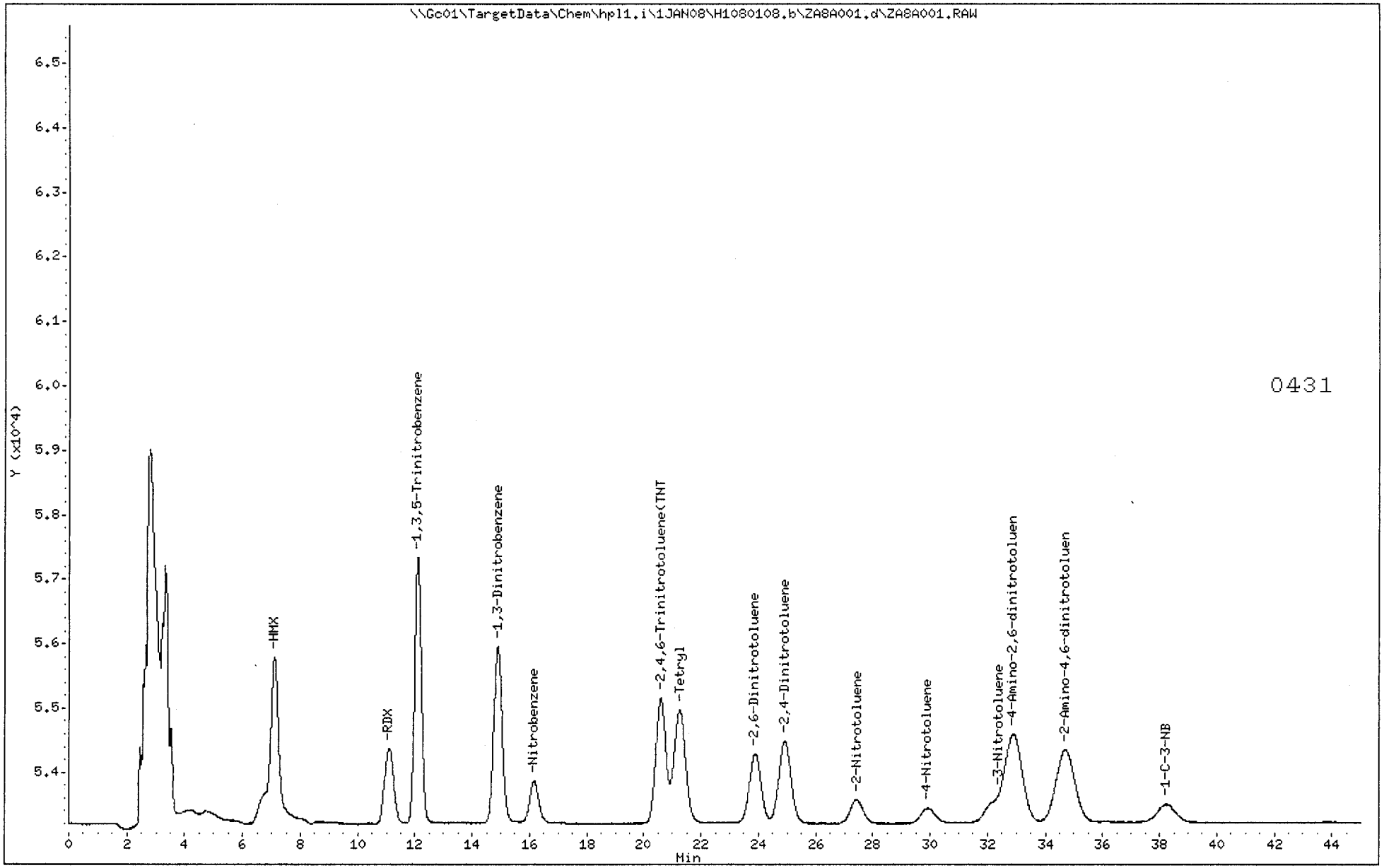
Sample Info: 2nd Source CCV

Volume Injected (uL): 100.0

Operator: ELC

Column phase: C18

Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B001.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 17:44
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 003
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.100	7.100	0.000	5284	100.000	103.979
2 RDX	11.100	11.100	0.000	6448	100.000	90.3783
3 1,3,5-Trinitrobenzene	12.091	12.091	0.000	16079	100.000	94.3390
4 1,3-Dinitrobenzene	14.883	14.883	0.000	32132	100.000	95.7932
5 Nitrobenzene	16.150	16.150	0.000	37917	100.000	101.788
6 2,4,6-Trinitrotoluene(TNT)	20.591	20.591	0.000	22579	100.000	93.7087
7 Tetryl	21.250	21.250	0.000	15261	100.000	100.425
8 2,6-Dinitrotoluene	23.875	23.875	0.000	14409	100.000	91.7491
9 2,4-Dinitrotoluene	24.908	24.908	0.000	36435	100.000	95.3078
10 2-Nitrotoluene	27.408	27.408	0.000	21973	100.000	95.7731
11 4-Nitrotoluene	29.916	29.916	0.000	27594	100.000	94.7746
12 3-Nitrotoluene	32.141	32.141	0.000	29309	100.000	97.4850(M)
13 4-Amino-2,6-dinitrotoluene	32.800	32.800	0.000	13197	100.000	86.0410(M)
14 2-Amino-4,6-dinitrotoluene	34.666	34.666	0.000	25963	100.000	85.4928
$ 15 1-C-3-NB	38.241	38.241	0.000	26914	100.000	103.463

QC Flag Legend

M - Compound response manually integrated.

Data File: ZA8B001.d
Report Date: 09-Jan-2008 10:10

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i
Lab File ID: ZA8B001.d
Analysis Type: SOIL
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m

Injection Date: 08-JAN-2008 17:44
Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Init. Cal. Times: 12:50 17:55

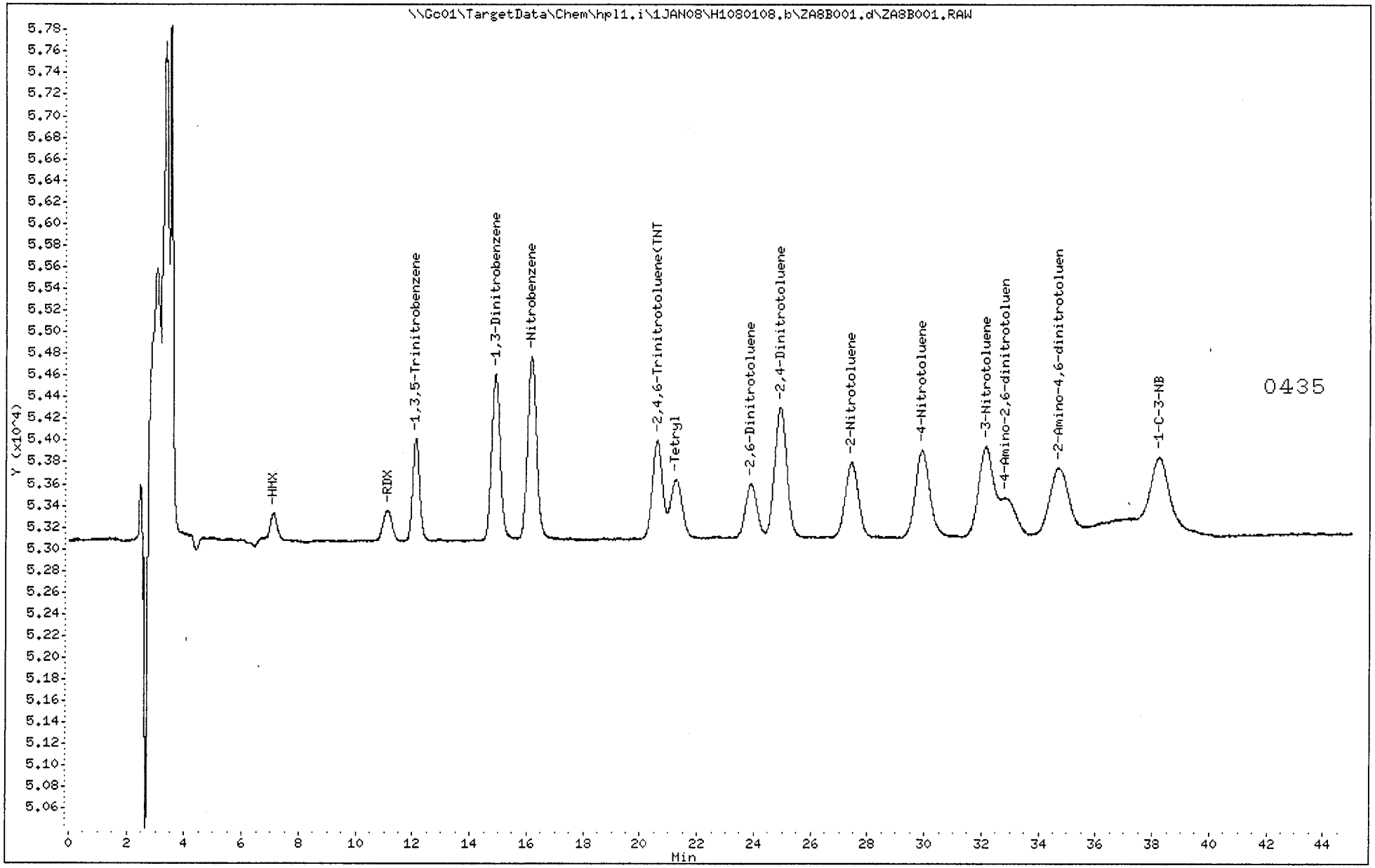
COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	50.81807	52.84000	0.010	3.97876	15.00000	Averaged
2 RDX	71.34457	64.48000	0.010	-9.62172	15.00000	Averaged
3 1,3,5-Trinitrobenzene	170	161	0.010	-5.66099	15.00000	Averaged
4 1,3-Dinitrobenzene	335	321	0.010	-4.20681	15.00000	Averaged
5 Nitrobenzene	373	379	0.010	1.78795	15.00000	Averaged
6 2,4,6-Trinitrotoluene(TNT)	241	226	0.010	-6.29126	15.00000	Averaged
7 Tetryl	152	153	0.010	0.42538	15.00000	Averaged
8 2,6-Dinitrotoluene	157	144	0.010	-8.25094	15.00000	Averaged
9 2,4-Dinitrotoluene	382	364	0.010	-4.69220	15.00000	Averaged
10 2-Nitrotoluene	229	220	0.010	-4.22689	15.00000	Averaged
11 4-Nitrotoluene	291	276	0.010	-5.22541	15.00000	Averaged
12 3-Nitrotoluene	301	293	0.010	-2.51499	15.00000	Averaged
13 4-Amino-2,6-dinitrotoluene	153	132	0.010	-13.95903	15.00000	Averaged
14 2-Amino-4,6-dinitrotoluene	304	260	0.010	-14.50723	15.00000	Averaged
$ 15 1-C-3-NB	260	269	0.010	3.46343	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.92087
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B001.d
Date : 08-JAN-2008 17:44
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A008.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 23:40
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m
Meth Date : 09-Jan-2008 10:09 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEA008.d
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.100	7.100	0.000	37344	100.000	89.8570(M)
2 RDX	11.125	11.125	0.000	25746	100.000	90.1067
3 1,3,5-Trinitrobenzene	12.116	12.116	0.000	67187	100.000	91.3443
4 1,3-Dinitrobenzene	14.925	14.925	0.000	56349	100.000	93.4738
5 Nitrobenzene	16.191	16.191	0.000	13982	100.000	94.4225
6 2,4,6-Trinitrotoluene(TNT)	20.641	20.641	0.000	49433	100.000	96.5290
7 Tetryl	21.308	21.308	0.000	47291	100.000	100.642
8 2,6-Dinitrotoluene	23.958	23.958	0.000	30777	100.000	91.7516
9 2,4-Dinitrotoluene	24.991	24.991	0.000	38425	100.000	93.4334
10 2-Nitrotoluene	27.508	27.508	0.000	11301	100.000	88.1720
11 4-Nitrotoluene	29.983	29.983	0.000	7995	100.000	96.9002
12 3-Nitrotoluene	32.475	32.475	0.000	11834	100.000	110.458(M)
13 4-Amino-2,6-dinitrotoluene	32.975	32.975	0.000	62149	100.000	94.8095(M)
14 2-Amino-4,6-dinitrotoluene	34.783	34.783	0.000	54438	100.000	97.0409
$ 15 1-C-3-NB	38.341	38.341	0.000	11753	100.000	93.3625

QC Flag Legend

M - Compound response manually integrated.

Data File: ZA8A008.d
Report Date: 09-Jan-2008 10:09

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i
Lab File ID: ZA8A008.d
Analysis Type: SOIL
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_235_conf.m

Injection Date: 08-JAN-2008 23:40
Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Init. Cal. Times: 12:50 17:55

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	416	373	0.010	-10.14301	15.00000	Averaged
2 RDX	286	257	0.010	-9.89330	15.00000	Averaged
3 1,3,5-Trinitrobenzene	736	672	0.010	-8.65567	15.00000	Averaged
4 1,3-Dinitrobenzene	603	563	0.010	-6.52617	15.00000	Averaged
5 Nitrobenzene	148	140	0.010	-5.57747	15.00000	Averaged
6 2,4,6-Trinitrotoluene(TNT)	512	494	0.010	-3.47094	15.00000	Averaged
7 Tetryl	470	473	0.010	0.64206	15.00000	Averaged
8 2,6-Dinitrotoluene	335	308	0.010	-8.24844	15.00000	Averaged
9 2,4-Dinitrotoluene	411	384	0.010	-6.56665	15.00000	Averaged
10 2-Nitrotoluene	128	113	0.010	-11.82799	15.00000	Averaged
11 4-Nitrotoluene	82.50757	79.95000	0.010	-3.09980	15.00000	Averaged
12 3-Nitrotoluene	107	118	0.010	10.45825	15.00000	Averaged
13 4-Amino-2,6-dinitrotoluene	656	621	0.010	-5.19046	15.00000	Averaged
14 2-Amino-4,6-dinitrotoluene	561	544	0.010	-2.95912	15.00000	Averaged
$ 15 1-C-3-NB	126	118	0.010	-6.63754	15.00000	Averaged

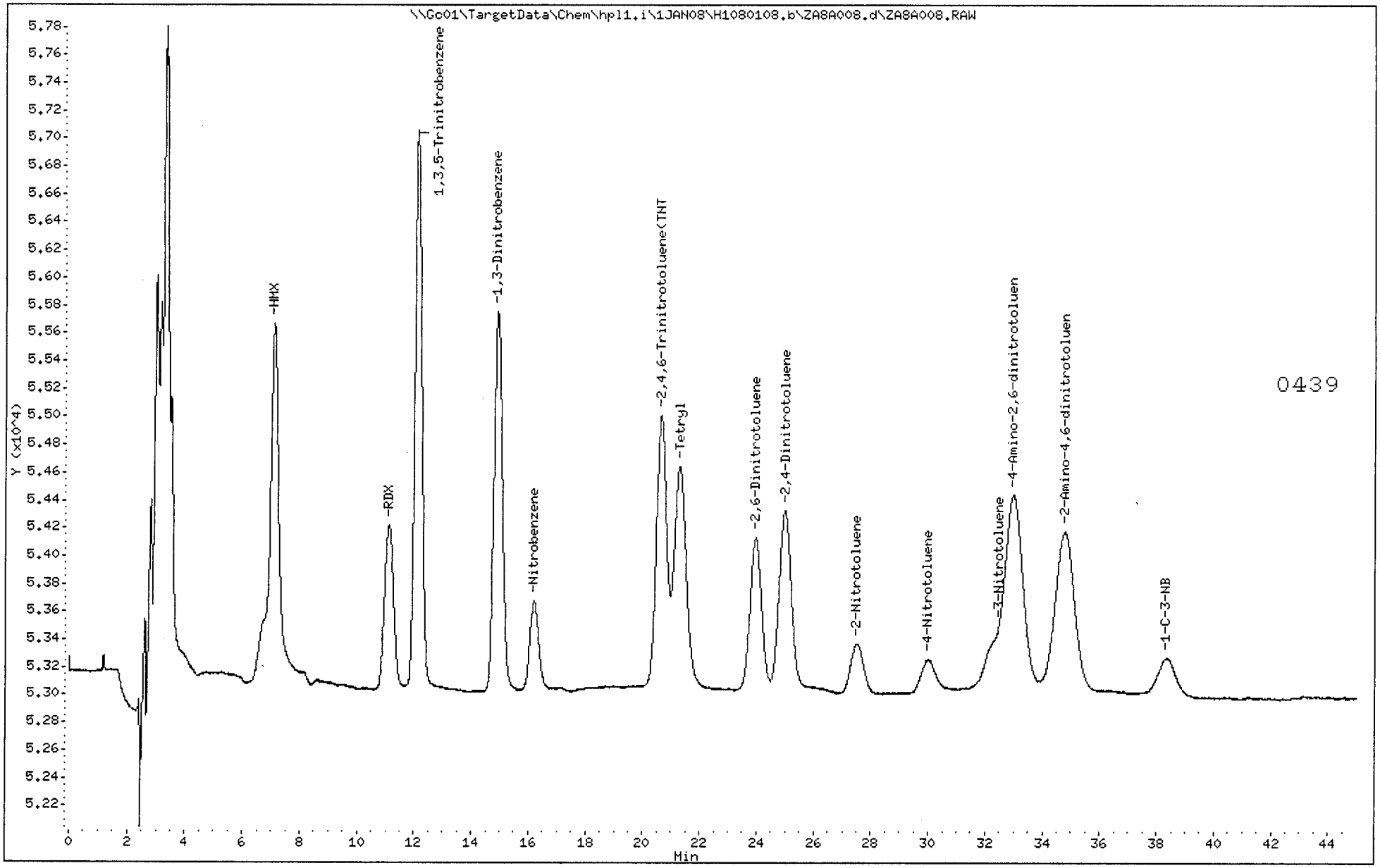
Average %D / Drift Results.

Calculated Average %D/Drift = 6.65979
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8A008.d
Date : 08-JAN-2008 23:40
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B008.d
Lab Smp Id: 2nd Source CCV
Inj Date : 08-JAN-2008 23:40
Operator : ELC Inst ID: hpl1.i
Smp Info : 2nd Source CCV
Misc Info : 010
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m
Meth Date : 09-Jan-2008 10:10 hpl1.i Quant Type: ESTD
Cal Date : 14-NOV-2007 17:55 Cal File: ZKEB008.d
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 HMX	7.100	7.100	0.000	5708	100.000	112.322
2 RDX	11.116	11.116	0.000	6722	100.000	94.2188
3 1,3,5-Trinitrobenzene	12.116	12.116	0.000	16004	100.000	93.8990
4 1,3-Dinitrobenzene	14.916	14.916	0.000	31972	100.000	95.3162
5 Nitrobenzene	16.183	16.183	0.000	38167	100.000	102.459
6 2,4,6-Trinitrotoluene(TNT)	20.641	20.641	0.000	23162	100.000	96.1283
7 Tetryl	21.283	21.283	0.000	15337	100.000	100.926
8 2,6-Dinitrotoluene	23.941	23.941	0.000	14748	100.000	93.9076
9 2,4-Dinitrotoluene	24.958	24.958	0.000	35777	100.000	93.5866
10 2-Nitrotoluene	27.516	27.516	0.000	21920	100.000	95.5421
11 4-Nitrotoluene	29.975	29.975	0.000	28355	100.000	97.3883
12 3-Nitrotoluene	32.216	32.216	0.000	30093	100.000	100.093(M)
13 4-Amino-2,6-dinitrotoluene	32.691	32.691	0.000	12881	100.000	83.9807(M)
14 2-Amino-4,6-dinitrotoluene	34.750	34.750	0.000	27266	100.000	89.7834
$ 15 1-C-3-NB	38.341	38.341	0.000	25303	100.000	97.2704

QC Flag Legend

M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i
Lab File ID: ZA8B008.d
Analysis Type: SOIL
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\8330_265_conf.m

Injection Date: 08-JAN-2008 23:40
Init. Cal. Date(s): 14-NOV-2007 14-NOV-2007
Init. Cal. Times: 12:50 17:55

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 HMX	50.81807	57.08000	0.010	12.32225	15.00000	Averaged
2 RDX	71.34457	67.22000	0.010	-5.78120	15.00000	Averaged
3 1,3,5-Trinitrobenzene	170	160	0.010	-6.10103	15.00000	Averaged
4 1,3-Dinitrobenzene	335	320	0.010	-4.68380	15.00000	Averaged
5 Nitrobenzene	373	382	0.010	2.45907	15.00000	Averaged
6 2,4,6-Trinitrotoluene(TNT)	241	232	0.010	-3.87166	15.00000	Averaged
7 Tetryl	152	153	0.010	0.92550	15.00000	Averaged
8 2,6-Dinitrotoluene	157	147	0.010	-6.09236	15.00000	Averaged
9 2,4-Dinitrotoluene	382	358	0.010	-6.41342	15.00000	Averaged
10 2-Nitrotoluene	229	219	0.010	-4.45789	15.00000	Averaged
11 4-Nitrotoluene	291	284	0.010	-2.61168	15.00000	Averaged
12 3-Nitrotoluene	301	301	0.010	0.09268	15.00000	Averaged
13 4-Amino-2,6-dinitrotoluene	153	129	0.010	-16.01927	15.00000	Averaged <-
14 2-Amino-4,6-dinitrotoluene	304	273	0.010	-10.21662	15.00000	Averaged
$ 15 1-C-3-NB	260	253	0.010	-2.72962	15.00000	Averaged

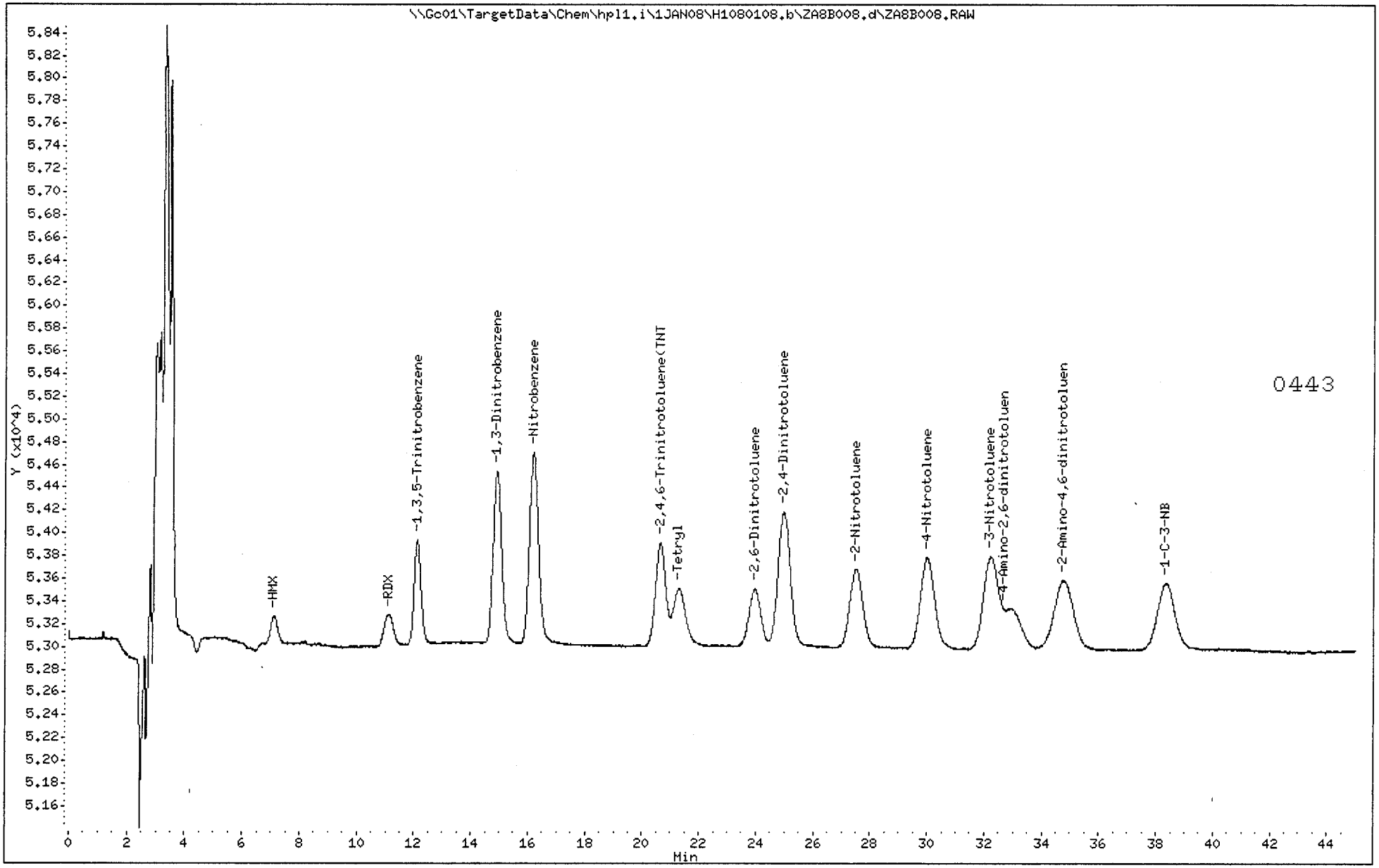
Average %D / Drift Results.

Calculated Average %D/Drift = 5.65187
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080108.b\ZA8B008.d
Date : 08-JAN-2008 23:40
Client ID:
Sample Info: 2nd Source CCV
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



Explosives by 8330A QC Raw Data

Blank Raw Data

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B002.d
Lab Smp Id: 427752 Client Smp ID: MB for HBN 211504 [
Inj Date : 07-JAN-2008 17:08
Operator : ELC Inst ID: hpl1.i
Smp Info : 427752
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 4 QC Sample: MB
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	Compound Not Detected.					
3 1,3,5-Trinitrobenzene	Compound Not Detected.					
4 1,3-Dinitrobenzene	Compound Not Detected.					
5 Nitrobenzene	Compound Not Detected.					
6 Tetryl	Compound Not Detected.					
7 2,4,6-Trinitrotoluene(TNT)	Compound Not Detected.					
8 4-Amino-2,6-dinitrotoluene	Compound Not Detected.					
9 2-Amino-4,6-dinitrotoluene	Compound Not Detected.					
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	Compound Not Detected.					
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	Compound Not Detected.					
14 3-Nitrotoluene	Compound Not Detected.					
$ 15 1-C-3-NB	33.150	33.208	-0.058	131182	439.819	4.39819

0446

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW

ELC 1/8/8

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427752
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_W.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: MB for HBN 211504 [
Operator: ELC
SampleType: MB
Quant Type: ESTD

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	5.00000	4.39819	87.96	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: In-house QC Account
Lab Smp Id: 427752
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

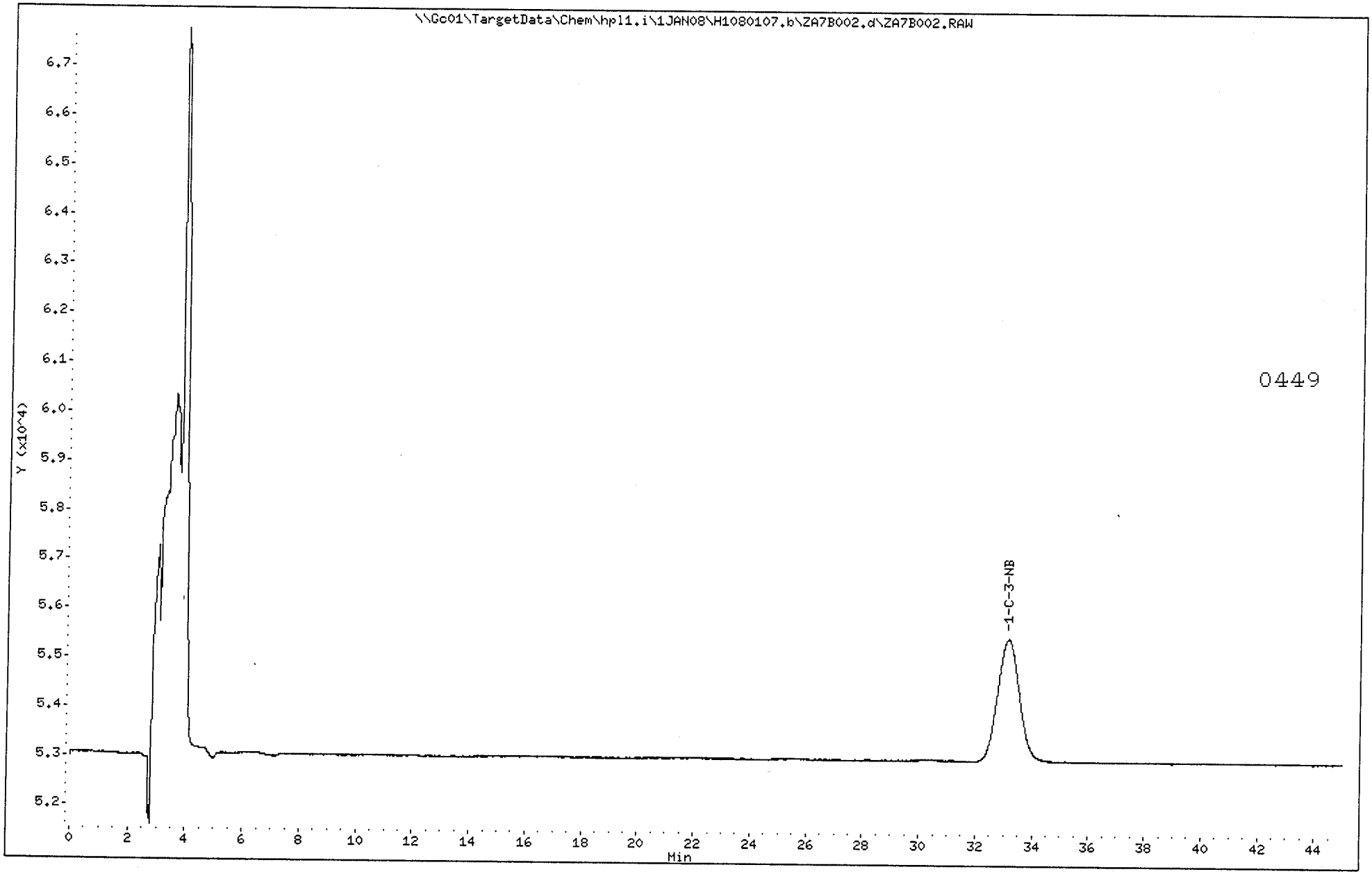
Client SDG: H1080107.b
Client Smp ID: MB for HBN 211504 [
Sample Point:
Date Received: 27-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.250000	U
121-82-4	RDX	0.250000	U
99-35-4	1,3,5-Trinitrobenzene	0.250000	U
99-65-0	1,3-Dinitrobenzene	0.250000	U
98-95-3	Nitrobenzene	0.250000	U
479-45-8	Tetryl	0.250000	U
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.250000	U
1946-51-0	4-Amino-2,6-dinitrotoluene	0.250000	U
35572-78-2	2-Amino-4,6-dinitrotoluene	0.250000	U
606-20-2	2,6-Dinitrotoluene	0.250000	U
121-14-2	2,4-Dinitrotoluene	0.250000	U
88-72-2	2-Nitrotoluene	0.250000	U
99-99-0	4-Nitrotoluene	0.250000	U
99-08-1	3-Nitrotoluene	0.250000	U
121-73-3	1-C-3-NB	4.39819	

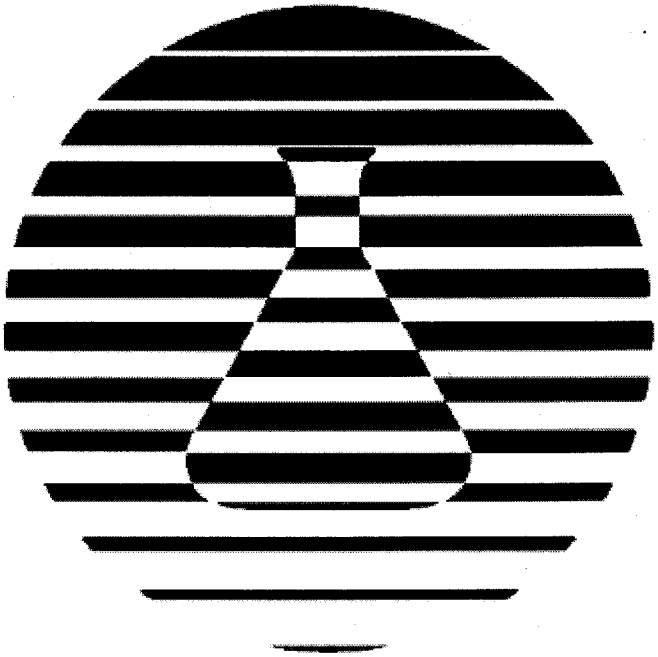
Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B002.d
Date : 07-JAN-2008 17:08
Client ID: MB for HBN 211504 [
Sample Info: 427752
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0449



DIVIDER PAGE

MS/MSD Raw Data

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A016.d
Lab Smp Id: 427754 Client Smp ID: 9716422011MS
Inj Date : 08-JAN-2008 03:50
Operator : ELC Inst ID: hpl1.i
Smp Info : 427754
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	4.916	4.925	-0.009	32206	83.6530	0.832368
2 RDX	7.633	7.650	-0.017	27057	99.6354	0.991397(M)
3 1,3,5-Trinitrobenzene	10.891	10.916	-0.025	66613	94.3255	0.938562
4 1,3-Dinitrobenzene	13.900	13.933	-0.033	56192	98.5563	0.980659(M)
5 Nitrobenzene	14.666	14.708	-0.042	13320	91.1918	0.907381(M)
6 Tetryl	15.541	15.583	-0.042	42772	92.7415	0.922801(M)
7 2,4,6-Trinitrotoluene(TNT)	18.283	18.316	-0.033	49179	101.187	1.00683(M)
8 4-Amino-2,6-dinitrotoluene	19.833	19.850	-0.017	46824	77.4206	0.770354(M)
9 2-Amino-4,6-dinitrotoluene	21.066	21.125	-0.059	46385	88.5935	0.881527(M)
10 2,6-Dinitrotoluene	22.008	22.058	-0.050	38417	122.926	1.22314(M)
11 2,4-Dinitrotoluene	23.175	23.216	-0.041	45707	117.554	1.16969(M)
12 2-Nitrotoluene	25.141	25.191	-0.050	1828	15.6359	0.155581(aR)
13 4-Nitrotoluene	27.508	27.500	0.008	1816	23.2641	0.231484(aR)
14 3-Nitrotoluene	29.158	29.191	-0.033	1011	9.63541	0.0958747(aR)
$ 15 1-C-3-NB	33.033	33.075	-0.042	59338	503.838	5.01331

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0452

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JL 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427754
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_S.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: 9716422011MS
Operator: ELC
SampleType: MS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS	
1 HMX	0.995025	0.832368	83.65	75-125	✓
2 RDX	0.995025	0.991397	99.64	70-135	✓
3 1,3,5-Trinitrobenz	0.995025	0.938562	94.33	75-125	✓
4 1,3-Dinitrobenzene	0.995025	0.980659	98.56	80-125	✓
6 Tetryl	0.995025	0.922801	92.74	20-175	✓
5 Nitrobenzene	0.995025	0.907381	91.19	50-140	✓
7 2,4,6-Trinitrotolu	0.995025	1.00683	101.19	50-145	✓
8 4-Amino-2,6-dinitr	0.995025	0.770354	77.42	55-155	✓
9 2-Amino-4,6-dinitr	0.995025	0.881527	88.59	50-155	✓
10 2,6-Dinitrotoluene	0.995025	1.22314	122.93	60-135	✓
11 2,4-Dinitrotoluene	0.995025	1.16969	117.55	60-135	✓
12 2-Nitrotoluene	0.995025	0.155581	15.64*	45-135	
13 4-Nitrotoluene	0.995025	0.231484	23.26*	50-130	
14 3-Nitrotoluene	0.995025	0.0958747	9.64*	50-130	

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	5.01331	100.77	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: In-house QC Account
Lab Smp Id: 427754
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

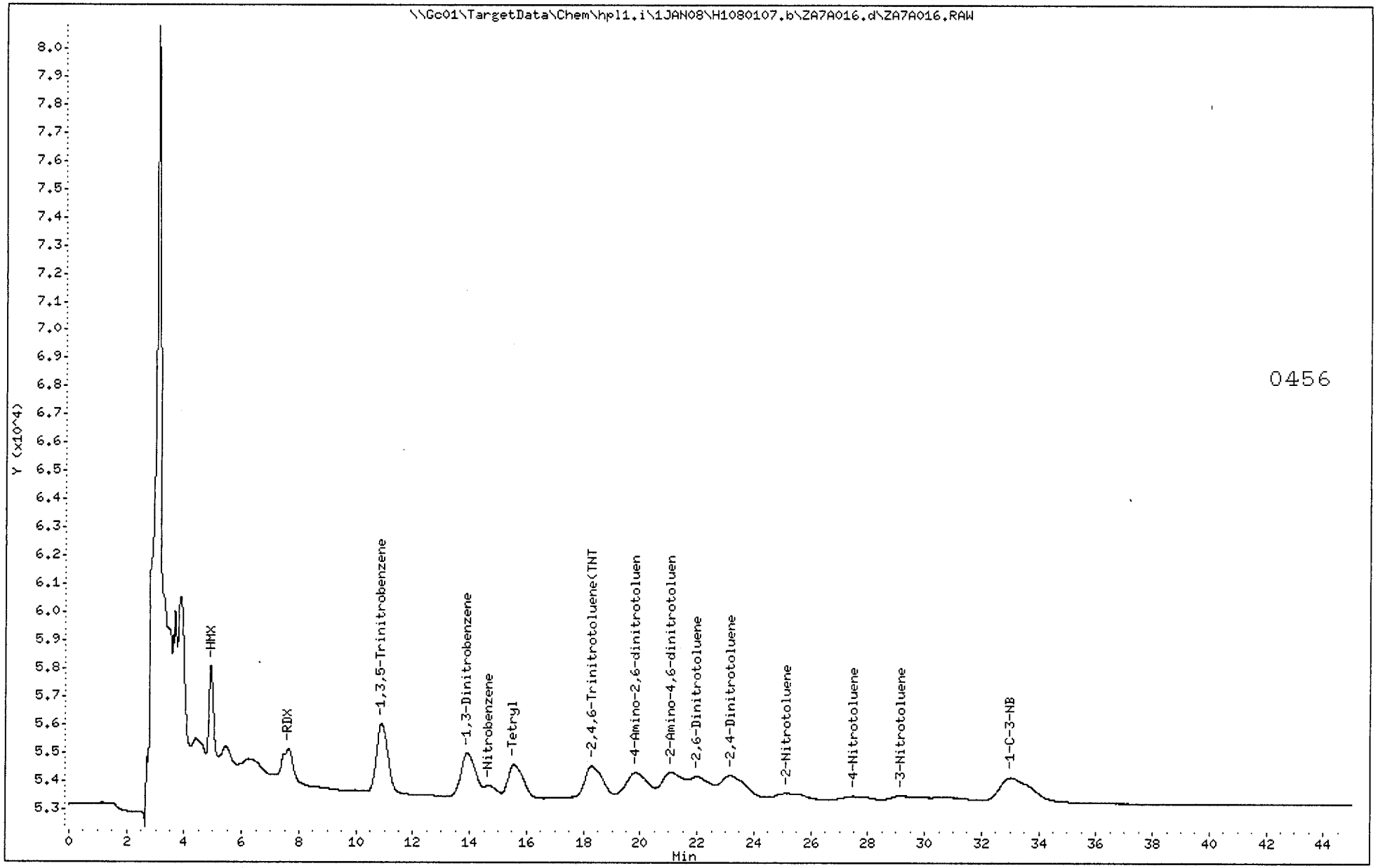
Client SDG: H1080107.b
Client Smp ID: 9716422011MS
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.832368	
121-82-4	RDX	0.991397	
99-35-4	1,3,5-Trinitrobenzene	0.938562	
99-65-0	1,3-Dinitrobenzene	0.980659	
98-95-3	Nitrobenzene	0.907381	
479-45-8	Tetryl	0.922801	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.00683	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.770354	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.881527	
606-20-2	2,6-Dinitrotoluene	1.22314	
121-14-2	2,4-Dinitrotoluene	1.16969	
88-72-2	2-Nitrotoluene	0.155581	J
99-99-0	4-Nitrotoluene	0.231484	J
99-08-1	3-Nitrotoluene	0.0958747	J
121-73-3	1-C-3-NB	5.01331	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A016.d
Date : 08-JAN-2008 03:50
Client ID: 9716422011MS
Sample Info: 427754
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0456

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B016.d
Lab Smp Id: 427754 Client Smp ID: 9716422011MS
Inj Date : 08-JAN-2008 03:50
Operator : ELC Inst ID: hpl1.i
Smp Info : 427754
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 18 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.010	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	7.641	7.641	0.000	6887	91.4654	0.910103
3 1,3,5-Trinitrobenzene	10.891	10.908	-0.017	15817	85.9983	0.855705
4 1,3-Dinitrobenzene	13.891	13.925	-0.034	30003	92.1664	0.917078(M)
5 Nitrobenzene	14.708	14.725	-0.017	36665	96.9123	0.964301(M)
6 Tetryl	15.525	15.641	-0.116	14079	93.1196	0.926563(M)
7 2,4,6-Trinitrotoluene(TNT)	18.300	18.333	-0.033	20562	83.4926	0.830772
8 4-Amino-2,6-dinitrotoluene	19.775	19.891	-0.116	2680	17.6962	0.176082(aR)
9 2-Amino-4,6-dinitrotoluene	21.041	21.158	-0.117	10180	34.1976	0.340275(R)
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	23.141	23.216	-0.075	27102	71.8569	0.714994
12 2-Nitrotoluene	25.116	25.166	-0.050	20101	84.8475	0.844254
13 4-Nitrotoluene	27.466	27.525	-0.059	22691	75.4405	0.750652
14 3-Nitrotoluene	29.150	29.183	-0.033	20466	61.4877	0.611818
$ 15 1-C-3-NB	33.016	33.033	-0.017	132011	442.599	4.40397

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0457

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427754
Client Smp ID: 9716422011MS
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: MS
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	0.995025	0.000000	*	75-125
2 RDX	0.995025	0.910103	91.47	70-135
3 1,3,5-Trinitrobenz	0.995025	0.855705	86.00	75-125
4 1,3-Dinitrobenzene	0.995025	0.917078	92.17	80-125
6 Tetryl	0.995025	0.926563	93.12	20-175
5 Nitrobenzene	0.995025	0.964301	96.91	50-140
7 2,4,6-Trinitrotolu	0.995025	0.830772	83.49	50-145
8 4-Amino-2,6-dinitr	0.995025	0.176082	17.70*	55-155
9 2-Amino-4,6-dinitr	0.995025	0.340275	34.20*	50-155
10 2,6-Dinitrotoluene	0.995025	0.000000	*	60-135
11 2,4-Dinitrotoluene	0.995025	0.714994	71.86	60-135
12 2-Nitrotoluene	0.995025	0.844254	84.85	45-135
13 4-Nitrotoluene	0.995025	0.750652	75.44	50-130
14 3-Nitrotoluene	0.995025	0.611818	61.49	50-130

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.40397	88.52	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

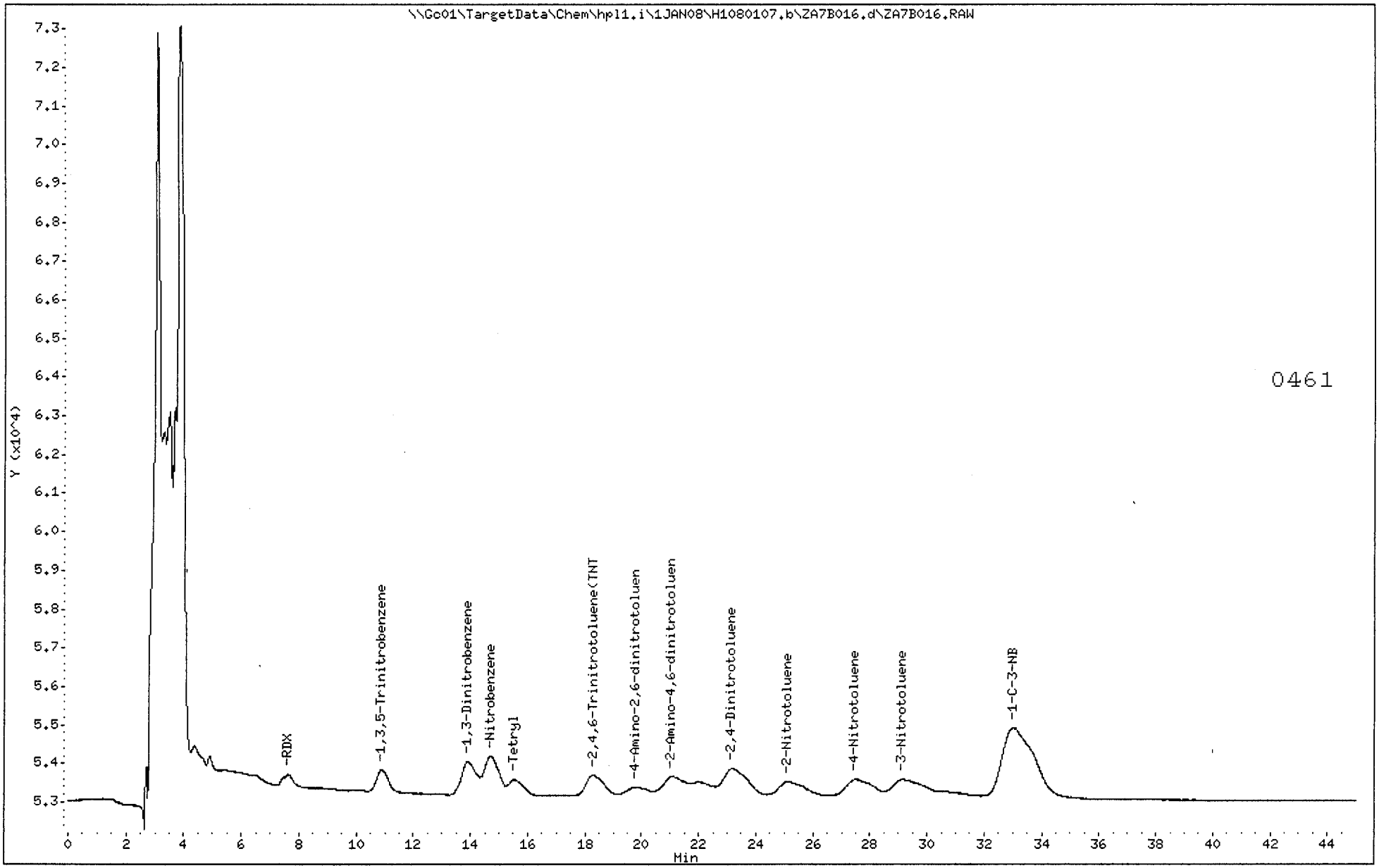
Client Name: In-house QC Account
Lab Smp Id: 427754
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Client Smp ID: 9716422011MS
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.248756	U
121-82-4	RDX	0.910103	
99-35-4	1,3,5-Trinitrobenzene	0.855705	
99-65-0	1,3-Dinitrobenzene	0.917078	
98-95-3	Nitrobenzene	0.964301	
479-45-8	Tetryl	0.926563	
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.830772	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.176082	J
35572-78-2	2-Amino-4,6-dinitrotoluene	0.340275	
606-20-2	2,6-Dinitrotoluene	0.248756	U
121-14-2	2,4-Dinitrotoluene	0.714994	
88-72-2	2-Nitrotoluene	0.844254	
99-99-0	4-Nitrotoluene	0.750652	
99-08-1	3-Nitrotoluene	0.611818	
121-73-3	1-C-3-NB	4.40397	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B016.d
Date : 08-JAN-2008 03:50
Client ID: 9716422011MS
Sample Info: 427754
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



0461

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A017.d
Lab Smp Id: 427755 Client Smp ID: 9716422011MSD
Inj Date : 08-JAN-2008 04:36
Operator : ELC Inst ID: hpl1.i
Smp Info : 427755
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	1.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	4.916	4.925	-0.009	33504	87.0245	1.58226
2 RDX	7.650	7.650	0.000	26242	96.6342	1.75698
3 1,3,5-Trinitrobenzene	10.875	10.916	-0.041	67216	95.1793	1.73053
4 1,3-Dinitrobenzene	13.900	13.933	-0.033	56882	99.7665	1.81394(M)
5 Nitrobenzene	14.641	14.708	-0.067	14035	96.0868	1.74703(M)
6 Tetryl	15.550	15.583	-0.033	43873	95.1288	1.72961(M)
7 2,4,6-Trinitrotoluene(TNT)	18.266	18.316	-0.050	40986	84.3296	1.53326
8 4-Amino-2,6-dinitrotoluene	19.816	19.850	-0.034	38905	64.3271	1.16958
9 2-Amino-4,6-dinitrotoluene	21.075	21.125	-0.050	41128	78.5528	1.42823
10 2,6-Dinitrotoluene	21.975	22.058	-0.083	31978	102.322	1.86041
11 2,4-Dinitrotoluene	23.150	23.216	-0.066	41116	105.746	1.92266
12 2-Nitrotoluene	Compound Not Detected.					
13 4-Nitrotoluene	27.383	27.500	-0.117	1002	12.8363	0.233387(aR)
14 3-Nitrotoluene	29.091	29.191	-0.100	1023	9.74977	0.177269(aR)
$ 15 1-C-3-NB	33.025	33.075	-0.050	61535	522.492	9.49986

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0462

DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW JT 1/9/08

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427755
Client Smp ID: 9716422011MSD
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: MSD
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS	
1 HMX	1.81818	1.58226	87.02	75-125	✓
2 RDX	1.81818	1.75698	96.63	70-135	✓
3 1,3,5-Trinitrobenz	1.81818	1.73053	95.18	75-125	✓
4 1,3-Dinitrobenzene	1.81818	1.81394	99.77	80-125	✓
6 Tetryl	1.81818	1.72961	95.13	20-175	
5 Nitrobenzene	1.81818	1.74703	96.09	50-140	
7 2,4,6-Trinitrotolu	1.81818	1.53326	84.33	50-145	✓
8 4-Amino-2,6-dinitr	1.81818	1.16958	64.33	55-155	✓
9 2-Amino-4,6-dinitr	1.81818	1.42823	78.55	50-155	✓
10 2,6-Dinitrotoluene	1.81818	1.86041	102.32	60-135	✓
11 2,4-Dinitrotoluene	1.81818	1.92266	105.75	60-135	✓
12 2-Nitrotoluene	1.81818	0.000000	*	45-135	
13 4-Nitrotoluene	1.81818	0.233387	12.84*	50-130	
14 3-Nitrotoluene	1.81818	0.177269	9.75*	50-130	

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	9.09091	9.49986	104.50	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

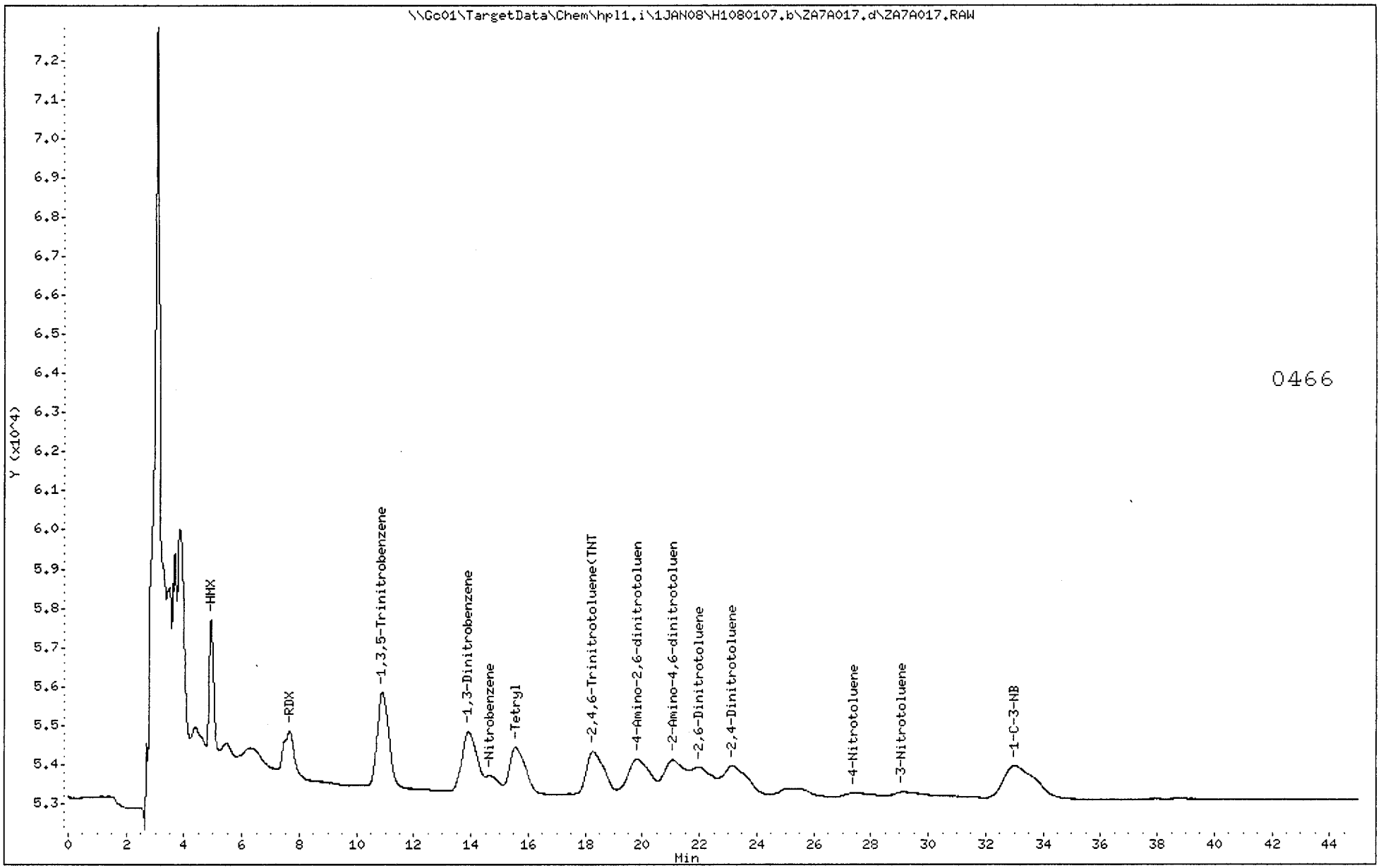
Client Name: In-house QC Account
Lab Smp Id: 427755
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Client Smp ID: 9716422011MSD
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	1.58226	
121-82-4	RDX	1.75698	
99-35-4	1,3,5-Trinitrobenzene	1.73053	
99-65-0	1,3-Dinitrobenzene	1.81394	
98-95-3	Nitrobenzene	1.74703	
479-45-8	Tetryl	1.72961	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.53326	
1946-51-0	4-Amino-2,6-dinitrotoluene	1.16958	
35572-78-2	2-Amino-4,6-dinitrotoluene	1.42823	
606-20-2	2,6-Dinitrotoluene	1.86041	
121-14-2	2,4-Dinitrotoluene	1.92266	
88-72-2	2-Nitrotoluene	0.454545	U
99-99-0	4-Nitrotoluene	0.233387	J
99-08-1	3-Nitrotoluene	0.177269	J
121-73-3	1-C-3-NB	9.49986	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A017.d
Date : 08-JAN-2008 04:36
Client ID: 9716422011MSD
Sample Info: 427755
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i
Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B017.d
Lab Smp Id: 427755 Client Smp ID: 9716422011MSD
Inj Date : 08-JAN-2008 04:36
Operator : ELC Inst ID: hpl1.i
Smp Info : 427755
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5B008.d
Als bottle: 19 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	1.100	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	7.650	7.641	0.009	7171	95.2371	1.73158
3 1,3,5-Trinitrobenzene	10.866	10.908	-0.042	15328	83.3396	1.51526
4 1,3-Dinitrobenzene	13.916	13.925	-0.009	30479	93.6286	1.70234(M)
5 Nitrobenzene	14.683	14.725	-0.042	38143	100.819	1.83307(M)
6 Tetryl	15.516	15.641	-0.125	14655	96.9293	1.76235(M)
7 2,4,6-Trinitrotoluene(TNT)	18.250	18.333	-0.083	21039	85.4295	1.55326
8 4-Amino-2,6-dinitrotoluene	19.850	19.891	-0.041	5593	36.9310	0.671473(R)
9 2-Amino-4,6-dinitrotoluene	21.050	21.158	-0.108	9623	32.3265	0.587754(R)
10 2,6-Dinitrotoluene	Compound Not Detected.					
11 2,4-Dinitrotoluene	23.150	23.216	-0.066	27120	71.9046	1.30736
12 2-Nitrotoluene	25.158	25.166	-0.008	20668	87.2408	1.58620
13 4-Nitrotoluene	27.483	27.525	-0.042	23572	78.3696	1.42490
14 3-Nitrotoluene	29.141	29.183	-0.042	23323	70.0712	1.27402
$ 15 1-C-3-NB	33.016	33.033	-0.017	138855	465.545	8.46445

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QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427755
Client Smp ID: 9716422011MSD
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: MSD
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	1.81818	0.000000	*	75-125
2 RDX	1.81818	1.73158	95.24	70-135
3 1,3,5-Trinitrobenz	1.81818	1.51526	83.34	75-125
4 1,3-Dinitrobenzene	1.81818	1.70234	93.63	80-125
6 Tetryl	1.81818	1.76235	96.93	20-175 ✓
5 Nitrobenzene	1.81818	1.83307	100.82	50-140 ✓
7 2,4,6-Trinitrotolu	1.81818	1.55326	85.43	50-145
8 4-Amino-2,6-dinitr	1.81818	0.671473	36.93*	55-155
9 2-Amino-4,6-dinitr	1.81818	0.587754	32.33*	50-155
10 2,6-Dinitrotoluene	1.81818	0.000000	*	60-135
11 2,4-Dinitrotoluene	1.81818	1.30736	71.90	60-135
12 2-Nitrotoluene	1.81818	1.58620	87.24	45-135 ✓
13 4-Nitrotoluene	1.81818	1.42490	78.37	50-130 ✓
14 3-Nitrotoluene	1.81818	1.27402	70.07	50-130 ✓

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	9.09091	8.46445	93.11	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: In-house QC Account
Lab Smp Id: 427755
Sample Location:
Sample Date: 20-DEC-2007
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

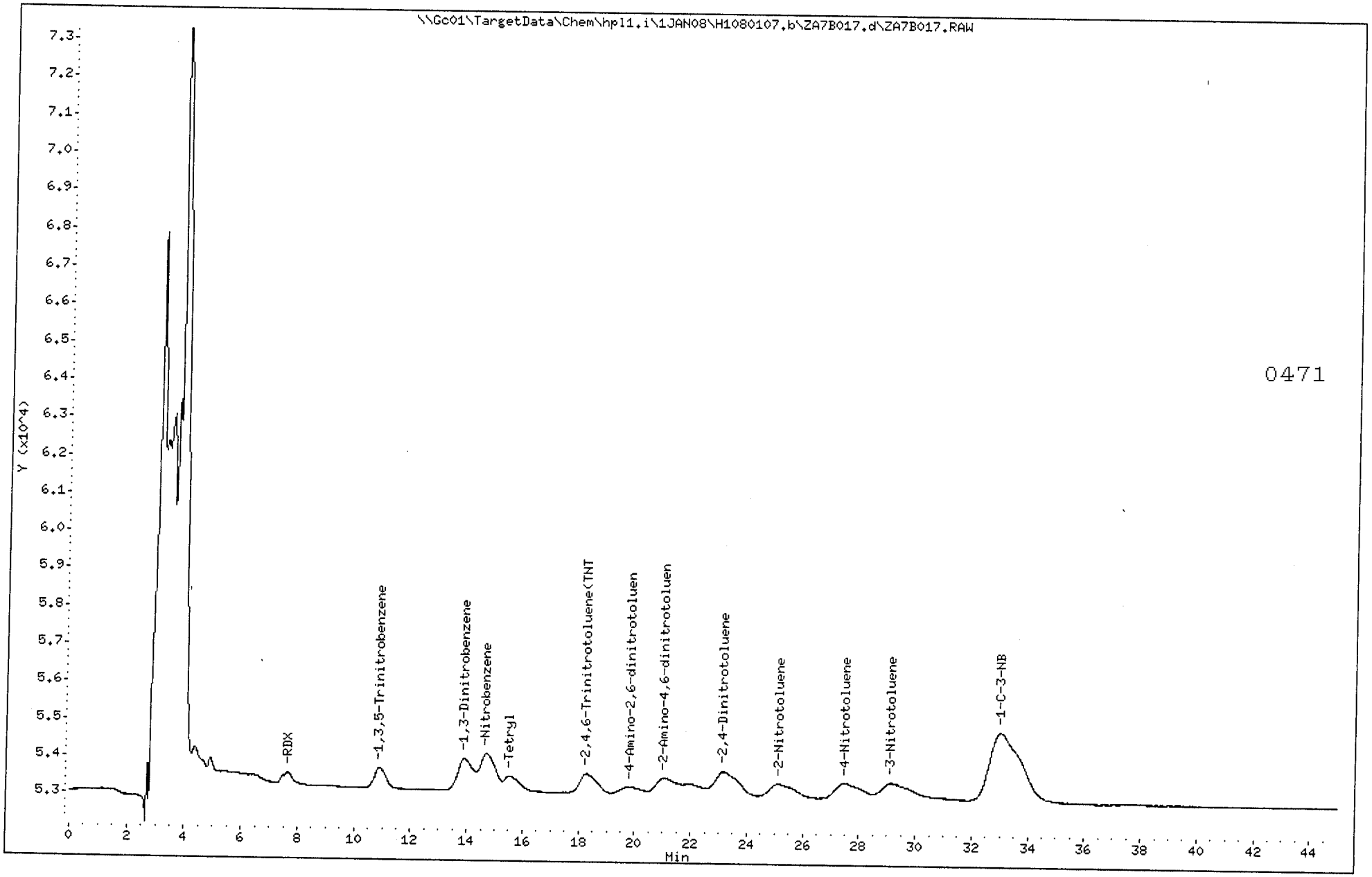
Client SDG: H1080107.b
Client Smp ID: 9716422011MSD
Sample Point:
Date Received: 20-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.454545	U
121-82-4	RDX	1.73158	
99-35-4	1,3,5-Trinitrobenzene	1.51526	
99-65-0	1,3-Dinitrobenzene	1.70234	
98-95-3	Nitrobenzene	1.83307	
479-45-8	Tetryl	1.76235	
118-96-7	2,4,6-Trinitrotoluene(TNT)	1.55326	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.671473	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.587754	
606-20-2	2,6-Dinitrotoluene	0.454545	U
121-14-2	2,4-Dinitrotoluene	1.30736	
88-72-2	2-Nitrotoluene	1.58620	
99-99-0	4-Nitrotoluene	1.42490	
99-08-1	3-Nitrotoluene	1.27402	
121-73-3	1-C-3-NB	8.46445	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B017.d
Date : 08-JAN-2008 04:36
Client ID: 9716422011MSD
Sample Info: 427755
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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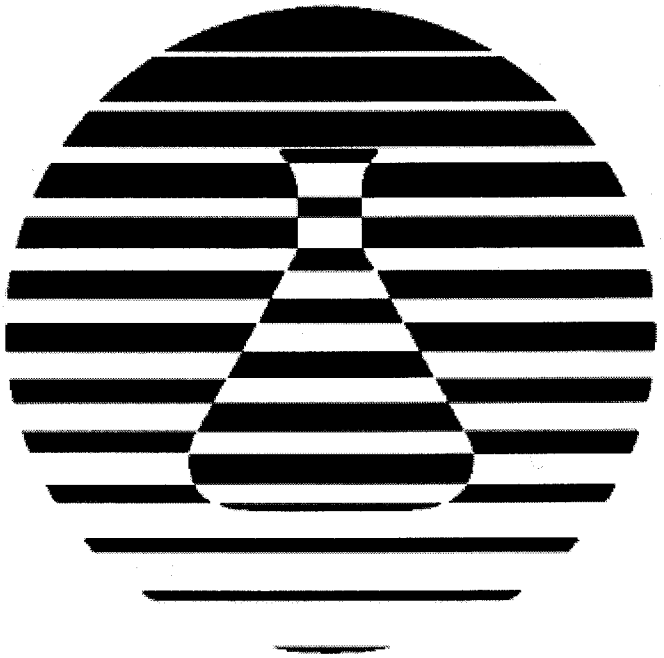

DIVIDER PAGE

Explosives by 8330A LCS
Raw Data

Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A003.d
Lab Smp Id: 427753 Client Smp ID: LCS for HBN 211504
Inj Date : 07-JAN-2008 17:54
Operator : ELC Inst ID: hpl1.i
Smp Info : 427753
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Meth Date : 08-Jan-2008 14:14 hpl1.i Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37 Cal File: ZK5A008.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (mg/kg)
1 HMX	4.925	4.933	-0.008	38127	99.0324	0.990324
2 RDX	7.641	7.666	-0.025	28688	105.641	1.05641
3 1,3,5-Trinitrobenzene	10.925	10.950	-0.025	72243	102.298	1.02298
4 1,3-Dinitrobenzene	13.941	13.975	-0.034	58141	101.975	1.01975
5 Nitrobenzene	14.750	14.766	-0.016	14660	100.366	1.00366
6 Tetryl	15.616	15.650	-0.034	48081	104.253	1.04253
7 2,4,6-Trinitrotoluene(TNT)	18.350	18.375	-0.025	47712	98.1685	0.981684
8 4-Amino-2,6-dinitrotoluene	19.858	19.916	-0.058	59480	98.3466	0.983466
9 2-Amino-4,6-dinitrotoluene	21.166	21.191	-0.025	52096	99.5012	0.995012
10 2,6-Dinitrotoluene	22.150	22.175	-0.025	31264	100.038	1.00038
11 2,4-Dinitrotoluene	23.291	23.316	-0.025	39411	101.361	1.01361
12 2-Nitrotoluene	25.275	25.241	0.034	13391	114.540	1.14540
13 4-Nitrotoluene	27.616	27.625	-0.009	8374	107.276	1.07276
14 3-Nitrotoluene	29.283	29.316	-0.033	10473	99.8137	0.998137
$ 15 1-C-3-NB	33.191	33.233	-0.042	62513	530.796	5.30796

All

All

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DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW [illegible] 1/9/08

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427753
Client Smp ID: LCS for HBN 211504
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: LCS
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	1.00000	0.990324	99.03	75-125
2 RDX	1.00000	1.05641	105.64	70-135
3 1,3,5-Trinitrobenz	1.00000	1.02298	102.30	75-125
4 1,3-Dinitrobenzene	1.00000	1.01975	101.97	80-125
6 Tetryl	1.00000	1.04253	104.25	20-175
5 Nitrobenzene	1.00000	1.00366	100.37	50-140
7 2,4,6-Trinitrotolu	1.00000	0.981684	98.17	50-145
8 4-Amino-2,6-dinitr	1.00000	0.983466	98.35	55-155
9 2-Amino-4,6-dinitr	1.00000	0.995012	99.50	50-155
10 2,6-Dinitrotoluene	1.00000	1.00038	100.04	60-135
11 2,4-Dinitrotoluene	1.00000	1.01361	101.36	60-135
12 2-Nitrotoluene	1.00000	1.14540	114.54	45-135
13 4-Nitrotoluene	1.00000	1.07276	107.28	50-130
14 3-Nitrotoluene	1.00000	0.998137	99.81	50-130

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	5.00000	5.30796	106.16	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: In-house QC Account
Lab Smp Id: 427753
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

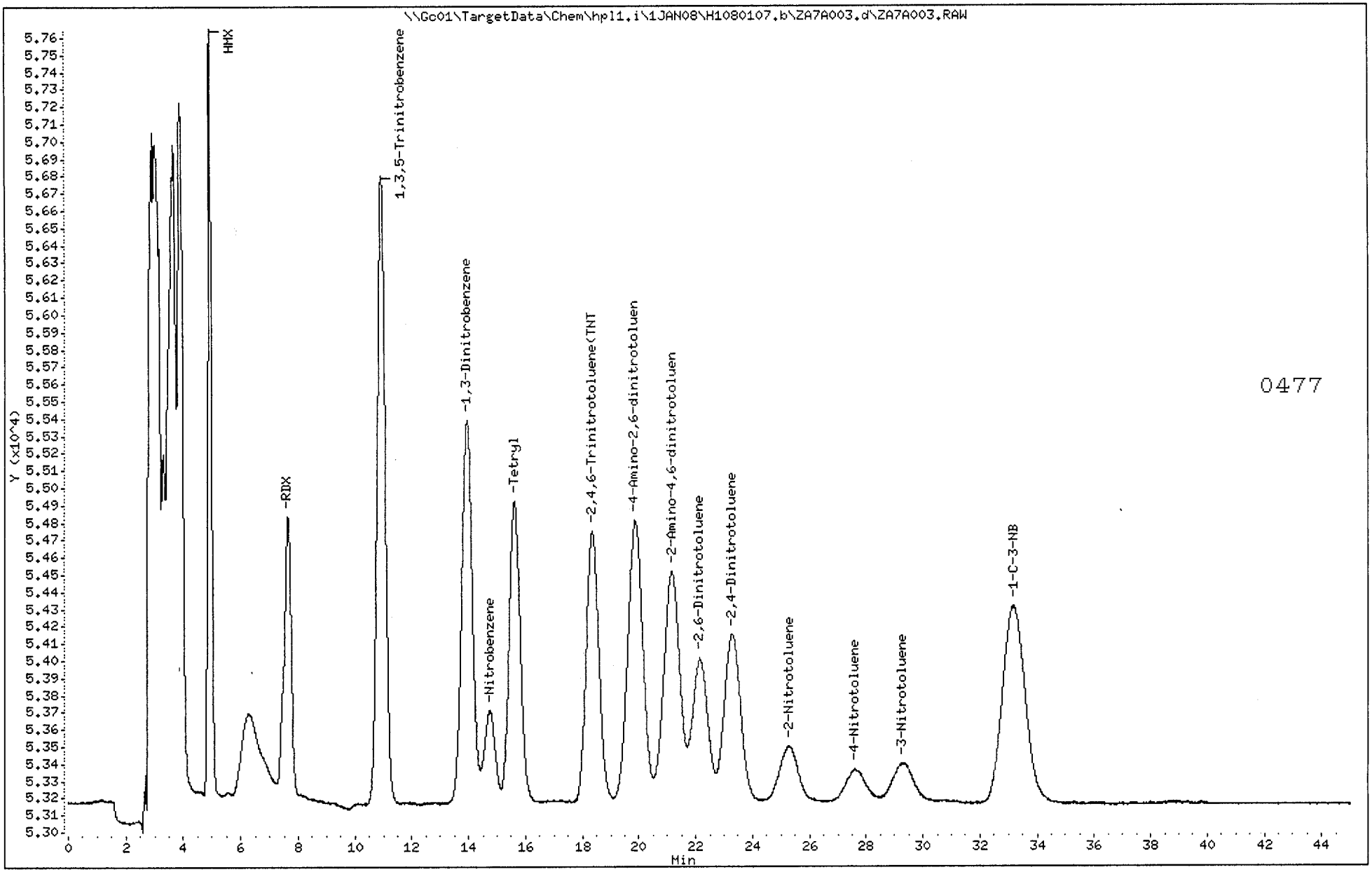
Client SDG: H1080107.b
Client Smp ID: LCS for HBN 211504
Sample Point:
Date Received: 27-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.990324	
121-82-4	RDX	1.05641	
99-35-4	1,3,5-Trinitrobenzene	1.02298	
99-65-0	1,3-Dinitrobenzene	1.01975	
98-95-3	Nitrobenzene	1.00366	
479-45-8	Tetryl	1.04253	
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.981684	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.983466	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.995012	
606-20-2	2,6-Dinitrotoluene	1.00038	
121-14-2	2,4-Dinitrotoluene	1.01361	
88-72-2	2-Nitrotoluene	1.14540	
99-99-0	4-Nitrotoluene	1.07276	
99-08-1	3-Nitrotoluene	0.998137	
121-73-3	1-C-3-NB	5.30796	

Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7A003.d
Date : 07-JAN-2008 17:54
Client ID: LCS for HBN 211504
Sample Info: 427753
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



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Analytical Laboratory Services, Inc.

EXPLOSIVES ANALYSIS

Data file : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B003.d
Lab Smp Id: 427753
Client Smp ID: LCS for HBN 211504
Inj Date : 07-JAN-2008 17:54
Operator : ELC
Inst ID: hpl1.i
Smp Info : 427753
Misc Info : ZZ HPLC 1922 8330S
Comment :
Method : \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Meth Date : 08-Jan-2008 14:15 hpl1.i
Quant Type: ESTD
Cal Date : 05-NOV-2007 15:37
Cal File: ZK5B008.d
Als bottle: 5
QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 4.12
Processing Host: WMMS014

Concentration Formula: Amt * DF * UF*(Vt/(Vi * Ws * (100 - M)/100)) * CpndVa

Name	Value	Description
DF	1.000	Dilution Factor
UF	0.00010	CORRECTION FACTOR
Vt	20000.000	Volume of final extract (uL)
Vi	100.000	Volume injected (uL)
Ws	2.000	Weight of sample extracted (g)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (mg/kg)
1 HMX	Compound Not Detected.					
2 RDX	7.641	7.658	-0.017	8165	108.438	1.08438
3 1,3,5-Trinitrobenzene	10.916	10.950	-0.034	16848	91.6040	0.916040
4 1,3-Dinitrobenzene	13.941	13.975	-0.034	33054	101.539	1.01539
5 Nitrobenzene	14.733	14.766	-0.033	38102	100.711	1.00710
6 Tetryl	15.625	15.641	-0.016	15311	101.268	1.01268
7 2,4,6-Trinitrotoluene(TNT)	18.341	18.358	-0.017	22585	91.7071	0.917071
8 4-Amino-2,6-dinitrotoluene	19.858	19.908	-0.050	14669	96.8605	0.968605
9 2-Amino-4,6-dinitrotoluene	21.150	21.191	-0.041	29269	98.3232	0.983232
10 2,6-Dinitrotoluene	22.116	22.208	-0.092	14308	95.5276	0.955276
11 2,4-Dinitrotoluene	23.300	23.308	-0.008	37491	99.4018	0.994018
12 2-Nitrotoluene	25.241	25.250	-0.009	22383	94.4799	0.944799
13 4-Nitrotoluene	27.641	27.616	0.025	28557	94.9431	0.949431
14 3-Nitrotoluene	29.300	29.325	-0.025	29738	89.3443	0.893443
$ 15 1-C-3-NB	33.183	33.208	-0.025	137101	459.664	4.59664

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DATA REVIEW ELC 1/8/8
REPORTED ELC 1/8/8
APPROVED ELC 1/8/8
2nd REVIEW

ELC 1/8/8

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427753
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_S.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: LCS for HBN 211504
Operator: ELC
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	1.00000	0.000000	*	75-125
2 RDX	1.00000	1.08438	108.44	70-135
3 1,3,5-Trinitrobenz	1.00000	0.916040	91.60	75-125
4 1,3-Dinitrobenzene	1.00000	1.01539	101.54	80-125
6 Tetryl	1.00000	1.01268	101.27	20-175
5 Nitrobenzene	1.00000	1.00710	100.71	50-140
7 2,4,6-Trinitrotolu	1.00000	0.917071	91.71	50-145
8 4-Amino-2,6-dinitr	1.00000	0.968605	96.86	55-155
9 2-Amino-4,6-dinitr	1.00000	0.983232	98.32	50-155
10 2,6-Dinitrotoluene	1.00000	0.955276	95.53	60-135
11 2,4-Dinitrotoluene	1.00000	0.994018	99.40	60-135
12 2-Nitrotoluene	1.00000	0.944799	94.48	45-135
13 4-Nitrotoluene	1.00000	0.949431	94.94	50-130
14 3-Nitrotoluene	1.00000	0.893443	89.34	50-130

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	5.00000	4.59664	91.93	50-150

Analytical Laboratory Services, Inc.

TARGET COMPOUNDS

Client Name: In-house QC Account
Lab Smp Id: 427753
Sample Location:
Sample Date:
Sample Matrix: SOIL
Analysis Type: SV
Data Type: LC DATA
Misc Info: ZZ HPLC 1922 8330S

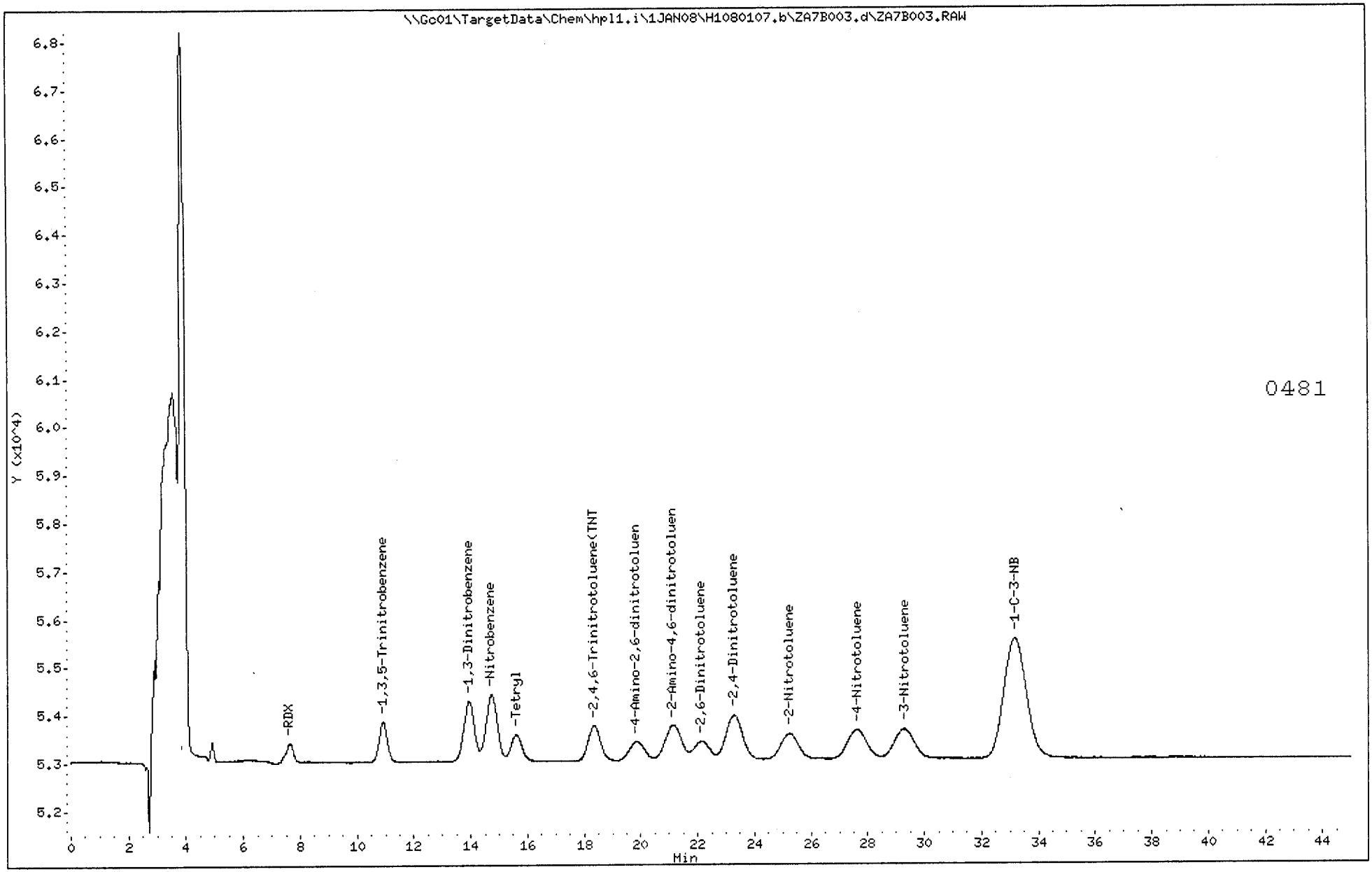
Client SDG: H1080107.b
Client Smp ID: LCS for HBN 211504
Sample Point:
Date Received: 27-DEC-2007
Quant Type: ESTD
Level: LOW
Operator: ELC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) mg/kg	Q
2691-41-0	HMX	0.250000	U
121-82-4	RDX	1.08438	
99-35-4	1,3,5-Trinitrobenzene	0.916040	
99-65-0	1,3-Dinitrobenzene	1.01539	
98-95-3	Nitrobenzene	1.00710	
479-45-8	Tetryl	1.01268	
118-96-7	2,4,6-Trinitrotoluene(TNT)	0.917071	
1946-51-0	4-Amino-2,6-dinitrotoluene	0.968605	
35572-78-2	2-Amino-4,6-dinitrotoluene	0.983232	
606-20-2	2,6-Dinitrotoluene	0.955276	
121-14-2	2,4-Dinitrotoluene	0.994018	
88-72-2	2-Nitrotoluene	0.944799	
99-99-0	4-Nitrotoluene	0.949431	
99-08-1	3-Nitrotoluene	0.893443	
121-73-3	1-C-3-NB	4.59664	

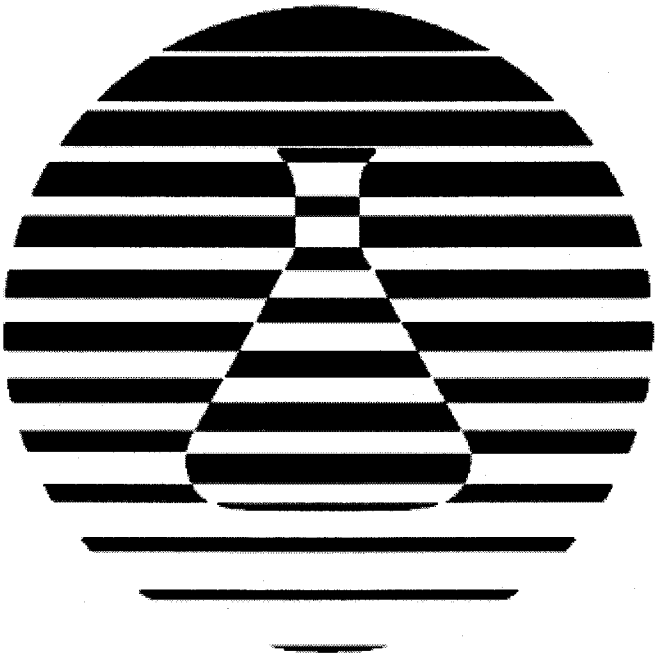
Data File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\ZA7B003.d
Date : 07-JAN-2008 17:54
Client ID: LCS for HBN 211504
Sample Info: 427753
Volume Injected (uL): 100.0
Column phase: C18

Instrument: hpl1.i

Operator: ELC
Column diameter: 4.60



0481



DIVIDER PAGE

Volatile Organics Extraction Logbook

Work continued from page:____

HPLC EXTRACTION

Work continued to page:____

EPA Method: 8330A

ALSI SOP: 09-8330S

Surrogate ID: 01-0553

Surrogate Amount: 10.0 µL

Extraction:	Date	Time	Tech	Sonication:	Time On	Time Off	Total Hours Sonicated	Tech
	—	—	—		12/31/7 15:30	1/1/8 17:15	25.75 hr	ELC

Line #	Sample ID	Sample Amount	QC Type	Spike ID	Spike Amount	Final Volume	Elution Time	Sample Specific Comments (Include weigh data for drying, if applicable.)
1.)	427752	2.0 g	MB	—	—	20.0 mL	—	—
2.)	427753	2.0 g	LCS	01-0569	10.0 µL			—
3.)	9716422001	2.01 g						12.70 g 3.74 g 3.74 g
4.)	9716422002	2.05 g						11.48 g 7.25 g 7.25 g
5.)	9716422003	2.05 g						11.98 g 8.70 g 8.69 g
6.)	9716422004	2.02 g						13.19 g 9.38 g 9.37 g
7.)	9716422005	2.06 g						11.53 g 5.86 g 5.85 g
8.)	9716422006	2.01 g						11.29 g 6.12 g 6.12 g
9.)	9716422007	2.12 g						13.10 g 8.07 g 8.07 g
10.)	9716422008	2.10 g						12.96 g 6.70 g 6.70 g
11.)	9716422009	2.02 g						13.04 g 8.61 g 8.61 g
12.)	9716422010	2.06 g						11.94 g 7.46 g 7.46 g
13.)	9716422011	2.01 g						9.98 g 4.24 g 4.24 g
14.)	427754	2.01 g	MS	01-0569	10.0 µL			9.93 4.18 g 4.18 g
15.)	427755	1.10 g	MSD	01-0569	10.0 µL			insufficient dried sample available

Reagent Identification(s): ACN = Baker E45806, $CaCl_2$ = IB01037

Note: Sample Drying Started 15:00 12/27/7, 1ST check 09:00 12/31/7, 2ND check 13:00 12/31/7

Approved By: ELC

Date Approved: 1/3/8

Revised 2/1/05

Work continued from page: 30

HPLC EXTRACTION

Work continued to page: 30

EPA Method: Z

ALSI SOP:

Surrogate ID: Z

Surrogate Amount:

Extraction:	Date	Time	Tech	Sonication:	Time On	Time Off	Total Hours Sonicated	Tech

Line #	Sample ID	Sample Amount	QC Type	Spike ID	Spike Amount	Final Volume	Elution Time	Sample Specific Comments (Include weigh data for drying, if applicable.)
1.)	9716422012	2.03g				20.0mL	Z	11.27g 8.86g 8.85g
2.)	9716422013	2.12g				↓		12.39g 7.31g 7.31g
3.)								
4.)								
5.)	5870							
6.)								
7.)								
8.)								
9.)								
10.)								
11.)								
12.)								
13.)								
14.)								
15.)								

Reagent Identification(s): Z

Approved By: ELC

Date Approved: 1/3/8

Revised 2/1/05

Explosives by 8330A Analytical Logbook

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

Sequence: ZK5A Batch: H1071105 Method: 8330A Date: 11/5/7

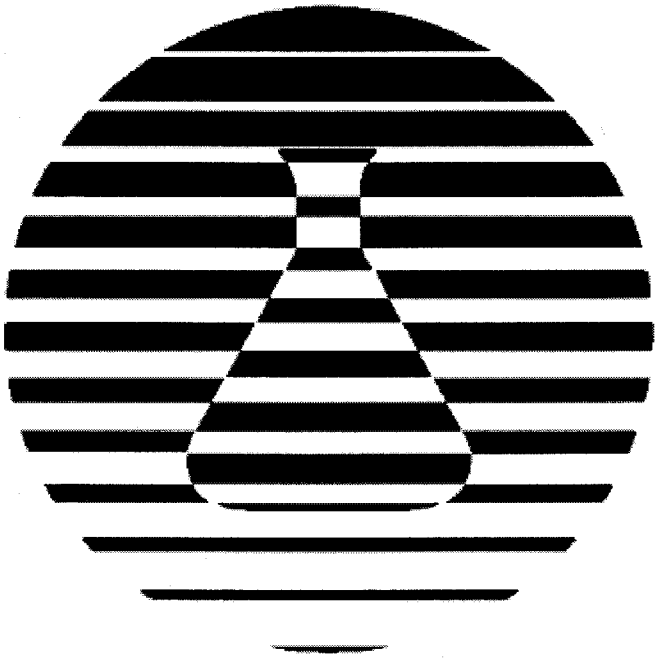
Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	LEVEL3	5.0µL	ELC	—	01-0569	Test Injection/NU
2	LEVEL1	1.0µL		ICAL	0	
3	LEVEL2	2.5µL				
4	LEVEL3	5.0µL				
5	LEVEL4	12.5µL				
6	LEVEL5	25.0µL				
7	LEVEL6	50.0µL				
8	LEVEL7	100.µL				
9	2ND Source CCV	100.µL		2nd Source CCV	01-0542 01-0541	

Reagents: Surrogate 01-0565, Methanol B&J CR018, 50/50 $CaCl_2$/ACN IB01614

Add'l. Comments:

0487

Revision 4/07



DIVIDER PAGE

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

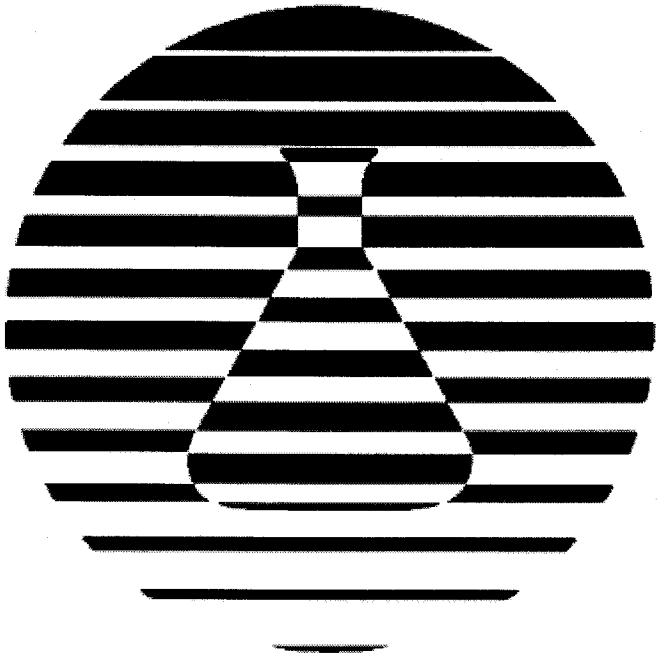
Sequence: ZA7A Batch: H1080107 Method: 8330A S Date: 1/7/8

Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	2ND Source CCV	100. µL	ELC	2ND Source/CCV	01-0591	
2	427752			MB	—	
3	427753			LCS	01-0569	
4	9716422001					
5	9716422002					
6	9716422003					
7	9716422004					
8	9716422005					
9	9716422006					
10	9716422007					
11	9716422008					
12	2ND Source CCV			2ND Source/CCV	01-0591	
13	9716422009					
14	9716422010					
15	9716422011					
16	427754			MS	01-0569	422-11 MS
17	427755			MSD	01-0569	422-11 MSD
18	9716422012			—	—	—
19	9716422013			—	—	—
20	2ND Source CCV			2ND Source/CCV	01-0591	low bias, std. old, reinject NU
21	2ND Source CCV			2ND Source/CCV	01-0591	fresh prep. OK

Reagents: Surrogate 01-0565, Methanol B&J CU807, $CaCl_2$/ACN IB01014

Add'l. Comments: ZA7A### files are measured @ 235 nm, ZA7B### files @ 265 nm
Reporting from 235 nm for HMX; RDX; 1,3,5-TNB; 1,3-DNB; 2,4,6-TNT; 4-a-2,6-DNT; 2-a-4,6-DNT; 2,6-DNT; 2,4-DNT.
Reporting from 265 nm for NB; Tetryl; 2-NT; 4-NT; 3-NT, Surrogate

Revision 4/07



DIVIDER PAGE

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

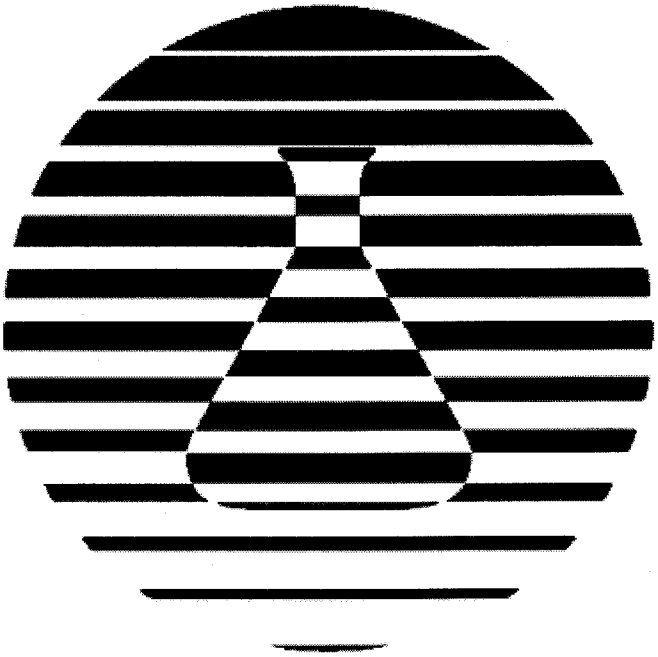
Sequence: ZKEA Batch: H1071114 Method: 8330A CONF Date: 11/14/7

Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	LEVEL 3	5.0µL	ELC	—	01-0569	Test Inj. / NU
2	LEVEL 1	1.0 µL		ICAL		
3	LEVEL 2	2.5 µL				
4	LEVEL 3	5.0 µL				
5	LEVEL 4	12.5 µL				
6	LEVEL 5	25.0 µL				
7	LEVEL 6	50.0 µL				
8	LEVEL 7	100. µL				
9	2ND Source CCV	100. µL		2ND Source/CCV	01-0542 01-0541	

Reagents: Surrogate 01-0565, Methanol BX CR018, 50/50 CaCl2/ACN IB01014

Add'l. Comments:

Revision 4/07



DIVIDER PAGE

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

Sequence: Z A8A Batch: H1080108 Method: 8330A CONF Date: 1/8/8

Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	2ND Source CCV	100 µL	ELC	2ND Source/CCV	01-0591	
2	9716422001					
3	9716422003					
4	9716422005					
5	9716422006					
6	9716422008					
7	9716422010					
8	2ND Source CCV			2ND Source/CCV	01-0591	

Reagents: Surrogate 01-0565, Methanol B&J CU807, CaCl2/ACN IB01014

Add'l. Comments:

Revision 4/07

Total Metals by 6010B Summary Forms

Sample Description
FITG1SSC11

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: 6010B
SDG No.: UUL-001

Matrix (soil/water): SOIL
Units: mg/Kg
% moisture: N/A
Date Analyzed: 12/31/2007

Lab Sample ID: 9716422011 (427796/427797)
Lab File ID: 123107
Instrument ID: TJA TRACE ICP
GC Column: N/A

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Lead	1.00	0.227	1.25	102		80-120

Analyte	Spike Added	MSD Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Lead	1.00	1.29	106		80-120	2.8		20

(1) The following qualifiers are used:
* : Values outside of acceptable limits
D : Spikes diluted out

Comments: These results are not prep factor corrected.

0465

Form 4B
Inorganic Blank Summary

Analysis Method: 6010B SDG No.: UUL-001

Prep Blank A Matrix (soil/water): SOIL Units: mg/Kg
Prep Blank B Matrix (soil/water): Units:

Analyte	Initial Calibration Blank (mg/L) (1)12/28/07	(2)	Continuing Calibration Blanks (mg/L) (1)12/28/07	(2)	(1)12/28/07	(2)	(1)12/28/07	(2)	Preparation Blank A ID:427706-MB (1)12/28/07	(2)	Preparation Blank B ID: (1)	(2)
LEAD	0.020	U	0.020	U	0.020	U	0.020	U	2.00	U		

(1) Analysis Date:12/28/07
(2) The following qualifiers are used: U: The analyte concentration is less than the reporting limit listed

0496

Form 4B
Inorganic Blank Summary

Analysis Method: 6010B

SDG No.: UUL-001

Prep Blank A Matrix (soil/water): SOIL

Units: mg/Kg

Prep Blank B Matrix (soil/water):

Units:

Analyte	Initial Calibration Blank (mg/L) (1)12/31/07	(2)	Continuing Calibration Blanks (mg/L) (1)12/31/07	(2)	(1)12/31/07	(2)	(1)12/31/07	(2)	Preparation Blank A ID:427794-MB (1)12/31/07	(2)	Preparation Blank B ID: (1)	(2)
LEAD	0.020	U	0.020	U	0.020	U	0.020	U	2.00	U		

(1) Analysis Date:12/28/07

(2) The following qualifiers are used: U: The analyte concentration is less than the reporting limit listed

0497

Form 4B
Inorganic Blank Summary

Analysis Method: 6010B SDG No.: UUL-001

Prep Blank A Matrix (soil/water): Units:
Prep Blank B Matrix (soil/water): Units:

Analyte	Continuing Calibration Blanks (mg/L)								Preparation Blank A ID:		Preparation Blank B ID:	
	(1)12/31/07	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Lead	0.020	U										

(1) Analysis Date: 12/31/07
(2) The following qualifiers are used: U: The analyte concentration is less than the reporting limit listed

Comments: These results are not prep factor corrected.

0498

Form 5
ICP Interference Check Summary

Analysis Method: 6010B

SDG No.: UUL-001

Date Analyzed: 12/28/2007
Instrument ID: TJA TRACE ICP

Concentration Units: mg/L

Analyte	Int. Check Concentration	Initial Analysis			Mid-Analysis			Final-Analysis			Acceptable Limits (%)
		Int. Check Concentration Found	Recovery (%)	(1)	Int. Check Concentration Found	Recovery (%)	(1)	Int. Check Concentration Found	Recovery (%)	(1)	
VANADIUM	0.75	0.81	108		0.80	107		0.78	104		80-120
SILVER	0.75	0.84	112		0.84	112		0.82	110		80-120
ALUMINUM	30.0	30.8	103		30.4	101		29.7	99		80-120
ARSENIC	2.50	2.82	113		2.78	111		2.70	108		80-120
BARIUM	0.75	0.79	105		0.78	104		0.77	102		80-120
BERYLLIUM	0.25	0.26	102		0.25	102		0.25	98		80-120
CADMIUM	0.75	0.76	101		0.75	99		0.72	96		80-120
CALCIUM	150	148	99		145	97		141	94		80-120
CHROMIUM	0.75	0.78	104		0.77	103		0.75	100		80-120
COBALT	0.75	0.81	108		0.81	107		0.78	103		80-120
COPPER	0.75	0.83	111		0.82	109		0.81	108		80-120
IRON	125	138	110		136	109		132	105		80-120
LEAD	2.50	2.52	101		2.49	100		2.40	96		80-120
MAGNESIUM	75.0	77.5	103		75.8	101		73.3	98		80-120
MANGANESE	0.50	0.54	108		0.53	106		0.51	103		80-120
NICKEL	0.75	0.80	106		0.79	105		0.76	101		80-120
SELENIUM	1.25	1.32	106		1.30	104		1.26	101		80-120
THALLIUM	2.50	2.32	93		2.31	92		2.23	89		80-120
ZINC	0.75	0.81	108		0.80	107		0.78	104		80-120

(1) The following qualifiers are used:

* : Value outside of acceptable limits

Comments:

0499

Form 5
ICP Interference Check Summary

Analysis Method: 6010B UUL-001

Date Analyzed: 12/31/2007
Instrument ID: TJA TRACE ICP

Concentration Units: mg/L

Analyte	Int. Check Concentration	Initial Analysis			Final-Analysis			Acceptable Limits (%)
		Int. Check Concentration Found	Recovery (%)	(1)	Int. Check Concentration Found	Recovery (%)	(1)	
VANADIUM	0.75	0.78	103		0.76	102		80-120
SILVER	0.75	0.75	100		0.75	100		80-120
ALUMINUM	30.0	30.7	102		30.4	101		80-120
ARSENIC	2.50	2.72	109		2.62	105		80-120
BARIUM	0.75	0.77	103		0.76	101		80-120
BERYLLIUM	0.25	0.26	103		0.26	103		80-120
CADMIUM	0.75	0.76	101		0.73	97		80-120
CALCIUM	150	147	98		141	94		80-120
CHROMIUM	0.75	0.77	102		0.73	97		80-120
COBALT	0.75	0.76	101		0.74	99		80-120
COPPER	0.75	0.75	101		0.71	94		80-120
IRON	125	125	100		120	96		80-120
LEAD	2.50	2.59	104		2.56	103		80-120
MAGNESIUM	75.0	77.0	103		72.9	97		80-120
MANGANESE	0.50	0.50	99		0.47	95		80-120
NICKEL	0.75	0.74	99		0.72	95		80-120
SELENIUM	1.25	1.32	106		1.29	103		80-120
THALLIUM	2.50	2.68	107		2.67	107		80-120
ZINC	0.75	0.75	100		0.73	97		80-120

(1) The following qualifiers are used:

Comments:

0500

Form 6B
Inorganic Initial and Continuing Calibration Summary

Analysis Method: 6010B

SDG No.: UUL-001

Instrument ID: TJA TRACE ICP
Concentration Units: mg/L

Analyte	Initial Calibration					Continuing Calibration							
	True Conc.	Conc. Recovered (1)12/28/07	Recovery (%)	(2)	Acc. Limit (%)	True Conc.	Conc. Recovered (1)12/28/07	Recovery (%)	(2)	Conc. Recovered (1)12/28/07	Recovery (%)	(2)	Acc. Limit (%)
LEAD	1.00	1.01	101		90-110	0.250	0.238	95		0.237	95		90-110

(1) Analysis Date: 12/28/07
(2) The following qualifiers are used: * : Values outside of acceptable limits

Comments:

0501

Form 6B
Continuing Calibration Summary

Analysis Method: 6010B

SDG No.: UUL-001

Instrument ID: TJA TRACE ICP
Concentration Units: mg/L

Analyte	Continuing Calibration													
	True Conc.	Conc. Recovered (1)12/28/07	Recovery (%)	(2)	Conc. Recovered (1)12/28/07	Recovery (%)	(2)	Conc. Recovered (1)	Recovery (%)	(2)	Conc. Recovered (1)	Recovery (%)	(2)	Acc. Limit (%)
LEAD	0.250	0.247	99		0.249	100								90-110

(1) Analysis Date:12/28/07
(2) The following qualifiers are used: * : Values outside of acceptable limits

Comments:

0502

Form 6B
Inorganic Initial and Continuing Calibration Summary

Analysis Method: 6010B

SDG No.: UUL-001

Instrument ID: TJA TRACE ICP
Concentration Units: mg/L

Analyte	Initial Calibration					Continuing Calibration							
	True Conc.	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Acc. Limit (%)	True Conc.	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Acc. Limit (%)
LEAD	1.00	1.03	103		90-110	0.250	0.255	102		0.255	102		90-110

(1) Analysis Date: 12/31/07
(2) The following qualifiers are used: * : Values outside of acceptable limits

Comments:

0503

Form 6B
Continuing Calibration Summary

Analysis Method: 6010B

SDG No.: UUL-001

Instrument ID: TJA TRACE ICP
Concentration Units: mg/L

Analyte	Continuing Calibration													
	True Conc.	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Conc. Recovered (1)12/31/07	Recovery (%)	(2)	Conc. Recovered (1)	Recovery (%)	(2)	Acc. Limit (%)
LEAD	0.250	0.248	99		0.251	100		0.247	99					90-110

(1) Analysis Date:12/31/07
(2) The following qualifiers are used: * : Values outside of acceptable limits

Comments:

0504

Form 8B
Laboratory Control Sample (LCS) Recovery Summary

Analysis Method: 6010B
Matrix (soil/water): SOIL
Units: mg/Kg
Date Analyzed: 12/28/2007

SDG No.: UUL-001
Lab Sample ID: 427707-LCS
Lab File ID: 122807
Instrument ID: TJA TRACE ICP
GC Column: N/A

Analyte	Concentration Added	Concentration Recovered	LCS Recovery (%)	(1)	Acceptable Limits (%)
LEAD	1.00	0.972	97		80-120

(1) The following qualifiers are used: * : Values outside of acceptable limits

Comments: Results are not prep factor corrected.

0505

Form 8B
Laboratory Control Sample (LCS) Recovery Summary

Analysis Method: 6010B
Matrix (soil/water): SOIL
Units: mg/Kg
Date Analyzed: 12/31/2007

SDG No.: UUL-001
Lab Sample ID: 427795-LCS
Lab File ID: 123107
Instrument ID: TJA TRACE ICP
GC Column: N/A

Analyte	Concentration Added	Concentration Recovered	LCS Recovery (%)	(1)	Acceptable Limits (%)
LEAD	1.00	1.02	102		80-120

(1) The following qualifiers are used: * : Values outside of acceptable limits

Comments: Results are not prep factor corrected.

0506

Total Metals by 6010B Raw Data

Total Metals by 6010B
Sample Raw Data

Method: SCICPHSB Sample Name: 9716422001(JWK) Operator:
Run Time: 12/31/07 01:52:41
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.48	.0027	-.0008	.3339	.0033	.0019	.0469
SDev	.05	.0029	.0047	.0009	.0000	.0016	.0019
%RSD	.1604	106.8	600.4	.2739	.0084	84.37	4.083
#1	30.52	.0007	-.0041	.3345	.0033	.0031	.0482
#2	30.45	.0048	.0026	.3332	.0033	.0008	.0455

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	2.823	.0232	.0121	.0542	13.26	.4323
SDev	.0004	.002	.0001	.0008	.0009	.02	.0018
%RSD	14.97	.0790	.4046	6.579	1.715	.1223	.4161
#1	.0030	2.821	.0231	.0115	.0535	13.27	.4336
#2	.0024	2.824	.0233	.0126	.0549	13.25	.4310

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0076	1.560	.3348	-.0004	.0819	-.0001	.0306
SDev	.0038	.010	.0001	.0006	.0006	.0006	.0000
%RSD	50.21	.6115	.0388	152.8	.7167	494.5	.0698
#1	.0049	1.553	.3347	-.0008	.0823	.0003	.0306
#2	.0103	1.567	.3349	.0000	.0815	-.0005	.0305

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0029	.2769	.0397	.2167	.4329	.4320
SDev	.0107	.0053	.0003	.0004	.0012	.0013	.0034
%RSD	7776.	183.9	.1264	1.093	.5746	.3022	.7759
#1	.0077	.0009	.2767	.0400	.2158	.4320	.4344
#2	-.0074	-.0067	.2772	.0394	.2175	.4338	.4297

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0162	.0033	.1772	4.338
SDev	.0030	.0072	.0038	.013
%RSD	18.73	219.5	2.169	.3085
#1	.0183	-.0018	.1799	4.328
#2	.0140	.0084	.1745	4.347

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19190	--	--	--	--	--	--
SDev	108.8945	--	--	--	--	--	--
%RSD	.5674541	--	--	--	--	--	--
#1	19267	--	--	--	--	--	--
#2	19113	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422002(JWK) Operator:
Run Time: 12/31/07 01:57:12
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	74.39	.0013	.0055	.3867	.0015	.0069	.0664
SDev	.11	.0020	.0013	.0008	.0001	.0080	.0035
%RSD	.1525	151.4	23.62	.2042	5.458	116.7	5.250
#1	74.47	.0027	.0046	.3873	.0015	.0012	.0639
#2	74.31	-.0001	.0064	.3861	.0014	.0126	.0688

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	1.253	.0765	.0068	.0666	65.40	.3092
SDev	.0003	.001	.0002	.0005	.0006	.11	.0071
%RSD	27.49	.0568	.2287	7.686	.9419	.1655	2.309
#1	.0009	1.253	.0764	.0072	.0670	65.33	.3042
#2	.0013	1.254	.0766	.0064	.0662	65.48	.3143

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0062	3.632	.3016	.0022	.0238	.0002	.0564
SDev	.0101	.006	.0003	.0006	.0008	.0000	.0000
%RSD	163.3	.1641	.0990	27.99	3.157	16.95	.0445
#1	-.0010	3.628	.3014	.0017	.0243	.0002	.0564
#2	.0133	3.637	.3018	.0026	.0233	.0001	.0564

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0213	.0120	1.322	.2272	.1569	.3013	.3132
SDev	.0208	.0015	.000	.0004	.0002	.0048	.0083
%RSD	97.70	12.46	.0154	.2000	.1281	1.597	2.635
#1	-.0066	.0131	1.322	.2269	.1568	.2979	.3074
#2	-.0361	.0109	1.321	.2275	.1571	.3047	.3190

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0133	.0027	.3886	8.930
SDev	.0095	.0104	.0042	.125
%RSD	71.79	391.9	1.090	1.401
#1	.0065	-.0047	.3916	8.842
#2	.0200	.0100	.3856	9.019

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19406	--	--	--	--	--	--
SDev	24.74874	--	--	--	--	--	--
%RSD	.1275281	--	--	--	--	--	--
#1	19424	--	--	--	--	--	--
#2	19389	--	--	--	--	--	--

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Method: SCICPHSB Sample Name: 9716422003(JWK) Operator:
Run Time: 12/31/07 02:01:56
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	34.61	.0013	.0437	.1724	.0005	.0021	.0944
SDev	.08	.0030	.0013	.0000	.0000	.0100	.0008
%RSD	.2340	224.4	2.944	.0091	.6388	474.2	.8062
#1	34.66	.0034	.0428	.1724	.0005	.0092	.0949
#2	34.55	-.0008	.0447	.1724	.0005	-.0050	.0939

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	3.048	.0522	.0064	.0616	43.46	.4719
SDev	.0000	.003	.0001	.0004	.0011	.03	.0037
%RSD	1.671	.0976	.2832	5.981	1.718	.0580	.7786
#1	.0025	3.050	.0521	.0067	.0609	43.45	.4745
#2	.0025	3.045	.0523	.0061	.0624	43.48	.4693

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	2.601	.2513	.0040	.0213	-.0004	.0323
SDev	.0049	.001	.0003	.0019	.0011	.0000	.0009
%RSD	38.55	.0498	.1287	46.90	5.194	3.831	2.678
#1	.0092	2.602	.2515	.0054	.0221	-.0004	.0317
#2	.0162	2.600	.2511	.0027	.0205	-.0004	.0329

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0112	.0110	.8267	.1298	.2290	.4766	.4697
SDev	.0045	.0181	.0016	.0003	.0011	.0008	.0051
%RSD	39.90	164.9	.1933	.2654	.4864	.1572	1.082
#1	-.0080	.0238	.8278	.1295	.2298	.4771	.4732
#2	-.0143	-.0018	.8256	.1300	.2282	.4761	.4661

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0152	.0114	.2699	4.482
SDev	.0039	.0054	.0014	.023
%RSD	25.49	47.22	.5382	.5208
#1	.0125	.0076	.2710	4.499
#2	.0179	.0153	.2689	4.466

1.06g → 100mL
TS = 70.2%

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18672	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.1287577	--	--	--	--	--	--
#1	18655	--	--	--	--	--	--
#2	18689	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422004(JWK) Operator:
Run Time: 12/31/07 02:06:36
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.42	-.0037	.0107	.1794	.0001	.0007	.0429
SDev	.01	.0003	.0029	.0001	.0001	.0065	.0017
%RSD	.0566	9.046	27.50	.0518	46.50	876.6	3.880
#1	21.41	-.0040	.0086	.1793	.0001	.0053	.0417
#2	21.43	-.0035	.0128	.1794	.0001	-.0038	.0440

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	.6527	.0455	.0034	.0447	25.59	.4914
SDev	.0007	.0007	.0006	.0000	.0008	.01	.0010
%RSD	49.57	.1135	1.303	.1807	1.695	.0585	.2129
#1	.0019	.6522	.0459	.0034	.0441	25.58	.4921
#2	.0009	.6532	.0450	.0034	.0452	25.60	.4906

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0071	1.078	.1951	.0030	.0180	.0003	.0307
SDev	.0019	.004	.0005	.0006	.0000	.0001	.0001
%RSD	25.90	.3632	.2491	19.75	.2408	27.19	.2517
#1	.0058	1.080	.1947	.0035	.0180	.0004	.0307
#2	.0084	1.075	.1954	.0026	.0180	.0003	.0308

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0039	.0194	.9301	.0786	.1762	.4867	.4937
SDev	.0016	.0053	.0020	.0003	.0008	.0018	.0006
%RSD	41.77	27.19	.2119	.3732	.4763	.3758	.1326
#1	-.0051	.0231	.9287	.0788	.1756	.4880	.4942
#2	-.0028	.0156	.9315	.0784	.1768	.4854	.4932

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0116	.0049	.1908	2.376
SDev	.0053	.0054	.0011	.017
%RSD	46.33	110.9	.5854	.7179
#1	.0153	.0011	.1916	2.388
#2	.0078	.0088	.1900	2.364

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19288	--	--	--	--	--	--
SDev	48.08326	--	--	--	--	--	--
%RSD	.2492911	--	--	--	--	--	--
#1	19322	--	--	--	--	--	--
#2	19254	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422005(JWK) Operator:
Run Time: 12/31/07 02:11:07
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.42	-.0031	.0152	.1800	.0001	-.0022	.0315
SDev	.03	.0067	.0012	.0009	.0001	.0017	.0003
%RSD	.2260	218.2	8.140	.4891	42.19	74.94	1.045
#1	15.39	.0017	.0143	.1794	.0001	-.0010	.0317
#2	15.44	-.0078	.0160	.1806	.0002	-.0034	.0312

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0026	2.483	.0604	.0155	.0931	31.06	.9122
SDev	.0006	.006	.0014	.0018	.0018	.10	.0053
%RSD	24.01	.2619	2.313	11.59	1.897	.3262	.5857
#1	.0030	2.479	.0614	.0142	.0919	30.99	.9084
#2	.0022	2.488	.0594	.0168	.0944	31.14	.9159

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	1.009	.6621	.0057	.0417	.0018	.0334
SDev	.0048	.004	.0009	.0007	.0023	.0001	.0002
%RSD	37.20	.4036	.1310	11.74	5.427	6.245	.6427
#1	.0162	1.006	.6614	.0052	.0433	.0018	.0333
#2	.0094	1.012	.6627	.0062	.0401	.0017	.0336

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0047	.0296	.5203	.0773	.4644	.9090	.9137
SDev	.0107	.0012	.0004	.0008	.0016	.0139	.0150
%RSD	227.0	4.122	.0785	1.001	.3379	1.533	1.639
#1	.0122	.0304	.5206	.0778	.4633	.9189	.9031
#2	-.0028	.0287	.5200	.0767	.4655	.8992	.9243

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0083	.0150	.1872	2.465
SDev	.0354	.0106	.0062	.045
%RSD	426.7	70.47	3.315	1.842
#1	.0333	.0075	.1916	2.497
#2	-.0167	.0225	.1828	2.433

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19026	--	--	--	--	--	--
SDev	177.4838	--	--	--	--	--	--
%RSD	.9328732	--	--	--	--	--	--
#1	19151	--	--	--	--	--	--
#2	18900	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422006(JWK) Operator:
Run Time: 12/31/07 02:15:38
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	11.42	.0058	.0139	.2031	.0000	.0011	.0373
SDev	.02	.0042	.0089	.0004	.0000	.0000	.0015
%RSD	.1585	71.45	64.25	.2087	266.4	.2104	4.048
#1	11.40	.0029	.0202	.2028	.0000	.0011	.0383
#2	11.43	.0087	.0076	.2034	-.0000	.0011	.0362

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	3.065	.0408	.0084	.0583	19.27	.5977
SDev	.0002	.007	.0003	.0004	.0009	.05	.0026
%RSD	9.190	.2384	.7230	4.609	1.585	.2675	.4311
#1	.0025	3.060	.0406	.0081	.0577	19.23	.5959
#2	.0028	3.071	.0410	.0086	.0590	19.31	.5995

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0093	.9637	.5549	.0155	.0317	.0000	.0517
SDev	.0025	.0095	.0019	.0007	.0017	.0001	.0001
%RSD	27.20	.9810	.3331	4.238	5.253	468.4	.2071
#1	.0075	.9570	.5536	.0150	.0305	-.0000	.0516
#2	.0111	.9704	.5562	.0159	.0329	.0001	.0518

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0033	.0122	.4092	.0481	.2139	.6032	.5949
SDev	.0173	.0054	.0007	.0007	.0004	.0014	.0032
%RSD	517.5	44.28	.1626	1.474	.2012	.2303	.5329
#1	-.0156	.0161	.4087	.0486	.2136	.6023	.5927
#2	.0089	.0084	.4097	.0476	.2142	.6042	.5972

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0111	.0084	.1813	2.717
SDev	.0001	.0038	.0014	.020
%RSD	.4723	45.45	.8023	.7407
#1	.0111	.0057	.1823	2.731
#2	.0110	.0111	.1803	2.702

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18846	--	--	--	--	--	--
SDev	38.89087	--	--	--	--	--	--
%RSD	.2063669	--	--	--	--	--	--
#1	18873	--	--	--	--	--	--
#2	18818	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422007(JWK) Operator:
Run Time: 12/31/07 02:20:10
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	113.7	.0018	.0089	.6307	.0051	.0035	.0432
SDev	.3	.0014	.0027	.0010	.0001	.0016	.0003
%RSD	.2271	77.72	30.53	.1517	2.267	46.88	.7508
#1	113.9	.0008	.0108	.6313	.0052	.0046	.0430
#2	113.5	.0027	.0070	.6300	.0050	.0023	.0435

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	3.048	.1220	.0481	.0437	76.29	.3010
SDev	.0001	.000	.0013	.0009	.0008	.04	.0032
%RSD	20.41	.0104	1.034	1.915	1.805	.0475	1.067
#1	.0008	3.048	.1212	.0475	.0431	76.27	.3032
#2	.0006	3.048	.1229	.0488	.0442	76.32	.2987

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0124	12.56	1.238	.0000	.0835	-.0007	.0759
SDev	.0070	.01	.000	.0000	.0013	.0001	.0001
%RSD	56.32	.0906	.0186	.0406	1.590	16.04	.0873
#1	.0075	12.57	1.238	.0000	.0826	-.0008	.0760
#2	.0174	12.56	1.238	.0000	.0844	-.0006	.0759

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0062	.0032	1.669	.2359	.3736	.2933	.3048
SDev	.0107	.0038	.002	.0004	.0001	.0039	.0029
%RSD	173.2	118.4	.1450	.1575	.0382	1.323	.9438
#1	.0014	.0059	1.671	.2362	.3735	.2961	.3068
#2	-.0137	.0005	1.668	.2357	.3737	.2906	.3027

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0242	.0065	.5173	10.87
SDev	.0020	.0115	.0021	.03
%RSD	8.090	175.4	.4072	.2639
#1	.0256	-.0016	.5188	10.89
#2	.0228	.0147	.5158	10.85

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19408	--	--	--	--	--	--
SDev	7.778174	--	--	--	--	--	--
%RSD	.0400761	--	--	--	--	--	--
#1	19414	--	--	--	--	--	--
#2	19403	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422008(JWK) Operator:
Run Time: 12/31/07 02:24:41
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.32	-.0011	.0280	.2163	.0002	-.0057	.0291
SDev	.02	.0058	.0067	.0001	.0001	.0000	.0001
%RSD	.0770	539.8	23.84	.0685	22.24	.5513	.4483
#1	23.34	-.0052	.0233	.2164	.0003	-.0056	.0290
#2	23.31	.0030	.0327	.2162	.0002	-.0057	.0292

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.9514	.0373	.0066	.0270	27.39	.4564
SDev	.0003	.0042	.0009	.0004	.0001	.05	.0022
%RSD	26.18	.4392	2.338	6.095	.5324	.1739	.4936
#1	.0008	.9485	.0367	.0063	.0271	27.36	.4548
#2	.0012	.9544	.0380	.0069	.0269	27.42	.4580

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0112	1.339	.1606	.0039	.0222	-.0004	.0296
SDev	.0001	.002	.0003	.0043	.0019	.0002	.0000
%RSD	1.003	.1381	.2187	109.2	8.643	51.05	.1046
#1	.0113	1.338	.1603	.0009	.0209	-.0005	.0296
#2	.0111	1.341	.1608	.0070	.0236	-.0002	.0296

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	.0101	.4970	.0703	.2102	.4580	.4556
SDev	.0020	.0085	.0001	.0011	.0005	.0074	.0003
%RSD	78.99	83.69	.0146	1.542	.2445	1.613	.0689
#1	-.0011	.0041	.4969	.0696	.2099	.4527	.4559
#2	-.0039	.0161	.4970	.0711	.2106	.4632	.4554

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0146	.0096	.2089	2.669
SDev	.0004	.0003	.0008	.000
%RSD	2.547	3.124	.4070	.0011
#1	.0143	.0098	.2083	2.669
#2	.0148	.0093	.2095	2.669

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19266	--	--	--	--	--	--
SDev	83.43860	--	--	--	--	--	--
%RSD	.4330873	--	--	--	--	--	--
#1	19325	--	--	--	--	--	--
#2	19207	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422009(JWK) Operator:
Run Time: 12/31/07 02:46:39
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	186.6	-.0053	-.0142	1.311	.0203	.0061	.0388
SDev	2.1	.0026	.0009	.017	.0001	.0129	.0015
%RSD	1.121	48.99	6.292	1.303	.6158	210.9	3.831
#1	185.2	-.0034	-.0136	1.299	.0202	-.0030	.0378
#2	188.1	-.0071	-.0148	1.323	.0204	.0153	.0399

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0082	11.33	.1684	.0513	.0542	111.3	.2964
SDev	.0001	.12	.0020	.0007	.0014	1.3	.0006
%RSD	.6376	1.026	1.208	1.419	2.655	1.140	.2062
#1	.0082	11.25	.1669	.0508	.0531	110.4	.2968
#2	.0081	11.41	.1698	.0519	.0552	112.2	.2960

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0161	14.67	6.679	.0043	.1596	-.0012	.1248
SDev	.0003	.15	.075	.0013	.0004	.0000	.0008
%RSD	1.688	1.013	1.125	29.41	.2710	2.832	.6378
#1	.0163	14.56	6.626	.0034	.1593	-.0012	.1242
#2	.0159	14.77	6.732	.0052	.1599	-.0012	.1253

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0155	.0124	1.162	.3307	1.097	.2771	.3060
SDev	.0044	.0043	.012	.0046	.012	.0036	.0009
%RSD	28.19	34.43	1.012	1.389	1.059	1.293	.2855
#1	-.0124	.0154	1.154	.3275	1.089	.2796	.3054
#2	-.0186	.0094	1.171	.3340	1.105	.2746	.3067

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0142	.0171	.7086	15.03
SDev	.0053	.0022	.0051	.14
%RSD	37.33	13.15	.7229	.9072
#1	.0180	.0155	.7050	14.94
#2	.0105	.0186	.7123	15.13

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19442	--	--	--	--	--	--
SDev	274.3574	--	--	--	--	--	--
%RSD	1.411158	--	--	--	--	--	--
#1	19636	--	--	--	--	--	--
#2	19248	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422010(JWK) Operator:
Run Time: 12/31/07 02:51:10
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	12.31	-.0011	.0105	.0847	-.0002	.0131	.0483
SDev	.01	.0052	.0017	.0005	.0000	.0065	.0007
%RSD	.1071	456.8	16.37	.6114	1.161	49.85	1.392
#1	12.30	.0025	.0093	.0844	-.0002	.0177	.0478
#2	12.32	-.0048	.0117	.0851	-.0003	.0085	.0488

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	3.773	.0455	.0051	.0584	26.19	.4861
SDev	.0002	.003	.0006	.0005	.0004	.01	.0015
%RSD	16.93	.0681	1.304	10.55	.6864	.0298	.3128
#1	.0015	3.771	.0450	.0055	.0581	26.18	.4871
#2	.0012	3.774	.0459	.0047	.0587	26.19	.4850

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0109	1.085	1.096	.0035	.0285	.0008	.0180
SDev	.0014	.000	.000	.0000	.0005	.0000	.0000
%RSD	12.62	.0303	.0292	.0907	1.754	3.966	.0953
#1	.0118	1.086	1.095	.0035	.0289	.0008	.0179
#2	.0099	1.085	1.096	.0035	.0282	.0008	.0180

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0278	.5613	.0594	.2671	.4865	.4859
SDev	.0060	.0069	.0007	.0008	.0006	.0025	.0010
%RSD	356.3	24.68	.1231	1.433	.2429	.5100	.2142
#1	-.0026	.0327	.5608	.0588	.2667	.4882	.4866
#2	.0060	.0230	.5618	.0600	.2676	.4847	.4851

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0089	.0118	.1834	3.009
SDev	.0112	.0035	.0005	.009
%RSD	124.7	29.79	.2644	.3004
#1	.0168	.0093	.1837	3.015
#2	.0011	.0143	.1830	3.003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19144	--	--	--	--	--	--
SDev	17.67767	--	--	--	--	--	--
%RSD	.0923429	--	--	--	--	--	--
#1	19156	--	--	--	--	--	--
#2	19131	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422011(JWK) Operator:
Run Time: 12/31/07 03:13:50
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.653	.0042	.0022	.0853	-.0007	.0006	.0179
SDev	.005	.0043	.0024	.0003	.0000	.0134	.0006
%RSD	.0958	103.7	110.0	.3915	2.907	2409.	3.073
#1	5.657	.0011	.0005	.0856	-.0008	-.0089	.0183
#2	5.649	.0072	.0039	.0851	-.0007	.0101	.0175

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	5.069	.0165	.0032	.0462	8.766	.2273
SDev	.0006	.008	.0002	.0006	.0009	.011	.0010
%RSD	42.18	.1517	1.083	18.11	2.046	.1255	.4608
#1	.0010	5.074	.0166	.0028	.0469	8.774	.2265
#2	.0018	5.064	.0163	.0036	.0455	8.759	.2280

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0101	.8274	1.341	.0023	.0197	-.0000	.0184
SDev	.0015	.0054	.001	.0006	.0006	.0004	.0000
%RSD	14.43	.6536	.0620	28.33	3.210	1740.	.0580
#1	.0091	.8236	1.341	.0018	.0193	-.0003	.0184
#2	.0111	.8312	1.342	.0027	.0202	.0003	.0184

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0035	.0081	.1876	.0260	.1590	.2285	.2267
SDev	.0029	.0056	.0009	.0006	.0000	.0038	.0003
%RSD	83.30	69.05	.4837	2.331	.0252	1.669	.1479
#1	-.0014	.0042	.1870	.0256	.1590	.2258	.2269
#2	-.0056	.0121	.1883	.0264	.1590	.2312	.2264

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0059	.0122	.1124	2.727
SDev	.0097	.0071	.0003	.048
%RSD	164.2	57.82	.2246	1.771
#1	.0128	.0072	.1123	2.693
#2	-.0010	.0172	.1126	2.761

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18595	--	--	--	--	--	--
SDev	90.50967	--	--	--	--	--	--
%RSD	.4867420	--	--	--	--	--	--
#1	18659	--	--	--	--	--	--
#2	18531	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422012(JWK) Operator:
Run Time: 12/31/07 03:27:24
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	63.48	-.0009	.0357	.2556	.0001	.0101	.0718
SDev	.01	.0046	.0012	.0003	.0001	.0016	.0002
%RSD	.0129	523.3	3.298	.1337	41.91	15.45	.2889
#1	63.48	.0024	.0365	.2554	.0001	.0112	.0720
#2	63.49	-.0041	.0349	.2559	.0002	.0090	.0717

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	1.949	.0965	.0181	.0561	65.57	.5157
SDev	.0001	.004	.0001	.0019	.0006	.08	.0011
%RSD	16.62	.2056	.0496	10.63	1.000	.1218	.2180
#1	.0009	1.946	.0965	.0168	.0557	65.51	.5165
#2	.0007	1.952	.0966	.0195	.0565	65.62	.5149

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0096	3.579	.5801	.0056	.0328	.0003	.0363
SDev	.0045	.008	.0006	.0079	.0019	.0003	.0000
%RSD	47.12	.2117	.1082	140.6	5.730	121.4	.0482
#1	.0128	3.574	.5796	.0000	.0342	.0000	.0363
#2	.0064	3.585	.5805	.0112	.0315	.0005	.0363

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0073	.0123	.9939	.2286	.1907	.5146	.5162
SDev	.0055	.0022	.0004	.0006	.0004	.0022	.0006
%RSD	75.46	17.70	.0434	.2732	.1934	.4297	.1125
#1	-.0112	.0139	.9936	.2281	.1905	.5162	.5166
#2	-.0034	.0108	.9943	.2290	.1910	.5131	.5158

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0215	.0037	.2206	5.497
SDev	.0065	.0100	.0007	.001
%RSD	29.99	273.3	.3340	.0267
#1	.0169	.0107	.2211	5.496
#2	.0261	-.0034	.2201	5.498

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19398	--	--	--	--	--	--
SDev	112.4300	--	--	--	--	--	--
%RSD	.5796107	--	--	--	--	--	--
#1	19477	--	--	--	--	--	--
#2	19318	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 9716422013(JWK) Operator:
Run Time: 12/31/07 03:42:12
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.88	.0019	-.0022	.0783	-.0004	.0000	.0348
SDev	.02	.0022	.0017	.0001	.0001	.0079	.0000
%RSD	.1806	116.2	79.92	.1705	20.33	28970.	.0071
#1	10.89	.0003	-.0009	.0782	-.0004	.0056	.0348
#2	10.86	.0034	-.0034	.0784	-.0003	-.0055	.0348

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	2.730	.0395	.0044	.0491	20.45	.2319
SDev	.0000	.009	.0000	.0003	.0001	.03	.0003
%RSD	1.155	.3281	.1084	7.748	.2887	.1688	.1165
#1	.0023	2.724	.0395	.0047	.0492	20.43	.2317
#2	.0024	2.736	.0395	.0042	.0490	20.48	.2321

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.9579	1.249	.0021	.0264	.0018	.0164
SDev	.0026	.0032	.002	.0030	.0008	.0001	.0001
%RSD	85.15	.3344	.1338	139.3	2.868	5.585	.5812
#1	.0012	.9602	1.248	.0000	.0270	.0019	.0164
#2	.0049	.9556	1.250	.0042	.0259	.0017	.0163

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0047	.0193	.4252	.0466	.2483	.2378	.2289
SDev	.0106	.0074	.0002	.0001	.0011	.0024	.0017
%RSD	224.5	38.44	.0395	.3126	.4634	1.032	.7362
#1	-.0123	.0140	.4253	.0468	.2475	.2395	.2277
#2	.0028	.0245	.4251	.0465	.2491	.2360	.2301

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0185	-.0047	.1604	2.883
SDev	.0056	.0067	.0033	.008
%RSD	30.27	141.8	2.084	.2802
#1	.0225	-.0094	.1627	2.888
#2	.0146	.0000	.1580	2.877

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19822	--	--	--	--	--	--
SDev	.0000000	--	--	--	--	--	--
%RSD	.0000000	--	--	--	--	--	--
#1	19822	--	--	--	--	--	--
#2	19822	--	--	--	--	--	--

Total Metals by 6010B Standards Raw Data

Initial Calibrations

OPTIMIZE INT F:1 SN:9716024001(JWK)PS 12/28/07 02:27:02

Elem	As1890
Avge	28060
SDev	91
%RSD	.3232
#1	27990
#2	27970
#3	28100
#4	28220
#5	28050
#6	27960
#7	28110
#8	28150
#9	28100
#10	27950

STATUS INFORMATION **

Version: 2.0
Date Created: 10998/2069/12831 J212/26/07 11:24 Date Last Updated: 12/26

Number of elements: 29 Number of lines: 32

# of lines calibrated: 0
# of lines standardized: 30 12/26/07 11:50 - 12/26/07 11:50

Data collection mode: Spectrum Shifter <4 positions>

Approx. time for analysis 3.2 mins.

Protection status: Un-protected

METHOD INFORMATION **

Sample Introduction Device: Normal
Calibration Mode: Concentration

Default Setup:

Number of Repeats : 2	Auto-store Analysis Data? Yes
Flush Time (sec) : 75.0	Auto-store Stdzn Data? Yes
Auto-Increment Sample Names? No	Store Individual Repeats? Yes
	Auto-print Analysis Data? Yes
	Auto-print Stdzn Report : +Readback
	Condensed Print Format? No

Default File Names:

Analysis Data File : 122807	Autosampler Table : AUTOTAB
	Sample Limits Table : LCTAB
Calibration Data File : CALDATA	Blank Limits Table : BLCTAB
Calibration Stds Table : CAL	QC Check Table : QC26

INTERNAL STANDARDS INFORMATION **

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
1	Sc	361.384	.0	15.0	Yes

Ratio Constant/Intensity Multiplication Factor: 1
Internal Standard Spectrum Shifter Peak offset: 0

Bkg Mtd (-): SpecShift
High Offset: 0
Low Offset: 0

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
2	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
3	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
4	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
5	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
6	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
7	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

OUTPUT INFORMATION **

Output Mode:	Concentration
Override Print Limits?	Yes
Override Significant Figures?	No
Apply Background Correction?	Yes
Apply Blank Subtraction?	No
Limits Table: LCTAB Check?	No
Correction Factor:	1

Report to:

Screen	Avgs
Printer	Avgs, Stats, Reps, Errs, Units, Int.Stds

PLASMA INFORMATION **

Gas Flow

Torch gas	: High Flow
Auxiliary gas flow	: Medium (1.0 L/min)
Nebulizer Press. (PSI)	: 25

Power

Approximate RF Power (W)	: 1350

Peristaltic Pump Parameters

Analysis Pump Rate (RPM)	: 130
Flush Pump Rate (RPM)	: 130
Relaxation time (sec)	: 0
Pump Tubing type	: Tygon-Orange

Element:	Al	Sb	As	Ba	Be
Wavelength:	308.215	206.832/2	189.042/2	493.409	313.042
Element Name:	Al	Sb2068	As1890	Ba	Be
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	10	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	-10	NONE	NONE
BKG High SS Offset:	10	NONE	10	10	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.1	.05	.5	.1
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	.2	.1	1	.2
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	1	.5	5	1
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Y - intercept:	-.260263	-.004163	.002173	.000088	.003644
Slope:	13.1447	1.35744	1.09804	1.82625	.995378
Date Standardized:	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Time Standardized:	23:50	23:50	23:50	23:50	23:50
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	8	7	2	2

Affecting Element:	V_2924	Cr2677	Cr2677	Al	V_2924
k1 factor:	.010322	.010787	-.00469	0	-.00025
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mg	Mo	Fe	Sn1899	Ti
k1 factor:	.00005	-.00329	-.00003	.000845	-.00019
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mo	Sn1899	V_2924	--n/a--	--n/a--
k1 factor:	.01452	.000509	.000021	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	Co	Ti	Mo	--n/a--	--n/a--
k1 factor:	.000239	.000228	-.00083	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Fe	Co	--n/a--	--n/a--
k1 factor:	--n/a--	.000003	-.00003	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	V_2924	Ba	--n/a--	--n/a--
k1 factor:	--n/a--	.000068	.000016	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Co	Al	--n/a--	--n/a--
k1 factor:	--n/a--	-.00003	.000289	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Cd	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	.00072	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--

Element:	Bi	B	Cd	Ca	Cr
Wavelength:	223.061/2	249.678/2	226.502/2	317.933	267.716
Element Name:	Bi2230	B_2496	Cd	Ca	Cr2677
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	-10	NONE	-10	NONE	-10
BKG High SS Offset:	NONE	10	NONE	10	NONE
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.5	.05	.5	.05
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	1	.1	1	.1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	5	.5	5	.5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Y - intercept:	.000005	-.001019	.000105	-.003012	-.001161
Slope:	43.7529	8.71338	.117168	24.6462	.587866
Date Standardized:	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Time Standardized:	23:50	23:50	23:50	23:50	23:50
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	7	3	11	5	6

Affecting Element:	Cu	Co	V_2924	Fe	Fe
k1 factor:	-.00075	.002078	.000001	-.00025	-.00002
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Fe	Cr2677	Al	V_2924	Mn2576
k1 factor:	.000029	.000463	-------	.000251	.000157
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Ti	Fe	Co	Bi2230	Mo
k1 factor:	-.00406	-.00005	-.00027	.000097	-.00006
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Cr2677	--n/a--	Fe	Mg	Ti
k1 factor:	.00062	--n/a--	.00008	.000079	.000068
k2 factor:	0	--n/a--	0	0	0
use?:	YES	--n/a--	YES	YES	YES

Affecting Element:	Co	--n/a--	Mo	Sn1899	V_2924
k1 factor:	-.00163	--n/a--	-.00001	.000066	-.00004
k2 factor:	0	--n/a--	0	0	0
use?:	YES	--n/a--	YES	YES	YES

Affecting Element:	Sn1899	--n/a--	Ni	--n/a--	Al
k1 factor:	.000023	--n/a--	-.00009	--n/a--	.000041
k2 factor:	0	--n/a--	0	--n/a--	0
use?:	YES	--n/a--	YES	--n/a--	YES

Affecting Element:	Ni	--n/a--	Ti	--n/a--	--n/a--
k1 factor:	.000065	--n/a--	.000046	--n/a--	--n/a--
k2 factor:	0	--n/a--	0	--n/a--	--n/a--
use?:	YES	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Cr2677	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Sn1899	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Mn2576	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	-.00001	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Mg	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Element:	Co	Cu	Fe	S	S
Wavelength:	228.616	324.753	271.441	220.353	196.026
Element Name:	Co	Cu	Fe	Pb	Se
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	NONE	NONE	NONE	NONE
BKG High SS Offset:	10	10	10	10	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	none	none
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	none	none
Conc/Sig:	.5	.5	.5	0	0
Std #3 Name:	ICAL3	ICAL3	ICAL3	none	none
Conc:	1	1	1	0	0
Std #4 Name:	ICAL4	ICAL4	ICAL4	none	none
Conc:	5	5	5	0	0
Std #5 Name:	--n/a--	--n/a--	--n/a--	none	none
Conc:	--n/a--	--n/a--	--n/a--	0	0

Y - intercept:	.000982	-.007654	.000786	0	0
Slope:	5.03935	1.29271	27.0033	1	1
Date Standardized:	12/26/07	12/26/07	12/26/07	NOT	NOT
Time Standardized:	23:50	23:50	23:50	STDIZED	STDIZED
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	8	6	7	2	2
Affecting Element:	Ba	Fe	V_2924	2203/1	1960/1
k1 factor:	.000391	.00002	.016802	-.3333	-.3333
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Cr2677	Mo	Co	2203/2	1960/2
k1 factor:	.000048	.000078	.088159	-.6667	-.6667
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Fe	Ti	Mg	--n/a--	--n/a--
k1 factor:	.000013	.000112	-.00003	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Mo	Bi2230	Mo	--n/a--	--n/a--
k1 factor:	-.0023	.000007	.002191	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Ti	V_2924	Cr2677	--n/a--	--n/a--
k1 factor:	.002194	-.00002	.00166	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Ni	Co	Al	--n/a--	--n/a--
k1 factor:	.000148	.00001	.000025	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	V_2924	--n/a--	Se	--n/a--	--n/a--
k1 factor:	.000021	--n/a--	-------	--n/a--	--n/a--
k2 factor:	0	--n/a--	0	--n/a--	--n/a--
use?:	YES	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	Sn1899	--n/a--	--n/a--	--n/a--	--n/a--
k1 factor:	-.00002	--n/a--	--n/a--	--n/a--	--n/a--
k2 factor:	0	--n/a--	--n/a--	--n/a--	--n/a--
use?:	YES	--n/a--	--n/a--	--n/a--	--n/a--

Element:	Mg	Mn	Mo	Ni	Ag
Wavelength:	279.078	257.610	202.030/2	231.604/2	328.068
Element Name:	Mg	Mn2576	Mo	Ni	Ag
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	NONE	-10	-10
BKG High SS Offset:	10	NONE	10	NONE	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.05	.5	.5	.05
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	.1	1	1	.1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	.5	5	5	.5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	-.004497	-.000248	-.000015	.000796	-.000468
Slope:	16.986	1.21778	16.7933	7.35999	.786915
Date Standardized:	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Time Standardized:	23:50	23:50	23:50	23:50	23:50
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	6	1	5	9
Affecting Element:	Fe	Al	B_2496	Co	Mn2576
k1 factor:	-.00021	-------	.00004	-.00038	.000063
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	V_2924	Mg	--n/a--	Sb2068	Mo
k1 factor:	.000456	-------	--n/a--	-.00041	-.00022
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	Co	Fe	--n/a--	Tl1908	Ti
k1 factor:	-.00107	-------	--n/a--	-.00017	-------
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	Mn2576	Cr2677	--n/a--	Al	V_2924
k1 factor:	-.00346	-.00006	--n/a--	.000005	-.00007
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	--n/a--	Co	--n/a--	Fe	Mg
k1 factor:	--n/a--	-------	--n/a--	.000015	.000001
k2 factor:	--n/a--	0	--n/a--	0	0
use?:	--n/a--	YES	--n/a--	YES	YES
Affecting Element:	--n/a--	Mo	--n/a--	--n/a--	Cd
k1 factor:	--n/a--	-.00005	--n/a--	--n/a--	-.00002
k2 factor:	--n/a--	0	--n/a--	--n/a--	0
use?:	--n/a--	YES	--n/a--	--n/a--	YES

Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Bi2230
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000005
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES
Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Se
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000005
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES
Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Sn1899
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000009
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES

Element:	Sr	Tl	Sn	Ti	V
Wavelength:	421.552	190.864/2	189.989	334.941	292.402
Element Name:	Sr4215	Tl1908	Sn1899	Ti	V_2924
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	NONE	NONE	NONE	-10
BKG High SS Offset:	10	28	10	10	NONE
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.05	.05	.05	.05	.025
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	.1	.1	.1	.1	.05
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	.5	.5	.5	.5	.25
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	-.000143	.033218	-.009113	.000854	-.000709
Slope:	2.48924	4.86983	20.9943	4.90215	4.08743
Date Standardized:	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Time Standardized:	23:50	23:50	23:50	23:50	23:50
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	9	7	2	6
Affecting Element:	Ca	V_2924	Fe	Cr2677	Cr2677
k1 factor:	.000029	.002877	-.00001	.000242	-.00276
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Sn1899	Ti	Ti	Ca	Fe
k1 factor:	.00002	.000731	-.00411	-------	-.00024
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Bi2230	Co	Sr4215	--n/a--	Ti
k1 factor:	.000036	.00474	-.00014	--n/a--	.000513
k2 factor:	0	0	0	--n/a--	0
use?:	YES	YES	YES	--n/a--	YES
Affecting Element:	Ti	Fe	Tl1908	--n/a--	Cu
k1 factor:	-------	.000429	0	--n/a--	-.00002
k2 factor:	0	0	0	--n/a--	0
use?:	YES	YES	YES	--n/a--	YES
Affecting Element:	--n/a--	Mn2576	B_2496	--n/a--	Al
k1 factor:	--n/a--	-.01038	.000042	--n/a--	400e-9
k2 factor:	--n/a--	0	0	--n/a--	0
use?:	--n/a--	YES	YES	--n/a--	YES
Affecting Element:	--n/a--	Cr2677	V_2924	--n/a--	Mo
k1 factor:	--n/a--	.000241	-.00006	--n/a--	-.00009
k2 factor:	--n/a--	0	0	--n/a--	0
use?:	--n/a--	YES	YES	--n/a--	YES

Affecting Element:	--n/a--	Sn1899	Al	--n/a--	--n/a--
k1 factor:	--n/a--	-.00005	.000005	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--
Affecting Element:	--n/a--	Mo	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	-.00013	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--
Affecting Element:	--n/a--	Bi2230	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	.000027	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--

Element:	Zn	Pb	Pb	Se	Se
Wavelength:	213.856/2	220.351	220.352/2	196.021	196.022/2
Element Name:	Zn	2203/1	2203/2	1960/1	1960/2
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	10	-10	10	-10
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	NONE	-10	NONE
BKG High SS Offset:	10	NONE	10	NONE	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.25	.05	.05	.5	.5
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	.5	.1	.1	1	1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	2.5	.5	.5	5	5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	.001213	-.023934	.006269	-.015271	.004189
Slope:	10.7702	.322962	.591435	2.27616	2.70799
Date Standardized:	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Time Standardized:	23:50	23:50	23:50	23:50	23:50
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	9	15	15	11	7
Affecting Element:	Cu	Al	Al	V_2924	Co
k1 factor:	.000438	.000916	-.00051	.000285	-.00006
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Fe	B_2496	As1890	Ag	Sn1899
k1 factor:	.000125	-------	-.00005	.000279	.000007
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Mg	Bi2230	Cr2677	Fe	Bi2230
k1 factor:	.000043	-.00206	-.0003	.000017	.000011
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Ni	Co	Fe	Co	Mn2576
k1 factor:	.00517	-.00922	.000043	.000586	.000796
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Mo	Cr2677	Mg	Mo	Fe
k1 factor:	0	-.0003	.000015	.000155	-.0003
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Sr4215	Cu	Mo	Bi2230	V_2924
k1 factor:	.000079	-.00007	-.00047	-.00019	.000028
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mn2576	Fe	Co	Tl1908	Mo
k1 factor:	.000192	.000079	.000058	0	-.00005
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Sn1899	Mg	Mn2576	Cr2677	--n/a--
k1 factor:	.000025	.000002	.000202	-.00012	--n/a--
k2 factor:	0	0	0	0	--n/a--
use?:	YES	YES	YES	YES	--n/a--

Affecting Element:	Ca	Mn2576	Cu	Cu	--n/a--
k1 factor:	.000005	-------	.000018	.000013	--n/a--
k2 factor:	0	0	0	0	--n/a--
use?:	YES	YES	YES	YES	--n/a--

Affecting Element:	--n/a--	Mo	Bi2230	Sr4215	--n/a--
k1 factor:	--n/a--	-.00076	.000196	-.00059	--n/a--
k2 factor:	--n/a--	0	0	0	--n/a--
use?:	--n/a--	YES	YES	YES	--n/a--

Affecting Element:	--n/a--	Ni	V_2924	Sn1899	--n/a--
k1 factor:	--n/a--	.000354	-.00028	-.00002	--n/a--
k2 factor:	--n/a--	0	0	0	--n/a--
use?:	--n/a--	YES	YES	YES	--n/a--

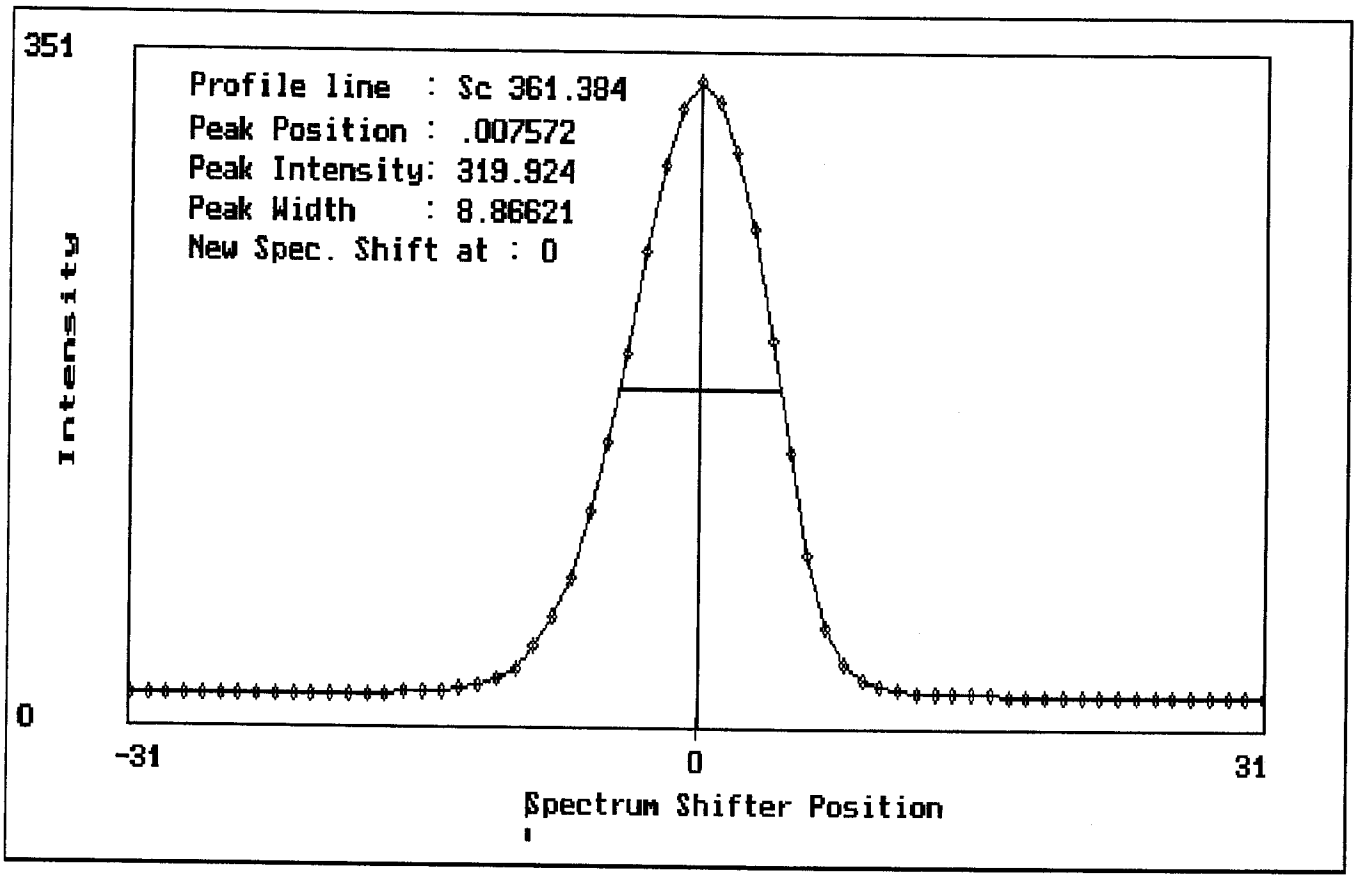
Affecting Element:	--n/a--	Ti	Ni	--n/a--	--n/a--
k1 factor:	--n/a--	.000186	.000198	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	V_2924	Sb2068	--n/a--	--n/a--
k1 factor:	--n/a--	.000072	-.0001	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Sn1899	Ti	--n/a--	--n/a--
k1 factor:	--n/a--	-------	-.00011	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Sb2068	Ca	--n/a--	--n/a--
k1 factor:	--n/a--	-.00053	.000012	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Element:	Na	K
Wavelength:	588.995	766.491
Element Name:	Na	K
Line Switch Conc:	0	0
Peak SS Offset:	10	28
Timing Group No.:	1	1
Print Limit Low:	0	0
Print Limit High:	0	0
Significant Figrs:	4	4
Print Units:	ppm	ppm
BKG Low SS Offset:	-10	-10
BKG High SS Offset:	NONE	NONE
BKG Element Name:	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1
Conc/Sig:	0	0
Std #2 (Low) Name:	ICAL2	ICAL2
Conc/Sig:	10	10
Std #3 Name:	ICAL3	ICAL3
Conc:	20	20
Std #4 Name:	ICAL4	ICAL4
Conc:	100	100
Std #5 Name:	--n/a--	--n/a--
Conc:	--n/a--	--n/a--
Y - intercept:	.171956	.06853
Slope:	3.80686	12.8218
Date Standardized:	12/26/07	12/26/07
Time Standardized:	23:50	23:50
Offset (A0):	0	0
Gain (A1):	1	1
Curvature (A2):	0	0
Exponent (n):	1	1
Max. Inflection:	NONE	NONE
Date of Fit:	NO FIT	NO FIT
Time of Fit:		
Use IECs:	YES	YES
Number of IECs:	0	0


351
Profile line : Sc 361.384
Peak Position : .007572
Peak Intensity: 319.924
Peak Width : 8.86621
New Spec. Shift at : 0
Intensity
0
-31
0
31
Spectrum Shifter Position

Method: SCICPHSB Standard: ICAL1
Run Time: 12/28/07 02:58:10

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0220	.0017	.0093	.0003	-.0038	.0003	.0010
SDev	.0001	.0046	.0008	.0001	.0000	.0000	.0002
%RSD	.7018	267.1	8.938	28.70	.4327	.4327	20.63
#1	.0219	.0050	.0087	.0004	-.0038	.0003	.0012
#2	.0221	-.0015	.0099	.0002	-.0038	.0003	.0009

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	.0025	.0011	.0035	.0000	.0046	.0008	.0006
SDev	.0032	.0001	.0002	.0000	.0008	.0003	.0005
%RSD	124.9	7.012	6.759	.0000	18.74	37.07	81.59
#1	.0003	.0011	.0033	.0000	.0040	.0010	.0002
#2	.0048	.0012	.0036	.0000	.0052	.0006	.0009

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0004	-.0002	.0000	.0021	-.0001	-.0093	-.0003
SDev	.0002	.0001	.0000	.0016	.0000	.0014	.0003
%RSD	46.76	46.76	.0000	73.30	.4327	15.15	89.74
#1	.0002	-.0001	.0000	.0010	-.0001	-.0103	-.0001
#2	.0005	-.0002	.0000	.0033	-.0001	-.0083	-.0005

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	-.0001	.0004	.0001	.0647	-.0154	.0104	.0025
SDev	.0000	.0002	.0001	.0186	.0008	.0018	.0021
%RSD	28.70	46.76	141.4	28.74	5.528	17.15	84.58
#1	-.0002	.0003	.0001	.0516	-.0148	.0091	.0010
#2	-.0001	.0006	.0000	.0779	-.0160	.0117	.0040

Elem	Na	K
Avge	-.0776	-.0102
SDev	.0006	.0001
%RSD	.7999	1.250
#1	-.0772	-.0103
#2	-.0781	-.0101

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	16997	--	--	--	--	--	--
SDev	73.53911	--	--	--	--	--	--
%RSD	.4326593	--	--	--	--	--	--
#1	16945	--	--	--	--	--	--
#2	17049	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL2
Run Time: 12/28/07 03:02:44

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0576	.0700	.0440	.2435	.1015	.0109	.0564
SDev	.0001	.0036	.0026	.0005	.0001	.0003	.0002
%RSD	.2189	5.124	5.822	.2113	.0676	2.591	.2876
#1	.0575	.0725	.0458	.2438	.1015	.0111	.0563
#2	.0577	.0674	.0422	.2431	.1016	.0107	.0565

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	.4421	.0223	.0837	.1011	.3599	.0208	.0302
SDev	.0023	.0001	.0030	.0002	.0001	.0008	.0006
%RSD	.5294	.4343	3.570	.2298	.0206	4.009	1.940
#1	.4438	.0222	.0858	.1010	.3599	.0202	.0298
#2	.4404	.0224	.0816	.1013	.3600	.0214	.0306

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0408	.0297	.0698	.0572	.0179	.0039	.0023
SDev	.0000	.0000	.0003	.0009	.0000	.0004	.0004
%RSD	.0291	.0172	.3955	1.664	.2029	11.09	15.68
#1	.0408	.0297	.0700	.0579	.0178	.0043	.0026
#2	.0408	.0298	.0696	.0565	.0179	.0036	.0021

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.0095	.0059	.0235	.1988	.0763	.2387	.1842
SDev	.0000	.0004	.0002	.0230	.0100	.0069	.0049
%RSD	.4387	7.306	.7861	11.55	13.12	2.910	2.658
#1	.0095	.0062	.0234	.2150	.0692	.2436	.1807
#2	.0094	.0056	.0236	.1825	.0834	.2338	.1877

Elem	Na	K
Avge	2.706	.6524
SDev	.005	.0017
%RSD	.1668	.2631
#1	2.703	.6536
#2	2.709	.6512

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17094	--	--	--	--	--	--
SDev	74.24622	--	--	--	--	--	--
%RSD	.4343281	--	--	--	--	--	--
#1	17147	--	--	--	--	--	--
#2	17042	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL3
Run Time: 12/28/07 03:07:16

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0935	.1490	.0974	.4841	.2062	.0216	.1122
SDev	.0006	.0083	.0097	.0003	.0005	.0001	.0005
%RSD	.6717	5.579	9.948	.0638	.2406	.4334	.4495
#1	.0939	.1431	.0905	.4844	.2058	.0216	.1118
#2	.0931	.1549	.1042	.4839	.2065	.0217	.1125

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	.8771	.0425	.1693	.2029	.7130	.0412	.0614
SDev	.0005	.0000	.0006	.0002	.0004	.0004	.0002
%RSD	.0575	.0539	.3236	.1041	.0594	1.044	.2755
#1	.8767	.0425	.1689	.2027	.7133	.0415	.0615
#2	.8774	.0426	.1697	.2030	.7127	.0409	.0613

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0820	.0599	.1391	.1166	.0359	.0181	.0052
SDev	.0001	.0001	.0005	.0002	.0004	.0001	.0007
%RSD	.1116	.1407	.3649	.1584	1.013	.3155	13.72
#1	.0819	.0600	.1387	.1167	.0356	.0181	.0057
#2	.0821	.0599	.1395	.1164	.0361	.0182	.0047

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.0196	.0118	.0468	.3750	.1496	.4763	.3747
SDev	.0001	.0000	.0002	.0066	.0035	.0016	.0004
%RSD	.4935	.2085	.3897	1.763	2.320	.3284	.1133
#1	.0195	.0118	.0467	.3796	.1472	.4752	.3744
#2	.0196	.0119	.0469	.3703	.1521	.4774	.3750

Elem	Na	K
Avge	5.294	1.291
SDev	.006	.001
%RSD	.1149	.0773
#1	5.298	1.290
#2	5.290	1.292

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17091	--	--	--	--	--	--
SDev	24.04163	--	--	--	--	--	--
%RSD	.1406684	--	--	--	--	--	--
#1	17074	--	--	--	--	--	--
#2	17108	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL4
Run Time: 12/28/07 03:11:48

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.3830	.7359	.4577	2.422	1.046	.1103	.5604
SDev	.0008	.0033	.0025	.010	.004	.0004	.0020
%RSD	.1989	.4457	.5459	.3991	.3934	.3449	.3584
#1	.3835	.7382	.4559	2.429	1.043	.1105	.5590
#2	.3824	.7336	.4594	2.415	1.049	.1100	.5618

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	4.387	.2057	.8388	1.017	3.546	.2087	.3060
SDev	.013	.0006	.0006	.004	.010	.0008	.0019
%RSD	.3068	.3037	.0780	.4218	.2735	.3715	.6057
#1	4.378	.2052	.8384	1.013	3.553	.2081	.3047
#2	4.397	.2061	.8393	1.020	3.539	.2092	.3073

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.4089	.3005	.6970	.5982	.1804	.1074	.0262
SDev	.0004	.0007	.0027	.0002	.0009	.0019	.0006
%RSD	.1068	.2280	.3817	.0302	.5253	1.722	2.342
#1	.4086	.3000	.6951	.5983	.1811	.1087	.0266
#2	.4092	.3010	.6989	.5980	.1798	.1061	.0258

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.0985	.0588	.2309	1.576	.8429	2.365	1.892
SDev	.0001	.0004	.0004	.013	.0038	.005	.002
%RSD	.1282	.7327	.1848	.8435	.4465	.2081	.1197
#1	.0984	.0585	.2306	1.585	.8402	2.361	1.890
#2	.0986	.0591	.2312	1.566	.8455	2.368	1.893

Elem	Na	K
Avge	21.30	5.870
SDev	.11	.028
%RSD	.5013	.4709
#1	21.37	5.890
#2	21.22	5.851

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17180	--	--	--	--	--	--
SDev	78.48885	--	--	--	--	--	--
%RSD	.4568751	--	--	--	--	--	--
#1	17124	--	--	--	--	--	--
#2	17235	--	--	--	--	--	--

Standardization Report 12/28/07 03:16:17 AM page 1

Method: SCICPHSB Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	Multiple	Standards	14.1758	-.311887	12/28/07 03:11:48
Sb2068	206.832	Multiple	Standards	1.37851	-.002332	12/28/07 03:11:48
As1890	189.042	Multiple	Standards	1.20093	-.011140	12/28/07 03:11:48
Ba	493.409	Multiple	Standards	2.06271	-.000617	12/28/07 03:11:48
Be	313.042	Multiple	Standards	.951651	.003582	12/28/07 03:11:48
Bi2230	223.061	Multiple	Standards	46.3064	-.013551	12/28/07 03:11:48
B_2496	249.678	Multiple	Standards	9.00763	-.009255	12/28/07 03:11:48
Cd	226.502	Multiple	Standards	.113712	-.000288	12/28/07 03:11:48
Ca	317.933	Multiple	Standards	24.0647	-.026975	12/28/07 03:11:48
Cr2677	267.716	Multiple	Standards	.607973	-.002101	12/28/07 03:11:48
Co	228.616	Multiple	Standards	4.92349	.000012	12/28/07 03:11:48
Cu	324.753	Multiple	Standards	1.41025	-.006435	12/28/07 03:11:48
Fe	271.441	Multiple	Standards	26.8195	-.021230	12/28/07 03:11:48
Pb	220.353	Multiple	Standards	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	Multiple	Standards	1.00000	.000000	*NOT STANDARDIZED
Mg	279.078	Multiple	Standards	16.5259	-.009153	12/28/07 03:11:48
Mn2576	257.610	Multiple	Standards	1.22694	-.000431	12/28/07 03:11:48
Mo	202.030	Multiple	Standards	16.6610	.002949	12/28/07 03:11:48
Ni	231.604	Multiple	Standards	7.17235	-.000003	12/28/07 03:11:48
Ag	328.068	Multiple	Standards	.870853	-.001849	12/28/07 03:11:48
Sr4215	421.552	Multiple	Standards	2.78263	.000165	12/28/07 03:11:48
Tl1908	190.864	Multiple	Standards	4.04470	.037703	12/28/07 03:11:48
Sn1899	189.989	Multiple	Standards	18.5932	.006007	12/28/07 03:11:48
Ti	334.941	Multiple	Standards	5.11175	.000758	12/28/07 03:11:48
V_2924	292.402	Multiple	Standards	4.36623	-.001917	12/28/07 03:11:48
Zn	213.856	Multiple	Standards	10.8519	-.000658	12/28/07 03:11:48
2203/1	220.351	Multiple	Standards	.303540	-.019626	12/28/07 03:11:48
2203/2	220.352	Multiple	Standards	.574224	.008800	12/28/07 03:11:48
1960/1	196.021	Multiple	Standards	2.15418	-.022355	12/28/07 03:11:48
1960/2	196.022	Multiple	Standards	2.69321	-.006634	12/28/07 03:11:48
Na	588.995	Multiple	Standards	3.94616	.295212	12/28/07 03:11:48
K	766.491	Multiple	Standards	15.7844	.155519	12/28/07 03:11:48

Method: SCICPHSB

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	ICAL1	.000000	.000032	-.000032
		ICAL2	.500000	.504526	-.004526
		ICAL3	1.00000	1.01355	-.013552
		ICAL4	5.00000	5.11686	-.116861

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.832	ICAL1	.000000	.000033	-.000033
		ICAL2	.100000	.094103	.005897
		ICAL3	.200000	.203093	-.003093
		ICAL4	1.00000	1.01209	-.012090

CorCoef: 0.99997

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	ICAL1	.000000	.000057	-.000057
		ICAL2	.050000	.041665	.008335
		ICAL3	.100000	.105829	-.005829
		ICAL4	.500000	.538498	-.038498

CorCoef: 0.99976

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	ICAL1	.000000	-.000010	.000010
		ICAL2	.500000	.501589	-.001589
		ICAL3	1.00000	.998031	.001969
		ICAL4	5.00000	4.99522	.004778

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	ICAL1	.000000	-.000002	.000002
		ICAL2	.100000	.100197	-.000197
		ICAL3	.200000	.199775	.000225
		ICAL4	1.00000	.998681	.001319

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi2230	223.061	ICAL1	.000000	.000071	-.000071
		ICAL2	.500000	.492975	.007025
		ICAL3	1.00000	.987570	.012430
		ICAL4	5.00000	5.09301	-.093010

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	ICAL1	.000000	.000023	-.000023
		ICAL2	.500000	.498710	.001290
		ICAL3	1.00000	1.00108	-.001076
		ICAL4	5.00000	5.03864	-.038636

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	ICAL1	.000000	-.000001	.000001
		ICAL2	.050000	.049984	.000016
		ICAL3	.100000	.099446	.000554
		ICAL4	.500000	.498600	.001400

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.933	ICAL1	.000000	-.000078	.000078
		ICAL2	.500000	.509382	-.009382
		ICAL3	1.00000	.996667	.003333
		ICAL4	5.00000	4.92196	.078043

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	ICAL1	.000000	.000009	-.000009
		ICAL2	.050000	.048772	.001228
		ICAL3	.100000	.100829	-.000829
		ICAL4	.500000	.507878	-.007878

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	ICAL1	.000000	.000012	-.000012
		ICAL2	.500000	.497850	.002150
		ICAL3	1.00000	.998768	.001232
		ICAL4	5.00000	5.00485	-.004848

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.753	ICAL1	.000000	-.000008	.000008
		ICAL2	.500000	.501169	-.001169
		ICAL3	1.00000	.999081	.000919
		ICAL4	5.00000	4.99478	.005219

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	271.441	ICAL1	.000000	.000089	-.000089
		ICAL2	.500000	.537346	-.037346
		ICAL3	1.00000	1.08429	-.084291
		ICAL4	5.00000	5.57538	-.575382

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.353	none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000

CorCoef: 0.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000

CorCoef: 0.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	ICAL1	.000000	.000068	-.000068
		ICAL2	.500000	.490187	.009813
		ICAL3	1.00000	1.00516	-.005162
		ICAL4	5.00000	5.04824	-.048241

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	ICAL1	.000000	.000002	-.000002
		ICAL2	.050000	.049668	.000332
		ICAL3	.100000	.100181	-.000181
		ICAL4	.500000	.501285	-.001285

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.030	ICAL1	.000000	.000011	-.000011
		ICAL2	.500000	.498554	.001446
		ICAL3	1.00000	1.00119	-.001187
		ICAL4	5.00000	5.00913	-.009129

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	ICAL1	.000000	-.000003	.000003
		ICAL2	.500000	.500540	-.000540
		ICAL3	1.00000	.997728	.002272
		ICAL4	5.00000	4.99904	.000964

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	ICAL1	.000000	.000018	-.000018
		ICAL2	.050000	.047946	.002054
		ICAL3	.100000	.099664	.000336
		ICAL4	.500000	.519056	-.019056

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	ICAL1	.000000	.000001	-.000001
		ICAL2	.050000	.049894	.000106
		ICAL3	.100000	.099969	.000031
		ICAL4	.500000	.502209	-.002209

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	ICAL1	.000000	-.000027	.000027
		ICAL2	.050000	.053670	-.003670
		ICAL3	.100000	.111066	-.011066
		ICAL4	.500000	.471985	.028015

CorCoef: 0.99939

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	ICAL1	.000000	.000002	-.000002
		ICAL2	.050000	.048956	.001044
		ICAL3	.100000	.102295	-.002295
		ICAL4	.500000	.493064	.006936

CorCoef: 0.99996

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	ICAL1	.000000	.000006	-.000006
		ICAL2	.050000	.049200	.000800
		ICAL3	.100000	.100803	-.000803
		ICAL4	.500000	.504210	-.004210

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	ICAL1	.000000	.000008	-.000008
		ICAL2	.025000	.023749	.001251
		ICAL3	.050000	.049816	.000184
		ICAL4	.250000	.254901	-.004901

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	ICAL1	.000000	-.000018	.000018
		ICAL2	.250000	.254544	-.004544
		ICAL3	.500000	.507301	-.007301
		ICAL4	2.50000	2.50520	-.005205

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	ICAL1	.000000	.000024	-.000024
		ICAL2	.050000	.040714	.009286
		ICAL3	.100000	.094192	.005808
		ICAL4	.500000	.458606	.041394

CorCoef: 0.99989

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	ICAL1	.000000	-.000016	.000016
		ICAL2	.050000	.052616	-.002616
		ICAL3	.100000	.094726	.005274
		ICAL4	.500000	.492805	.007195

CorCoef: 0.99992

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	ICAL1	.000000	.000070	-.000070
		ICAL2	.500000	.491820	.008180
		ICAL3	1.00000	1.00375	-.003747
		ICAL4	5.00000	5.07130	-.071303

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	ICAL1	.000000	.000088	-.000088
		ICAL2	.500000	.489435	.010565
		ICAL3	1.00000	1.00259	-.002588
		ICAL4	5.00000	5.08794	-.087938

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.995	ICAL1	.000000	-.011128	.011128
		ICAL2	10.0000	10.9728	-.972812
		ICAL3	20.0000	21.1864	-1.18636
		ICAL4	100.000	84.3401	15.6599

CorCoef: 0.99867

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.491	ICAL1	.000000	-.005143	.005143
		ICAL2	10.0000	10.4537	-.453680
		ICAL3	20.0000	20.5299	-.529894
		ICAL4	100.000	92.8137	7.18626

CorCoef: 0.99978

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Method: SCICPHSB Sample Name: ICV Operator:
Run Time: 12/28/07 03:23:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.009	1.096	1.096	1.020	1.005	1.080	1.087
SDev	.000	.006	.002	.001	.001	.004	.003
%RSD	.0126	.5178	.1960	.0877	.1301	.3754	.2530
#1	1.009	1.092	1.097	1.019	1.004	1.077	1.089
#2	1.009	Q1.100	1.094	1.021	1.006	1.083	1.085
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.015	.9811	1.031	1.071	1.078	1.079	1.005
SDev	.001	.0012	.000	.000	.003	.010	.000
%RSD	.1260	.1221	.0450	.0227	.2692	.9055	.0393
#1	1.015	.9803	1.031	1.071	1.076	1.086	1.005
#2	1.014	.9820	1.031	1.071	1.080	1.072	1.005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021	1.028	1.070	1.068	1.073	1.081	1.021
SDev	.016	.011	.001	.010	.002	.003	.000
%RSD	1.539	1.083	.1202	.9222	.1445	.2437	.0431
#1	1.010	1.020	1.069	1.061	1.074	1.079	1.021
#2	1.032	1.036	1.070	1.075	1.072	1.083	1.022
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9353	1.051	1.077	1.041	1.074	1.025	.9947
SDev	.0095	.003	.000	.001	.001	.001	.0003
%RSD	1.021	.2717	.0207	.0723	.0632	.0589	.0292
#1	.9286	1.053	1.077	1.040	1.073	1.026	.9949
#2	.9421	1.049	1.077	1.041	1.074	1.025	.9945
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	1.000	1.000	1.000	1.000	1.000		
Range	10.00	10.00	10.00	10.00	10.00		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	1.016	1.024	Q1.136	10.84
SDev	.018	.014	.001	.02
%RSD	1.799	1.411	.1014	.1466
#1	1.003	1.014	Q1.135	10.83
#2	1.029	1.034	Q1.137	10.85
Errors	NOCHECK	NOCHECK	QC Fail	QC Pass
Value			1.000	10.00
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17124	--	--	--	--	--	--
SDev	3.535534	--	--	--	--	--	--
%RSD	.0206473	--	--	--	--	--	--
#1	17126	--	--	--	--	--	--
#2	17121	--	--	--	--	--	--

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Method: SCICPHSB Sample Name: CRDL Operator:
Run Time: 12/28/07 03:28:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0895	.0210	.0196	.0102	.0102	.0447	.1046
SDev	.0016	.0005	.0018	.0000	.0000	.0021	.0007
%RSD	1.748	2.361	9.343	.3198	.1915	4.649	.6849
#1	.0884	.0207	.0209	.0102	.0102	.0462	.1051
#2	.0906	.0214	.0183	.0101	.0102	.0432	.1041
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0200	.0200	.0100	.0100	.0500	.1000
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0049	.1114	.0101	.0102	.0225	.0865	.0215
SDev	.0003	.0006	.0020	.0010	.0003	.0038	.0008
%RSD	5.654	.5165	19.66	9.862	1.420	4.347	3.553
#1	.0051	.1110	.0116	.0095	.0223	.0891	.0221
#2	.0047	.1118	.0087	.0109	.0227	.0838	.0210
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.1000	.0100	.0100	.0200	.1000	.0200
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0440	.1014	.0109	.0199	.0218	.0038	.0106
SDev	.0030	.0031	.0000	.0103	.0005	.0006	.0000
%RSD	6.851	3.037	.1538	51.45	2.419	15.29	.2962
#1	.0419	.0992	.0109	.0127	.0214	.0034	.0106
#2	.0462	.1035	.0109	.0272	.0222	.0042	.0105
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.1000	.0100	.0200	.0200	.0050	.0100
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0324	.0658	.0236	.0084	.0220	.0175	.0235
SDev	.0005	.0002	.0014	.0001	.0026	.0007	.0015
%RSD	1.505	.2646	5.974	1.692	11.89	3.875	6.306
#1	.0327	.0659	.0226	.0083	.0202	.0170	.0246
#2	.0320	.0657	.0246	.0085	.0239	.0179	.0225
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0300	.0500	.0200	.0100	.0200		
Range	50.00	50.00	50.00	50.00	50.00		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	.0395	.0463	.6327	.5573
SDev	.0087	.0002	.0056	.0027
%RSD	22.03	.3749	.8816	.4843
#1	.0334	.0462	.6366	.5553
#2	.0457	.0464	.6288	.5592
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17130	--	--	--	--	--	--
SDev	51.61879	--	--	--	--	--	--
%RSD	.3013268	--	--	--	--	--	--
#1	17094	--	--	--	--	--	--
#2	17167	--	--	--	--	--	--

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Method: SCICPHSB Sample Name: HIGHSTD Operator:
Run Time: 12/28/07 03:32:57
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.108	1.036	.5442	5.065	1.003	5.133	5.053
SDev	.004	.004	.0009	.003	.000	.013	.004
%RSD	.0755	.3861	.1661	.0602	.0309	.2609	.0804
#1	5.111	1.033	.5435	5.067	1.003	5.123	5.050
#2	5.105	1.039	.5448	5.063	1.003	5.142	5.056
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	1.000	.5000	5.000	1.000	5.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5004	4.947	.5102	5.036	5.045	5.160	.5044
SDev	.0008	.003	.0008	.003	.004	.019	.0036
%RSD	.1550	.0569	.1512	.0668	.0787	.3741	.7042
#1	.5010	4.949	.5096	5.033	5.048	5.147	.5019
#2	.4999	4.945	.5107	5.038	5.042	5.174	.5069
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	5.000	.5000	5.000	5.000	5.000	.5000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.095	5.063	.5052	5.046	5.017	.5203	.5086
SDev	.017	.004	.0004	.003	.004	.0025	.0004
%RSD	.3402	.0831	.0724	.0628	.0820	.4722	.0820
#1	5.107	5.066	.5050	5.048	5.014	.5186	.5089
#2	5.082	5.060	.5055	5.044	5.020	.5220	.5083
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	5.000	.5000	5.000	5.000	.5000	.5000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.4476	.4974	.5079	.2600	2.491	.5154	.4989
SDev	.0069	.0015	.0005	.0002	.000	.0041	.0033
%RSD	1.551	.2983	.0998	.0681	.0024	.7911	.6593
#1	Q.4427	.4984	.5083	.2599	2.491	.5125	.4966
#2	.4525	.4963	.5076	.2602	2.491	.5183	.5013
Errors	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.5000	.5000	.5000	.0500	2.500		
Range	10.00	10.00	10.00	15.00	10.00		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	5.069	5.107	Q85.22	Q93.54
SDev	.006	.023	.11	.20
%RSD	.1205	.4505	.1328	.2172
#1	5.074	5.124	Q85.14	Q93.40
#2	5.065	5.091	Q85.30	Q93.68
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			10.00	10.00
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17040	--	--	--	--	--	--
SDev	82.73149	--	--	--	--	--	--
%RSD	.4854992	--	--	--	--	--	--
#1	17099	--	--	--	--	--	--
#2	16982	--	--	--	--	--	--

Analysis Report QC Standard 12/28/07 03:42:12 AM page 1

Method: SCICPHSB Sample Name: ICS Operator:
Run Time: 12/28/07 03:37:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.82	-.0024	2.815	.7855	.2554	-.0052	.0028
SDev	.01	.0102	.010	.0015	.0005	.0039	.0019
%RSD	.0443	430.2	.3528	.1853	.1918	75.16	67.10
#1	30.81	.0049	2.808	.7845	.2550	-.0080	.0041
#2	30.83	-.0096	2.822	.7865	.2557	-.0024	.0014
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	30.00	.0000	2.500	.7500	.2500	.0000	.0000
Range	6.000	.0200	.5000	.1500	.0500	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7585	148.0	.7828	.8121	.8333	137.8	2.523
SDev	.0003	.2	.0011	.0021	.0012	.1	.001
%RSD	.0396	.1587	.1444	.2579	.1477	.0828	.0541
#1	.7587	147.9	.7820	.8106	.8325	137.7	2.522
#2	.7583	148.2	.7836	.8136	.8342	137.9	2.524
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.7500	150.0	.7500	.7500	.7500	125.0	2.500
Range	.1500	30.00	.1500	.1500	.1500	25.00	.5000

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.319	77.47	.5395	.0015	.7977	.8428	-.0016
SDev	.005	.16	.0007	.0007	.0031	.0013	.0009
%RSD	.3769	.2022	.1272	47.61	.3842	.1583	56.63
#1	1.316	77.36	.5390	.0020	.7955	.8419	-.0010
#2	1.323	77.58	.5400	.0010	.7998	.8438	-.0023
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	75.00	.5000	.0000	.7500	.7500	.0000
Range	.2500	15.00	.1000	.0200	.1500	.1500	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.317	.0121	.0001	.8064	.8112	2.574	2.498
SDev	.012	.0155	.0004	.0010	.0004	.015	.009
%RSD	.5382	128.4	460.5	.1234	.0550	.5774	.3794
#1	2.308	.0011	-.0002	.8057	.8115	2.584	2.492
#2	2.326	Q.0231	.0004	.8072	.8108	2.563	2.505
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	2.500	.0000	.0000	.7500	.7500		
Range	.5000	.0200	.0200	.5500	.1500		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	1.298	1.330	27.58	55.43
SDev	.005	.010	.08	.10
%RSD	.4193	.7653	.2937	.1769
#1	1.301	1.323	27.64	55.50
#2	1.294	1.337	27.52	55.36
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	16945	--	--	--	--	--	--
SDev	65.05383	--	--	--	--	--	--
%RSD	.3839116	--	--	--	--	--	--
#1	16991	--	--	--	--	--	--
#2	16899	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/28/07 03:42:18
Comment: 19356T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.410	.4810	.2544	2.391	.4732	2.398	2.394
SDev	.001	.0000	.0015	.001	.0003	.006	.008
%RSD	.0571	.0012	.5726	.0555	.0580	.2472	.3496
#1	2.409	.4810	.2534	2.392	.4730	2.393	2.388
#2	2.411	.4810	.2554	2.390	.4734	2.402	2.400
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2368	2.349	.2406	2.370	2.395	2.421	.2372
SDev	.0006	.003	.0005	.001	.002	.016	.0055
%RSD	.2336	.1353	.1895	.0340	.0816	.6451	2.311
#1	.2364	2.346	.2409	2.369	2.396	2.410	.2411
#2	.2372	2.351	.2403	2.370	2.394	2.432	.2333
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.408	2.390	.2379	2.382	2.375	.2403	.2399
SDev	.001	.003	.0003	.001	.000	.0002	.0002
%RSD	.0526	.1225	.1359	.0371	.0082	.0682	.0875
#1	2.407	2.388	.2377	2.381	2.375	.2401	.2400
#2	2.409	2.392	.2381	2.383	2.375	.2404	.2397
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2116	.2352	.2392	.1212	1.190	.2401	.2358
SDev	.0040	.0084	.0000	.0007	.003	.0008	.0087
%RSD	1.890	3.578	.0083	.6047	.2338	.3438	3.688
#1	Q.2144	.2412	.2392	.1207	1.188	.2395	.2420
#2	Q.2087	.2293	.2392	.1217	1.192	.2407	.2297
Errors	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.0250			
Range	10.00	10.00	10.00	15.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.375	2.424	Q46.04	Q47.01
SDev	.018	.007	.15	.03
%RSD	.7414	.2848	.3283	.0596
#1	2.363	2.429	Q46.14	Q47.03
#2	2.388	2.419	Q45.93	Q46.99
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17147	--	--	--	--	--	--
SDev	1.414214	--	--	--	--	--	--
%RSD	.0082476	--	--	--	--	--	--
#1	17148	--	--	--	--	--	--
#2	17146	--	--	--	--	--	--

Analysis Report QC Standard 12/28/07 03:56:33 AM page 1

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/28/07 03:52:02
Comment: 19356T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.404	.4920	.2521	2.405	.4740	2.502	2.508
SDev	.013	.0088	.0059	.006	.0007	.007	.015
%RSD	.5231	1.780	2.344	.2623	.1451	.2720	.6023
#1	2.395	.4858	.2479	2.401	.4745	2.498	2.497
#2	2.413	.4982	.2563	2.410	.4735	2.507	2.519
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2372	2.348	.2409	2.480	2.500	2.553	.2383
SDev	.0000	.005	.0010	.004	.005	.000	.0015
%RSD	.0186	.1996	.4225	.1465	.2084	.0031	.6168
#1	.2372	2.352	.2416	2.482	2.497	2.553	.2393
#2	.2372	2.345	.2401	2.477	2.504	2.553	.2372
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.385	2.402	.2487	2.477	2.476	.2520	.2411
SDev	.014	.006	.0003	.005	.003	.0003	.0003
%RSD	.5973	.2496	.1420	.2094	.1080	.1157	.1087
#1	2.395	2.406	.2490	2.481	2.478	.2522	.2409
#2	2.375	2.398	.2485	2.473	2.474	.2518	.2413
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2276	.2533	.2496	.1205	1.236	.2351	.2399
SDev	.0149	.0032	.0011	.0001	.001	.0020	.0012
%RSD	6.525	1.250	.4312	.0462	.0469	.8615	.4968
#1	.2381	.2511	.2489	.1205	1.236	.2365	.2407
#2	Q.2171	.2556	.2504	.1206	1.235	.2337	.2390
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	5.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.345	2.405	Q46.28	Q47.27
SDev	.029	.007	.15	.17
%RSD	1.244	.2817	.3318	.3518
#1	2.366	2.409	Q46.18	Q47.15
#2	2.325	2.400	Q46.39	Q47.38
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17097	--	--	--	--	--	--
SDev	59.39697	--	--	--	--	--	--
%RSD	.3474117	--	--	--	--	--	--
#1	17139	--	--	--	--	--	--
#2	17055	--	--	--	--	--	--

Method: SCICPHSB Sample Name: ICB Operator:
Run Time: 12/28/07 03:57:53
Comment: 19356T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0273	.0010	-.0063	-.0003	.0003	-.0189	-.0025
SDev	.0137	.0014	.0006	.0002	.0000	.0037	.0006
%RSD	50.05	137.9	10.24	71.43	12.25	19.44	23.28
#1	-.0370	.0019	-.0068	-.0004	.0003	-.0215	-.0021
#2	-.0176	.0000	-.0059	-.0001	.0003	-.0163	-.0029
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0124	-.0013	-.0013	.0008	-.0300	.0037
SDev	.0003	.0013	.0006	.0014	.0014	.0304	.0022
%RSD	101.8	10.79	46.58	109.5	189.7	101.1	60.21
#1	-.0001	-.0133	-.0018	-.0022	-.0003	-.0515	.0021
#2	-.0005	-.0114	-.0009	-.0003	.0018	-.0086	.0053
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0046	.0019	-.0003	.0005	-.0021	-.0013	.0000
SDev	.0016	.0091	.0001	.0035	.0006	.0009	.0002
%RSD	35.17	468.1	57.24	692.8	30.47	67.46	2815.
#1	-.0057	-.0045	-.0002	.0029	-.0016	-.0019	-.0002
#2	-.0035	.0083	-.0004	-.0019	-.0025	-.0007	.0002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

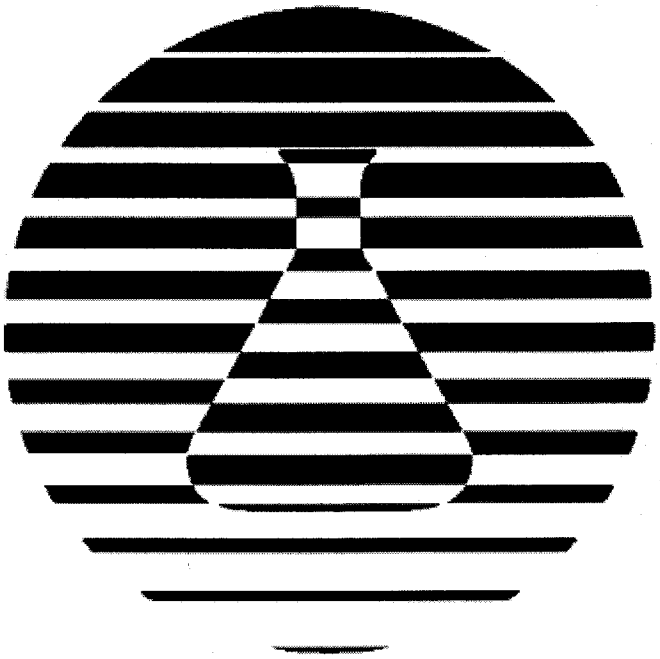
Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0098	-.0011	.0000	-.0015	-.0010	-.0038	.0075
SDev	.0076	.0070	.0006	.0002	.0004	.0029	.0048
%RSD	77.84	659.0	2302.	12.66	45.68	75.90	64.24
#1	.0044	.0039	-.0004	-.0017	-.0013	-.0018	.0041
#2	.0151	-.0060	.0005	-.0014	-.0006	-.0059	.0109
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

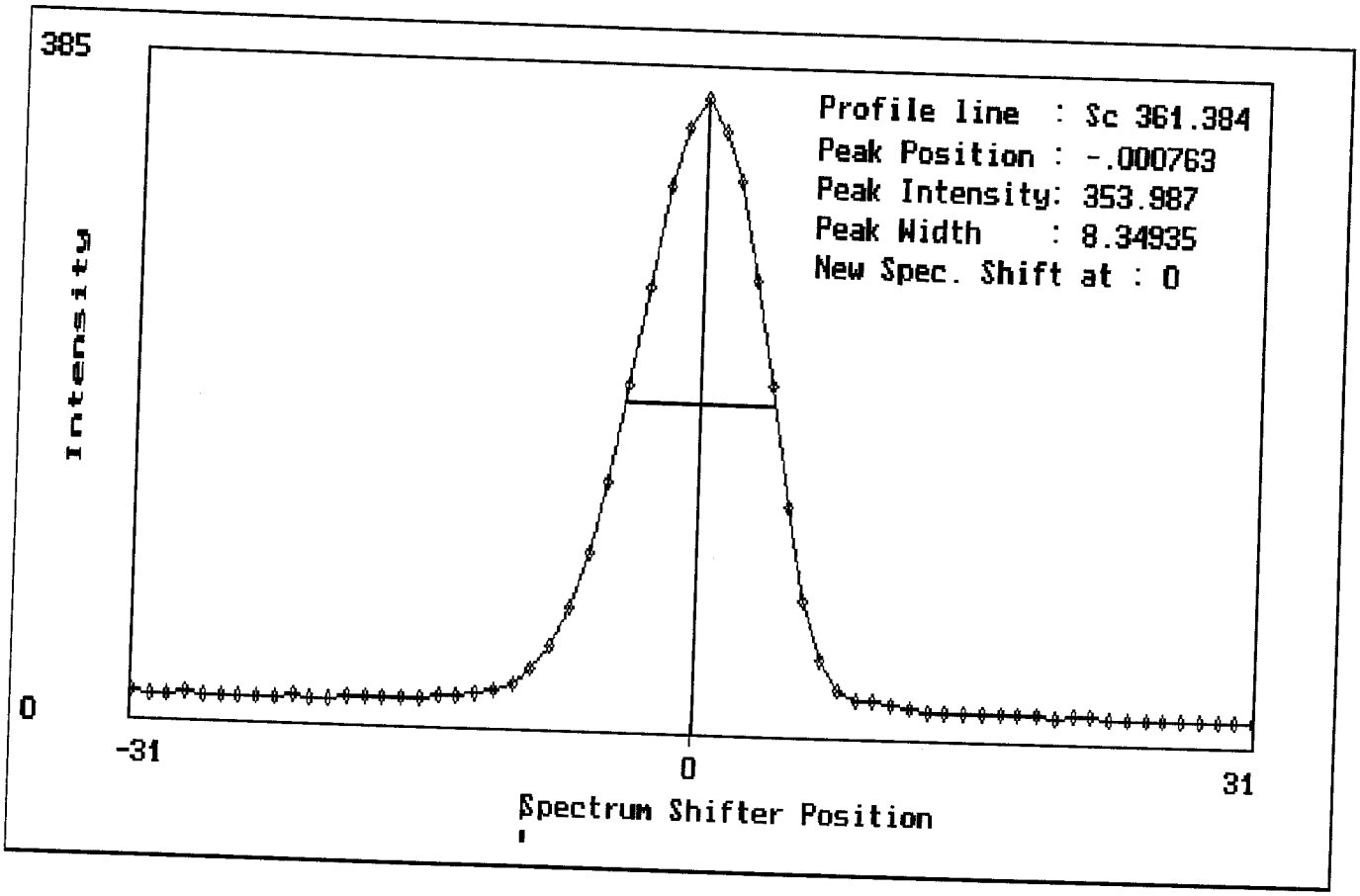
0582

Units	ppm	ppm	ppm	ppm
Avge	-.0128	-.0005	.0085	.0124
SDev	.0043	.0046	.0112	.0246
%RSD	33.46	882.5	132.0	198.7
#1	-.0097	-.0037	.0165	.0298
#2	-.0158	.0027	.0006	-.0050
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17296	--	--	--	--	--	--
SDev	405.1722	--	--	--	--	--	--
%RSD	2.342645	--	--	--	--	--	--
#1	17582	--	--	--	--	--	--
#2	17009	--	--	--	--	--	--



DIVIDER PAGE


385
Intensity
0
-31
0
31
Spectrum Shifter Position
Profile line : Sc 361.384
Peak Position : -.000763
Peak Intensity: 353.987
Peak Width : 8.34935
New Spec. Shift at : 0

Elem	As1890
Avge	27380
SDev	82
%RSD	.2992
#1	27290
#2	27400
#3	27270
#4	27380
#5	27420
#6	27560
#7	27360
#8	27420
#9	27370
#10	27330

STATUS INFORMATION **

Version: 2.0
Date Created: 10998/2069/12831 J212/28/07 12:44 Date Last Updated: 12/28

Number of elements: 29 Number of lines: 32

# of lines calibrated: 0
# of lines standardized: 30 12/28/07 12:59 - 12/28/07 01:10

Data collection mode: Spectrum Shifter <4 positions>

Approx. time for analysis 3.2 mins.

Protection status: Un-protected

METHOD INFORMATION **

Sample Introduction Device: Normal
Calibration Mode: Concentration

Default Setup:

Number of Repeats : 2	Auto-store Analysis Data? Yes
Flush Time (sec) : 75.0	Auto-store Stdzn Data? Yes
Auto-Increment Sample Names? No	Store Individual Repeats? Yes
	Auto-print Analysis Data? Yes
	Auto-print Stdzn Report : +Readback
	Condensed Print Format? No

Default File Names:

Analysis Data File : 123107	Autosampler Table : AUTOTAB
	Sample Limits Table : LCTAB
Calibration Data File : CALDATA	Blank Limits Table : BLCTAB
Calibration Stds Table : CAL	QC Check Table : QC26

INTERNAL STANDARDS INFORMATION **

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
1	Sc	361.384	.0	15.0	Yes

Ratio Constant/Intensity Multiplication Factor: 1
Internal Standard Spectrum Shifter Peak offset: 0

Bkg Mtd (-): SpecShift
High Offset: 0
Low Offset: 0

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
2	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
3	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
4	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
5	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
6	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

#	Elem Symbol	Wavelength	Pre-integration	Integration	Used?
7	Time		0	5.0	No

Ratio Constant/Intensity Multiplication Factor: 1

OUTPUT INFORMATION **

Output Mode:	Concentration
Override Print Limits?	Yes
Override Significant Figures?	No
Apply Background Correction?	Yes
Apply Blank Subtraction?	No
Limits Table: LCTAB Check?	No
Correction Factor:	1

Report to:

Screen	Avgs
Printer	Avgs, Stats, Reps, Errs, Units, Int.Stds

PLASMA INFORMATION **

Gas Flow

Torch gas	: High Flow
Auxiliary gas flow	: Medium (1.0 L/min)
Nebulizer Press. (PSI)	: 25

Power

Approximate RF Power (W)	: 1350

Peristaltic Pump Parameters

Analysis Pump Rate (RPM)	: 130
Flush Pump Rate (RPM)	: 130
Relaxation time (sec)	: 0
Pump Tubing type	: Tygon-Orange

Element:	Al	Sb	As	Ba	Be
Wavelength:	308.215	206.832/2	189.042/2	493.409	313.042
Element Name:	Al	Sb2068	As1890	Ba	Be
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	10	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	-10	NONE	NONE
BKG High SS Offset:	10	NONE	10	10	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.1	.05	.5	.1
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	.2	.1	1	.2
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	1	.5	5	1
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Y - intercept:	-.30097	-.002064	-.003392	-.000125	.003878
Slope:	14.292	1.38041	1.176	2.03511	1.03435
Date Standardized:	12/28/07	12/28/07	12/28/07	12/28/07	12/28/07
Time Standardized:	12:59	12:59	13:10	12:59	12:59
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	8	7	2	2

Affecting Element:	V_2924	Cr2677	Cr2677	Al	V_2924
k1 factor:	.010322	.010787	-.00469	0	-.00025
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mg	Mo	Fe	Sn1899	Ti
k1 factor:	.00005	-.00329	-.00003	.000845	-.00019
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mo	Sn1899	V_2924	--n/a--	--n/a--
k1 factor:	.01452	.000509	.000021	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	Co	Ti	Mo	--n/a--	--n/a--
k1 factor:	.000239	.000228	-.00083	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Fe	Co	--n/a--	--n/a--
k1 factor:	--n/a--	.000003	-.00003	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	V_2924	Ba	--n/a--	--n/a--
k1 factor:	--n/a--	.000068	.000016	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Co	Al	--n/a--	--n/a--
k1 factor:	--n/a--	-.00003	.000289	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Cd	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	.00072	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--

Element:	Bi	B	Cd	Ca	Cr
Wavelength:	223.061/2	249.678/2	226.502/2	317.933	267.716
Element Name:	Bi2230	B_2496	Cd	Ca	Cr2677
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	-10	NONE	-10	NONE	-10
BKG High SS Offset:	NONE	10	NONE	10	NONE
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.5	.05	.5	.05
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	1	.1	1	.1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	5	.5	5	.5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Y - intercept:	.002686	-.00221	-.000007	-.004396	-.002193
Slope:	46.2297	9.65525	.12136	25.3537	.627555
Date Standardized:	12/28/07	12/28/07	12/28/07	12/28/07	12/28/07
Time Standardized:	12:59	12:59	12:59	12:59	12:59
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	7	3	11	5	6

Affecting Element:	Cu	Co	V_2924	Fe	Fe
k1 factor:	-.00075	.002078	.000001	-.00025	-.00002
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Fe	Cr2677	Al	V_2924	Mn2576
k1 factor:	.000029	.000463	-------	.000251	.000157
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Ti	Fe	Co	Bi2230	Mo
k1 factor:	-.00406	-.00005	-.00027	.000097	-.00006
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Cr2677	--n/a--	Fe	Mg	Ti
k1 factor:	.00062	--n/a--	.00008	.000079	.000068
k2 factor:	0	--n/a--	0	0	0
use?:	YES	--n/a--	YES	YES	YES
Affecting Element:	Co	--n/a--	Mo	Sn1899	V_2924
k1 factor:	-.00163	--n/a--	-.00001	.000066	-.00004
k2 factor:	0	--n/a--	0	0	0
use?:	YES	--n/a--	YES	YES	YES
Affecting Element:	Sn1899	--n/a--	Ni	--n/a--	Al
k1 factor:	.000023	--n/a--	-.00009	--n/a--	.000041
k2 factor:	0	--n/a--	0	--n/a--	0
use?:	YES	--n/a--	YES	--n/a--	YES
Affecting Element:	Ni	--n/a--	Ti	--n/a--	--n/a--
k1 factor:	.000065	--n/a--	.000046	--n/a--	--n/a--
k2 factor:	0	--n/a--	0	--n/a--	--n/a--
use?:	YES	--n/a--	YES	--n/a--	--n/a--
Affecting Element:	--n/a--	--n/a--	Cr2677	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--
Affecting Element:	--n/a--	--n/a--	Sn1899	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Mn2576	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	-.00001	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	--n/a--	Mg	--n/a--	--n/a--
k1 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
k2 factor:	--n/a--	--n/a--	0	--n/a--	--n/a--
use?:	--n/a--	--n/a--	YES	--n/a--	--n/a--

Element:	Co	Cu	Fe	S	S
Wavelength:	228.616	324.753	271.441	220.353	196.026
Element Name:	Co	Cu	Fe	Pb	Se
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	NONE	NONE	NONE	NONE
BKG High SS Offset:	10	10	10	10	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	none	none
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	none	none
Conc/Sig:	.5	.5	.5	0	0
Std #3 Name:	ICAL3	ICAL3	ICAL3	none	none
Conc:	1	1	1	0	0
Std #4 Name:	ICAL4	ICAL4	ICAL4	none	none
Conc:	5	5	5	0	0
Std #5 Name:	--n/a--	--n/a--	--n/a--	none	none
Conc:	--n/a--	--n/a--	--n/a--	0	0

Y - intercept:	.001309	-.00533	-.002285	0	0
Slope:	5.06999	1.40593	26.928	1	1
Date Standardized:	12/28/07	12/28/07	12/28/07	NOT STDIZED	NOT STDIZED
Time Standardized:	12:59	12:59	12:59		
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	8	6	7	2	2
Affecting Element:	Ba	Fe	V_2924	2203/1	1960/1
k1 factor:	.000391	.00002	.016802	-.3333	-.3333
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Cr2677	Mo	Co	2203/2	1960/2
k1 factor:	.000048	.000078	.088159	-.6667	-.6667
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Fe	Ti	Mg	--n/a--	--n/a--
k1 factor:	.000013	.000112	-.00003	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Mo	Bi2230	Mo	--n/a--	--n/a--
k1 factor:	-.0023	.000007	.002191	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Ti	V_2924	Cr2677	--n/a--	--n/a--
k1 factor:	.002194	-.00002	.00166	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--
Affecting Element:	Ni	Co	Al	--n/a--	--n/a--
k1 factor:	.000148	.00001	.000025	--n/a--	--n/a--
k2 factor:	0	0	0	--n/a--	--n/a--
use?:	YES	YES	YES	--n/a--	--n/a--

Affecting Element:	V_2924	--n/a--	Se	--n/a--	--n/a--
k1 factor:	.000021	--n/a--	-------	--n/a--	--n/a--
k2 factor:	0	--n/a--	0	--n/a--	--n/a--
use?:	YES	--n/a--	YES	--n/a--	--n/a--

Affecting Element:	Sn1899	--n/a--	--n/a--	--n/a--	--n/a--
k1 factor:	-.00002	--n/a--	--n/a--	--n/a--	--n/a--
k2 factor:	0	--n/a--	--n/a--	--n/a--	--n/a--
use?:	YES	--n/a--	--n/a--	--n/a--	--n/a--

Element:	Mg	Mn	Mo	Ni	Ag
Wavelength:	279.078	257.610	202.030/2	231.604/2	328.068
Element Name:	Mg	Mn2576	Mo	Ni	Ag
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	NONE	-10	-10
BKG High SS Offset:	10	NONE	10	NONE	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.5	.05	.5	.5	.05
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	1	.1	1	1	.1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	5	.5	5	5	.5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	-.010686	-.000357	-.000011	.000835	-.000509
Slope:	17.7552	1.24798	16.8763	7.45412	.870028
Date Standardized:	12/28/07	12/28/07	12/28/07	12/28/07	12/28/07
Time Standardized:	12:59	12:59	12:59	12:59	12:59
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	6	1	5	9
Affecting Element:	Fe	Al	B_2496	Co	Mn2576
k1 factor:	-.00021	-------	.00004	-.00038	.000063
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	V_2924	Mg	--n/a--	Sb2068	Mo
k1 factor:	.000456	-------	--n/a--	-.00041	-.00022
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	Co	Fe	--n/a--	Tl1908	Ti
k1 factor:	-.00107	-------	--n/a--	-.00017	-------
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	Mn2576	Cr2677	--n/a--	Al	V_2924
k1 factor:	-.00346	-.00006	--n/a--	.000005	-.00007
k2 factor:	0	0	--n/a--	0	0
use?:	YES	YES	--n/a--	YES	YES
Affecting Element:	--n/a--	Co	--n/a--	Fe	Mg
k1 factor:	--n/a--	-------	--n/a--	.000015	.000001
k2 factor:	--n/a--	0	--n/a--	0	0
use?:	--n/a--	YES	--n/a--	YES	YES
Affecting Element:	--n/a--	Mo	--n/a--	--n/a--	Cd
k1 factor:	--n/a--	-.00005	--n/a--	--n/a--	-.00002
k2 factor:	--n/a--	0	--n/a--	--n/a--	0
use?:	--n/a--	YES	--n/a--	--n/a--	YES

Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Bi2230
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000005
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES
Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Se
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000005
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES
Affecting Element:	--n/a--	--n/a--	--n/a--	--n/a--	Sn1899
k1 factor:	--n/a--	--n/a--	--n/a--	--n/a--	.000009
k2 factor:	--n/a--	--n/a--	--n/a--	--n/a--	0
use?:	--n/a--	--n/a--	--n/a--	--n/a--	YES

Element:	Sr	Tl	Sn	Ti	V
Wavelength:	421.552	190.864/2	189.989	334.941	292.402
Element Name:	Sr4215	Tl1908	Sn1899	Ti	V_2924
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	0	0	0	0
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	NONE	NONE	NONE	-10
BKG High SS Offset:	10	28	10	10	NONE
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.05	.05	.05	.05	.025
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	.1	.1	.1	.1	.05
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	.5	.5	.5	.5	.25
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	.000159	.034614	-.014369	-	-.00037
Slope:	2.77668	4.84096	22.9051	5.1064	4.3412
Date Standardized:	12/28/07	12/28/07	12/28/07	12/28/07	12/28/07
Time Standardized:	12:59	13:10	12:59	12:59	12:59
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	4	9	7	2	6
Affecting Element:	Ca	V_2924	Fe	Cr2677	Cr2677
k1 factor:	.000029	.002877	-.00001	.000242	-.00276
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Sn1899	Ti	Ti	Ca	Fe
k1 factor:	.00002	.000731	-.00411	-------	-.00024
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Bi2230	Co	Sr4215	--n/a--	Ti
k1 factor:	.000036	.00474	-.00014	--n/a--	.000513
k2 factor:	0	0	0	--n/a--	0
use?:	YES	YES	YES	--n/a--	YES
Affecting Element:	Ti	Fe	Tl1908	--n/a--	Cu
k1 factor:	-------	.000429	0	--n/a--	-.00002
k2 factor:	0	0	0	--n/a--	0
use?:	YES	YES	YES	--n/a--	YES
Affecting Element:	--n/a--	Mn2576	B_2496	--n/a--	Al
k1 factor:	--n/a--	-.01038	.000042	--n/a--	400e-9
k2 factor:	--n/a--	0	0	--n/a--	0
use?:	--n/a--	YES	YES	--n/a--	YES
Affecting Element:	--n/a--	Cr2677	V_2924	--n/a--	Mo
k1 factor:	--n/a--	.000241	-.00006	--n/a--	-.00009
k2 factor:	--n/a--	0	0	--n/a--	0
use?:	--n/a--	YES	YES	--n/a--	YES

Affecting Element:	--n/a--	Sn1899	Al	--n/a--	--n/a--
k1 factor:	--n/a--	-.00005	.000005	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--
Affecting Element:	--n/a--	Mo	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	-.00013	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--
Affecting Element:	--n/a--	Bi2230	--n/a--	--n/a--	--n/a--
k1 factor:	--n/a--	.000027	--n/a--	--n/a--	--n/a--
k2 factor:	--n/a--	0	--n/a--	--n/a--	--n/a--
use?:	--n/a--	YES	--n/a--	--n/a--	--n/a--

Element:	Zn	Pb	Pb	Se	Se
Wavelength:	213.856/2	220.351	220.352/2	196.021	196.022/2
Element Name:	Zn	2203/1	2203/2	1960/1	1960/2
Line Switch Conc:	0	0	0	0	0
Peak SS Offset:	0	10	-10	10	-10
Timing Group No.:	1	1	1	1	1
Print Limit Low:	0	0	0	0	0
Print Limit High:	0	0	0	0	0
Significant Figrs:	4	4	4	4	4
Print Units:	ppm	ppm	ppm	ppm	ppm
BKG Low SS Offset:	NONE	-10	NONE	-10	NONE
BKG High SS Offset:	10	NONE	10	NONE	10
BKG Element Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple	Multiple	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1	ICAL1	ICAL1	ICAL1
Conc/Sig:	0	0	0	0	0
Std #2 (Low) Name:	ICAL2	ICAL2	ICAL2	ICAL2	ICAL2
Conc/Sig:	.25	.05	.05	.5	.5
Std #3 Name:	ICAL3	ICAL3	ICAL3	ICAL3	ICAL3
Conc:	.5	.1	.1	1	1
Std #4 Name:	ICAL4	ICAL4	ICAL4	ICAL4	ICAL4
Conc:	2.5	.5	.5	5	5
Std #5 Name:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--
Conc:	--n/a--	--n/a--	--n/a--	--n/a--	--n/a--

Y - intercept:	.001266	-.022982	.007224	-.021956	.001389
Slope:	11.2608	.327737	.599428	2.37488	2.92028
Date Standardized:	12/28/07	12/28/07	12/28/07	12/28/07	12/28/07
Time Standardized:	12:59	12:59	12:59	12:59	12:59
Offset (A0):	0	0	0	0	0
Gain (A1):	1	1	1	1	1
Curvature (A2):	0	0	0	0	0
Exponent (n):	1	1	1	1	1
Max. Inflection:	NONE	NONE	NONE	NONE	NONE
Date of Fit:	NO FIT	NO FIT	NO FIT	NO FIT	NO FIT
Time of Fit:					
Use IECs:	YES	YES	YES	YES	YES
Number of IECs:	9	15	15	11	7
Affecting Element:	Cu	Al	Al	V_2924	Co
k1 factor:	.000438	.000916	-.00051	.000285	-.00006
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Fe	B_2496	As1890	Ag	Sn1899
k1 factor:	.000125	-------	-.00005	.000279	.000007
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Mg	Bi2230	Cr2677	Fe	Bi2230
k1 factor:	.000043	-.00206	-.0003	.000017	.000011
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Ni	Co	Fe	Co	Mn2576
k1 factor:	.00517	-.00922	.000043	.000586	.000796
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Mo	Cr2677	Mg	Mo	Fe
k1 factor:	0	-.0003	.000015	.000155	-.0003
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES
Affecting Element:	Sr4215	Cu	Mo	Bi2230	V_2924
k1 factor:	.000079	-.00007	-.00047	-.00019	.000028
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Mn2576	Fe	Co	Tl1908	Mo
k1 factor:	.000192	.000079	.000058	0	-.00005
k2 factor:	0	0	0	0	0
use?:	YES	YES	YES	YES	YES

Affecting Element:	Sn1899	Mg	Mn2576	Cr2677	--n/a--
k1 factor:	.000025	.000002	.000202	-.00012	--n/a--
k2 factor:	0	0	0	0	--n/a--
use?:	YES	YES	YES	YES	--n/a--

Affecting Element:	Ca	Mn2576	Cu	Cu	--n/a--
k1 factor:	.000005	-------	.000018	.000013	--n/a--
k2 factor:	0	0	0	0	--n/a--
use?:	YES	YES	YES	YES	--n/a--

Affecting Element:	--n/a--	Mo	Bi2230	Sr4215	--n/a--
k1 factor:	--n/a--	-.00076	.000196	-.00059	--n/a--
k2 factor:	--n/a--	0	0	0	--n/a--
use?:	--n/a--	YES	YES	YES	--n/a--

Affecting Element:	--n/a--	Ni	V_2924	Sn1899	--n/a--
k1 factor:	--n/a--	.000354	-.00028	-.00002	--n/a--
k2 factor:	--n/a--	0	0	0	--n/a--
use?:	--n/a--	YES	YES	YES	--n/a--

Affecting Element:	--n/a--	Ti	Ni	--n/a--	--n/a--
k1 factor:	--n/a--	.000186	.000198	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	V_2924	Sb2068	--n/a--	--n/a--
k1 factor:	--n/a--	.000072	-.0001	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Sn1899	Ti	--n/a--	--n/a--
k1 factor:	--n/a--	-------	-.00011	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Affecting Element:	--n/a--	Sb2068	Ca	--n/a--	--n/a--
k1 factor:	--n/a--	-.00053	.000012	--n/a--	--n/a--
k2 factor:	--n/a--	0	0	--n/a--	--n/a--
use?:	--n/a--	YES	YES	--n/a--	--n/a--

Element:	Na	K
Wavelength:	588.995	766.491
Element Name:	Na	K
Line Switch Conc:	0	0
Peak SS Offset:	10	28
Timing Group No.:	1	1
Print Limit Low:	0	0
Print Limit High:	0	0
Significant Figrs:	4	4
Print Units:	ppm	ppm
BKG Low SS Offset:	-10	-10
BKG High SS Offset:	NONE	NONE
BKG Element Name:	--n/a--	--n/a--
BKG Factor:	--n/a--	--n/a--
Stdz. Method:	Multiple	Multiple
Std #1 (High) Name:	ICAL1	ICAL1
Conc/Sig:	0	0
Std #2 (Low) Name:	ICAL2	ICAL2
Conc/Sig:	10	10
Std #3 Name:	ICAL3	ICAL3
Conc:	20	20
Std #4 Name:	ICAL4	ICAL4
Conc:	100	100
Std #5 Name:	--n/a--	--n/a--
Conc:	--n/a--	--n/a--
Y - intercept:	.2658	.141108
Slope:	3.90603	14.0284
Date Standardized:	12/28/07	12/28/07
Time Standardized:	12:59	12:59
Offset (A0):	0	0
Gain (A1):	1	1
Curvature (A2):	0	0
Exponent (n):	1	1
Max. Inflection:	NONE	NONE
Date of Fit:	NO FIT	NO FIT
Time of Fit:		
Use IECs:	YES	YES
Number of IECs:	0	0

Method: SCICPHSB Standard: ICAL1
Run Time: 12/31/07 00:50:42

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0167	.0003	.0062	-.0000	-.0029	.0000	.0002
SDev	.0001	.0012	.0025	.0002	.0000	.0002	.0003
%RSD	.3315	397.8	40.88	194100.	1.400	194200.	110.0
#1	.0167	-.0005	.0080	.0001	-.0029	-.0002	.0001
#2	.0167	.0011	.0044	-.0001	-.0030	.0002	.0004

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	-.0009	.0007	.0002	-.0002	.0049	.0003	.0005
SDev	.0032	.0000	.0006	.0000	.0003	.0003	.0004
%RSD	355.1	.1030	283.2	20.10	5.512	115.7	91.57
#1	.0013	.0007	.0006	-.0002	.0047	.0001	.0002
#2	-.0031	.0007	-.0002	-.0002	.0051	.0005	.0008

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0001	.0000	-.0002	.0010	.0001	-.0049	.0004
SDev	.0001	.0000	.0002	.0001	.0000	.0000	.0003
%RSD	141.4	.0000	141.4	6.078	.1030	.1030	80.88
#1	.0002	.0000	.0000	.0009	.0001	-.0049	.0002
#2	.0000	.0000	-.0003	.0010	.0001	-.0049	.0006

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	-.0002	-.0000	-.0000	.0492	-.0044	.0035	.0006
SDev	.0003	.0000	.0000	.0074	.0044	.0028	.0010
%RSD	141.4	141.4	141.4	15.06	99.83	81.83	166.0
#1	.0000	-.0001	.0000	.0440	-.0013	.0015	-.0001
#2	-.0005	.0000	-.0001	.0545	-.0075	.0055	.0013

Elem	Na	K
Avge	-.0568	-.0082
SDev	.0001	.0011
%RSD	.0983	13.43
#1	-.0569	-.0090
#2	-.0568	-.0074

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18534	--	--	--	--	--	--
SDev	19.09188	--	--	--	--	--	--
%RSD	.1030128	--	--	--	--	--	--
#1	18547	--	--	--	--	--	--
#2	18520	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL2
Run Time: 12/31/07 00:55:17

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0517	.0774	.0423	.2579	.0909	.0113	.0600
SDev	.0002	.0024	.0035	.0003	.0001	.0002	.0005
%RSD	.3110	3.167	8.344	.1338	.1035	2.053	.8695
#1	.0518	.0791	.0398	.2577	.0908	.0112	.0596
#2	.0516	.0756	.0448	.2582	.0909	.0115	.0603

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	.4142	.0209	.0807	.1011	.3886	.0212	.0283
SDev	.0102	.0000	.0011	.0004	.0012	.0001	.0001
%RSD	2.461	.1732	1.309	.4331	.3077	.3571	.3221
#1	.4070	.0209	.0800	.1008	.3878	.0212	.0283
#2	.4214	.0209	.0814	.1014	.3895	.0213	.0282

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0427	.0298	.0702	.0621	.0191	.0046	.0027
SDev	.0001	.0002	.0000	.0006	.0000	.0011	.0005
%RSD	.1774	.8010	.0256	.9134	.1559	24.61	18.92
#1	.0427	.0300	.0703	.0617	.0191	.0054	.0023
#2	.0428	.0297	.0702	.0625	.0191	.0038	.0030

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.0107	.0057	.0237	.1722	.0701	.2077	.1683
SDev	.0003	.0001	.0000	.0003	.0032	.0010	.0024
%RSD	2.882	1.027	.0328	.1558	4.519	.4865	1.407
#1	.0109	.0057	.0237	.1724	.0679	.2070	.1666
#2	.0105	.0058	.0237	.1720	.0724	.2085	.1700

Elem	Na	K
Avge	2.662	.6925
SDev	.003	.0034
%RSD	.0946	.4846
#1	2.661	.6902
#2	2.664	.6949

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18414	--	--	--	--	--	--
SDev	65.76093	--	--	--	--	--	--
%RSD	.3571149	--	--	--	--	--	--
#1	18461	--	--	--	--	--	--
#2	18368	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL3
Run Time: 12/31/07 00:59:51

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.0867	.1498	.0811	.5105	.1845	.0225	.1184
SDev	.0002	.0019	.0011	.0000	.0003	.0002	.0003
%RSD	.2768	1.252	1.305	.0039	.1484	.8207	.2214
#1	.0866	.1511	.0819	.5105	.1843	.0226	.1182
#2	.0869	.1484	.0804	.5105	.1847	.0224	.1186

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	.8188	.0406	.1611	.2022	.7630	.0416	.0554
SDev	.0014	.0001	.0013	.0004	.0005	.0006	.0001
%RSD	.1755	.1894	.8244	.2082	.0688	1.555	.1894
#1	.8178	.0405	.1601	.2019	.7633	.0411	.0553
#2	.8198	.0406	.1620	.2025	.7626	.0421	.0555

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.0855	.0602	.1400	.1245	.0373	.0153	.0052
SDev	.0002	.0001	.0003	.0002	.0003	.0021	.0002
%RSD	.1894	.2524	.1894	.1453	.7243	13.93	4.185
#1	.0853	.0601	.1399	.1246	.0375	.0168	.0054
#2	.0856	.0603	.1402	.1244	.0371	.0138	.0050

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.0206	.0113	.0471	.3235	.1491	.4097	.3362
SDev	.0000	.0000	.0001	.0148	.0057	.0027	.0011
%RSD	.1894	.1894	.1894	4.565	3.848	.6520	.3246
#1	.0205	.0113	.0470	.3339	.1451	.4116	.3354
#2	.0206	.0113	.0472	.3130	.1532	.4078	.3370

Elem	Na	K
Avge	5.138	1.357
SDev	.005	.007
%RSD	.0980	.5021
#1	5.134	1.352
#2	5.141	1.362

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18665	--	--	--	--	--	--
SDev	35.35534	--	--	--	--	--	--
%RSD	.1894205	--	--	--	--	--	--
#1	18690	--	--	--	--	--	--
#2	18640	--	--	--	--	--	--

Method: SCICPHSB Standard: ICAL4
Run Time: 12/31/07 01:04:23

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Avge	.3696	.7477	.4011	2.530	.9390	.1130	.5870
SDev	.0001	.0073	.0011	.001	.0021	.0003	.0025
%RSD	.0352	.9808	.2811	.0522	.2203	.2261	.4194
#1	.3695	.7425	.4019	2.531	.9376	.1128	.5852
#2	.3697	.7529	.4003	2.529	.9405	.1131	.5887

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Mg
Avge	4.125	.1976	.8038	1.021	3.763	.2108	.2782
SDev	.014	.0004	.0006	.002	.001	.0006	.0006
%RSD	.3312	.2212	.0687	.2194	.0388	.2885	.2168
#1	4.115	.1973	.8034	1.020	3.765	.2113	.2778
#2	4.135	.1979	.8041	1.023	3.762	.2104	.2786

Elem	Mn2576	Mo	Ni	Ag	Sr4215	Tl1908	Sn1899
Avge	.4275	.3029	.7057	.6349	.1875	.1040	.0251
SDev	.0007	.0008	.0019	.0008	.0007	.0000	.0002
%RSD	.1723	.2812	.2756	.1283	.3935	.0431	.9648
#1	.4270	.3023	.7044	.6343	.1880	.1040	.0252
#2	.4280	.3035	.7071	.6354	.1870	.1040	.0249

Elem	Ti	V_2924	Zn	2203/1	2203/2	1960/1	1960/2
Avge	.1051	.0572	.2326	1.433	.7772	2.038	1.696
SDev	.0002	.0001	.0005	.004	.0021	.008	.018
%RSD	.1827	.1356	.2147	.2906	.2719	.4159	1.043
#1	.1052	.0573	.2323	1.430	.7757	2.032	1.683
#2	.1049	.0572	.2330	1.435	.7787	2.044	1.708

Elem	Na	K
Avge	20.48	6.040
SDev	.05	.015
%RSD	.2661	.2533
#1	20.45	6.030
#2	20.52	6.051

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18683	--	--	--	--	--	--
SDev	73.53911	--	--	--	--	--	--
%RSD	.3936151	--	--	--	--	--	--
#1	18735	--	--	--	--	--	--
#2	18631	--	--	--	--	--	--

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Method: SCICPHSB Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	Multiple	Standards	14.4587	-.241436	12/31/07 01:04:23
Sb2068	206.832	Multiple	Standards	1.31054	-.000404	12/31/07 01:04:23
As1890	189.042	Multiple	Standards	1.31226	-.008103	12/31/07 01:04:23
Ba	493.409	Multiple	Standards	1.95808	-.000043	12/31/07 01:04:23
Be	313.042	Multiple	Standards	1.06472	.003133	12/31/07 01:04:23
Bi2230	223.061	Multiple	Standards	44.1708	-.000011	12/31/07 01:04:23
B_2496	249.678	Multiple	Standards	8.47103	-.002098	12/31/07 01:04:23
Cd	226.502	Multiple	Standards	.120858	.000106	12/31/07 01:04:23
Ca	317.933	Multiple	Standards	25.0856	-.017651	12/31/07 01:04:23
Cr2677	267.716	Multiple	Standards	.621607	-.000134	12/31/07 01:04:23
Co	228.616	Multiple	Standards	4.91674	.000947	12/31/07 01:04:23
Cu	324.753	Multiple	Standards	1.31767	-.006552	12/31/07 01:04:23
Fe	271.441	Multiple	Standards	26.1325	-.007749	12/31/07 01:04:23
Pb	220.353	Multiple	Standards	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	Multiple	Standards	1.00000	.000000	*NOT STANDARDIZED
Mg	279.078	Multiple	Standards	18.0325	-.008279	12/31/07 01:04:23
Mn2576	257.610	Multiple	Standards	1.17061	-.000126	12/31/07 01:04:23
Mo	202.030	Multiple	Standards	16.6244	.000034	12/31/07 01:04:23
Ni	231.604	Multiple	Standards	7.10234	.001155	12/31/07 01:04:23
Ag	328.068	Multiple	Standards	.803289	-.000761	12/31/07 01:04:23
Sr4215	421.552	Multiple	Standards	2.66088	-.000147	12/31/07 01:04:23
Tl1908	190.864	Multiple	Standards	5.13793	.024983	12/31/07 01:04:23
Sn1899	189.989	Multiple	Standards	20.7758	-.007835	12/31/07 01:04:23
Ti	334.941	Multiple	Standards	4.71033	.001136	12/31/07 01:04:23
V_2924	292.402	Multiple	Standards	4.32437	.000116	12/31/07 01:04:23
Zn	213.856	Multiple	Standards	10.7576	.000270	12/31/07 01:04:23
2203/1	220.351	Multiple	Standards	.335438	-.016493	12/31/07 01:04:23
2203/2	220.352	Multiple	Standards	.650496	.002873	12/31/07 01:04:23
1960/1	196.021	Multiple	Standards	2.45702	-.008498	12/31/07 01:04:23
1960/2	196.022	Multiple	Standards	2.96933	-.001820	12/31/07 01:04:23
Na	588.995	Multiple	Standards	4.07280	.219654	12/31/07 01:04:23
K	766.491	Multiple	Standards	15.0948	.117047	12/31/07 01:04:23

Method: SCICPHSB

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Al	308.215	ICAL1	.000000	.000016	-.000016
		ICAL2	.500000	.506441	-.006441
		ICAL3	1.00000	1.01271	-.012709
		ICAL4	5.00000	5.10192	-.101918

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sb2068	206.832	ICAL1	.000000	-.000014	.000014
		ICAL2	.100000	.100971	-.000971
		ICAL3	.200000	.195877	.004123
		ICAL4	1.00000	.979489	.020511

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
As1890	189.042	ICAL1	.000000	.000020	-.000020
		ICAL2	.050000	.047418	.002582
		ICAL3	.100000	.098374	.001626
		ICAL4	.500000	.518243	-.018243

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ba	493.409	ICAL1	.000000	-.000043	.000043
		ICAL2	.500000	.504989	-.004989
		ICAL3	1.00000	.999559	.000441
		ICAL4	5.00000	4.95358	.046419

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Be	313.042	ICAL1	.000000	.000002	-.000002
		ICAL2	.100000	.099865	.000135
		ICAL3	.200000	.199591	.000409
		ICAL4	1.00000	1.00292	-.002918

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Bi2230	223.061	ICAL1	.000000	-.000006	.000006
		ICAL2	.500000	.500135	-.000135
		ICAL3	1.00000	.993912	.006088
		ICAL4	5.00000	4.98970	.010298

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
B_2496	249.678	ICAL1	.000000	-.000040	.000040
		ICAL2	.500000	.505772	-.005772
		ICAL3	1.00000	1.00068	-.000676
		ICAL4	5.00000	4.97002	.029981

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cd	226.502	ICAL1	.000000	-.000002	.000002
		ICAL2	.050000	.050169	-.000169
		ICAL3	.100000	.099069	.000931
		ICAL4	.500000	.498629	.001371

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ca	317.933	ICAL1	.000000	-.000055	.000055
		ICAL2	.500000	.506144	-.006144
		ICAL3	1.00000	.999750	.000250
		ICAL4	5.00000	4.93892	.061075

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cr2677	267.716	ICAL1	.000000	-.000000	.000000
		ICAL2	.050000	.050029	-.000029
		ICAL3	.100000	.099993	.000007
		ICAL4	.500000	.499484	.000516

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Co	228.616	ICAL1	.000000	.000019	-.000019
		ICAL2	.500000	.497846	.002154
		ICAL3	1.00000	.995230	.004770
		ICAL4	5.00000	5.02258	-.022584

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Cu	324.753	ICAL1	.000000	-.000047	.000047
		ICAL2	.500000	.505542	-.005542
		ICAL3	1.00000	.998801	.001199
		ICAL4	5.00000	4.95246	.047542

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Fe	271.441	ICAL1	.000000	.000011	-.000011
		ICAL2	.500000	.547133	-.047133
		ICAL3	1.00000	1.07943	-.079429
		ICAL4	5.00000	5.50182	-.501822

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Pb	220.353	none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000

CorCoef: 0.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Se	196.026	none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000
		none	.000000	.000000	.000000

CorCoef: 0.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mg	279.078	ICAL1	.000000	-.000005	.000005
		ICAL2	.500000	.501421	-.001421
		ICAL3	1.00000	.990685	.009315
		ICAL4	5.00000	5.00828	-.008283

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mn2576	257.610	ICAL1	.000000	.000001	-.000001
		ICAL2	.050000	.049904	.000096
		ICAL3	.100000	.099908	.000092
		ICAL4	.500000	.500283	-.000283

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Mo	202.030	ICAL1	.000000	.000034	-.000034
		ICAL2	.500000	.496110	.003890
		ICAL3	1.00000	1.00071	-.000708
		ICAL4	5.00000	5.03597	-.035970

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ni	231.604	ICAL1	.000000	.000005	-.000005
		ICAL2	.500000	.500049	-.000049
		ICAL3	1.00000	.995827	.004173
		ICAL4	5.00000	5.01346	-.013457

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ag	328.068	ICAL1	.000000	.000008	-.000008
		ICAL2	.050000	.049144	.000856
		ICAL3	.100000	.099235	.000765
		ICAL4	.500000	.509222	-.009222

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sr4215	421.552	ICAL1	.000000	-.000004	.000004
		ICAL2	.050000	.050644	-.000644
		ICAL3	.100000	.099145	.000855
		ICAL4	.500000	.498827	.001173

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Tl1908	190.864	ICAL1	.000000	.000032	-.000032
		ICAL2	.050000	.048688	.001312
		ICAL3	.100000	.103562	-.003562
		ICAL4	.500000	.559318	-.059318

CorCoef: 0.99987

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Sn1899	189.989	ICAL1	.000000	.000015	-.000015
		ICAL2	.050000	.048031	.001969
		ICAL3	.100000	.100130	-.000130
		ICAL4	.500000	.513135	-.013135

CorCoef: 0.99998

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Ti	334.941	ICAL1	.000000	-.000009	.000009
		ICAL2	.050000	.051397	-.001397
		ICAL3	.100000	.098043	.001957
		ICAL4	.500000	.496043	.003957

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
V_2924	292.402	ICAL1	.000000	-.000001	.000001
		ICAL2	.025000	.024891	.000109
		ICAL3	.050000	.049001	.000999
		ICAL4	.250000	.247546	.002454

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Zn	213.856	ICAL1	.000000	-.000021	.000021
		ICAL2	.250000	.254977	-.004977
		ICAL3	.500000	.506882	-.006882
		ICAL4	2.50000	2.50297	-.002972

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/1	220.351	ICAL1	.000000	.000024	-.000024
		ICAL2	.050000	.041261	.008739
		ICAL3	.100000	.092015	.007985
		ICAL4	.500000	.464027	.035973

CorCoef: 0.99994

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
2203/2	220.352	ICAL1	.000000	.000011	-.000011
		ICAL2	.050000	.048481	.001519
		ICAL3	.100000	.099867	.000133
		ICAL4	.500000	.508444	-.008444

CorCoef: 0.99999

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/1	196.021	ICAL1	.000000	-.000010	.000010
		ICAL2	.500000	.501936	-.001936
		ICAL3	1.00000	.998195	.001805
		ICAL4	5.00000	4.99790	.002102

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
1960/2	196.022	ICAL1	.000000	.000024	-.000024
		ICAL2	.500000	.497904	.002096
		ICAL3	1.00000	.996443	.003557
		ICAL4	5.00000	5.03397	-.033966

CorCoef: 1.00000

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
Na	588.995	ICAL1	.000000	-.011856	.011856
		ICAL2	10.0000	11.0629	-1.06294
		ICAL3	20.0000	21.1449	-1.14492
		ICAL4	100.000	83.6460	16.3540

CorCoef: 0.99857

Element	Wavelength	Standard	Known Concentration	Measured Concentration	Residual Concentration
K	766.491	ICAL1	.000000	-.006335	.006335
		ICAL2	10.0000	10.5707	-.570678
		ICAL3	20.0000	20.5997	-.599682
		ICAL4	100.000	91.2948	8.70518

CorCoef: 0.99967

Method: SCICPHSB Sample Name: ICV Operator:
Run Time: 12/31/07 01:08:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.021	.9622	1.043	1.010	1.003	1.010	.9931
SDev	.001	.0086	.006	.001	.002	.004	.0022
%RSD	.1128	.8885	.6133	.1173	.2046	.3784	.2269
#1	1.021	.9561	1.047	1.011	1.002	1.007	.9915
#2	1.020	.9682	1.038	1.009	1.005	1.013	.9947
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.001	.9818	1.002	.9866	.9806	.9916	1.026
SDev	.002	.0026	.002	.0024	.0011	.0109	.004
%RSD	.2275	.2673	.2452	.2460	.1081	1.103	.3647
#1	.9994	.9800	1.001	.9849	.9814	.9993	1.023
#2	1.003	.9837	1.004	.9883	.9799	.9838	1.028
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.009	1.012	.9795	.9851	.9849	1.034	1.020
SDev	.003	.005	.0014	.0003	.0030	.076	.000
%RSD	.2985	.4821	.1457	.0259	.3015	7.325	.0040
#1	1.007	1.008	.9785	.9853	.9828	.9804	1.020
#2	1.011	1.015	.9805	.9850	.9870	1.087	1.020
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.067	1.027	.9732	.9996	.9845	1.029	1.024
SDev	.011	.011	.0013	.0012	.0034	.008	.002
%RSD	1.006	1.053	.1291	.1216	.3425	.7792	.1565
#1	1.059	1.035	.9740	.9988	.9821	1.023	1.023
#2	1.074	1.019	.9723	1.000	.9869	1.034	1.025
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	1.000	1.000	1.000	1.000	1.000		
Range	10.00	10.00	10.00	10.00	10.00		

Elem	1960/1	1960/2	Na	K

0918

Units	ppm	ppm	ppm	ppm
Avge	1.002	1.013	Q1.150	10.90
SDev	.018	.005	.005	.01
%RSD	1.806	.4473	.4258	.0864
#1	.9892	1.016	Q1.153	10.89
#2	1.015	1.010	Q1.146	10.90
Errors	NOCHECK	NOCHECK	QC Fail	QC Pass
Value			1.000	10.00
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18756	--	--	--	--	--	--
SDev	102.5305	--	--	--	--	--	--
%RSD	.5466397	--	--	--	--	--	--
#1	18829	--	--	--	--	--	--
#2	18684	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CRDL Operator:
Run Time: 12/31/07 01:13:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1072	.0195	.0195	.0106	.0100	.0572	.1018
SDev	.0050	.0086	.0028	.0001	.0000	.0100	.0005
%RSD	4.711	43.86	14.52	1.172	.1250	17.47	.5046
#1	.1036	.0256	.0175	.0107	.0100	.0643	.1014
#2	.1108	.0135	.0215	.0105	.0100	.0502	.1021
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0200	.0200	.0100	.0100	.0500	.1000
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	.1176	.0111	.0109	.0215	.0918	.0216
SDev	.0001	.0017	.0008	.0002	.0002	.0112	.0009
%RSD	2.422	1.412	7.631	1.557	.9377	12.16	4.102
#1	.0056	.1188	.0105	.0110	.0214	.0839	.0222
#2	.0054	.1164	.0117	.0108	.0217	.0996	.0210
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.1000	.0100	.0100	.0200	.1000	.0200
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0561	.1016	.0103	.0287	.0217	.0052	.0095
SDev	.0104	.0016	.0002	.0001	.0014	.0003	.0000
%RSD	18.51	1.552	1.548	.1827	6.418	4.903	.1918
#1	.0487	.1005	.0104	.0287	.0207	.0050	.0094
#2	.0634	.1027	.0102	.0287	.0226	.0054	.0095
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.1000	.0100	.0200	.0200	.0050	.0100
Range	50.00	50.00	50.00	50.00	50.00	50.00	50.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0276	.0555	.0214	.0109	.0254	.0205	.0221
SDev	.0147	.0070	.0000	.0003	.0004	.0062	.0018
%RSD	53.22	12.63	.1723	2.803	1.766	30.23	8.024
#1	.0172	.0605	.0214	.0111	.0250	.0249	.0209
#2	.0380	.0506	.0215	.0107	.0257	.0161	.0234
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0300	.0500	.0200	.0100	.0200		
Range	50.00	50.00	50.00	50.00	50.00		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	.0585	.0549	.6279	.5560
SDev	.0169	.0071	.0044	.0182
%RSD	28.88	12.98	.6969	3.270
#1	.0465	.0498	.6310	.5689
#2	.0704	.0599	.6248	.5432
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18551	--	--	--	--	--	--
SDev	33.94112	--	--	--	--	--	--
%RSD	.1829612	--	--	--	--	--	--
#1	18575	--	--	--	--	--	--
#2	18527	--	--	--	--	--	--

Method: SCICPHSB Sample Name: HIGHSTD Operator:
Run Time: 12/31/07 01:18:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.010	.9857	.5135	4.951	.9922	4.998	4.948
SDev	.002	.0038	.0018	.006	.0021	.010	.012
%RSD	.0319	.3884	.3468	.1254	.2119	.2064	.2449
#1	5.011	.9884	.5147	4.956	.9907	4.990	4.939
#2	5.009	.9830	.5122	4.947	.9937	5.005	4.956
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	1.000	.5000	5.000	1.000	5.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4914	4.879	.4954	4.981	4.966	4.996	.5035
SDev	.0038	.006	.0009	.014	.010	.003	.0020
%RSD	.7775	.1288	.1890	.2864	.2025	.0647	.4047
#1	.4887	4.874	.4947	4.971	4.973	4.998	.5049
#2	.4941	4.883	.4961	4.991	4.959	4.994	.5021
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	5.000	.5000	5.000	5.000	5.000	.5000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.972	4.956	.4969	4.993	4.956	.5080	.4983
SDev	.015	.019	.0002	.002	.012	.0008	.0005
%RSD	.2926	.3891	.0426	.0389	.2501	.1539	.1025
#1	4.961	4.943	.4967	4.992	4.947	.5085	.4986
#2	4.982	4.970	.4970	4.994	4.965	.5074	.4979
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	5.000	.5000	5.000	5.000	.5000	.5000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5316	.5077	.4941	.2486	2.462	.5152	.4976
SDev	.0112	.0087	.0017	.0004	.004	.0040	.0051
%RSD	2.098	1.715	.3433	.1690	.1474	.7838	1.020
#1	.5237	.5139	.4929	.2483	2.459	.5124	.5012
#2	.5395	.5015	.4953	.2489	2.465	.5181	.4940
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.5000	.5000	.5000	0.2500	2.500		
Range	10.00	10.00	10.00	10.00	10.00		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	4.957	4.979	Q83.49	Q91.04
SDev	.027	.008	.15	.04
%RSD	.5469	.1648	.1761	.0478
#1	4.938	4.973	Q83.59	Q91.01
#2	4.976	4.985	Q83.38	Q91.08
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			10.00	10.00
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18648	--	--	--	--	--	--
SDev	30.40559	--	--	--	--	--	--
%RSD	.1630458	--	--	--	--	--	--
#1	18627	--	--	--	--	--	--
#2	18670	--	--	--	--	--	--

Analysis Report QC Standard 12/31/07 01:27:26 AM

Method: SCICPHSB Sample Name: ICS Operator:
Run Time: 12/31/07 01:22:53
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.73	-.0019	2.724	.7743	.2568	.0023	.0040
SDev	.01	.0041	.019	.0008	.0004	.0033	.0019
%RSD	.0480	220.1	.6984	.1017	.1641	144.0	46.97
#1	30.74	.0010	2.711	.7749	.2565	.0046	.0053
#2	30.72	-.0048	2.738	.7738	.2571	-.0000	.0027
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	30.00	.0000	2.500	.7500	.2500	.0000	.0000
Range	6.000	.0200	.5000	.1500	.0500	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7580	147.0	.7661	.7574	.7545	125.1	2.593
SDev	.0015	.1	.0005	.0012	.0015	.1	.015
%RSD	.2041	.0785	.0609	.1545	.1962	.0991	.5835
#1	.7569	146.9	.7658	.7566	.7555	125.0	2.582
#2	.7591	147.0	.7664	.7582	.7534	125.2	2.603
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.7500	150.0	.7500	.7500	.7500	125.0	2.500
Range	.1500	30.00	.1500	.1500	.1500	25.00	.5000

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.320	76.99	.4973	-.0017	.7448	.7479	-.0004
SDev	.003	.02	.0005	.0012	.0007	.0003	.0001
%RSD	.2405	.0217	.1085	72.31	.0982	.0381	23.66
#1	1.318	76.98	.4969	-.0008	.7442	.7481	-.0003
#2	1.322	77.00	.4977	-.0026	.7453	.7477	-.0005
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	75.00	.5000	.0000	.7500	.7500	.0000
Range	.2500	15.00	.1000	.0200	.1500	.1500	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.675	-.0080	-.0014	.7752	.7533	2.606	2.586
SDev	.024	.0054	.0000	.0019	.0017	.016	.015
%RSD	.9128	67.98	.6444	.2473	.2283	.5995	.5755
#1	2.658	-.0118	-.0014	.7738	.7521	2.595	2.576
#2	2.693	-.0041	-.0015	.7765	.7545	2.617	2.597
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	2.500	.0000	.0000	.7500	.7500		
Range	.5000	.0200	.0200	.1500	.1500		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	1.323	1.319	27.15	54.49
SDev	.003	.006	.07	.08
%RSD	.2549	.4889	.2666	.1553
#1	1.325	1.314	27.09	54.43
#2	1.320	1.324	27.20	54.55
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18990	--	--	--	--	--	--
SDev	52.32590	--	--	--	--	--	--
%RSD	.2755445	--	--	--	--	--	--
#1	19027	--	--	--	--	--	--
#2	18953	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/31/07 01:33:20
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.587	.4980	.2572	2.549	.5037	2.527	2.514
SDev	.004	.0024	.0003	.000	.0002	.010	.005
%RSD	.1485	.4929	.1352	.0192	.0441	.4012	.2138
#1	2.585	.4997	.2575	2.549	.5039	2.534	2.510
#2	2.590	.4962	.2570	2.549	.5036	2.520	2.518
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2468	2.455	.2499	2.521	2.538	2.529	.2554
SDev	.0013	.001	.0003	.001	.001	.006	.0021
%RSD	.5280	.0216	.1231	.0459	.0389	.2443	.8182
#1	.2459	2.455	.2497	2.520	2.538	2.525	.2539
#2	.2477	2.456	.2502	2.522	2.537	2.533	.2569
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.531	2.493	.2512	2.546	2.502	.2472	.2550
SDev	.019	.000	.0005	.004	.004	.0007	.0000
%RSD	.7532	.0044	.1873	.1660	.1447	.2705	.0141
#1	2.544	2.493	.2509	2.543	2.504	.2477	.2550
#2	2.517	2.493	.2515	2.549	2.499	.2468	.2550
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2643	.2625	.2501	.1255	1.256	.2530	.2566
SDev	.0036	.0043	.0001	.0003	.001	.0038	.0050
%RSD	1.360	1.652	.0613	.2656	.1012	1.498	1.938
#1	.2617	.2656	.2502	.1253	1.257	.2557	.2531
#2	.2668	.2594	.2500	.1257	1.255	.2503	.2601
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	0.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.514	2.539	Q49.01	Q50.39
SDev	.019	.019	.28	.17
%RSD	.7744	.7427	.5615	.3343
#1	2.528	2.552	Q49.20	Q50.51
#2	2.500	2.526	Q48.81	Q50.27
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18474	--	--	--	--	--	--
SDev	24.74874	--	--	--	--	--	--
%RSD	.1339689	--	--	--	--	--	--
#1	18456	--	--	--	--	--	--
#2	18491	--	--	--	--	--	--

Analysis Report QC Standard 12/31/07 01:43:33 AM page 1

Method: SCICPHSB Sample Name: ICB Operator:
Run Time: 12/31/07 01:39:05
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0171	.0043	-.0030	.0002	-.0003	-.0095	.0025
SDev	.0024	.0008	.0006	.0000	.0001	.0033	.0039
%RSD	13.80	18.10	20.62	4.148	22.95	35.05	156.7
#1	.0154	.0037	-.0026	.0002	-.0004	-.0119	.0052
#2	.0188	.0048	-.0034	.0002	-.0003	-.0072	-.0003
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0001	.0013	-.0001	-.0003	-.0070	-.0043
SDev	.0004	.0019	.0009	.0008	.0002	.0031	.0000
%RSD	628.5	2992.	67.77	653.5	73.53	43.35	.8164
#1	.0002	.0013	.0019	.0004	-.0005	-.0092	-.0043
#2	-.0003	-.0014	.0007	-.0006	-.0001	-.0049	-.0042
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.0024	.0003	.0000	.0000	-.0005	-.0000
SDev	.0016	.0000	.0000	.0000	.0011	.0001	.0002
%RSD	109.6	.6440	.4034	.4599	27110.	18.49	7051.
#1	.0003	-.0025	.0003	.0000	.0008	-.0006	-.0001
#2	.0025	-.0024	.0003	.0000	-.0008	-.0004	.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0130	-.0090	.0002	.0008	.0003	-.0020	-.0054
SDev	.0022	.0079	.0002	.0003	.0000	.0008	.0004
%RSD	17.32	88.42	73.93	40.38	1.968	41.74	6.848
#1	-.0146	-.0034	.0004	.0006	.0003	-.0026	-.0051
#2	-.0114	-.0146	.0001	.0011	.0003	-.0014	-.0057
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	.0012	.0016	.0077	.0026
SDev	.0080	.0063	.0032	.0003
%RSD	690.0	409.8	41.59	9.896
#1	.0068	-.0029	.0100	.0025
#2	-.0045	.0060	.0055	.0028
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18538	--	--	--	--	--	--
SDev	50.91169	--	--	--	--	--	--
%RSD	.2746342	--	--	--	--	--	--
#1	18574	--	--	--	--	--	--
#2	18502	--	--	--	--	--	--

Continuing Calibrations

Analysis Report QC Standard 12/28/07 08:56:52 AM page 1

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/28/07 08:52:24
Comment: 19357T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.423	.5061	.2524	2.455	.4765	2.523	2.505
SDev	.003	.0038	.0088	.001	.0006	.027	.006
%RSD	.1410	.7562	3.490	.0600	.1158	1.061	.2328
#1	2.421	.5088	.2586	2.456	.4761	2.542	2.501
#2	2.426	.5034	.2462	2.454	.4769	2.504	2.509
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2341	2.321	.2406	2.472	2.551	2.515	.2366
SDev	.0007	.001	.0017	.003	.001	.005	.0006
%RSD	.2875	.0452	.7142	.1414	.0466	.1878	.2359
#1	.2336	2.322	.2393	2.469	2.550	2.519	.2362
#2	.2346	2.320	.2418	2.474	2.552	2.512	.2369
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.403	2.360	.2473	2.496	2.455	.2546	.2448
SDev	.009	.009	.0003	.004	.000	.0005	.0001
%RSD	.3760	.3745	.1435	.1663	.0019	.1978	.0582
#1	2.397	2.353	.2475	2.493	2.455	.2542	.2449
#2	2.410	2.366	.2470	2.499	2.455	.2550	.2447
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2245	.2568	.2507	.1215	1.239	.2368	.2364
SDev	.0036	.0006	.0002	.0006	.002	.0027	.0005
%RSD	1.583	.2199	.0827	.5347	.1570	1.126	.2094
#1	.2270	.2572	.2506	.1211	1.238	.2349	.2368
#2	Q.2220	.2564	.2509	.1220	1.241	.2387	.2361
Errors	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	0.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.387	2.411	Q47.25	Q48.83
SDev	.009	.018	.13	.01
%RSD	.3740	.7473	.2736	.0233
#1	2.394	2.399	Q47.34	Q48.84
#2	2.381	2.424	Q47.16	Q48.82
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17010	--	--	--	--	--	--
SDev	14.14214	--	--	--	--	--	--
%RSD	.0831401	--	--	--	--	--	--
#1	17020	--	--	--	--	--	--
#2	17000	--	--	--	--	--	--

Analysis Report QC Standard 12/28/07 09:07:28 AM page 1

Method: SCICPHSB Sample Name: ICS Operator:
Run Time: 12/28/07 09:02:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.38	-.0108	2.783	.7785	.2543	.0108	-.0066
SDev	.04	.0002	.001	.0011	.0000	.0112	.0022
%RSD	.1191	1.485	.0198	.1481	.0014	104.3	33.70
#1	30.36	-.0107	2.782	.7777	.2543	.0187	-.0081
#2	30.41	-.0109	2.783	.7793	.2543	.0028	-.0050
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	30.00	.0000	2.500	.7500	.2500	.0000	.0000
Range	6.000	.0200	.5000	.1500	.0500	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7451	145.4	.7706	.8051	.8168	136.0	2.494
SDev	.0004	.1	.0003	.0015	.0006	.1	.006
%RSD	.0601	.0428	.0401	.1832	.0679	.0529	.2427
#1	.7454	145.4	.7708	.8062	.8172	135.9	2.490
#2	.7447	145.5	.7704	.8041	.8164	136.0	2.499
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.7500	150.0	.7500	.7500	.7500	125.0	2.500
Range	.1500	30.00	.1500	.1500	.1500	25.00	.5000

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.304	75.83	.5291	.0010	.7872	.8412	-.0018
SDev	.006	.03	.0003	.0000	.0014	.0004	.0000
%RSD	.4740	.0410	.0556	1.294	.1846	.0455	.7881
#1	1.300	75.81	.5293	.0010	.7862	.8415	-.0018
#2	1.308	75.85	.5289	.0010	.7883	.8409	-.0017
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	75.00	.5000	.0000	.7500	.7500	.0000
Range	.2500	15.00	.1000	.0200	.1500	.1500	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.311	.0104	-.0015	.8018	.7989	2.542	2.470
SDev	.016	.0023	.0002	.0001	.0019	.002	.008
%RSD	.7114	21.97	12.22	.0181	.2431	.0891	.3217
#1	2.299	.0120	-.0017	.8017	.7975	2.541	2.465
#2	2.323	.0087	-.0014	.8019	.8002	2.544	2.476
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	2.500	.0000	.0000	.7500	.7500		
Range	.5000	.0200	.0200	.1500	.1500		

Elem	1960/1	1960/2	Na	K

0633

Units	ppm	ppm	ppm	ppm
Avge	1.295	1.309	27.50	55.92
SDev	.006	.006	.04	.25
%RSD	.4850	.4686	.1597	.4456
#1	1.290	1.304	27.47	55.75
#2	1.299	1.313	27.53	56.10
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17192	--	--	--	--	--	--
SDev	115.2584	--	--	--	--	--	--
%RSD	.6703993	--	--	--	--	--	--
#1	17274	--	--	--	--	--	--
#2	17111	--	--	--	--	--	--

Analysis Report QC Standard 12/28/07 11:28:29 AM page 1

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/28/07 11:23:57
Comment: 19360T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.508	.5272	.2696	2.541	.5005	2.641	2.635
SDev	.003	.0017	.0005	.006	.0006	.010	.003
%RSD	.1319	.3217	.1772	.2200	.1094	.3837	.1157
#1	2.511	.5284	.2700	2.545	.5009	2.648	2.633
#2	2.506	.5260	.2693	2.537	.5001	2.633	2.638
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2476	2.453	.2541	2.595	2.643	2.662	.2473
SDev	.0004	.006	.0019	.002	.003	.005	.0005
%RSD	.1773	.2356	.7498	.0644	.1225	.1936	.2079
#1	.2473	2.457	.2554	2.596	2.645	2.658	.2476
#2	.2479	2.449	.2528	2.593	2.641	2.665	.2469
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.516	2.501	.2600	2.604	2.589	.2647	.2538
SDev	.000	.004	.0004	.009	.006	.0011	.0008
%RSD	.0012	.1519	.1591	.3620	.2443	.4057	.3116
#1	2.516	2.503	.2603	2.598	2.593	.2655	.2544
#2	2.516	2.498	.2597	2.611	2.584	.2640	.2532
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2442	.2535	.2628	.1277	1.299	.2528	.2445
SDev	.0005	.0045	.0002	.0006	.002	.0040	.0013
%RSD	.1939	1.775	.0745	.4537	.1776	1.599	.5114
#1	.2438	.2503	.2629	.1281	1.301	.2557	.2436
#2	.2445	.2567	.2627	.1273	1.297	.2499	.2454
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.507	2.520	Q48.28	Q50.33
SDev	.002	.001	.14	.30
%RSD	.0991	.0511	.2926	.5990
#1	2.508	2.519	Q48.38	Q50.55
#2	2.505	2.521	Q48.18	Q50.12
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17466	--	--	--	--	--	--
SDev	54.44722	--	--	--	--	--	--
%RSD	.3117416	--	--	--	--	--	--
#1	17427	--	--	--	--	--	--
#2	17504	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/28/07 11:53:02
Comment: 19356T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.513	.5339	.2708	2.570	.4996	2.639	2.669
SDev	.004	.0105	.0004	.007	.0005	.010	.002
%RSD	.1408	1.963	.1565	.2550	.1056	.3613	.0855
#1	2.515	.5413	.2705	2.575	.4999	2.645	2.668
#2	2.510	.5265	.2711	2.565	.4992	2.632	2.671
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2457	2.458	.2537	2.595	2.709	2.653	.2491
SDev	.0002	.003	.0012	.004	.011	.001	.0020
%RSD	.0859	.1299	.4872	.1470	.4019	.0534	.8142
#1	.2459	2.460	.2545	2.597	2.716	2.654	.2505
#2	.2456	2.456	.2528	2.592	2.701	2.652	.2476
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.539	2.499	.2610	2.630	2.588	.2669	.2581
SDev	.007	.005	.0003	.003	.001	.0016	.0009
%RSD	.2780	.2070	.1142	.1051	.0312	.6181	.3320
#1	2.544	2.502	.2613	2.631	2.588	.2681	.2587
#2	2.534	2.495	.2608	2.628	2.589	.2657	.2575
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2379	.2487	.2670	.1279	1.313	.2497	.2488
SDev	.0086	.0031	.0008	.0002	.002	.0020	.0020
%RSD	3.596	1.256	.2869	.1514	.1892	.8066	.8180
#1	.2319	.2465	.2676	.1280	1.315	.2511	.2502
#2	.2440	.2509	.2665	.1278	1.311	.2482	.2473
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

0037

Units	ppm	ppm	ppm	ppm
Avge	2.508	2.554	Q48.87	Q50.70
SDev	.026	.002	.45	.19
%RSD	1.025	.0887	.9116	.3778
#1	2.526	2.553	Q49.18	Q50.83
#2	2.490	2.556	Q48.55	Q50.56
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17199	--	--	--	--	--	--
SDev	49.49748	--	--	--	--	--	--
%RSD	.2877927	--	--	--	--	--	--
#1	17164	--	--	--	--	--	--
#2	17234	--	--	--	--	--	--

Method: SCICPHSB Sample Name: ICS Operator:
Run Time: 12/28/07 12:04:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.68	-.0035	2.701	.7667	.2456	-.0067	-.0051
SDev	.05	.0010	.008	.0009	.0007	.0094	.0000
%RSD	.1807	28.04	.3028	.1159	.2824	141.3	.1371
#1	29.64	-.0028	2.695	.7661	.2451	-.0000	-.0052
#2	29.72	-.0042	2.706	.7673	.2461	-.0133	-.0051
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	30.00	.0000	2.500	.7500	.2500	.0000	.0000
Range	6.000	.0200	.5000	.1500	.0500	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7176	141.4	.7498	.7758	.8103	131.8	2.401
SDev	.0012	.3	.0019	.0023	.0020	.3	.010
%RSD	.1667	.2385	.2494	.2936	.2455	.2543	.4215
#1	.7168	141.1	.7485	.7742	.8089	131.6	2.393
#2	.7184	141.6	.7511	.7775	.8117	132.0	2.408
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.7500	150.0	.7500	.7500	.7500	125.0	2.500
Range	.1500	30.00	.1500	.1500	.1500	25.00	.5000

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.263	73.34	.5147	.0020	.7604	.8220	-.0008
SDev	.015	.21	.0008	.0014	.0027	.0013	.0000
%RSD	1.192	.2888	.1509	69.38	.3622	.1590	1.766
#1	1.252	73.19	.5141	.0029	.7585	.8211	-.0009
#2	1.273	73.49	.5152	.0010	.7624	.8229	-.0008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	75.00	.5000	.0000	.7500	.7500	.0000
Range	.2500	15.00	.1000	.0200	.1500	.1500	.0050

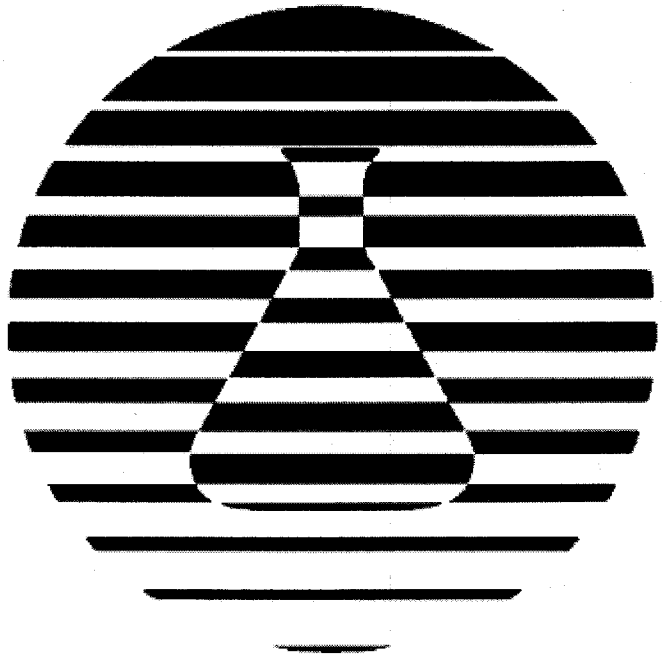
Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.233	.0043	.0001	.7779	.7806	2.451	2.376
SDev	.005	.0092	.0000	.0006	.0018	.011	.010
%RSD	.2076	210.8	15.77	.0758	.2339	.4419	.4083
#1	2.236	.0108	.0001	.7775	.7793	2.443	2.369
#2	2.230	-.0021	.0001	.7784	.7819	2.459	2.382
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	2.500	.0000	.0000	.7500	.7500		
Range	.5000	.0200	.0200	.1500	.1500		

Elem	1960/1	1960/2	Na	K

0039

Units	ppm	ppm	ppm	ppm
Avge	1.258	1.265	27.01	54.95
SDev	.002	.023	.02	.38
%RSD	.1526	1.856	.0604	.6854
#1	1.259	1.248	27.00	54.68
#2	1.256	1.282	27.02	55.22
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17262	--	--	--	--	--	--
SDev	135.7645	--	--	--	--	--	--
%RSD	.7864935	--	--	--	--	--	--
#1	17358	--	--	--	--	--	--
#2	17166	--	--	--	--	--	--



DIVIDER PAGE

Analysis Report QC Standard 12/31/07 02:33:41 AM page 1

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/31/07 02:29:13
Comment: 19373T
Mode: CONC Corr. Factor: 1

NOCa

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.555	.4849	.2568	2.484	.5017	2.467	2.437
SDev	.008	.0006	.0072	.000	.0000	.005	.008
%RSD	.3302	.1127	2.802	.0079	.0078	.2085	.3085
#1	2.549	.4845	.2619	2.484	.5017	2.463	2.432
#2	2.561	.4853	.2517	2.484	.5016	2.470	2.443
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2450	Q3.207	.2433	2.486	2.434	2.464	.2550
SDev	.0008	.005	.0006	.001	.005	.006	.0003
%RSD	.3296	.1484	.2548	.0223	.1925	.2322	.1009
#1	.2456	Q3.204	.2437	2.486	2.431	2.468	.2552
#2	.2445	Q3.211	.2428	2.486	2.438	2.460	.2548
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.480	2.438	.2462	2.490	2.460	.2436	.2472
SDev	.006	.010	.0002	.002	.003	.0014	.0002
%RSD	.2601	.3985	.0915	.0675	.1280	.5858	.0871
#1	2.476	2.445	.2464	2.491	2.458	.2446	.2471
#2	2.485	2.431	.2460	2.489	2.462	.2426	.2474
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2672	.2506	.2432	.1230	1.235	.2506	.2571
SDev	.0143	.0060	.0010	.0002	.002	.0001	.0004
%RSD	5.360	2.399	.4108	.1276	.1521	.0479	.1488
#1	Q.2774	.2548	.2425	.1231	1.234	.2507	.2574
#2	.2571	.2463	.2439	.1229	1.236	.2505	.2568
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	0.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.521	2.460	Q47.95	Q49.16
SDev	.015	.002	.15	.13
%RSD	.6135	.0791	.3040	.2733
#1	2.510	2.458	Q47.85	Q49.06
#2	2.532	2.461	Q48.06	Q49.25
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18682	--	--	--	--	--	--
SDev	77.07464	--	--	--	--	--	--
%RSD	.4125720	--	--	--	--	--	--
#1	18736	--	--	--	--	--	--
#2	18627	--	--	--	--	--	--

Analysis Report QC Standard 12/31/07 03:36:24 AM page 1

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/31/07 03:31:56
Comment: 19374T
Mode: CONC Corr. Factor: 1

Tl out

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.576	.4902	.2520	2.472	.5020	2.473	2.414
SDev	.001	.0031	.0049	.001	.0001	.010	.003
%RSD	.0310	.6356	1.942	.0471	.0156	.4016	.1314
#1	2.577	.4880	.2554	2.473	.5019	2.466	2.412
#2	2.576	.4924	.2485	2.471	.5020	2.480	2.416
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2417	2.568	.2404	2.477	2.402	2.453	.2481
SDev	.0002	.002	.0004	.000	.000	.017	.0042
%RSD	.0725	.0832	.1889	.0088	.0025	.6983	1.685
#1	.2416	2.569	.2408	2.477	2.402	2.465	.2510
#2	.2418	2.566	.2401	2.477	2.402	2.441	.2451
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.476	2.413	.2432	2.486	2.440	.2439	.2447
SDev	.003	.003	.0003	.003	.003	.0009	.0005
%RSD	.1126	.1312	.1163	.1349	.1064	.3841	.2085
#1	2.478	2.415	.2430	2.489	2.438	.2446	.2451
#2	2.474	2.410	.2434	2.484	2.442	.2433	.2444
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2784	.2469	.2402	.1224	1.220	.2431	.2506
SDev	.0083	.0021	.0008	.0006	.001	.0012	.0069
%RSD	2.980	.8530	.3382	.5272	.0493	.4890	2.740
#1	.2725	.2454	.2408	.1219	1.220	.2423	.2554
#2	Q.2842	.2483	.2396	.1228	1.221	.2440	.2457
Errors	QC Fail	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

064

Units	ppm	ppm	ppm	ppm
Avge	2.563	2.433	Q48.35	Q49.63
SDev	.011	.010	.21	.18
%RSD	.4265	.3965	.4285	.3536
#1	2.555	2.440	Q48.49	Q49.76
#2	2.570	2.426	Q48.20	Q49.51
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18586	--	--	--	--	--	--
SDev	77.07464	--	--	--	--	--	--
%RSD	.4147031	--	--	--	--	--	--
#1	18531	--	--	--	--	--	--
#2	18640	--	--	--	--	--	--

Analysis Report QC Standard 12/31/07 04:32:05 AM

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/31/07 04:27:37
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.537	.4800	.2467	2.417	.5022	2.444	2.362
SDev	.006	.0013	.0034	.004	.0012	.004	.003
%RSD	.2278	.2783	1.370	.1573	.2434	.1438	.1079
#1	2.541	.4809	.2491	2.419	.5030	2.447	2.360
#2	2.533	.4790	.2443	2.414	.5013	2.442	2.364
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2409	2.577	.2374	2.461	2.325	2.413	.2510
SDev	.0002	.008	.0007	.009	.001	.008	.0037
%RSD	.0974	.3243	.3073	.3596	.0268	.3356	1.476
#1	.2407	2.583	.2379	2.468	2.326	2.418	.2484
#2	.2411	2.571	.2369	2.455	2.325	2.407	.2536
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.448	2.385	.2398	2.452	2.417	.2410	.2382
SDev	.013	.017	.0005	.004	.009	.0020	.0005
%RSD	.5210	.6937	.1993	.1509	.3646	.8433	.2125
#1	2.439	2.397	.2402	2.454	2.423	.2424	.2385
#2	2.457	2.373	.2395	2.449	2.411	.2395	.2378
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2595	.2362	.2332	.1213	1.204	.2488	.2521
SDev	.0007	.0095	.0021	.0008	.001	.0060	.0085
%RSD	.2604	4.007	.8885	.6145	.0951	2.400	3.389
#1	.2590	.2295	.2347	.1219	1.205	.2531	.2461
#2	.2600	.2429	.2317	.1208	1.203	.2446	.2582
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	2.555	2.395	Q47.84	Q48.91
SDev	.011	.025	.03	.01
%RSD	.4371	1.032	.0662	.0167
#1	2.563	2.378	Q47.86	Q48.92
#2	2.547	2.413	Q47.82	Q48.91
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18672	--	--	--	--	--	--
SDev	62.93250	--	--	--	--	--	--
%RSD	.3370512	--	--	--	--	--	--
#1	18716	--	--	--	--	--	--
#2	18627	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCV Operator:
Run Time: 12/31/07 05:23:08
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.536	.4776	.2453	2.389	.4972	2.424	2.318
SDev	.006	.0013	.0072	.003	.0002	.002	.001
%RSD	.2342	.2770	2.928	.1168	.0472	.0636	.0642
#1	2.532	.4785	.2504	2.391	.4974	2.423	2.316
#2	2.540	.4766	.2403	2.387	.4971	2.425	2.319
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	.5000	.2500	2.500	.5000	2.500	2.500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2364	2.488	.2337	2.428	2.287	2.349	.2468
SDev	.0010	.005	.0011	.001	.006	.000	.0022
%RSD	.4335	.2121	.4591	.0487	.2842	.0145	.9058
#1	.2371	2.492	.2330	2.427	2.292	2.349	.2452
#2	.2356	2.484	.2345	2.429	2.283	2.350	.2484
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2500	2.500	.2500	2.500	2.500	2.500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.417	2.341	.2360	2.422	2.382	.2382	.2347
SDev	.005	.004	.0001	.003	.005	.0004	.0006
%RSD	.1902	.1604	.0368	.1076	.2197	.1664	.2561
#1	2.414	2.344	.2361	2.421	2.386	.2379	.2351
#2	2.420	2.338	.2359	2.424	2.378	.2385	.2342
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	2.500	.2500	2.500	2.500	.2500	.2500
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2748	.2312	.2291	.1196	1.183	.2446	.2480
SDev	.0075	.0013	.0002	.0000	.003	.0016	.0026
%RSD	2.734	.5498	.1027	.0033	.2794	.6679	1.046
#1	Q.2802	.2321	.2293	.1196	1.185	.2434	.2461
#2	.2695	.2303	.2290	.1196	1.180	.2457	.2498
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value	.2500	.2500	.2500	.1250			
Range	10.00	10.00	10.00	10.00			

Elem	1960/1	1960/2	Na	K

0948

Units	ppm	ppm	ppm	ppm
Avge	2.570	2.340	Q47.84	Q48.90
SDev	.002	.008	.04	.19
%RSD	.0959	.3473	.0814	.3801
#1	2.572	2.334	Q47.82	Q48.77
#2	2.569	2.346	Q47.87	Q49.04
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail
Value			5.000	5.000
Range			10.00	10.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18498	--	--	--	--	--	--
SDev	24.74874	--	--	--	--	--	--
%RSD	.1337878	--	--	--	--	--	--
#1	18516	--	--	--	--	--	--
#2	18481	--	--	--	--	--	--

Method: SCICPHSB Sample Name: ICS Operator:
Run Time: 12/31/07 05:38:18
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	30.35	-.0041	2.617	.7552	.2570	.0025	-.0009
SDev	.04	.0015	.024	.0006	.0003	.0034	.0016
%RSD	.1412	36.78	.9343	.0831	.1094	134.8	176.9
#1	30.38	-.0030	2.600	.7557	.2568	.0001	-.0021
#2	30.32	-.0051	2.634	.7548	.2572	.0049	.0002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	30.00	.0000	2.500	.7500	.2500	.0000	.0000
Range	6.000	.0200	.5000	.1500	.0500	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7292	141.1	.7291	.7388	.7070	120.3	2.563
SDev	.0012	.3	.0002	.0011	.0003	.2	.005
%RSD	.1596	.1807	.0243	.1452	.0461	.1485	.2102
#1	.7284	140.9	.7290	.7381	.7068	120.2	2.559
#2	.7300	141.2	.7293	.7396	.7073	120.4	2.567
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.7500	150.0	.7500	.7500	.7500	125.0	2.500
Range	.1500	30.00	.1500	.1500	.1500	25.00	.5000

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.290	72.90	.4741	-.0031	.7158	.7474	-.0008
SDev	.002	.21	.0013	.0019	.0004	.0000	.0000
%RSD	.1660	.2893	.2731	61.35	.0568	.0050	.5596
#1	1.292	72.75	.4732	-.0017	.7156	.7474	-.0008
#2	1.289	73.05	.4750	-.0044	.7161	.7474	-.0008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	75.00	.5000	.0000	.7500	.7500	.0000
Range	.2500	15.00	.1000	.0200	.1500	.1500	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.666	-.0030	.0011	.7645	.7252	2.570	2.560
SDev	.002	.0079	.0016	.0012	.0023	.010	.003
%RSD	.0677	260.3	147.5	.1612	.3182	.3915	.1191
#1	2.667	-.0086	.0022	.7636	.7236	2.563	2.558
#2	2.665	.0025	-.0000	.7653	.7268	2.577	2.562
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	2.500	.0000	.0000	.7500	.7500		
Range	.5000	.0200	.0200	.1500	.1500		

Elem	1960/1	1960/2	Na	K

0650

Units	ppm	ppm	ppm	ppm
Avge	1.358	1.256	27.60	55.44
SDev	.009	.001	.03	.11
%RSD	.6600	.0965	.0969	.2071
#1	1.364	1.255	27.61	55.52
#2	1.352	1.257	27.58	55.36
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value				
Range				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18628	--	--	--	--	--	--
SDev	17.67767	--	--	--	--	--	--
%RSD	.0949009	--	--	--	--	--	--
#1	18640	--	--	--	--	--	--
#2	18615	--	--	--	--	--	--

Total Metals by 6010B QC Raw Data

Instrument Blank Raw Data

Analysis Report QC Standard 12/28/07 09:02:38 AM page 1

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/28/07 08:58:10
Comment: 19357T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	-.0026	-.0040	-.0001	-.0001	-.0027	-.0016
SDev	.0024	.0078	.0024	.0003	.0000	.0077	.0004
%RSD	248.7	302.5	58.74	241.1	2.118	288.3	23.26
#1	-.0007	.0029	-.0057	.0001	-.0001	-.0081	-.0013
#2	.0027	-.0081	-.0023	-.0004	-.0001	.0028	-.0018
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0079	-.0010	-.0004	-.0005	-.0110	.0015
SDev	.0002	.0010	.0006	.0006	.0005	.0100	.0000
%RSD	136.8	12.54	63.33	146.7	98.16	91.13	1.391
#1	-.0003	-.0072	-.0014	.0000	-.0001	-.0039	.0016
#2	-.0000	-.0086	-.0005	-.0008	-.0008	-.0180	.0015
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	.0073	-.0003	.0093	-.0006	-.0014	.0001
SDev	.0006	.0000	.0001	.0104	.0009	.0005	.0001
%RSD	7.495	.1035	20.60	111.5	141.6	36.99	138.9
#1	-.0072	.0073	-.0003	.0020	.0000	-.0010	.0002
#2	-.0080	.0073	-.0002	.0167	-.0013	-.0017	.0000
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0127	.0137	.0008	-.0010	-.0007	-.0038	.0042
SDev	.0059	.0062	.0000	.0002	.0000	.0034	.0017
%RSD	46.51	45.26	.0205	17.77	.9084	90.01	41.37
#1	.0168	.0093	.0008	-.0012	-.0007	-.0062	.0054
#2	.0085	.0180	.0008	-.0009	-.0006	-.0014	.0030
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

0654

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	-.0059	-.0084	.0089	-.0423
SDev	.0068	.0043	.0016	.0294
%RSD	115.2	50.77	18.18	69.35
#1	-.0107	-.0054	.0078	-.0631
#2	-.0011	-.0114	.0101	-.0216
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17030	--	--	--	--	--	--
SDev	10.60660	--	--	--	--	--	--
%RSD	.0622800	--	--	--	--	--	--
#1	17038	--	--	--	--	--	--
#2	17023	--	--	--	--	--	--

Analysis Report QC Standard 12/28/07 11:34:21 AM

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/28/07 11:29:48
Comment: 19360T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0141	-.0027	-.0079	-.0001	.0002	-.0122	.0006
SDev	.0053	.0015	.0009	.0003	.0000	.0094	.0029
%RSD	37.40	57.66	11.34	236.6	26.63	77.28	485.0
#1	-.0104	-.0016	-.0086	.0001	.0001	-.0055	.0027
#2	-.0178	-.0038	-.0073	-.0004	.0002	-.0189	-.0015
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0027	-.0025	.0001	.0019	-.0088	.0011
SDev	.0006	.0010	.0002	.0002	.0005	.0044	.0008
%RSD	228.7	36.74	7.019	126.4	25.05	49.65	67.62
#1	-.0007	-.0020	-.0026	.0000	.0022	-.0057	.0006
#2	.0002	-.0034	-.0023	.0003	.0015	-.0119	.0017
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0060	.0008	-.0000	-.0042	-.0006	-.0012	.0001
SDev	.0027	.0007	.0001	.0088	.0009	.0001	.0001
%RSD	45.61	80.66	120.2	207.6	141.2	5.976	131.7
#1	-.0041	.0013	-.0000	.0020	-.0000	-.0012	.0002
#2	-.0079	.0004	-.0001	-.0105	-.0012	-.0013	.0000
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0114	-.0036	.0008	-.0021	-.0000	-.0087	.0061
SDev	.0053	.0106	.0000	.0005	.0000	.0006	.0015
%RSD	46.21	292.1	.0067	25.94	17.72	7.305	25.04
#1	.0151	.0039	.0008	-.0024	-.0000	-.0082	.0050
#2	.0077	-.0111	.0008	-.0017	-.0000	-.0091	.0071
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	0.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	-.0124	-.0028	.0088	-.0355
SDev	.0063	.0072	.0000	.0207
%RSD	50.78	263.0	.2929	58.36
#1	-.0169	.0024	.0088	-.0501
#2	-.0080	-.0079	.0089	-.0208
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17356	--	--	--	--	--	--
SDev	11.31371	--	--	--	--	--	--
%RSD	.0651861	--	--	--	--	--	--
#1	17348	--	--	--	--	--	--
#2	17364	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/28/07 11:58:53
Comment: 19356T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0076	-.0023	-.0055	-.0001	.0001	-.0162	.0001
SDev	.0009	.0029	.0072	.0000	.0000	.0038	.0007
%RSD	11.74	125.1	129.6	.8774	11.88	23.19	1126.
#1	-.0070	-.0003	-.0005	-.0001	.0001	-.0189	.0006
#2	-.0082	-.0044	Q-.0106	-.0001	.0001	-.0135	-.0004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0042	-.0014	-.0008	.0010	-.0173	-.0008
SDev	.0001	.0010	.0013	.0004	.0008	.0207	.0006
%RSD	14.09	24.89	92.03	47.61	77.98	119.7	77.25
#1	-.0006	-.0049	-.0005	-.0011	.0004	-.0027	-.0012
#2	-.0005	-.0034	-.0023	-.0006	.0015	-.0319	-.0004
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0036	.0032	-.0000	.0006	-.0012	-.0017	.0002
SDev	.0036	.0147	.0001	.0007	.0012	.0003	.0000
%RSD	97.74	465.2	1264.	123.4	94.37	18.21	.1370
#1	-.0011	.0136	.0001	.0010	-.0004	-.0020	.0002
#2	-.0062	-.0073	-.0001	.0001	-.0021	-.0015	.0002
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

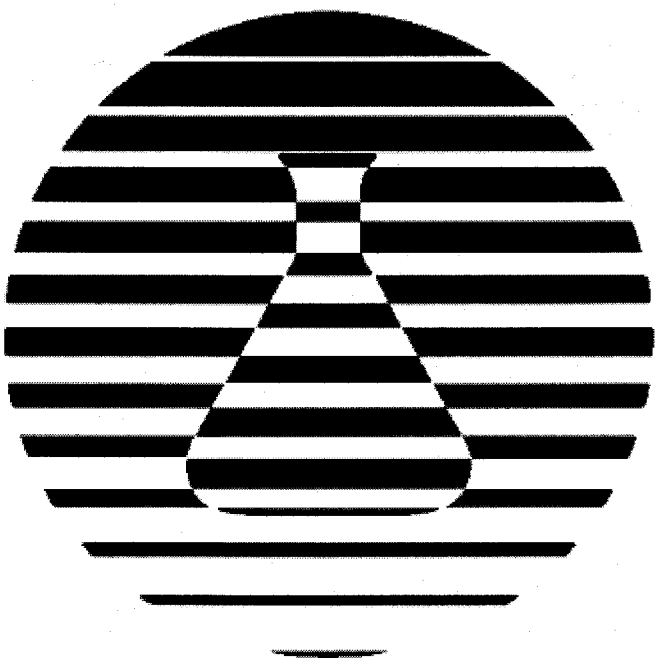
Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0166	.0028	.0000	-.0018	-.0000	-.0088	.0032
SDev	.0009	.0030	.0002	.0009	.0000	.0025	.0003
%RSD	5.664	107.4	885.7	49.72	39.66	27.92	9.873
#1	.0159	.0007	.0002	-.0012	-.0000	-.0106	.0035
#2	.0172	.0049	-.0001	-.0024	-.0000	-.0071	.0030
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

0658

Units	ppm	ppm	ppm	ppm
Avge	-.0037	-.0036	.0062	-.0418
SDev	.0036	.0071	.0019	.0104
%RSD	97.12	195.9	31.53	24.84
#1	-.0062	.0014	.0048	-.0491
#2	-.0011	-.0087	.0076	-.0344
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17401	--	--	--	--	--	--
SDev	46.66905	--	--	--	--	--	--
%RSD	.2681975	--	--	--	--	--	--
#1	17434	--	--	--	--	--	--
#2	17368	--	--	--	--	--	--



DIVIDER PAGE

0990

Analysis Report QC Standard 12/31/07 02:46:35 AM page 1

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/31/07 02:42:07
Comment: 19373T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0423	.0036	-.0050	.0001	-.0008	.0024	.0022
SDev	.0005	.0022	.0028	.0001	.0000	.0101	.0023
%RSD	1.273	61.92	55.95	234.9	3.950	427.6	101.4
#1	.0427	.0052	-.0070	.0002	-.0008	-.0048	.0038
#2	.0419	.0020	-.0030	-.0000	-.0008	.0095	.0006
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0001	.0013	.0002	-.0019	-.0050	-.0022
SDev	.0000	.0000	.0009	.0011	.0013	.0039	.0014
%RSD	3.138	38.65	72.39	677.9	70.07	77.49	63.81
#1	.0003	-.0001	.0006	.0010	-.0009	-.0022	-.0012
#2	.0003	-.0001	.0020	-.0006	-.0028	-.0077	-.0032
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	-.0049	.0001	.0068	.0004	-.0007	-.0001
SDev	.0058	.0007	.0001	.0095	.0000	.0001	.0000
%RSD	403.5	13.84	138.5	140.7	.5139	8.450	.2669
#1	-.0055	-.0054	.0000	.0135	.0004	-.0007	-.0001
#2	.0027	-.0044	.0001	.0000	.0004	-.0007	-.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0056	-.0022	.0011	.0006	.0006	.0029	-.0048
SDev	.0085	.0016	.0000	.0003	.0004	.0012	.0015
%RSD	152.5	69.75	.0201	56.39	73.35	42.01	31.96
#1	-.0116	-.0034	.0011	.0008	.0003	.0037	-.0037
#2	.0004	-.0011	.0011	.0004	.0008	.0020	-.0058
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	.0067	-.0055	-.0020	-.0031
SDev	.0106	.0034	.0004	.0020
%RSD	158.9	61.74	19.85	64.88
#1	-.0008	-.0079	-.0017	-.0017
#2	.0142	-.0031	-.0023	-.0045
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18594	--	--	--	--	--	--
SDev	44.54773	--	--	--	--	--	--
%RSD	.2395748	--	--	--	--	--	--
#1	18563	--	--	--	--	--	--
#2	18626	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/31/07 03:37:41
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0637	-.0020	-.0081	.0002	-.0008	-.0024	.0036
SDev	.0029	.0036	.0027	.0000	.0001	.0068	.0023
%RSD	4.492	178.0	33.60	4.511	10.66	280.9	62.22
#1	.0617	.0005	-.0062	.0002	-.0008	.0024	.0052
#2	.0657	-.0046	Q-.0101	.0002	-.0009	-.0072	.0020
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0000	-.0006	.0007	-.0025	.0183	-.0018
SDev	.0004	.0020	.0003	.0004	.0004	.0110	.0022
%RSD	278.5	62540.	46.77	55.23	14.76	59.89	120.6
#1	-.0001	-.0014	-.0007	.0004	-.0027	.0261	-.0003
#2	.0004	.0014	-.0004	.0009	-.0022	.0106	-.0033
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	.0010	.0003	.0000	-.0000	-.0008	-.0001
SDev	.0001	.0035	.0000	.0000	.0022	.0003	.0001
%RSD	2.605	346.5	.2896	.2692	110400.	32.61	134.8
#1	.0032	-.0015	.0003	.0000	.0015	-.0010	-.0000
#2	.0030	.0035	.0003	.0000	-.0015	-.0007	-.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0052	-.0062	.0004	-.0002	.0003	-.0050	-.0002
SDev	.0003	.0087	.0000	.0005	.0000	.0017	.0024
%RSD	5.009	142.0	.4534	212.8	4.668	34.22	1218.
#1	-.0050	.0000	.0004	-.0006	.0003	-.0038	.0015
#2	-.0054	-.0123	.0004	.0001	.0003	-.0062	-.0019
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

0663

Units	ppm	ppm	ppm	ppm
Avge	.0023	.0035	-.0033	-.0283
SDev	.0057	.0027	.0012	.0055
%RSD	245.2	78.36	37.83	19.28
#1	.0064	.0016	-.0041	-.0322
#2	-.0017	.0054	-.0024	-.0245
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18480	--	--	--	--	--	--
SDev	39.59798	--	--	--	--	--	--
%RSD	.2142748	--	--	--	--	--	--
#1	18508	--	--	--	--	--	--
#2	18452	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/31/07 04:33:22
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0926	.0026	-.0074	.0001	-.0012	-.0048	.0038
SDev	.0061	.0046	.0027	.0001	.0000	.0000	.0013
%RSD	6.603	179.2	36.43	211.2	2.674	.3233	33.88
#1	.0883	.0059	-.0093	-.0000	-.0012	-.0048	.0029
#2	.0969	-.0007	-.0055	.0002	-.0012	-.0048	.0048
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0021	.0010	-.0005	-.0034	-.0014	-.0019
SDev	.0002	.0010	.0003	.0002	.0003	.0030	.0013
%RSD	60.93	47.43	27.67	37.59	8.642	219.3	66.99
#1	-.0004	-.0028	.0008	-.0006	-.0032	.0008	-.0028
#2	-.0002	-.0014	.0012	-.0004	-.0036	-.0035	-.0010
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	-.0000	.0001	-.0004	.0006	-.0003	-.0001
SDev	.0001	.0021	.0001	.0019	.0008	.0002	.0000
%RSD	38.84	51400.	69.58	460.5	140.7	61.09	.0342
#1	.0003	-.0015	.0002	-.0018	.0012	-.0002	-.0001
#2	.0005	.0015	.0001	.0009	.0000	-.0004	-.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0048	-.0095	-.0000	.0005	.0006	.0020	-.0039
SDev	.0060	.0008	.0016	.0002	.0004	.0021	.0009
%RSD	124.9	8.228	16290.	35.59	74.34	108.3	22.21
#1	-.0091	-.0101	.0011	.0004	.0003	.0005	-.0045
#2	-.0006	-.0090	-.0012	.0006	.0009	.0035	-.0033
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

Units	ppm	ppm	ppm	ppm
Avge	.0020	-.0005	-.0114	-.0141
SDev	.0025	.0015	.0023	.0164
%RSD	123.0	322.9	20.16	115.8
#1	.0038	-.0015	-.0098	-.0026
#2	.0003	.0006	-.0130	-.0257
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18526	--	--	--	--	--	--
SDev	34.64823	--	--	--	--	--	--
%RSD	.1870198	--	--	--	--	--	--
#1	18551	--	--	--	--	--	--
#2	18502	--	--	--	--	--	--

Method: SCICPHSB Sample Name: CCB Operator:
Run Time: 12/31/07 05:33:21
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0972	-.0069	-.0060	.0002	-.0015	.0060	.0005
SDev	.0001	.0032	.0028	.0000	.0000	.0017	.0023
%RSD	.0963	46.32	47.46	5.417	1.480	27.93	508.7
#1	.0973	-.0092	-.0079	.0002	-.0014	.0072	-.0012
#2	.0972	-.0047	-.0040	.0002	-.0015	.0048	.0021
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.1000	.0200	.0100	.0100	.0040	.0500	.1000

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0022	.0006	.0004	-.0045	-.0064	-.0020
SDev	.0004	.0009	.0001	.0000	.0007	.0020	.0006
%RSD	249.6	39.42	10.96	.3204	15.51	31.29	31.90
#1	-.0001	.0028	.0007	.0004	-.0040	-.0050	-.0024
#2	.0004	.0016	.0006	.0004	-.0050	-.0078	-.0015
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0020	.1000	.0050	.0050	.0100	.0600	.0060

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	-.0019	.0001	.0000	-.0000	-.0002	-.0001
SDev	.0015	.0021	.0001	.0000	.0006	.0006	.0000
%RSD	90.55	109.8	68.38	.2737	3429.	268.1	.1091
#1	.0006	-.0004	.0002	.0000	.0004	.0002	-.0001
#2	.0027	-.0033	.0001	.0000	-.0004	-.0007	-.0001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000	.0000
Range	.0200	.1000	.0050	.0200	.0200	.0040	.0050

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0139	.0007	.0006	.0005	-.0000	-.0050	-.0004
SDev	.0076	.0121	.0004	.0012	.0004	.0033	.0007
%RSD	54.46	1697.	59.11	250.0	2036.	65.23	157.2
#1	-.0193	-.0078	.0009	.0013	-.0003	-.0073	.0000
#2	-.0085	.0093	.0004	-.0004	.0003	-.0027	-.0009
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK
Value	.0000	.0000	.0000	.0000	.0000		
Range	.0200	.0200	.0200	.0050	.0200		

Elem	1960/1	1960/2	Na	K

0667

Units	ppm	ppm	ppm	ppm
Avge	.0006	.0022	-.0122	-.0298
SDev	.0042	.0001	.0013	.0098
%RSD	654.2	6.157	10.53	32.95
#1	-.0023	.0021	-.0131	-.0367
#2	.0036	.0022	-.0113	-.0229
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass
Value			.0000	.0000
Range			.5000	.5000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18294	--	--	--	--	--	--
SDev	84.85281	--	--	--	--	--	--
%RSD	.4638287	--	--	--	--	--	--
#1	18354	--	--	--	--	--	--
#2	18234	--	--	--	--	--	--

Method Blank Raw Data

Method: SCICPHSB Sample Name: 427706(JWK)MB Operator:
Run Time: 12/28/07 10:38:16
Comment: 19360T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0331	.0043	-.0067	.0012	.0003	-.0096	.0449
SDev	.0043	.0127	.0040	.0003	.0000	.0092	.0005
%RSD	13.08	298.2	58.67	26.16	10.47	95.12	1.193
#1	.0301	-.0047	-.0095	.0014	.0002	-.0161	.0445
#2	.0362	.0133	-.0039	.0010	.0003	-.0032	.0453

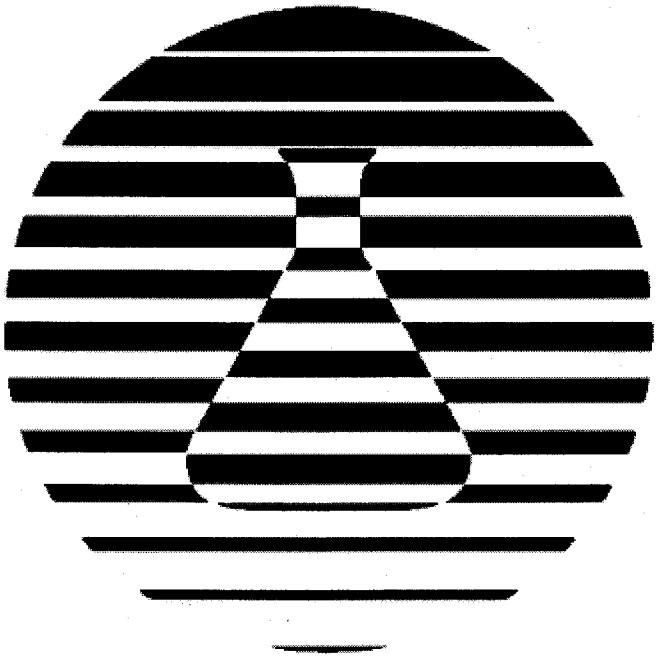
Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.1117	-.0009	-.0003	.0012	-.0144	-.0000
SDev	.0011	.0005	.0017	.0012	.0010	.0115	.0014
%RSD	928.7	.4178	193.7	432.2	84.44	79.91	4984.
#1	-.0009	.1113	-.0020	-.0011	.0005	-.0225	.0010
#2	.0007	.1120	.0003	.0006	.0019	-.0063	-.0010

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0073	.0158	.0035	-.0031	.0014	-.0012	.0005
SDev	.0012	.0132	.0003	.0112	.0020	.0018	.0000
%RSD	17.06	83.09	7.300	361.6	141.6	145.0	.1530
#1	-.0082	.0065	.0033	-.0110	-.0000	-.0025	.0005
#2	-.0064	.0251	.0037	.0048	.0028	.0000	.0005

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0128	.0112	.0038	-.0012	.0100	-.0094	.0047
SDev	.0107	.0015	.0022	.0028	.0004	.0051	.0046
%RSD	82.99	13.03	58.93	233.7	4.541	53.85	99.50
#1	.0204	.0123	.0053	-.0031	.0096	-.0130	.0079
#2	.0053	.0102	.0022	.0008	.0103	-.0058	.0014

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	-.0106	-.0057	.1011	.0139
SDev	.0032	.0003	.0011	.0488
%RSD	30.10	5.768	1.109	351.8
#1	-.0129	-.0059	.1019	-.0207
#2	-.0083	-.0054	.1003	.0484

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17876	--	--	--	--	--	--
SDev	60.10408	--	--	--	--	--	--
%RSD	.3362184	--	--	--	--	--	--
#1	17919	--	--	--	--	--	--
#2	17834	--	--	--	--	--	--



DIVIDER PAGE

Analysis Report 12/31/07 03:00:10 AM

Method: SCICPHSB Sample Name: 427794(JWK)MB Operator: K/Na
Run Time: 12/31/07 02:55:42
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0526	.0116	-.0075	.0006	-.0008	-.0023	.0361
SDev	.0261	.0181	.0041	.0011	.0004	.0098	.0046
%RSD	49.63	156.4	54.27	197.1	43.92	421.3	12.65
#1	.0711	-.0012	-.0046	.0014	-.0006	.0046	.0393
#2	.0342	.0244	-.0103	-.0002	-.0011	-.0092	.0328

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.1195	.0010	-.0027	-.0043	-.0552	-.0023
SDev	.0002	.0070	.0004	.0040	.0039	.0748	.0006
%RSD	784.2	5.854	35.88	150.5	90.61	135.4	27.49
#1	-.0001	.1244	.0008	.0002	-.0016	-.0023	-.0018
#2	.0001	.1145	.0013	-.0055	-.0071	-.1081	-.0027

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0066	-.0126	.0019	-.0073	.0015	-.0017	-.0000
SDev	.0038	.0365	.0001	.0104	.0000	.0024	.0004
%RSD	57.29	290.8	7.218	142.0	.7226	135.5	3176.
#1	-.0092	.0133	.0018	.0000	.0015	-.0001	.0003
#2	-.0039	-.0384	.0019	-.0147	.0015	-.0034	-.0003

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0015	-.0149	.0026	.0004	.0070	.0140	-.0104
SDev	.0159	.0115	.0021	.0002	.0008	.0250	.0134
%RSD	1049.	77.34	79.72	39.67	10.86	178.3	129.0
#1	-.0097	-.0067	.0041	.0006	.0075	-.0037	-.0009
#2	.0127	-.0230	.0011	.0003	.0065	.0317	-.0199

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.0157	-.0176	.0869	.0133
SDev	.0233	.0060	.0104	.0130
%RSD	149.0	33.91	11.97	97.87
#1	-.0008	-.0134	.0796	.0041
#2	.0322	-.0218	.0943	.0225

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19204	--	--	--	--	--	--
SDev	57.27565	--	--	--	--	--	--
%RSD	.2982408	--	--	--	--	--	--
#1	19245	--	--	--	--	--	--
#2	19164	--	--	--	--	--	--

LCS Raw Data

Method: SCICPHSB Sample Name: 427707(JWK)LCS Operator:
Run Time: 12/28/07 10:42:51
Comment: 19360T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.082	.4050	.4385	.9967	.3811	1.077	1.004
SDev	.006	.0065	.0041	.0008	.0011	.003	.005
%RSD	.5390	1.593	.9297	.0839	.2933	.3001	.4776
#1	1.078	.4005	.4413	.9972	.3803	1.075	1.001
#2	1.086	.4096	.4356	.9961	.3819	1.079	1.008

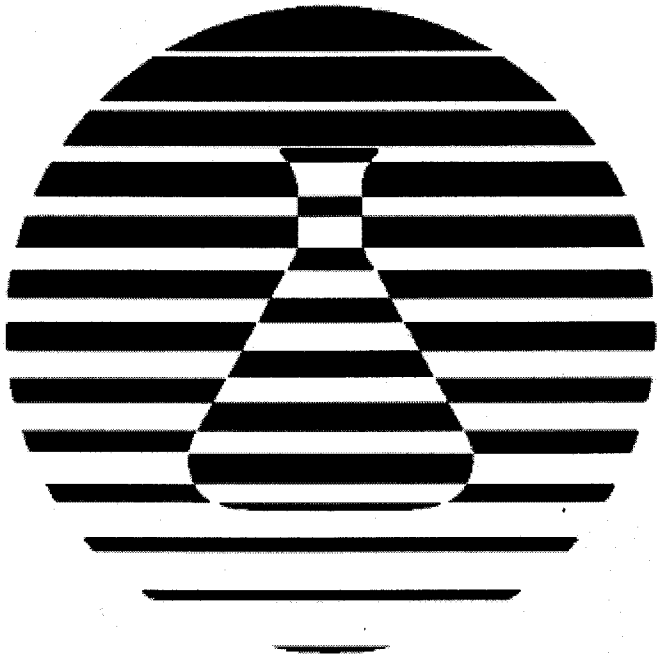
Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1918	4.907	.1968	1.051	1.035	10.57	.9724
SDev	.0011	.011	.0006	.006	.001	.01	.0023
%RSD	.5660	.2192	.3114	.5961	.0798	.1216	.2395
#1	.1910	4.899	.1964	1.047	1.034	10.56	.9741
#2	.1925	4.914	.1972	1.056	1.035	10.58	.9708

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9967	4.914	.2047	1.032	1.016	.2082	.1951
SDev	.0004	.013	.0004	.003	.005	.0005	.0003
%RSD	.0369	.2563	.1768	.2953	.4944	.2486	.1606
#1	.9965	4.905	.2044	1.029	1.013	.2078	.1953
#2	.9970	4.923	.2049	1.034	1.020	.2086	.1949

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.8947	.4131	.2073	.1991	1.037	.9880	.9646
SDev	.0158	.0077	.0002	.0002	.003	.0088	.0078
%RSD	1.766	1.870	.0977	.1214	.2538	.8903	.8117
#1	.8835	.4186	.2072	.1989	1.035	.9817	.9701
#2	.9059	.4077	.2075	.1992	1.039	.9942	.9591

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.9884	1.001	5.694	5.952
SDev	.0016	.000	.009	.007
%RSD	.1631	.0255	.1519	.1186
#1	.9873	1.001	5.700	5.947
#2	.9896	1.001	5.688	5.957

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	17670	--	--	--	--	--	--
SDev	52.32590	--	--	--	--	--	--
%RSD	.2961285	--	--	--	--	--	--
#1	17707	--	--	--	--	--	--
#2	17633	--	--	--	--	--	--



DIVIDER PAGE

0678

Method: SCICPHSB Sample Name: 427795(JWK)LCS Operator:
Run Time: 12/31/07 03:00:14
Comment: 19374T
Mode: CONC Corr. Factor: 1

K|Na

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.089	.3576	.4289	.9833	.3917	1.012	.9685
SDev	.000	.0010	.0001	.0007	.0009	.007	.0034
%RSD	.0274	.2873	.0165	.0674	.2317	.7021	.3531
#1	1.089	.3583	.4289	.9838	.3911	1.007	.9660
#2	1.089	.3568	.4288	.9828	.3924	1.017	.9709

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1945	4.893	.1930	.9937	.9294	9.618	1.022
SDev	.0000	.015	.0004	.0028	.0006	.035	.005
%RSD	.0089	.3103	.2279	.2775	.0644	.3652	.4991
#1	.1945	4.882	.1933	.9917	.9298	9.593	1.019
#2	.1946	4.904	.1927	.9956	.9290	9.643	1.026

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.014	4.900	.1902	.9706	.9566	.1888	.1939
SDev	.013	.001	.0004	.0122	.0037	.0003	.0001
%RSD	1.301	.0191	.2268	1.261	.3835	.1687	.0674
#1	1.024	4.901	.1899	.9619	.9540	.1885	.1940
#2	1.005	4.900	.1905	.9792	.9592	.1890	.1938

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	.3916	.1832	.1951	.9694	1.029	1.019
SDev	.012	.0000	.0008	.0006	.0018	.001	.007
%RSD	1.127	.0020	.4644	.3015	.1813	.1142	.6935
#1	1.016	.3916	.1838	.1947	.9682	1.028	1.014
#2	1.033	.3916	.1826	.1956	.9707	1.030	1.024

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	1.050	.9966	5.808	5.897
SDev	.016	.0118	.007	.006
%RSD	1.522	1.184	.1280	.1049
#1	1.061	1.005	5.813	5.892
#2	1.038	.9882	5.802	5.901

0679

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19338	--	--	--	--	--	--
SDev	74.24622	--	--	--	--	--	--
%RSD	.3839295	--	--	--	--	--	--
#1	19391	--	--	--	--	--	--
#2	19286	--	--	--	--	--	--

MS/MSD Raw Data

Method: SCICPHSB Sample Name: 427796(JWK)MS 422-11 Operator:
Run Time: 12/31/07 03:18:21
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.252	.3284	.4156	1.086	.3927	.9938	.9458
SDev	.010	.0081	.0057	.000	.0004	.0058	.0011
%RSD	.1183	2.458	1.382	.0287	.0919	.5818	.1161
#1	8.259	.3342	.4197	1.086	.3924	.9897	.9450
#2	8.245	.3227	.4116	1.086	.3930	.9979	.9465

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1931	10.07	.2111	.9939	.9912	18.91	1.251
SDev	.0002	.00	.0001	.0015	.0009	.03	.002
%RSD	.1264	.0359	.0604	.1559	.0913	.1701	.1380
#1	.1929	10.07	.2112	.9928	.9919	18.89	1.250
#2	.1933	10.07	.2110	.9950	.9906	18.93	1.252

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9639	5.812	1.915	.9786	.9682	.1905	.2172
SDev	.0046	.018	.001	.0011	.0034	.0002	.0000
%RSD	.4818	.3033	.0778	.1085	.3566	.0991	.0093
#1	.9606	5.800	1.914	.9794	.9658	.1906	.2173
#2	.9671	5.825	1.916	.9779	.9707	.1904	.2172

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	.4037	.3691	.2230	1.122	1.255	1.249
SDev	.002	.0036	.0007	.0000	.001	.001	.003
%RSD	.1834	.8791	.1777	.0110	.0986	.0657	.2314
#1	1.027	.4063	.3687	.2230	1.123	1.256	1.247
#2	1.024	.4012	.3696	.2230	1.121	1.255	1.251

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	.9928	.9494	5.841	9.063
SDev	.0159	.0010	.001	.012
%RSD	1.603	.1043	.0192	.1370
#1	.9815	.9501	5.841	9.072
#2	1.004	.9487	5.842	9.054

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	18882	--	--	--	--	--	--
SDev	15.55635	--	--	--	--	--	--
%RSD	.0823872	--	--	--	--	--	--
#1	18893	--	--	--	--	--	--
#2	18871	--	--	--	--	--	--

Method: SCICPHSB Sample Name: 427797(JWK)MSD422-11 Operator:
Run Time: 12/31/07 03:22:53
Comment: 19374T
Mode: CONC Corr. Factor: 1

Elem	Al	Sb2068	As1890	Ba	Be	Bi2230	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.985	.3172	.4219	1.062	.3919	.9829	.9524
SDev	.007	.0029	.0099	.000	.0005	.0072	.0003
%RSD	.0893	.9017	2.342	.0113	.1187	.7286	.0340
#1	7.980	.3192	.4149	1.062	.3916	.9879	.9521
#2	7.990	.3152	.4289	1.062	.3923	.9778	.9526

Elem	Cd	Ca	Cr2677	Co	Cu	Fe	Pb
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1934	9.448	.2110	.9925	.9796	18.98	1.287
SDev	.0008	.021	.0009	.0032	.0008	.06	.001
%RSD	.4252	.2173	.4214	.3186	.0833	.3118	.0948
#1	.1928	9.434	.2116	.9903	.9802	18.94	1.286
#2	.1940	9.463	.2103	.9948	.9791	19.02	1.288

Elem	Se	Mg	Mn2576	Mo	Ni	Ag	Sr4215
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9820	5.809	1.472	.9707	.9668	.1902	.2114
SDev	.0022	.016	.002	.0010	.0001	.0005	.0006
%RSD	.2246	.2830	.1465	.0995	.0092	.2633	.2717
#1	.9804	5.797	1.470	.9700	.9669	.1899	.2118
#2	.9835	5.820	1.473	.9714	.9668	.1906	.2110

Elem	Tl1908	Sn1899	Ti	V_2924	Zn	2203/1	2203/2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.025	.3989	.3595	.2237	1.123	1.295	1.283
SDev	.010	.0011	.0004	.0006	.001	.002	.001
%RSD	1.013	.2824	.0993	.2539	.0996	.1762	.0581
#1	1.033	.3997	.3592	.2241	1.122	1.293	1.283
#2	1.018	.3981	.3597	.2233	1.123	1.297	1.284

Elem	1960/1	1960/2	Na	K
Units	ppm	ppm	ppm	ppm
Avge	1.010	.9680	5.843	8.906
SDev	.004	.0055	.012	.015
%RSD	.4382	.5645	.2074	.1642
#1	1.013	.9642	5.852	8.917
#2	1.007	.9719	5.834	8.896

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	19182	--	--	--	--	--	--
SDev	19.09188	--	--	--	--	--	--
%RSD	.0995328	--	--	--	--	--	--
#1	19195	--	--	--	--	--	--
#2	19168	--	--	--	--	--	--

Total Metals by 6010B Digestion Logbook

HOT PLATE DIGESTION

EPA Method:3050B LIMS ID Number: 3050/6010 ALSI SOP: 09-3050B	Hot Plate ID Number: LINDBERG/BLUE Thermometer Number: MD1002 Starting Temperature: 99°C Finishing Temperature: 91°C Batch Number: 17126	Starting Date: 12.27.07 Time: 8:43 Tech: MNP Finishing Date: 12.27.07 Time: 13:01 Tech: MNP

Line#	Sample #	Spike Amount	Spike Lot #	Sample Amount (g)	Final Volume	Comments	Pipette ID #
1.)	427706			1.00	100mL	MB	
2.)	427707	1ML/1ML/1ML	MA1070/MB5086/MB5093	1.00	100mL	LCS	03-040
3.)	9716037001-A			10.00	100mL		
4.)	9716037002-A			10.02	100mL		
5.)	427708 (037-2)	1ML/1ML/1ML	MA1070/MB5086/MB5093	10.04	100mL	MS	03-040
6.)	427709 (037-2)	1ML/1ML/1ML	MA1070/MB5086/MB5093	10.03	100mL	MSD	03-040
7.)	9716879001-A			1.95	100mL		
8.)	9716880001-A			1.21	100mL		
9.)	9716113001-A			10.00	100mL		
10.)	9716881001-A			1.07	100mL		
11.)	9716881002-A			1.01	100mL		
12.)	9716881003-A			1.05	100mL		
13.)	9716376001-A			10.02	100mL		
14.)	9716422001-A			1.37	100mL		
15.)	9716422002-A			1.41	100mL		
16.)	9716422003-A			1.06	100mL		
17.)	9716422004-A			1.80	100mL		
18.)	9716422005-A			1.38	100mL		
19.)	9716422006-A			1.30	100mL		
20.)	9716422007-A			1.30	100mL		
21.)	9716422008-A			1.88	100mL		
22.)	9716422009-A			1.97	100mL		
23.)	9716422010-A			1.12	100mL		
24.)							
25.)							
26.)							

Comments:

1.) 1:1 HNO3 MR1438

2.) Reagent:Conc. E26035 JT BAKER

3.) 30% H2O2 E39466

4.) Reagent:Conc. HCl E27A11/E25A23 MALLINCKRODT

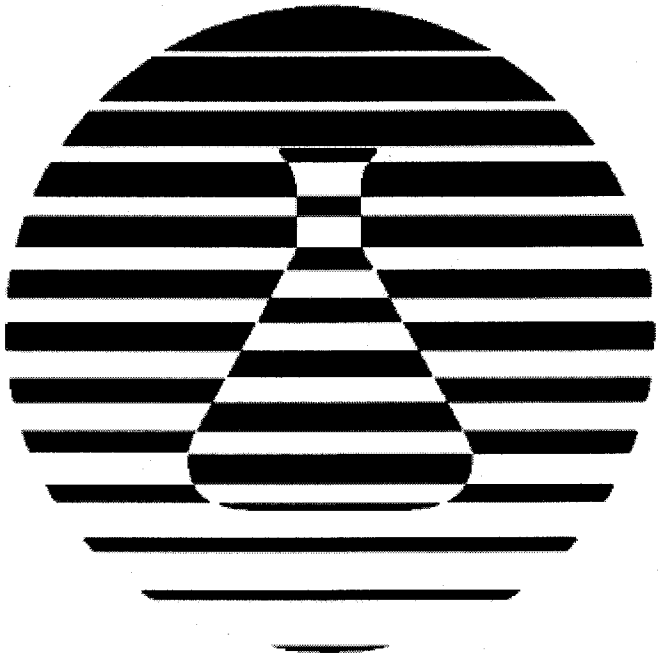
5.) Teflon Boiling Stones: BATCH# 3626-6I069 CHEMWARE ITEM # 0919120

Reviewed/Approved By: CMD

Date Reviewed: 12.27.07

Revison 08/06

0687



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HOT PLATE DIGESTION

EPA Method:3050B LIMS ID Number: 3050/6010 ALSI SOP: 09-3050B	Hot Plate ID Number: LINDBERG/BLUE Thermometer Number: MD1002 Starting Temperature: 92ºC Finishing Temperature: 90ºC 17133	Starting Date: 12.28.07 Time: 7:45 Tech: MNP Finishing Date: 12.28.07 Time: 11:37 Tech: MNP

Line#	Sample #	Spike Amount	Spike Lot #	Sample Amount (g)	Final Volume	Comments	Pipette ID #
1.)	427794			1.00	100mL	MB	
2.)	427795	1ML/1ML/1ML	MA1070/MB5086/MB5093	1.00	100mL	LCS	03-040
3.)	9716422011-B			1.07	100mL		
4.)	427796 (422-11)	1ML/1ML/1ML	MA1070/MB5086/MB5093	1.09	100mL	MS	03-040
5.)	427797 (422-11)	1ML/1ML/1ML	MA1070/MB5086/MB5093	1.07	100mL	MSD	03-040
6.)	9716422012-A			1.70	100mL		
7.)	9716422013-A			1.12	100mL		
8.)	9716503001-B			5.00	100mL		
9.)	9716520001-B			10.00	100mL		
10.)	9716495001-A			1.61	100mL		
11.)	9716495002-A			1.20	100mL		
12.)	9716495003-A			1.14	100mL		
13.)	9716495004-A			1.08	100mL		
14.)	9716495005-A			1.60	100mL		
15.)	9716495006-A			1.17	100mL		
16.)	9716495007-A			1.31	100mL		
17.)	9716495008-A			1.36	100mL		
18.)	9716495009-A			1.76	100mL		
19.)	9716495010-A			1.29	100mL		
20.)	9716495011-A			1.73	100mL		
21.)	9716567002-A			5.03	100mL		
22.)	9716568002-A			5.00	100mL		
23.)	9716569002-A			10.04	100mL		
24.)							
25.)							
26.)							

Comments:

1.) 1:1 HNO3 MR1438

2.) Reagent:Conc. E26035 JT BAKER

3.) 30% H2O2 E39466

4.) Reagent:Conc. HCl E25A23 MALLINCKRODT

5.) Teflon Boiling Stones: BATCH# 3626-6I069 CHEMWARE ITEM # 0919120

Reviewed/Approved By: CMD

Date Reviewed: 12.28.07

Revison 08/06

6890

Total Metals by 6010B Analytical Logbook

0690

Trace ICP

Analytical Worksheet

(SOIL) Acid Matrix: 5% HNO3 + 10% HCl

Instrument Method: SCICPHSB (3050/6010E
Sequence #: 122807
Date Started: 12/28/07
Analyst: SRT/JWK

*High Std: 5 ml each of MA1068 + MA1069 into 100 ml
*Mid Std: 4 ml High Std into 20 ml ICS: MB5089
*Low Std: 2 ml High Std into 20 ml RPL: 0.1 ml MB5069 into 20 ml
*CCV/IPC: 10 ml of High Std into 20 ml
*Second Source: 1.0 ml of MA1073 +
0.1 ml each of MA1066 + MA1075 + MA1038 into 100 ml
*Additional Second Source: 0.1 ml of + 10 ml of HNO3 into
*Cal Blank: 1000 ml HNO3 Lot #: HCl Lot# C47A01

ll Standard are prepared daily prior to analysis
samples in acid matrix listed.
ost digestion spikes: 6mL sample, 0.250mL 1:1 m
of calibration std. A and calibration std. B

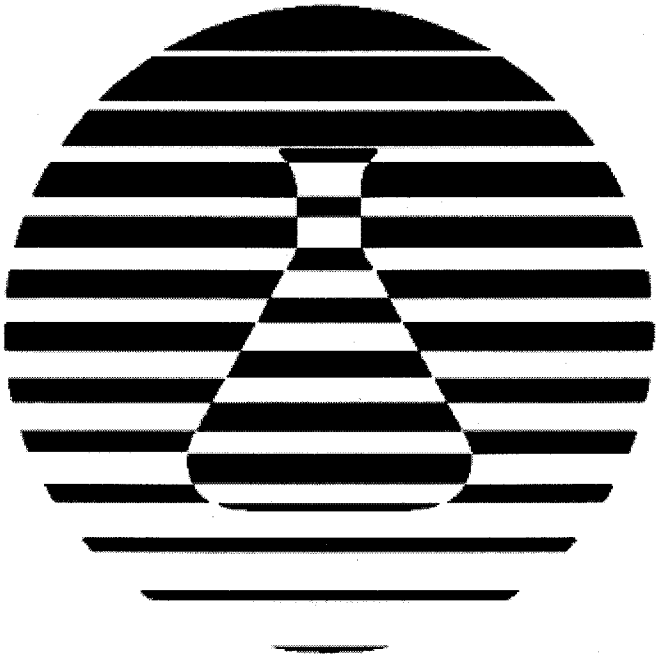
	ICAL1		/		CCB
	ICAL2		CCV		ICS
	ICAL3		CCB	71	/
	ICAL4		/	72	/
	ICV	31	9715853005 PS	73	/
	CRDL	32	9715853007 RR	74	/
	HIGHSTD	33	9716024001 (5)	75	/
	ICS	34	9715165002	76	/
	CCV	35	9715183001	77	/
	CCV	36	9715202001	78	/
	ICB	37	9715253001	79	/
	/	38	9715281001	80	/
	/	39	9715291001		/
	/	40	9715368001		/
	/		/		/
	/		CCV		/
	/		CCB	81	/
	/		/	82	/
	/	41	9715468001	83	/
	/	42	9715580001	84	/
1	426885 MB	43	9715713001	85	/
2	426886 LCS	44	9715726001	86	/
3	9716712001	45	9715202001 (20)	87	/
4	9716712002	46	9716713004 (2)	88	/
5	9716712003	47	9716715001 (5)	89	/
6	9716713004	48	9716716001 (2)	90	/
7	9716713005	49	9715580001 PS		/
8	9713713006	50	9715202001 (50)		/
9	9716714003		/		/
10	9716715001		CCV		/
	/		CCB	91	/
	CCV		ICS	92	/
	CCB	51	427706-a MB	93	/
	/	52	427707-a LCS	94	/
11	9716716001	53	9716879001-a1	95	/
12	9715853001	54	9716880001-a1	96	/
13	9715853002	55	9716881001-a2	97	/
14	426887 MS (853-2)	56	9716881002-a2	98	/
15	426888 MSD (853-2)	57	9716881003-a2	99	/
16	9715853003	58	9716037001-a2	100	/
17	9715853004	59	9716037002-a2		/
18	9715853005	60	427708-a MS (037-2)		/
19	9715853006		/		/
20	9715853007		CCV		/
	/		CCB	101	/
	CCV		/	102	/
	CCB	61	427709-a MSD (037-2)	103	/
	/	62	9716880001-a1 1/2	104	/
21	9715853008	63	9716037001-a2 PS	105	/
22	9715853009	64	/	106	/
23	9715929001	65	/	107	/
24	9716024001	66	/	108	/
25	9716712003 PS	67	/	109	/
26	9716713004 PS	68	/	110	/
27	9713713006 PS	69	/		/
28	9716715001 (2)	70	/		/
29	9716715001 PS		/		/
30	9716716001 PS		CCV		/

PIPETTE ID#S
Pipette ID # 03-041
Pipette ID # 03-029
Pipette ID # 03-027

Hg Profile: 309
Peak Intensity: 319.924
Optimization AVG.: 28060

0691

Rev. 1/06



DIVIDER PAGE

0692

Trace ICP

Analytical Worksheet

(SOIL) Acid Matrix: 5% HNO3 + 10% HCl

Instrument Method: SCICPHSB (3050/6010
Sequence #: 123107
Date Started: 12/31/07
Analyst: SRT/JWK

*High Std: 5 ml each of MA1068 + MA1069 into 100 ml
*Mid Std: 4 ml High Std into 20 ml ICS: MB5089
*Low Std: 2 ml High Std into 20 ml RPL: 0.1 ml MB5069 into 20 ml
*CCV/IPC: 10 ml of High Std into 20 ml
*Second Source: 1.0 ml of MA1073 +
0.1 ml each of MA1066 + MA1075 + MA1038 into 100 ml
*Additional Second Source: 0.1 ml of + 10 ml of HNO3 into
*Cal Blank: 1000 ml HNO3 Lot #: HCl Lot# C47A01

ll Standard are prepared daily prior to analysis
samples in acid matrix listed.
ost digestion spikes: 6mL sample, 0.250mL 1:1 m
of calibration std. A and calibration std. B

	ICAL1		/		/
	ICAL2		CCV		/
	ICAL3		CCB	71	/
	ICAL4		/	72	/
	ICV	31	9716495008	73	/
	CRDL	32	9716495009	74	/
	HIGH STD	33	9716495010	75	/
	ICS	34	9716495011	76	/
	CCV	35	9716567002	77	/
	ICB	36	9716568002	78	/
/	/	37	9716569002	79	/
/	/	38	9716024001 (5)	80	/
/	/	39	9716503001 RR		/
/	/	40	9716113001 RR		/
/	/		/		/
/	/		CCV		/
/	/		CCB	81	/
/	/		ICS	82	/
/	/	41	/	83	/
/	/	42	/	84	/
1	9716113001	43	/	85	/
2	9716376001	44	/	86	/
3	9716422001	45	/	87	/
4	9716422002	46	/	88	/
5	9716422003	47	/	89	/
6	9716422004	48	/	90	/
7	9716422005	49	/		/
8	9716422006	50	/		/
9	9716422007		/		/
10	9716422008		/		/
	/		/	91	/
	CCV		/	92	/
	CCB	51	/	93	/
	/	52	/	94	/
11	9716422009	53	/	95	/
12	9716422010	54	/	96	/
13	427794 MB	55	/	97	/
14	427795 LCS	56	/	98	/
15	9715929001	57	/	99	/
16	9716024001	58	/	100	/
17	9716422011	59	/		/
18	427796 MS (422-11)	60	/		/
19	427797 MSD (422-11)		/		/
20	9716422012		/		/
	/		/	101	/
	CCV		/	102	/
	CCB	61	/	103	/
	/	62	/	104	/
21	9716422013	63	/	105	/
22	9716503001	64	/	106	/
23	9716520001	65	/	107	/
24	9716495001	66	/	108	/
25	9716495002	67	/	109	/
26	9716495003	68	/	110	/
27	9716495004	69	/		/
28	9716495005	70	/		/
29	9716495006		/		/
30	9716495007		/		/

PIPETTE ID#S
Pipette ID # 03-041
Pipette ID # 03-029
Pipette ID # 03-027

Hg Profile: 363
Peak Intensity: 353.987
Optimization AVG.: 27380

0693

Rev. 1/06

Total Mercury by 7471B Summary Forms

Sample Description
FITG1SSC11

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: 7471B
SDG No.: UUL-001

Matrix (soil/water): SOIL
Units: mg/Kg
% moisture: N/A
Date Analyzed: 1/8/2008

Lab Sample ID: 9716422011 (427796/427797)
Lab File ID: 010808S
Instrument ID: CETAC HG ANALYZER
GC Column: N/A

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Merucry	0.00500	0	0.00418	84		80-120

Analyte	Spike Added	MSD Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Mercury	0.00500	0.00434	87		80-120	3.7		20

(1) The following qualifiers are used:
* : Values outside of acceptable limits
D : Spikes diluted out

Comments: These results are not prep factor corrected.

Form 4B
Inorganic Blank Summary

Analysis Method: 7471B SDG No.: UUL-001

Prep Blank A Matrix (soil/water): SOIL Units: mg/Kg
Prep Blank B Matrix (soil/water): Units:

Analyte	Initial Calibration Blank (mg/L) (1)01/08/08	(2)	Continuing Calibration Blanks (mg/L) (1)01/08/08	(2)	(1)01/08/08	(2)	(1)	(2)	Preparation Blank A ID:429573-MB (1)01/01/08	(2)	Preparation Blank B ID: (1)	(2)
MERCURY	0.001	U	0.001	U	0.001	U			0.20	U		

(1) Analysis Date:01/08/08
(2) The following qualifiers are used: U: The analyte concentration is less than the reporting limit listed

0690

Form 6B
Inorganic Initial and Continuing Calibration Summary

Analysis Method: 7471B

SDG No.: UUL-001

Instrument ID: CETAC HG ANALYZER
Concentration Units: mg/L

Analyte	Initial Calibration					Continuing Calibration							
	True Conc.	Conc. Recovered (1)01/08/08	Recovery (%)	(2)	Acc. Limit (%)	True Conc.	Conc. Recovered (1)01/08/08	Recovery (%)	(2)	Conc. Recovered (1)01/08/08	Recovery (%)	(2)	Acc. Limit (%)
MERCURY	0.00400	0.00440	110		90-110	0.00400	0.00429	107		0.00440	110		90-110

(1) Analysis Date: 01/08/08
(2) The following qualifiers are used: * : Values outside of acceptable limits

Comments:

0697

Form 8B
Laboratory Control Sample (LCS) Recovery Summary

Analysis Method:	7471B	SDG No.:	UUL-001
Matrix (soil/water):	SOIL	Lab Sample ID:	429574-LCS
Units:	mg/Kg	Lab File ID:	010808S
Date Analyzed:	1/8/2008	Instrument ID:	CETAC HG ANALYZER
		GC Column:	N/A

Analyte	Concentration Added	Concentration Recovered	LCS Recovery (%)	(1)	Acceptable Limits (%)
MERCURY	0.00200	0.00206	103		85-115

(1) The following qualifiers are used: * : Values outside of acceptable limits

Comments: Results are not prep factor corrected.

0698

Total Mercury by 7471B
Raw Data

CETAC Hg Analysis Report

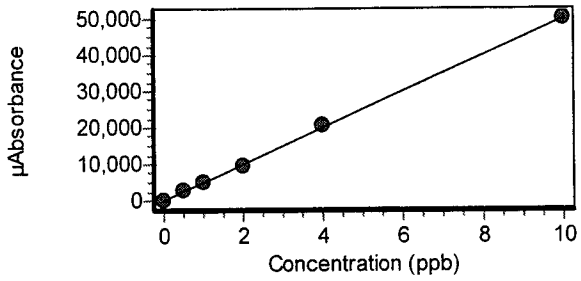
Analyst: nhufford
Worksheet file: C:\Program Files\QuickTrace\Worksheets\JANUARY 2008\010808S.wsz
Date Started: 4/19/2006 6:53:10 PM
Comment:

Results

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
Calibration Blank				STD	01/08/08 08:07:28 am	0.000	13	146.66	
Replicates	33.3	12.2	-5.7						
Standard #1				STD	01/08/08 08:11:04 am	0.500	2617	0.09	
Replicates	2615.4	2616.4	2619.9						
Standard #2				STD	01/08/08 08:15:40 am	1.000	3633	2.45	
Replicates	3534.7	3654.8	3708.2						
Standard #3				STD	01/08/08 08:19:16 am	2.000	9293	1.00	
Replicates	9189.3	9321.3	9369.5						
Standard #4				STD	01/08/08 08:22:54 am	4.000	20300	0.66	
Replicates	20446.0	20185.1	20269.4						
Standard #5				STD	01/08/08 08:26:31 am	10.000	49911	0.22	
Replicates	49794.2	49927.0	50010.5						

Calibration

Equation: A = -33.390 + 4997.116C
R2: 0.99965
SEE: 391.6143
Flags: C



Replacement: Standard #2				STD	01/08/08 08:30:33 am	1.000	5115	0.02	
Replicates	5114.7	5115.7	5113.4						
ICV				ICV	01/08/08 08:36:48 am	4.404	21972	0.21	
Replicates	22016.3	21975.6	21923.8						
% Recovery	110.09						110.26		

0070

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ICB				ICB	01/08/08 08:40:27 am	0.005	-6	56.38	
Replicates	-4.2	-4.3	-10.5						
1MB*429573*				UNK	01/08/08 08:44:03 am	0.016	48	29.57	
Replicates	34.2	62.2	46.1						
2LCS*429574*				UNK	01/08/08 08:47:39 am	2.057	10245	0.17	
Replicates	10260.0	10226.3	10248.9						
3MB*429579*				UNK	01/08/08 08:51:16 am	0.007	2	844.46	
Replicates	6.2	-20.2	21.4						
4LCS*429580*				UNK	01/08/08 08:54:53 am	2.483	12374	0.35	
Replicates	12324.1	12393.6	12405.4						
5*9716422001*T*				UNK	01/08/08 08:58:30 am	0.213	1033	2.58	
Replicates	1061.3	1028.1	1008.5						
6*9716422002*T*				UNK	01/08/08 09:02:06 am	0.198	955	1.48	
Replicates	941.3	955.7	969.5						
7*9716422003*T*				UNK	01/08/08 09:05:43 am	0.254	1238	3.22	
Replicates	1199.7	1234.6	1279.2						
8*9716422004*T*				UNK	01/08/08 09:09:20 am	0.209	1011	1.18	
Replicates	997.5	1014.1	1020.6						
9*9716422005*T*				UNK	01/08/08 09:12:58 am	0.173	833	3.25	
Replicates	815.5	819.2	864.1						
10*9716422006*T*				UNK	01/08/08 09:16:35 am	0.329	1612	0.39	
Replicates	1614.7	1605.2	1617.3						
CCV				CCV	01/08/08 09:23:42 am	4.291	21409	0.21	
Replicates	21370.1	21396.2	21459.4						
% Recovery	107.27								

Data not used, LCS run 2nd time to confirm Spike Concentration. CMD 1/8/08.

.54g → 100 mL TS = 20.9%

~~.6g → 100 mL TS~~ 1/21/08

.61g → 100 mL TS: 70.2%

0701

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
CCB				CCB	01/08/08 09:27:17 am	0.014	38	57.77	
Replicates	48.7	52.5	12.7						
11*9716422007*T*				UNK	01/08/08 09:30:54 am	0.232	1127	0.94	
Replicates	1127.5	1116.6	1137.9						
12*9716422008*T*				UNK	01/08/08 09:34:31 am	0.208	1008	1.56	
Replicates	991.1	1010.7	1022.2						
13*9716422009*T*				UNK	01/08/08 09:38:08 am	0.237	1150	0.72	
Replicates	1148.0	1142.3	1158.6						
14*9716422010*T*				UNK	01/08/08 09:41:46 am	0.391	1920	1.58	
Replicates	1910.2	1895.7	1953.9						
15*9716422011*T*				UNK	01/08/08 09:45:24 am	0.439	2159	0.57	
Replicates	2160.5	2145.5	2169.8						
16MS*429575*T*				UNK	01/08/08 09:49:01 am	4.178	20843	0.69	
Replicates	20690.4	20860.8	20977.6			4.178/5 = 84%			% RSD = 3.7%
17MSD*429576*T*				UNK	01/08/08 09:52:38 am	4.336	21636	0.20	
Replicates	21587.1	21664.6	21654.9			4.336/5 = 87%			
18*9716422012*T*				UNK	01/08/08 09:56:16 am	0.294	1438	1.51	
Replicates	1424.2	1425.9	1462.5						
19*9716422013*T*				UNK	01/08/08 09:59:54 am	0.436	2145	0.79	
Replicates	2125.3	2152.2	2156.9						
20*9717904001*T*				UNK	01/08/08 10:03:32 am	0.046	196	8.86	
Replicates	185.3	186.5	216.0						
CCV				CCV	01/08/08 10:07:11 am	4.404	21976	0.34	
Replicates	21892.0	22002.2	22033.9						
% Recovery	110.11								

0702

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
CCB				CCB	01/08/08 10:10:47 am	0.008	8	65.12	
Replicates	2.0	11.3	10.8						
21MS*429964*T*				UNK	01/08/08 10:14:24 am	4.364	21775	0.29	
Replicates	21702.7	21809.5	21814.0						
4.364/5 = 87.3%									
% RSD = 3.3%									
22MSD*429965*T*				UNK	01/08/08 10:18:02 am	4.223	21070	0.53	
Replicates	20950.7	21087.9	21170.3						
4.223/5 = 84.5%									
23*9717780001*T*				UNK	01/08/08 10:21:40 am	0.726	3593	0.58	
Replicates	3595.2	3612.9	3571.5						
24*9716675001*T*				UNK	01/08/08 10:25:18 am	0.015	43	41.17	
Replicates	31.3	63.3	34.3						
25RR LCS*429580*				UNK	01/08/08 10:30:42 am	2.244	11183	0.17	
Replicates	11176.2	11204.1	11168.3						
26*9716675002*T*				UNK	01/08/08 10:34:20 am	2.134	10630	0.50	
Replicates	10683.1	10577.5	10628.0						
27*9716675003*T*				UNK	01/08/08 10:37:58 am	0.019	59	24.45	
Replicates	62.3	71.6	43.3						
28MS*429577*T*				UNK	01/08/08 10:41:36 am	3.593	17921	1.47	
Replicates	17621.3	18113.6	18027.2						
3.593/5 = 72%									
% RSD = 16.8									
29MSD*429578*T*				UNK	01/08/08 10:45:15 am	4.250	21205	0.18	
Replicates	21229.3	21225.0	21161.1						
4.250/5 = 85%									
30*9717906001*T*				UNK	01/08/08 10:48:54 am	1.004	4986	7.34	
Replicates	4662.8	4912.0	5383.6						
CCV				CCV	01/08/08 10:52:33 am	4.348	21694	0.28	
Replicates	21685.9	21758.4	21637.0						
% Recovery	108.70								

0703

Total Mercury Digestion Logbook

0704

MERCURY SAMPLE PREPARATION

Method:	7471	Autoclave ID#:	1		13:25
WLSI SOP:	09-PDS-Hg	Initial Temp. Of Bath:	N/A	Time:	N/A
Date:	1.07.08	Final Temp. Of Bath:	N/A	Time:	N/A
Time:	10:40	Thermometer ID#:	N/A		
Technician:	CMD	Batch #:	17198		

Line#	Sample #	Sample Amount as noted	Additional KMnO4 (mL)	Final Volume X=100 mL	Spike Amount (mL)	Spiking Std Used	Prep Type	Pipette ID #
1	429573	0.50g		X				
2	429574	0.50g		X	0.200mL	MR1435		03-034
3	9716422001-A	0.54g		X				
4	9716422002-A	0.57g		X				
5	9716422003-A	0.61g		X				
6	9716422004-A	0.52g		X				
7	9716422005-A	0.52g		X				
8	9716422006-A	0.54g		X				
9	9716422007-A	0.60g		X				
10	9716422008-A	0.52g		X				
11	9716422009-A	0.56g		X				
12	9716422010-A	0.51g		X				
13	9716422011-B	0.52g		X				
14	429575 (422-11)	0.52g		X	0.500mL	MR1435		03-105
15	429576 (422-11)	0.53g		X	0.500mL	MR1435		03-105
16	9716422012-A	0.50g		X				
17	9716422013-A	0.60g		X				
18	9717078002-A	0.52g		X				
19	9716675001-B	0.56g		X				
20	9716675002-B	0.59g		X				
21	9716675003-B	0.54g		X				
22	429577 (675-3)	0.54g		X	0.500mL	MR1435		03-105
23	429578 (675-3)	0.54g		X	0.500mL	MR1435		03-105
24	9717078003-A	0.58g		X				
25	9717078004-A	0.56g		X				
26	9717287001-A	0.58g		X				
27								
28								

Reagents and working standards	Calibration and check standards
Working Std: 2.5 mL of MR1435 into 100 mL	*S0(ICB,CCB):# of S0's made: 3 Pipette ID# 03-105;
Working QC: 2.5 mL of MR1436 into 100 mL	*S0.5: 0.500 mL of Working Std into 25 mL 03-117
5% $KMnO_4$: MR1439 Pipette ID# 03-117	*S1.0: 1.0 mL of Working Std into 25 mL
5% $K_2S_2O_8$: N/A	*S2.0: 2.0 mL of Working Std into 25 mL
c. H_2SO_4: E40026 JT BAKER	*S4.0: 4.0 mL of Working Std into 25 mL
c. HNO_3: E22071 JT BAKER	*S10.: 10.0 mL of Working Std into 25 mL
PTFE Chips: Batch # 3626-6I069	*ICV: 4.0 mL of Working QC into 25 mL
	*CCV: 4.0 mL of Working Std into 25 mL
	# of CCV's made 3

*All standards are prepared daily prior to analysis of samples in the same matrix as the samples to be analyzed

Reviewed/Approved by: MNP date: 01.08.08

Revision 10/06

Total Mercury by 7471B Analytical Logbook

0706

CETAC HG WORKSHEET

File: 010808S
Matrix: SOILS
Analyst: CMD
Date: 01.08.08

$SnCl_2$ solution: 50g $SnCl_2$ in 500 mL of 1.4% H_2SO_4
NH_2OH / HCl log#:MR1441 Pipette ID # 03-117
Post Spike: 50 µL of MR1435 into 10 mL of sample

	Sample		Sample
1	MB 429573-A	31	9717906002-A
2	LCS 429574-A	32	9717906003-A
3	MB 429579-A	33	9717287001-A6
4	LCS 429580-A	34	9717895002-D
5	9716422001-A2	35	9717895006-D
6	9716422002-A2	36	9717895007-D
7	9716422003-A2	37	9717078002-A9
8	9716422004-A2	38	9717078003-A8
9	9716422005-A2	39	9717078004-A8
10	9716422006-A2	40	9717078005-A8
11	9716422007-A2	41	9717078006-A8
12	9716422008-A2	42	9717078007-A10
13	9716422009-A2	43	9717103001-A3
14	9716422010-A2	44	MS 429581-A
15	9716422011-A2	45	MSD 429582-A
16	MS 429575-A	46	9717168001-A2
17	MSD 429576-A	47	9717171001-A1
18	9716422012-A2	48	9717665003-A1
19	9716422013-A2	49	9717665004-A1
20	9717904001-A	50	9717663001-A2
21	MS 429964	51	9717666001-A1
22	MSD 429965	52	PS 9717103001-A3
23	9717780001-A	53	NS 9716675002
24	9716675001-B4	54	NS 9717906001
25	RR 429580-A	55	NS 9717906002
26	9716675002-B6	56	NS 9717895006
27	9716675003-B5	57	NS 9717895007
28	MS 429577-A	58	NS 9717665003
29	MSD 429578-A	59	
30	9717906001-A	60	

Revision 06/06

0707

Total Solids by 2540G Raw Data

Total Solids

Batch: 48407 **Queue:** WETC **Analyst:** MBR

File Name: 48407_071220-221523 **Date/Time:** 12/20/07 23:55

Misc:													
						1st Time In	23:55	2nd Time In	10:00	3rd Time In		4th Time In	
						1st Temp In °C	104	2nd Temp In °C	104	3rd Temp In °C		4th Temp In °C	
						1st Time Out	9:05	2nd Time Out	11:52	3rd Time Out		4th Time Out	
						1st Temp Out °C	104	2nd Temp Out °C	104	3rd Temp Out °C		4th Temp Out °C	

Sample ID	Cont ID	Samp Type	TVS	Weight of dish and sample (g) or Volume of sample (ml)	Dish Wt. (g)	1st Dish + Sample Wt (g)	2nd Dish + Sample Wt (g)	3rd Dish + Sample Wt (g)	4th Dish + Sample Wt (g)	TS (%) or (mg/l)	Result1 TARE (g)	Result2 IWT (g)	Result3 FWT (g)
426674	A	DUP		16.5733	1.1388	14.3603	14.3553		RPD=0.9%	85.6296	1.1388	16.5733	14.3553
9716356001	A	S		17.0504	1.1192	14.8915	14.8870			86.4204	1.1192	17.0504	14.8870
9716386001	B	S		20.9696	1.1335	17.4625	17.4551			82.2823	1.1335	20.9696	17.4551
9716386002	B	S		21.8544	1.1457	18.0583	18.0518			81.6377	1.1457	21.8544	18.0518
9716 6070	B	S		21.6161	1.1097	17.8257	17.8195			81.4858	1.1097	21.6161	17.8195
9716386004	B	S		20.5917	1.1190	17.1822	17.1764			82.4611	1.1190	20.5917	17.1764
9716386005	B	S		22.0476	1.1409	17.4994	17.4935			78.2170	1.1409	22.0476	17.4935
9716422006	A	S		11.8287	1.1428	6.2347	6.2274			47.5823	1.1428	11.8287	6.2274
9716378003	A	S		22.7896	1.1338	1.6426	1.6583			2.4220	1.1338	22.7896	1.6583
9716422005	A	S		11.2880	1.1262	5.2659	5.2438			40.5204	1.1262	11.2880	5.2438
9716422004	A	S		14.6347	1.1239	10.1763	10.1721			66.9701	1.1239	14.6347	10.1721
426675	A	DUP		20.1799	1.1437	1.1895	1.1898		RPD=1.8%	0.2422	1.1437	20.1799	1.1898
9716377004	A	S		20.1573	1.1381	1.1851	1.1850			0.2466	1.1381	20.1573	1.1850
9716377005	A	S		21.4442	1.1538	1.1973	1.1976			0.2159	1.1538	21.4442	1.1976
9716422007	A	S		32.6580	1.1702	19.2840	19.2801			57.5140	1.1702	32.6580	19.2801
9716422008	A	S		18.3629	1.1499	7.4812	7.4765			36.7548	1.1499	18.3629	7.4765
9716422009	A	S		27.1433	1.1773	17.8216	17.8195			64.0923	1.1773	27.1433	17.8195
9716422003	A	S		18.3689	1.1291	13.2284	13.2251			70.1632	1.1291	18.3689	13.2251
9716376001	A	S	X	21.7698	1.1379	1.3600	1.3600			1.0765	1.1379	21.7698	1.3600
9716422002	A	S		18.4228	1.1359	12.8370	12.8334			67.6668	1.1359	18.4228	12.8334
* 9716388001	A	S		25.3069	1.1495	22.1864	22.1810			87.0603	1.1495	25.3069	22.1810
9716422001	A	S		13.1223	1.1432	3.6487	3.6421			20.8605	1.1432	13.1223	3.6421
426676	A	DUP		24.1844	1.1451	20.6285	20.6204		RPD=1.7%	84.5308	1.1451	24.1844	20.6204
* 9716388002	A	S		22.0940	1.1389	18.5583	18.5514			83.0943	1.1389	22.0940	18.5514
* 9716388003	A	S		29.9083	1.1445	25.9410	25.9334			86.1809	1.1445	29.9083	25.9334
9716422011	A	S		11.8796	1.1463	5.7341	5.7354			42.7557	1.1463	11.8796	5.7354
9716422012	A	S		18.7155	1.1727	13.8394	13.8402			72.2091	1.1727	18.7155	13.8402
9716422010	A	S		10.1384	1.1345	5.9831	5.9830			53.8489	1.1345	10.1384	5.9830

End

12/26/07

MBR 12/27/07

Total Solids

Batch: 48466 **Queue:** WETC **Analyst:** MBR

File Name: 48466_071221-220838 **Date/Time:** 12/21/07 23:55

Misc:	** Spilled. Rerun.	1st Time In	23:55	2nd Time In	11:35	3rd Time In		4th Time In	
		1st Temp In °C	104	2nd Temp In °C	104	3rd Temp In °C		4th Temp In °C	
		1st Time Out	11:00	2nd Time Out	17:05	3rd Time Out		4th Time Out	
		1st Temp Out °C	104	2nd Temp Out °C	104	3rd Temp Out °C		4th Temp Out °C	

Sample ID	Cont ID	Samp Type	TVS	Weight of dish and sample (g) or Volume of sample (ml)	Dish Wt. (g)	1st Dish + Sample Wt (g)	2nd Dish + Sample Wt (g)	3rd Dish + Sample Wt (g)	4th Dish + Sample Wt (g)	TS (%) or (mg/l)	Result1 TARE (g)	Result2 IWT (g)	Result3 FWT (g)
427087	A	DUP		10.8878	1.1383	2.5625	2.5645		RPD=0.2%	14.6284	1.1383	10.8878	2.5645
9716605001	A	S		10.5145	1.1399	2.5055	2.5084			14.5980	1.1399	10.5145	2.5084
9716558001	A	S		24.8573	1.1433	20.6748	20.6765			82.3699	1.1433	24.8573	20.6765
9716677001	A	S		23.4409	1.1470	21.9244	21.9256			93.2031	1.1470	23.4409	21.9256
9716677002	A	S		25.5224	1.1404	23.6265	23.6266			92.2246	1.1404	25.5224	23.6266
9716677003	A	S		22.4084	1.1352	19.9528	19.9568			88.4756	1.1352	22.4084	19.9568
9716677004	A	S		24.8621	1.1399	21.5582	21.5618			86.0877	1.1399	24.8621	21.5618
9716602001	A	S		14.7993	1.1436	13.2635	13.2685			88.7900	1.1436	14.7993	13.2685
9716675001	B	S		13.8300	1.1684	13.4433	13.4442			96.9530	1.1684	13.8300	13.4442
9716675002	B	S		21.7319	1.1276	20.2609	20.2603			92.8578	1.1276	21.7319	20.2603
9716675003	B	S		27.9350	1.1649	27.6397	27.6450			98.9167	1.1649	27.9350	27.6450
427088	A	DUP		11.5320	1.1175	8.6849	8.6891	CA RR	RPD=6.1%	72.7025	1.1175	11.5320	8.6891
9716678001	A	S		12.0064	1.1348	9.5266	9.5383			77.2977	1.1348	12.0064	9.5383
9716678002	A	S		16.9425	1.1319	11.8240	11.8304			67.6666	1.1319	16.9425	11.8304
9716645001	A	S		30.1773	1.1361	23.0903	23.0889			75.5919	1.1361	30.1773	23.0889
9716645002	A	S		28.2364	1.1658	25.2212	25.2208			88.8602	1.1658	28.2364	25.2208
9716567002	A	S		23.5488	1.1456	1.5779	1.5778			1.9292	1.1456	23.5488	1.5778
9716568002	A	S		23.5043	1.1319	1.6854	1.6853			2.4736	1.1319	23.5043	1.6853
9716552001	A	S		20.7570	1.1334	17.9558	17.9353			85.6209	1.1334	20.7570	17.9353
9716552002	A	S		16.3281	1.1374	12.3236	12.3248			73.6464	1.1374	16.3281	12.3248
9716552003	A	S		20.8345	1.1577	17.4212	17.4245			82.6699	1.1577	20.8345	17.4245
9716552004	A	S		16.0717	1.1375	12.5913	12.5936			76.7105	1.1375	16.0717	12.5936
427089	A	DUP		10.3737	1.1203	8.8562	8.8576		RPD=2.3%	83.6158	1.1203	10.3737	8.8576
9716552005	A	S		12.8045	1.1212	11.1188	11.1210			85.5905	1.1212	12.8045	11.1210
9716552006	A	S		19.4666	1.1260	15.1742	15.1763			76.6076	1.1260	19.4666	15.1763
9716552007	A	S		20.4332	1.1448	16.4525	16.4511			79.3549	1.1448	20.4332	16.4511
9716589001	A	S		22.9919	1.1047	1.8241	1.8245			3.2887	1.1047	22.9919	1.8245
9716590001	A	S		23.9516	1.1518	1.6013	1.5937			1.9382	1.1518	23.9516	1.5937
9716422013	A	S		8.8702	1.1254	3.7011	3.6970			33.2042	1.1254	8.8702	3.6970
9716676001	B	S	**	13.3109	1.1456	2.0000	2.0000			7.0233	1.1456	13.3109	2.0000

End

OTZO

MBR 12/27/07

Appendix C

Data Validation Summary Reports

DATA VALIDATION REPORT - Level III Review

SDG No.:	**UUL-001**	**Fraction:**	**Explosives, Lead, and Mercury**
Laboratory:	**Analytical Laboratory Services**	**Project:**	**MMRP SI Ft. Indiantown Gap**
Reviewer:	**Gina McGettigan**	**Date:**	**February 1, 2008**

This report presents the findings of a review of the referenced data. The report consists of this summary, a listing of the samples included in the review, copies of data reports with data qualifying flags applied, data review worksheets, supporting documentation, and an explanation of the data qualifying flags employed. The review performed is based on the project Quality Assurance Project Plan and the Department of Defense Quality Systems Manual Version 3; and, qualified according to the protocols defined in either the *National Functional Guidelines for Organic Data Review* (January 2005) or the *National Functional Guidelines for Inorganic Data Review* (October 2004) updated for Region III Modifications (April 1993).

Major Anomalies: None.

Minor Anomalies: For the explosives analysis, sample FITG1SSC08 displayed a surrogate recovery less than the lower control limit of 50% for 3-nitrochlorobenzene at 43% during the confirmation analysis. The associated field sample results were non-detect and were flagged UL,s. The matrix spike pair performed on parent sample FITG1SSC11 displayed the following percent recoveries outside of the control limits:

Compound	Matrix Spike (%)	Matrix Spike Duplicate (%)
2,6-Dinitrotoluene	**122.93**	102.32
2-amino-4,6-Dinitrotoluene	88.59	**78.55**
3-Nitrotoluene	**61.49**	**70.07**
4-amino-2,6-Dinitrotoluene	**77.42**	**64.33**

The associated non-detect parent sample results for 2-amino-4,6-dinitrotoluene, 3-nitrotoluene, and 4-amino-2,6-dinitrotoluene were flagged UL,m. Since the associated parent sample result for 2,6-dinitrotoluene was non-detect while the matrix spike displayed a positive bias, no data qualifying action was necessary.

For the lead analysis, several sample results exceeded the linear range of the instrument. These results were flagged J,q.

Correctable Anomalies: None.

Comments: The laboratory monitored two wavelengths (i.e., 235 nm and 265 nm) on each analytical column. For purposes of this review, only the mononitrotoluenes and the surrogate were reviewed from the 265 nm wavelength. All other target compounds were reviewed using the 235 nm wavelength. According to Evan Jenkins of Analytical Laboratory Services, Inc., a dissimilar secondary column was used for confirmation purposes. A serial dilution

and ICSA were not performed by the laboratory and could not be assessed by the data reviewer. On the basis of this evaluation, the laboratory appears to have followed the specified analytical method. All data are usable, as qualified, for their intended purpose based on the data reviewed.

Signed: Andrea Sanson for

Gina McGettigan

MMRP SI

Ft Indiantown Gap

Field Sample Identifiers	Laboratory Sample Identifiers	Explosives	Lead	Mercury
FITG1SSD01	9716422001	X	X	X
FITG1SSC02	9716422002	X	X	X
FITG1SSD03	9716422003	X	X	X
FITG1SSD04	9716422004	X	X	X
FITG1SSC05	9716422005	X	X	X
FITG1SSD06	9716422006	X	X	X
FITG1SSD07	9716422007	X	X	X
FITG1SSC08	9716422008	X	X	X
FITG1SSD09	9716422009	X	X	X
FITG1SSD10	9716422010	X	X	X
FITG1SSC11	9716422011	X	X	X
FITG1SSD12	9716422012	X	X	X
FITG1SSC11D	9716422013	X	X	X

MMRP Fort Indiantown Gap
Duplicate Statistics

FITG1SSC11 and FITG1SSC11D

	Units	RL	5xRL	Sample Conc	Duplicate Conc	%RPD	Delta	2xRL	Pass/ Fail
Explosives									
non-detect									
Metals									
Lead	mg/kg	4	20	50	62	**21.4%**	12	8.0	Pass
Mercury	mg/kg	0.5	2.3	0.20 J	0.22 J	9.5%	**0.02**	0.9	Pass
Percent Moisture	%	0.1	0.5	57.2	66.8	**15.5%**	9.60	0.2	Pass

Control limit

[sample]>5xRL use 35%
[sample]<5xRL use Delta<2xRL

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422001** Date Collected: 12/20/2007 09:40 Matrix: Solid
Sample ID: **FITG1SSD01** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U	1	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
1,3-Dinitrobenzene	0.25 U	2	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,4-Dinitrotoluene	0.25 U	3	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,6-Dinitrotoluene	0.25 U	4	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 18:40	ELC	A	
WET CHEMISTRY											
Moisture	79.1		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	20.9		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	151		mg/kg	7.	SW846 6010B	12/27/07	MNP	12/31/07 01:52	JWK	A1	
Mercury, Total	0.19J		mg/kg	0.89	SW846 7471B	1/7/08	CMD	1/8/08 08:58	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422002** Date Collected: 12/20/2007 09:10 Matrix: Solid
Sample ID: **FITG1SSC02** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	87		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 19:26	ELC	A	
WET CHEMISTRY											
Moisture	32.3		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	67.7		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	32		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 01:57	JWK	A1	
Mercury, Total	0.05J		mg/kg	0.26	SW846 7471B	1/7/08	CMD	1/8/08 09:02	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422003** Date Collected: 12/20/2007 08:40 Matrix: Solid
Sample ID: **FITG1SSD03** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
2,4,6-Trinitrotoluene	0.24 U	5	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	87		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 20:12	ELC	A	
WET CHEMISTRY											
Moisture	29.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	70.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	63		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:01	JWK	A1	
Mercury, Total	0.06J		mg/kg	0.23	SW846 7471B	1/7/08	CMD	1/8/08 08:05	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422004** Date Collected: 12/18/2007 14:45 Matrix: Solid
Sample ID: **FITG1SSD04** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 20:58	ELC	A	
WET CHEMISTRY											
Moisture	33.0		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	67.0		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	41		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 02:06	JWK	A1	
Mercury, Total	0.06J		mg/kg	0.29	SW846 7471B	1/7/08	CMD	1/8/08 09:09	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422005** Date Collected: 12/18/2007 14:15 Matrix: Solid
Sample ID: **FITG1SSC05** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
1,3-Dinitrobenzene	0.24 U	6	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
RDX	0.24 U	7	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	109		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 21:44	ELC	A	
WET CHEMISTRY											
Moisture	59.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	40.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	163		mg/kg	4 J.q	SW846 6010B	12/27/07	MNP	12/31/07 02:11	JWK	A1	
Mercury, Total	0.08J		mg/kg	0.47	SW846 7471B	1/7/08	CMD	1/8/08 09:12	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422006** Date Collected: 12/18/2007 13:30 Matrix: Solid
Sample ID: **FITG1SSD06** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
1,3-Dinitrobenzene	0.25 U	8	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
RDX	0.25 U	9	mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	85		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 22:29	ELC	A	
WET CHEMISTRY											
Moisture	52.4		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	47.6		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	97		mg/kg	3 J,q	SW846 6010B	12/27/07	MNP	12/31/07 02:15	JWK	A1	
Mercury, Total	0.13J		mg/kg	0.39	SW846 7471B	1/7/08	CMD	1/8/08 09:16	CMD	A2	

Sample Comments:

Raymond J. Martrano
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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422007** Date Collected: 12/19/2007 12:10 Matrix: Solid
Sample ID: **FITG1SSD07** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	90		%	50-150	SW846 8330A	12/31/07	ELC	1/7/08 23:15	ELC	A	
WET CHEMISTRY											
Moisture	42.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	57.5		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	40		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:20	JWK	A1	
Mercury, Total	0.07J		mg/kg	0.29	SW846 7471B	1/7/08	CMD	1/8/08 09:30	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422008** Date Collected: 12/19/2007 12:55 Matrix: Solid
Sample ID: **FITG1SSC08** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL		Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES												
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U	10	mg/kg	0.24	UL,S	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
1,3-Dinitrobenzene	0.24 U	11	mg/kg	0.24	UL,S	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
HMX	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
RDX	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Tetryl	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
2,4,6-Trinitrotoluene	0.24 U	12	mg/kg	0.24	UL,S	SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*		*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	90		%	50-150		SW846 8330A	12/31/07	ELC	1/8/08 00:01	ELC	A	
WET CHEMISTRY												
Moisture	63.2		%	0.1		SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	36.8		%	0.1		SM20-2540 G			12/20/07 23:55	MBR	A	
METALS												
Lead, Total	66		mg/kg	3		SW846 6010B	12/27/07	MNP	12/31/07 02:24	JWK	A1	
Mercury, Total	0.11J		mg/kg	0.52		SW846 7471B	1/7/08	CMD	1/8/08 09:34	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422009** Date Collected: 12/19/2007 13:15 Matrix: Solid
Sample ID: **FITG1SSD09** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	94		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 01:33	ELC	A	
WET CHEMISTRY											
Moisture	35.9		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	64.1		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	23		mg/kg	2	SW846 6010B	12/27/07	MNP	12/31/07 02:46	JWK	A1	
Mercury, Total	0.07J		mg/kg	0.28	SW846 7471B	1/7/08	CMD	1/8/08 09:38	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422010** Date Collected: 12/20/2007 13:30 Matrix: Solid
Sample ID: **FITG1SSD10** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
1,3-Dinitrobenzene	0.24 U	13	mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 02:19	ELC	A	
WET CHEMISTRY											
Moisture	46.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	53.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	81		mg/kg	3	SW846 6010B	12/27/07	MNP	12/31/07 02:51	JWK	A1	
Mercury, Total	0.14J		mg/kg	0.36	SW846 7471B	1/7/08	CMD	1/8/08 09:41	CMD	A2	

Sample Comments:

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422011** Date Collected: 12/20/2007 12:15 Matrix: Solid

Sample ID: **FITG1SSC11** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25 ULm	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25 ULm	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25 ULm	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	89		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 03:05	ELC	A	
WET CHEMISTRY											
Moisture	57.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	42.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	50		mg/kg	4	SW846 6010B	12/28/07	MNP	12/31/07 03:13	JWK	A1	
Mercury, Total	0.20J		mg/kg	0.45	SW846 7471B	1/7/08	CMD	1/8/08 09:45	CMD	A2	

Sample Comments:

This sample was extracted and analyzed with an associated matrix spike and matrix spike duplicate in the 8330A analysis. Recoveries were in control for the matrix spike and matrix spike duplicate, however, precision between them was outside laboratory control limits.

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ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422012** Date Collected: 12/20/2007 12:45 Matrix: Solid

Sample ID: **FITG1SSD12** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
4-Amino-2,6-dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
1,3-Dinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,4-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,6-Dinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
HMX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Nitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
4-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
3-Nitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
RDX	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Tetryl	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
1,3,5-Trinitrobenzene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
2,4,6-Trinitrotoluene	0.25 U		mg/kg	0.25	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	91		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 05:22	ELC	A	
WET CHEMISTRY											
Moisture	27.8		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
Total Solids	72.2		%	0.1	SM20-2540 G			12/20/07 23:55	MBR	A	
METALS											
Lead, Total	42		mg/kg	2	SW846 6010B	12/28/07	MNP	12/31/07 03:27	JWK	A1	
Mercury, Total	0.08J		mg/kg	0.28	SW846 7471B	1/7/08	CMD	1/8/08 09:56	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

ANALYTICAL LABORATORY SERVICES, INC.
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PA 22-293 NJ PA010
34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

ANALYTICAL RESULTS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Lab ID: **9716422013** Date Collected: 12/20/2007 12:15 Matrix: Solid
Sample ID: **FITG1SSC11D** Date Received: 12/20/2007 17:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr	RegLmt
EXPLOSIVES											
2-Amino-4,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
4-Amino-2,6-dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
1,3-Dinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,4-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,6-Dinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
HMX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Nitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
4-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
3-Nitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
RDX	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Tetryl	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
1,3,5-Trinitrobenzene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
2,4,6-Trinitrotoluene	0.24 U		mg/kg	0.24	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*	*RegLmt*
3-Nitrochlorobenzene (S)	91		%	50-150	SW846 8330A	12/31/07	ELC	1/8/08 06:08	ELC	A	
WET CHEMISTRY											
Moisture	66.8		%	0.1	SM20-2540 G			12/21/07 23:55	MBR	A	
Total Solids	33.2		%	0.1	SM20-2540 G			12/21/07 23:55	MBR	A	
METALS											
Lead, Total	62		mg/kg	5	SW846 6010B	12/28/07	MNP	12/31/07 03:42	JWK	A1	
Mercury, Total	0.22J		mg/kg	0.50	SW846 7471B	1/7/08	CMD	1/8/08 09:59	CMD	A2	

Sample Comments:

Raymond J. Martrano
Laboratory Manager

DATA VALIDATION WORKSHEET - Level III Review
EXPLOSIVES ANALYSIS

Reviewer: Gina McGettigan

Date: 2/1/2008

Lab: Analytical Laboratory Services, Inc.

References: x SW-846 x NFG for Organic Data Review (January 2005)
x DoD QSM V3 x RIII Modifications to NFG (September 1994)

Project Name: MMRP Ft Indiantown Gap

Project Number: 15298911.00005

SDG No.: UUL-001

Method #: 8330

1.0 Chain of Custody/Sample Condition		Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples that were analyzed?	X		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	X		
1.3	Do the traffic Reports, chain-of-custody, and lab narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	

Note:

2.0 Preservation and Holding Time		Yes	No	NA
2.1	Were coolers received by the laboratory at temperatures <4.0°C ± 2.0°C? If samples were not ice upon arrival at the laboratory and the temperature of the cooler was elevated by two times the recommended temperature, then flag J(+)/UJ(-).	X		
2.2	Have any technical holding times, determined from sampling to date of analysis, been exceeded? If yes, J(+)/UJ(-).		X	
	Aqueous: 7d to extraction and 40d to analysis Soil: 14d to extraction and 40d to analysis			
2.3	Have any technical holding times been grossly (twice the holding time) exceeded? If yes, J(+)/R(-).		X	

Note:

3.0 Blanks (Method Blanks and Field Blanks)		Yes	No	NA
3.1	Was a method blank analyzed for each set of samples or every 20 samples of similar matrix, whichever is more frequent?	X		
3.2	Do any method/instrument/reagent blanks have positive results? Qualify associated field sam[ple results less than five times the blank concentration B.		X	
3.3	Do any field/rinse/equipment blanks have positive results? If Yes, use same rule above.			X
3.4	Are there field/rinse/equipment blanks associated with every sample? If No, noted in the DV report.			X

Note:

URS

4.0 Initial Calibration

		Yes	No	NA
4.1	Were at least 5 standards included in the calibration curve for each instrument with the low standard at or below the RL?	X		
4.2	Are response factors stable (%RSD values < 20% or r > 0.995) over the concentration range of the calibration?	X		
	For %RSD >20%, but < 50%, J(+) only. When %RSD > 50%, J(+)/UJ(-).			

Note:

5.0 Continuing Calibration

		Yes	No	NA
5.1	Has a continuing calibration verification (CCV) been analyzed at the beginning of each day, every 10 samples, and at the end of the run for each instrument?	X		
5.2	Are all CCV analytes within the calculated retention time window of 3*STD between three CCV analyzed over 48 hours?	X		
	If no, review sample chromatograms for peaks that are close to the expected retention time window and request laboratory input for any observations.			
5.3	Do any compounds have % difference (%D) values greater than the control limit of 20%?		X	
	Only one passing analytical column is required to report non-detects. When one of the two analytical column %Ds is out for any target analyte, verify in the raw field sample data that no peak was identified within the retention time window above the method detection limit - in which case no data qualifying action is necessary. Otherwise, for %D >20%, but < 50%, J(+) only and when %D > 50%, J(+)/UJ(-).			

Note:

6.0 Laboratory Control Sample/Duplicate (LCS/LCSD)

		Yes	No	NA
6.1	Is LCS analyzed at the required frequency of one LCS for each extraction batch for each matrix?	X		
6.2	Are all LCS percent recoveries within acceptance criteria?	X		
	%R >UCL <LCL			
	Positive J J			
	Non-detect None R			
6.3	If LCSD was analyzed, are there any RPD for LCS/LCSD recoveries outside the QC limits? If Yes, J(+) only.			X

Note:

7.0 Surrogate Recovery

		Yes	No	NA
7.1	Are surrogate recoveries within acceptance criteria for all samples and method blanks?		X	
7.2	If No in Section 7.1, are these sample(s) or method blank(s) reanalyzed?		X	
7.3	If No in Section 7.2, were these extracts analyzed at a dilution of 10 or greater? (Surrogate recoveries may be diluted out.)		X	
	Note: If surrogate recoveries do not meet acceptable criteria for MS/MSD or diluted samples, then no reanalysis is required.			

%R	> UCL	10% to LCL	< 10%
Positive	K	L	L
Non-detect	None	UL	R

Note: _____

8.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

		Yes	No	NA
8.1	Are matrix spikes analyzed at the required frequency of one set (MS/MSD) for each extraction batch for each matrix?	X		
8.2	Are all percent recoveries within control limits? If anomalous recovery is >10%, qualify only the parent sample accordingly.		X	
8.3	Are all MS/MSD RPDs within acceptance criteria? If no, qualify the parent sample J(+) only.	X		

%R	> UCL	10% to LCL	< 10%
Positive	J	J	J
Non-detect	None	UJ	R

Note: _____

9.0 Field Duplicate Samples

		Yes	No	NA
9.1	Were any field duplicates submitted for analysis?	X		
9.2	Are all analyte duplicate results within control limits? Qualify only the parent sample and the field duplicate results that do not meet criteria, J(+).	X		
	For sample results > 5 x RL , use a control limit of 35% RPD & for sample results < 5 x RL, use a control limit of the difference < 2 x RL.			

Note: _____

10.0 TCL Identification, Quantitation, and Detection Limits

		Yes	No	NA
10.1	Does the retention time (RT) of each reported compound fall within the RT window from the daily calibration?	X		
10.2	Is there evidence of unreported peaks (use professional judgement; benefit of doubt goes to the analyst)?		X	
10.3	Are all positive results confirmed on an alternate column? If no, line out hits with non-detect confirmation or reject unconfirmed positive results.	X		
10.4	Is the percent difference calculated for the positive sample results on both columns < 40%?			X
	Flag results "J", report the greater of the two values unless there is clear evidence that the difference results from an			
10.5	Are all positive results less than the highest initial calibration concentration? If no, J(+).			X
10.6	Were soil samples air-dried and reported with 100% solids for dry weight correction?	X		
10.7	Were all dilutions required due to the presence of high concentrations of target analytes? Explain elevated detection limits in the DV Report.			X
10.8	Are MDLs/RLs adjusted to reflect sample dilution(s)?			X

Note: _____

11.0 Completeness Calculation

		Yes	No	NA
11.1	Is % completeness within the control limit of 90%?		X	
11.1.1	Number of samples: 13			
11.1.2	Number of target compounds in each analysis: 14			
11.1.3	Number of results rejected and not reported: 0			
11.1.4	% Completeness = (11.1.1 x 11.1.2 - 11.1.3) x 100/(11.1.1 x 11.1.2) % Completeness = 100%			

Note: _____

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Level: (low/med) LOW

Wavelength 265 nm 1/21/08

	URS Corpora SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	FITG1SSD01	101								
02	FITG1SSD03	100								
03	FITG1SSC05	96								
04	FITG1SSD06	98								
05	FITG1SSC08	43*								
06	FITG1SSD10	104								
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS
(50-150)

S1 = 1-C-3-NB

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM II SV

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427754
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_S.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: 9716422011MS
Operator: ELC
SampleType: MS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS	
1 HMX	0.995025	0.832368	83.65	75-125	✓
2 RDX	0.995025	0.991397	99.64	70-135	✓
3 1,3,5-Trinitrobenz	0.995025	0.938562	94.33	75-125	✓
4 1,3-Dinitrobenzene	0.995025	0.980659	98.56	80-125	✓
6 Tetryl	0.995025	0.922801	10-150 92.74	20-175	✓
5 Nitrobenzene	0.995025	0.907381	75-125 91.19	50-140	✓
7 2,4,6-Trinitrotolu	0.995025	1.00683	95-140 101.19	50-145	✓
8 4-Amino-2,6-dinitr	0.995025	0.770354	80-125 77.42	55-155	✓
9 2-Amino-4,6-dinitr	0.995025	0.881527	80-125 88.59	50-155	✓
10 2,6-Dinitrotoluene	0.995025	1.22314	80-120 122.93	60-135	✓
11 2,4-Dinitrotoluene	0.995025	1.16969	80-125 117.55	60-135	✓
12 2-Nitrotoluene	0.995025	0.155581	80-125 15.64*	45-135	
13 4-Nitrotoluene	0.995025	0.231484	75-125 23.26*	50-130	
14 3-Nitrotoluene	0.995025	0.0958747	75-120 9.64*	50-130	
			266mm		

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	5.01331	100.77	50-150

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427754
Client Smp ID: 9716422011MS
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: MS
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	0.995025	0.000000	*	75-125
2 RDX	0.995025	0.910103	91.47	70-135
3 1,3,5-Trinitrobenz	0.995025	0.855705	86.00	75-125
4 1,3-Dinitrobenzene	0.995025	0.917078	92.17	80-125
6 Tetryl	0.995025	0.926563	93.12	20-175
5 Nitrobenzene	0.995025	0.964301	96.91	50-140
7 2,4,6-Trinitrotolu	0.995025	0.830772	83.49	50-145
8 4-Amino-2,6-dinitr	0.995025	0.176082	17.70*	55-155
9 2-Amino-4,6-dinitr	0.995025	0.340275	34.20*	50-155
10 2,6-Dinitrotoluene	0.995025	0.000000	*	60-135
11 2,4-Dinitrotoluene	0.995025	0.714994	71.86	60-135
12 2-Nitrotoluene	0.995025	0.844254	84.85	45-135
13 4-Nitrotoluene	0.995025	0.750652	75.44	50-130
14 3-Nitrotoluene	0.995025	0.611818	15-120 61.49	50-130

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	4.97512	4.40397	88.52	50-150

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Sample Matrix: SOLID
Lab Smp Id: 427755
Level: LOW
Data Type: LC DATA
SpikeList File: DoD_S.spk
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_235.m
Misc Info: ZZ HPLC 1922 8330S

Client SDG: H1080107.b
Fraction: SV
Client Smp ID: 9716422011MSD
Operator: ELC
SampleType: MSD
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	1.81818	1.58226	87.02	75-125
2 RDX	1.81818	1.75698	96.63	70-135
3 1,3,5-Trinitrobenz	1.81818	1.73053	95.18	75-125
4 1,3-Dinitrobenzene	1.81818	1.81394	99.77	80-125
6 Tetryl	1.81818	1.72961	95.13	20-175
5 Nitrobenzene	1.81818	1.74703	96.09	50-140
7 2,4,6-Trinitrotolu	1.81818	1.53326	84.33	50-145
8 4-Amino-2,6-dinitr	1.81818	1.16958	80-125 64.33	55-155
9 2-Amino-4,6-dinitr	1.81818	1.42823	78.55	50-155
10 2,6-Dinitrotoluene	1.81818	1.86041	102.32	60-135
11 2,4-Dinitrotoluene	1.81818	1.92266	105.75	60-135
12 2-Nitrotoluene	1.81818	0.000000	*	45-135
13 4-Nitrotoluene	1.81818	0.233387	12.84*	50-130
14 3-Nitrotoluene	1.81818	0.177269	9.75*	50-130
			265.00	

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	9.09091	9.49986	104.50	50-150

Analytical Laboratory Services, Inc.

RECOVERY REPORT

Client Name: In-house QC Account
Client SDG: H1080107.b
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: 427755
Client Smp ID: 9716422011MSD
Level: LOW
Operator: ELC
Data Type: LC DATA
SampleType: MSD
SpikeList File: DoD_S.spk
Quant Type: ESTD
Sublist File: all.sub
Method File: \\Gc01\TargetData\Chem\hpl1.i\1JAN08\H1080107.b\8330_265.m
Misc Info: ZZ HPLC 1922 8330S

SPIKE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
1 HMX	1.81818	0.000000	*	75-125
2 RDX	1.81818	1.73158	95.24	70-135
3 1,3,5-Trinitrobenz	1.81818	1.51526	83.34	75-125
4 1,3-Dinitrobenzene	1.81818	1.70234	93.63	80-125
6 Tetryl	1.81818	1.76235	96.93	20-175 ✓
5 Nitrobenzene	1.81818	1.83307	100.82	50-140 ✓
7 2,4,6-Trinitrotolu	1.81818	1.55326	85.43	50-145
8 4-Amino-2,6-dinitr	1.81818	0.671473	36.93*	55-155
9 2-Amino-4,6-dinitr	1.81818	0.587754	32.33*	50-155
10 2,6-Dinitrotoluene	1.81818	0.000000	*	60-135
11 2,4-Dinitrotoluene	1.81818	1.30736	71.90	60-135
12 2-Nitrotoluene	1.81818	1.58620	87.24	45-135 ✓
13 4-Nitrotoluene	1.81818	1.42490	78.37	50-130 ✓
14 3-Nitrotoluene	1.81818	1.27402	70.07 75-120	50-130 ✓

SURROGATE COMPOUND	CONC ADDED mg/kg	CONC RECOVERED mg/kg	% RECOVERED	LIMITS
$ 15 1-C-3-NB	9.09091	8.46445	93.11	50-150

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

Sequence: ZK5A Batch: H1071105 Method: 8330A Date: 11/5/7

Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	LEVEL 3	5.0 µL	ELC	—	01-0589	Test Injection/NU
2	LEVEL 1	1.0 µL		ICAL	0	
3	LEVEL 2	2.5 µL				
4	LEVEL 3	5.0 µL				
5	LEVEL 4	12.5 µL				
6	LEVEL 5	25.0 µL				
7	LEVEL 6	50.0 µL				
8	LEVEL 7	100. µL				
9	2ND Source CCV	100. µL		2nd Source CCV	01-0542 01-0541	

Reagents: Surrogate 01-0565, Methanol B&J CR018, 50/50 $CaCl_2$/ACN IB01014

Add'l. Comments:

Revision 4/07

Work continued from page: —

HPLC-1 (Dionex) LOGBOOK

Work continued to page: —

Sequence: ZA7A Batch: H1080107 Method: 8330A S Date: 1/7/8

Seq. No.	Sample ID	Inj. Dilution	Analyst	QC	Standard	Comments
1	2ND Source CCV	100. µL	ELC	2ND Source/CCV	01-0591	—
2	427752			MB	—	
3	427753			LCS	01-0569	
4	9716422001					
5	9716422002					
6	9716422003					
7	9716422004					
8	9716422005					
9	9716422006					
10	9716422007					
11	9716422008					
12	2ND Source CCV			2ND Source/CCV	01-0591	—
13	9716422009					
14	9716422010					
15	9716422011					
16	427754			MS	01-0569	422-11 MS
17	427755			MSD	01-0569	422-11 MSD
18	9716422012			—	—	—
19	9716422013			—	—	—
20	2ND Source CCV			2ND Source/CCV	01-0591	low bias, std. old, reinject NU
21	2ND Source CCV			2ND Source/CCV	01-0591	fresh prep. OK

Reagents: Surrogate 01-0565, Methanol B&J CU807, $CaCl_2$/ACN IB01014

Add'l. Comments: ZA7A### files are measured @ 235 nm, ZA7B### files @ 265 nm
Reporting from 235 nm for HMX; RDX; 1,3,5-TNB; 1,3-DNB; 2,4,6-TNT; 4-α-2,6-DNT; 2-α-4,6-DNT; 2,6-DNT; 2,4-DNT.
Reporting from 265 nm for NB; Tetryl; 2-NT; 4-NT; 3-NT, Surrogate

Revision 4/07

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

GC Column: C18 ID: 4.60 (mm) Init. Calib. Date(s): 11/05/07 11/05/07

Instrument ID: HPL1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 33.27

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		2ND SOURCE C	01/07/08	1615	33.21	
02	427752MB	427752	01/07/08	1708	33.15	
03	427753LCS	427753	01/07/08	1754	33.18	
04	FITG1SSD01	9716422001	01/07/08	1840	33.23	
05	FITG1SSC02	9716422002	01/07/08	1926	33.22	
06	FITG1SSD03	9716422003	01/07/08	2012	33.20	
07	FITG1SSD04	9716422004	01/07/08	2058	33.18	
08	FITG1SSC05	9716422005	01/07/08	2144	33.18	
09	FITG1SSD06	9716422006	01/07/08	2229	33.18	
10	FITG1SSD07	9716422007	01/07/08	2315	33.15	
11	FITG1SSC08	9716422008	01/08/08	0001	33.09	
12		2ND SOURCE C	01/08/08	0047	33.03	
13	FITG1SSD09	9716422009	01/08/08	0133	33.04	
14	FITG1SSD10	9716422010	01/08/08	0219	33.03	
15	FITG1SSC11	9716422011	01/08/08	0305	33.02	
16	FITG1SSC11_M	427754	01/08/08	0350	33.02	
17	FITG1SSC11_M	427755	01/08/08	0436	33.02	
18	FITG1SSD12	9716422012	01/08/08	0522	32.98	
19	FITG1SSC11D	9716422013	01/08/08	0608	32.95	
20		2ND SOURCE C	01/08/08	1116	32.85	
21		2ND SOURCE C	01/08/08	1428	33.27	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

S1 = 1-C-3-NB

QC LIMITS
(+/- 1.00 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

235nm

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date(s): 11/05/07 11/05/07

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1102 1537

LAB FILE ID: RF1000: ZK5A007 RF2000: ZK5A008

COMPOUND	RF1000	RF2000	CURVE	COEFFICENT A1	%RSD OR R^2	
4-Amino-2,6-dinitrotoluene	601.684	598.826	AVRG	604.800000	1.4	
Nitrobenzene	143.881	139.014	AVRG	146.065786	4.0	
2,6-Dinitrotoluene	311.367	308.570	AVRG	312.521929	1.4	
2,4-Dinitrotoluene	388.766	384.276	AVRG	388.818214	0.8	
2-Nitrotoluene	122.234	121.306	AVRG	116.910786	13.6	
4-Nitrotoluene	80.987	81.150	AVRG	78.0600714	7.5	
3-Nitrotoluene	104.268	103.080	AVRG	104.925500	3.3	<-
RDX	272.693	267.096	AVRG	271.560143	1.3	
2-Amino-4,6-dinitrotoluene	524.484	516.130	AVRG	523.571429	0.9	
HMX	384.872	375.474	AVRG	384.995214	2.5	
2,4,6-Trinitrotoluene(TNT)	485.010	478.422	AVRG	486.021714	1.2	
1,3-Dinitrobenzene	569.130	563.316	AVRG	570.151429	1.4	
Tetryl	455.419	447.240	AVRG	461.195786	2.0	
1,3,5-Trinitrobenzene	707.866	700.230	AVRG	706.203643	0.8	
1-C-3-NB	126.284	121.672	AVRG	117.772083	15.7	<-

original analysis 235 nm includes all targets except 2NT, 3NT, & 4NT + surrogate which passed on 265 nm (ICAL, ICV, & CCV)

Analytical Laboratory Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hpl1.i Injection Date: 05-NOV-2007 16:23
Lab File ID: ZK5A009.d Init. Cal. Date(s): 05-NOV-2007 05-NOV-2007
Analysis Type: SOIL Init. Cal. Times: 11:02 15:37
Lab Sample ID: 2nd Source CCV Quant Type: ESTD
Method: \\Gc01\TargetData\Chem\hpl1.i\2007\1NOV07\H1071105.b\8330_235.m

COMPOUND	RRF / AMOUNT	RF100	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 HMX	385	347	0.010	-9.86381	15.00000	Averaged	
2 RDX	272	274	0.010	1.06417	15.00000	Averaged	
3 1,3,5-Trinitrobenzene	706	728	0.010	3.03119	15.00000	Averaged	
4 1,3-Dinitrobenzene	570	559	0.010	-2.02427	15.00000	Averaged	
5 Nitrobenzene	146	138	0.010	-5.72741	15.00000	Averaged	
6 Tetryl	461	499	0.010	8.20567	15.00000	Averaged	
7 2,4,6-Trinitrotoluene(TNT)	486	484	0.010	-0.35425	15.00000	Averaged	
8 4-Amino-2,6-dinitrotoluene	605	593	0.010	-1.98082	15.00000	Averaged	
9 2-Amino-4,6-dinitrotoluene	524	504	0.010	-3.81064	15.00000	Averaged	
10 2,6-Dinitrotoluene	313	298	0.010	-4.71709	15.00000	Averaged	
11 2,4-Dinitrotoluene	389	388	0.010	-0.26959	15.00000	Averaged	
12 2-Nitrotoluene	117	179	0.010	53.46745	15.00000	Averaged	<-
13 4-Nitrotoluene	78.06007	66.94000	0.010	-14.24553	15.00000	Averaged	
14 3-Nitrotoluene	105	62.60000	0.010	-40.33862	15.00000	Averaged	<-
$ 15 1-C-3-NB	118	83.89000	0.010	-28.76920	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 11.85798
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/07/08 Time: 1615

Lab File ID: ZA7A001 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	612.100	0.01	1.2	15.0	
Nitrobenzene	146.066	142.960	0.01	2.1	15.0	
2,6-Dinitrotoluene	312.522	312.120	0.01	0.1	15.0	
2,4-Dinitrotoluene	388.818	392.830	0.01	1.0	15.0	
2-Nitrotoluene	116.911	136.170	0.01	16.5	15.0	<- reported from ZA7B001 SM 1/21/08
4-Nitrotoluene	78.060	75.330	0.01	3.5	15.0	
3-Nitrotoluene	104.926	93.000	0.01	11.4	15.0	
RDX	271.560	260.290	0.01	4.2	15.0	
2-Amino-4,6-dinitrotoluene	523.571	539.790	0.01	3.1	15.0	
HMX	384.995	378.520	0.01	1.7	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	488.270	0.01	0.5	15.0	
1,3-Dinitrobenzene	570.151	569.210	0.01	0.2	15.0	
Tetryl	461.196	463.660	0.01	0.5	15.0	
1,3,5-Trinitrobenzene	706.204	689.610	0.01	2.3	15.0	
1-C-3-NB	117.772	99.840	0.01	15.2	15.0	<- reported from ZA7B001 SM 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 0047

Lab File ID: ZA7A012 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	576.120	0.01	4.7	15.0	
Nitrobenzene	146.066	143.140	0.01	2.0	15.0	
2,6-Dinitrotoluene	312.522	297.150	0.01	4.9	15.0	
2,4-Dinitrotoluene	388.818	369.920	0.01	4.9	15.0	
2-Nitrotoluene	116.911	15.750	0.01	86.5	15.0	<- *
4-Nitrotoluene	78.060	13.730	0.01	82.4	15.0	<- *
3-Nitrotoluene	104.926	12.370	0.01	88.2	15.0	<- *
RDX	271.560	276.860	0.01	2.0	15.0	
2-Amino-4,6-dinitrotoluene	523.571	484.400	0.01	7.5	15.0	
HMX	384.995	375.890	0.01	2.4	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	483.920	0.01	0.4	15.0	
1,3-Dinitrobenzene	570.151	575.230	0.01	0.9	15.0	
Tetryl	461.196	376.730	0.01	18.3	15.0	<- *
1,3,5-Trinitrobenzene	706.204	642.310	0.01	9.0	15.0	
1-C-3-NB	117.772	11.050	0.01	90.6	15.0	<- *

* reported from ZA7B012 SMJ 1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1116

Lab File ID: ZA7A020 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D	
4-Amino-2,6-dinitrotoluene	604.800	329.730	0.01	45.5	15.0	<-
Nitrobenzene	146.066		0.01	100.0	15.0	<-
2,6-Dinitrotoluene	312.522		0.01	100.0	15.0	<-
2,4-Dinitrotoluene	388.818	193.780	0.01	50.2	15.0	<-
2-Nitrotoluene	116.911	16.860	0.01	85.6	15.0	<-
4-Nitrotoluene	78.060	15.410	0.01	80.2	15.0	<-
3-Nitrotoluene	104.926		0.01	100.0	15.0	<-
RDX	271.560	287.300	0.01	5.8	15.0	
2-Amino-4,6-dinitrotoluene	523.571	137.850	0.01	73.7	15.0	<-
HMX	384.995	383.890	0.01	0.3	15.0	
2,4,6-Trinitrotoluene(TNT)	486.022	384.720	0.01	20.8	15.0	<-
1,3-Dinitrobenzene	570.151	442.430	0.01	22.4	15.0	<-
Tetryl	461.196	367.920	0.01	20.2	15.0	<-
1,3,5-Trinitrobenzene	706.204	697.220	0.01	1.3	15.0	
1-C-3-NB	117.772		0.01	100.0	15.0	<-

all return
SW
1/21/08

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: UUL001

Instrument ID: HPL1 Calibration Date: 01/08/08 Time: 1428

Lab File ID: ZA7A021 Init. Calib. Date(s): 11/05/07 11/05/07

Heated Purge: (Y/N) N Init. Calib. Times: 1102 1537

GC Column: C18 ID: 4.60 (mm)

20%

COMPOUND	$\overline{RRF}$	RRF100	MIN RRF	%D	MAX %D
4-Amino-2,6-dinitrotoluene	604.800	589.640	0.01	2.5	15.0
Nitrobenzene	146.066	123.630	0.01	15.4	15.0
2,6-Dinitrotoluene	312.522	293.150	0.01	6.2	15.0
2,4-Dinitrotoluene	388.818	376.740	0.01	3.1	15.0
2-Nitrotoluene	116.911	121.520	0.01	3.9	15.0
4-Nitrotoluene	78.060	83.040	0.01	6.4	15.0
3-Nitrotoluene	104.926	101.860	0.01	2.9	15.0
RDX	271.560	262.710	0.01	3.2	15.0
2-Amino-4,6-dinitrotoluene	523.571	511.430	0.01	2.3	15.0
HMX	384.995	380.980	0.01	1.0	15.0
2,4,6-Trinitrotoluene(TNT)	486.022	489.220	0.01	0.6	15.0
1,3-Dinitrobenzene	570.151	548.140	0.01	3.9	15.0
Tetryl	461.196	400.240	0.01	13.2	15.0
1,3,5-Trinitrobenzene	706.204	665.880	0.01	5.7	15.0
1-C-3-NB	117.772	116.210	0.01	1.3	15.0

<- reprinted from ZA7B021 gw 1/21/08

FORM VII SV

DATA VALIDATION WORKSHEET
INORGANICs - 6010B/6010B Trace and 747X
NATIONAL FUNCTIONAL GUIDELINES (10/2004) and RIII Modifications (04/1993)

SDG No.: UUL-001
Project No.: 15298911.00005
Laboratory: Analytical Laboratory Services

Project Name: MMRP Ft Indiantown Gap
Reviewer: Andrea Sansom
Date: 2/1/2008

1.0 Chain of Custody/Sample Condition/Raw Data

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
1.1	Do Chain-of-Custody forms list all samples which were analyzed?	X			X		
1.2	Are all Chain-of-Custody forms signed, indicating sample chain-of-custody was maintained?	X			X		
1.3	Do the traffic reports or lab narrative indicate any problems with sample receipt, condition, analytical problems or special circumstances affecting the quality of the data?		X			X	
1.4	Are the digestion logs present and complete with pH values, sample weights, dilutions, final volumes. % solids, and preparation dates? If no, contact the laboratory for explanation/resubmittal.	X			X		

Note:

2.0 Preservation / Holding Time

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
2.1	Does sample preservation and storage meet method requirement of Nitric Acid to pH $\leq$ 2 for aqueous samples & 4°C $\pm$ 2°C for aqueous and soil matrices? Action:L(+)/UL(-).	X			X		
2.2	Have any holding times of 180 days (ICP-AES) or 28 days (CVAA), determined from date of collection to date of analysis, been exceeded? Action:L(+)/R(-).		X			X	

Note:

3.0 Blanks

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
3.1	Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, per batch, per matrix)?	X			X		
3.2	Were calibration blanks (ICB and CCBs) analyzed immediately after every ICV and CCVs? If no instrument blanks were run, all associated data are rejected. If the frequency of the instrument blanks does not follow requirement, make a note in the DV Report.	X			X		
3.3	Are there reported MB or ICB/CCBs values greater than the MDL?		X			X	
	Sample: Nondetect — Positive $\leq$ 5*Blank concentration						
	No action — B						
3.4	Are there negative MB or ICB/CCBs values greater than the absolute value of the MDL?		X			X	
	Sample: Nondetect — Positive < 5*Blank concentration						
	UL — L						

Note:

URS

4.0 Instrument Calibration

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
4.1	Are a minimum of a blank and one standard (ICP-AES) or a blank and 4 standards with one at or below the reporting limit concentration (CVAA) included in the calibration curve analyzed on each day as the samples? If not, qualify J(+)/R(-).	BK+3			BK+5		
4.2	Are the correlation coefficients > 0.995? Action: J(+)/UJ(-).				X		
4.3	Was an initial calibration verification (ICV) analyzed immediately after instrument system had been calibrated? Action: If no, all associated data are rejected "R".	X			X		
4.4	Was continuing calibration verification (CCV) analyzed at a minimum frequency of every 10 samples during an analytical run and at the end of the analytical run? If not, document and flag based on professional judgement.	X			X		
4.5	Are all calibration verification percent recoveries (ICV and CCV) within the control limits?	X			X		
	Action: L(+)/R(-) L(+)/UL(-) K(+) ICP-AES <75% 75-89% >110% CVAA <65% 65-79% >120%						
4.6	Did the CRDL standard recover between 80-120%?	X					X
	2xCRDL>[sample]>IDL L(+)/R(-) L(+)/UL(-) K(+) ICP-AES <50% 50-89% >110%	107%, 108%					

Note:

5.0 ICP Interference Check Sample (ICS)

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
5.1	Was ICS analyzed at beginning of each ICP run?	X					
5.2	Are the ICS AB recoveries within 80% - 120%?	X					
5.3	Are the results for unspiked analytes (in ICS A) < ± RL?		X				
5.4	If not, are the associated sample Al, Ca, Fe, and Mg concentrations less than half the level in the ICS?			X			
	Action: Not Spiked Analytes: < -MDL L(+)/UL(-); > MDL K(+) Spiked analytes (ICS AB analytes): < 50% L(+)/R(-); 51-79% L(+)/UL(-); >120% K(+)						

Note:

6.0 Result and Reporting Limit Verification

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
6.1	Are all RLs equal to or less than the reporting limits required in the work plan (Pb@2mg/kg / Hg@0.2 mg/Kg)? If no, contact lab.	X			X		
6.2	Were all results and detection limits for solid samples reported on a dry-weight basis? If no, contact laboratory for corrections.	X			X		
6.3	Were all dilutions reflected in the positive results and detection limits? If no, contact laboratory for corrections.			X			x
6.4	Were all results less than the highest concentration of the inital calibration or linear range standard? If no, J(+).		X		X		

Note:

7.0 Laboratory Control Sample (LCS)

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
7.1	Was an LCS prepared and analyzed at the correct frequency (1 per 20 samples, per batch, per matrix)? If no, note in DV Report.	X			X		
7.2	Is any LCS recovery outside the control limits? (Aqueous limits: 80% - 120% - except Ag and Sb; Solid limits: lab generated)		X			X	
	Action: Solid < LCL: L(+)/UL(-); Solid > UCL: K(+); Aqueous < 50%: L(+)/R(-); Aqueous 50% - 79%: L(+)/UL(-); Aqueous >120%: K(+)						

Note: _____

8.0 Laboratory Duplicates (Matrix Duplicate or Matrix Spike Duplicate)

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
8.1	Were laboratory duplicates prepared and analyzed at the correct frequency (one per 20 samples, per batch, per matrix)? If no, note in DV Report.	X			X		
8.2	Are all analyte duplicate results within control limits of RPD≤20%? If no, qualify all associated field samples J(+)/UJ(-) for the analyte with results that fall outside criteria.	X			X		

Note: _____

9.0 Matrix Spike Analysis -Pre-Digestion/Post-Digestion

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
9.1	Was a spiked sample prepared and analyzed at the correct frequency (one per 20 samples, batch, matrix)? If not, J(+) with professional judgement.	X			X		
9.2	For all analytes with sample concentration > 4 x spike concentration, are spike recoveries within the control limit of 80-120%?	X			X		
9.3	Where pre-digestion matrix spike analytes were outside the acceptable recovery limits (not required for Silver or Mercury), was a post-digestion spike performed? Note any omission in DV report.			X			X
	pre-digestion matrix spike: <30% / 30-79% / >121% Associated ÷ Sample Result: L / L / K Associated ND Sample Result: R / UL / NONE						

Note: _____

10.0 ICP/AA Serial Dilutions

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
10.1	Were serial dilutions performed?			X			
10.2	Was a five-fold dilution performed?						
10.3	Did the serial dilution results agree within 10% for ICP analyte concentration > 50 X the MDL for 6010 in the original sample? If no, J(+)/UJ(-).						

Note:

11.0 Field Duplicate Samples

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
11.1	Were any field duplicates submitted for metal analysis?	X			X		
11.2	Are all duplicate results within control limits? If no, qualify all sample results from the same site and matrix, J(+)/UJ(-).	X			X		
	For sample results > 5 x RL , use a control limit of 35% RPD & for sample results < 5 x RL, use a control limit of the difference < 2 x RL.						

Note:

12.0 Completeness Calculation

		ICP-AES			CVAA		
		Yes	No	NA	Yes	No	NA
12.1	Is % completeness within the control limit of 90%?	X			X		
12.1.1	Number of samples: 13						
12.1.2	Number of target compounds in each analysis: 1						
12.1.3	Number of results rejected and not reported: 0						
12.1.4	% Completeness = (12.1.1 x 12.1.2 - 12.1.3) x 100/(12.1.1 x 12.1.2) % Completeness = 100%						

Note:

Sample Description
FITG1SSC11

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: 6010B
SDG No.: UUL-001

Matrix (soil/water): SOIL
Units: mg/Kg
% moisture: N/A
Date Analyzed: 12/31/2007

Lab Sample ID: 9716422011 (427796/427797)
Lab File ID: 123107
Instrument ID: TJA TRACE ICP
GC Column: N/A

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Lead	1.00	0.227	1.25	102		80-120

Analyte	Spike Added	MSD Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Lead	1.00	1.29	106		80-120	2.8		20

(1) The following qualifiers are used:
* : Values outside of acceptable limits
D : Spikes diluted out

Comments: These results are not prep factor corrected.

Sample Description
FITG1SSC11

Form 3A
Matrix Spike and Matrix Spike Duplicate Recovery Summary

Analysis Method: 7471B
SDG No.: UUL-001

Matrix (soil/water): SOIL
Units: mg/Kg
% moisture: N/A
Date Analyzed: 1/8/2008

Lab Sample ID: 9716422011 (427796/427797)
Lab File ID: 010808S
Instrument ID: CETAC HG ANALYZER
GC Column: N/A

Analyte	Spike Added	Sample Concentration	MS Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)
Merucry	0.00500	0	0.00418	84		80-120

Analyte	Spike Added	MSD Concentration	MS Recovery (%)	(1)	Acceptable Limits (%)	RPD (%)	(1)	Acc. Lim. (%)
Mercury	0.00500	0.00434	87		80-120	3.7		20

(1) The following qualifiers are used:
* : Values outside of acceptable limits
D : Spikes diluted out

Comments: These results are not prep factor corrected.

Work continued from page:____

HPLC EXTRACTION

Work continued to page:____

EPA Method: 8330A

ALSI SOP: 09-8330S

Surrogate ID: 01-0553

Surrogate Amount: 10.0 µL

Extraction:	Date	Time	Tech	Sonication:	Time On	Time Off	Total Hours Sonicated	Tech
	—		—		12/31/7 15:30	1/1/8 17:15	25.75 hr	ELC

Line #	Sample ID	Sample Amount	QC Type	Spike ID	Spike Amount	Final Volume	Elution Time	Sample Specific Comments (Include weigh data for drying, if applicable.)
1.)	427752	2.0 g	MB	—	—	20.0 mL	—	—
2.)	427753	2.0 g	LCS	01-0569	10.0 µL			—
3.)	9716422001	2.01 g						12.70 g 3.74 g 3.74 g
4.)	9716422002	2.05 g						11.48 g 7.25 g 7.25 g
5.)	9716422003	2.05 g						11.98 g 8.70 g 8.69 g
6.)	9716422004	2.02 g						13.19 g 9.38 g 9.37 g
7.)	9716422005	2.06 g						11.53 g 5.86 g 5.85 g
8.)	9716422006	2.01 g						11.29 g 6.12 g 6.12 g
9.)	9716422007	2.12 g						13.10 g 8.07 g 8.07 g
10.)	9716422008	2.10 g						12.96 g 6.70 g 6.70 g
11.)	9716422009	2.02 g						13.04 g 8.61 g 8.61 g
12.)	9716422010	2.06 g						11.94 g 7.46 g 7.46 g
13.)	9716422011	2.01 g						9.98 g 4.24 g 4.24 g
14.)	427754	2.01 g	MS	01-0569	10.0 µL			9.93 4.18 g 4.18 g
15.)	427755	1.10 g	MSD	01-0569	10.0 µL			insufficient dried sample available

Reagent Identification(s): ACN = Baker E45806, $CaCl_2$ = IB01037

Note: Sample Drying Started 15:00 12/27/7, 1st Check 09:00 12/31/7, 2nd check 13:00 12/31/7

Approved By: ELC

Date Approved: 1/3/8

Analytical Laboratory Services Inc.
Analytical Narrative
URS Corporation
UUL-001

SAMPLE MANAGEMENT

This report contains the results of the analysis of thirteen (13) solid samples collected on December 18, 19 and 20, 2007. Analytical results and quality control information are summarized in this data package.

SAMPLE RECEIPT

Samples arrived at ALSI via courier on December 20, 2007. Upon receipt, the samples were inspected and compared to the enclosed chain of custody. Each sample was assigned a unique identification number (see Certificate of Analysis). The sample information was entered into the computer system and the samples were released for analysis.

Explosives by Method 8330A

Sample Handling: Thirteen soil samples were extracted and analyzed for explosives by Method 8330A. The sample extraction and analysis was performed within the holding times associated with the method. The sample identified as FITG1SSC11 (9716422011) was designated for the MS/MSD analysis in this group. This sample contained a large amount of moisture and once dried according to the method, there was insufficient sample available for sample and MS/MSD analysis within the client desired turn-around time. Extraction proceeded with the sample that was dried and available.

Blank: A method blank, identified as 427752MB, was extracted and analyzed with the samples in this deliverable group. No explosive analytes were detected in the blank.

Calibrations: The initial calibrations for explosive analytes were conducted on November 5, 2007. The initial calibration met method criteria for all target analytes.

Initial Calibration Validation: The initial calibration was validated by the analysis of a standard prepared from a source of material independent of that used for the initial calibration. The standard used for this second source initial calibration verification consisted of the explosive analytes at 100 µg/L. Target analytes were in control.

Calibration Verification: The initial calibration was verified prior to and following the analysis of the samples in this group with calibration check standards containing the explosives. All results were in control. Calibration verification occurred after every 12 hours or after every 10 project samples, whichever frequency was greater.

Analytical Wavelengths: The detector used for this analysis is capable of collecting data at multiple wavelengths, simultaneously. Based on the absorptivity of the explosive analytes and the background signal, the wavelengths of 235 and 265 nm were selected. Based on these factors, as well as the results of the initial calibration and the calibration verifications, the following analytes were reported from the data at 235 nm (data file prefixes ZA7A and ZA8A): HMX; RDX; 1,3,5-TNB; 1,3-DNB; 2,4,6-TNT; 4-α-2,6-DNT; 2-α-4,6-DNT; 2,6-DNT; and 2,4-DNT. The remaining analytes: NB; Tetryl; 2-NT; 4-NT; 3-NT; and the surrogate, were reported from the data at 265 nm (data file prefixes ZA7B and ZA8B).

Surrogates: A one-component surrogate, 1-chloro-3-nitrobenzene, was added to each project and QC sample. Recoveries were within control in the initial analysis of each sample. In the confirmation analysis of sample FITG1SSC08 (9716422008), the surrogate recovery was below the QC limits.

Laboratory Control Sample: A laboratory control sample, identified as 427753LCS, was analyzed with the samples in this deliverable group. The target explosive analytes were recovered within laboratory control limits.

Matrix Spike: A matrix spike and matrix spike duplicate identified as 427754 and 427755, respectively, were prepared from the project sample FITG1SSC11 (9716422011). Target analyte recoveries of the explosive analytes were in control, with the exception of 2-Nitrotoluene and 4-nitrotoluene, in the initial analysis. These analytes were recovered within QC limits in the confirmatory analysis. With the exception of 4-Nitrotoluene, precision, as determined by MS/MSD recovery, met laboratory control limits for all target analytes. Precision of 4-Nitrotoluene exceeded QC limits in both the initial and confirmatory analysis.

Confirmation (second column) Analysis: The samples identified as FITG1SSD01, FITG1SSD03, FITG1SSC05, FITG1SSD06, FITG1SSC08, and FITG1SSD10, showed detections of explosive analytes from the primary analysis performed on January 7, 2008. These samples were selected for confirmation analysis on a dissimilar column. The detections observed from the primary analysis were not observed in the confirmation analysis performed on January 8, 2008. The detections are included on the laboratory report as comments, and should be considered suspect.

Total Metals by SW-846 Method 3050/6010B

Sample handling. Thirteen (13) soil samples were digested by SW-846 method 3050, and the digestates were analyzed for total metals on the TJA TRACE ICP using SW-846 method 6010B. All samples were digested and analyzed within the six-month holding time established for the method.

Calibration. Each day that the samples were analyzed, an initial four-point calibration was properly established and verified through the analysis of a second source calibration verification standard, an initial calibration blank (ICB), an initial performance check (CCV), and an interference check standard (ICS). Calibration checks were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibrations and check standards were within the control limits for this method.

Blanks. Reagent (calibration) blanks were analyzed following the calibrations, after every ten samples, and at the conclusion of the runs. Metals were not present in any of the reagent blanks at a detectable level. Two method blanks, identified as samples 427706-MB and 427794-MB, were digested and analyzed with the samples in this deliverable group. Metals were not detected in the method blanks.

Laboratory Control Sample. Two laboratory control samples, identified as 427707-LCS and 427795-LCS, were digested and analyzed with the samples in this deliverable group. The LCS recoveries were within control limits.

Spikes. A matrix spike and matrix spike duplicate identified as 427796 and 427797 were digested and analyzed on sample 9716422011 (FITG1SSC11) in this deliverable group. All spike recoveries and relative percent differences evaluated were within control limits.

Mercury by SW-846 Method 7471

Sample handling. Thirteen (13) soil samples were analyzed for total mercury on the CETAC Hg Analyzer using SW-846 method 7471B. The samples were digested and analyzed within the 28-day holding time established for the method.

Calibration. The day that the samples were analyzed, an initial calibration was properly established and verified through the analysis of a second source calibration verification standard. Calibration check standards were analyzed every ten samples and at the conclusion of the run. All criteria associated with the calibration and check standards were within control limits.

Blanks. Reagent (calibration) blanks were analyzed following the calibration, after every ten samples, and at the conclusion of the run. Mercury was not present in any of the reagent blanks at a detectable level. A method blank, identified as sample 429573-MB was digested and analyzed with the samples in this deliverable group. Mercury was not detected in the method blank.

Laboratory Control Sample. A laboratory control sample, identified as 429574-LCS, was digested and analyzed with the samples in this deliverable group. The laboratory control sample recovery was within control limits.

Spikes. A matrix spike and matrix spike duplicate, identified as 427796 and 427797, were digested and analyzed on sample 9716422011 (FITG1SSC11) (BK-03-1.0). The spike recoveries and their RPD were within control limits.

Total Solids by SM 2540G

Sample handling. Thirteen (13) solid samples were analyzed for total solids by Standard Method 2540G. The samples were analyzed within the 7-day hold time established for the method.

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9716422 UUL001|USACE MMRP SI FTIG

PARAMETER QUALIFIERS\FLAGS

[1] 4-a-2,6-DNT was detected at 0.35 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[2] 1,3-DNB was detected at 0.06 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[3] 2,4-DNT was detected at 0.49 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[4] 2,6-DNT was detected at 0.24 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[5] 2,4,6-TNT was detected at 0.44 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[6] 1,3-DNB was detected at 0.98 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[7] RDX was detected at 0.14 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[8] 1,3-DNB was detected at 0.35 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[9] RDX was detected at 1.22 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[10] 4-a-2,6-DNT was detected at 0.19 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[11] 1,3-DNB was detected at 0.07 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[12] 2,4,6-TNT was detected at 0.12 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

[13] 1,3-DNB was detected at 0.26 mg/kg by the primary 8330 analysis but this was not detected by confirmational analysis. ELC 1/9/8

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SAMPLE SUMMARY

Workorder 9716422 UUL001|USACE MMRP SI FTIG

Discard Date: 03/09/2008

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9716422001	FITG1SSD01	Solid	12/20/07 09:40	12/20/07 17:30	Scott Pitz
9716422002	FITG1SSC02	Solid	12/20/07 09:10	12/20/07 17:30	Scott Pitz
9716422003	FITG1SSD03	Solid	12/20/07 08:40	12/20/07 17:30	Scott Pitz
9716422004	FITG1SSD04	Solid	12/18/07 14:45	12/20/07 17:30	Scott Pitz
9716422005	FITG1SSC05	Solid	12/18/07 14:15	12/20/07 17:30	Scott Pitz
9716422006	FITG1SSD06	Solid	12/18/07 13:30	12/20/07 17:30	Scott Pitz
9716422007	FITG1SSD07	Solid	12/19/07 12:10	12/20/07 17:30	Scott Pitz
9716422008	FITG1SSC08	Solid	12/19/07 12:55	12/20/07 17:30	Scott Pitz
9716422009	FITG1SSD09	Solid	12/19/07 13:15	12/20/07 17:30	Scott Pitz
9716422010	FITG1SSD10	Solid	12/20/07 13:30	12/20/07 17:30	Scott Pitz
9716422011	FITG1SSC11	Solid	12/20/07 12:15	12/20/07 17:30	Scott Pitz
9716422012	FITG1SSD12	Solid	12/20/07 12:45	12/20/07 17:30	Scott Pitz
9716422013	FITG1SSC11D	Solid	12/20/07 12:15	12/20/07 17:30	Scott Pitz

Workorder Comments:

Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference

Report ID: 9716422

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Environmental • Industrial Hygiene • Field Services
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 1 of 2

Courier:

Tracking #:

9716422

Co. Name: URS Corp.
Contact (Report to): Bill Eaton
Phone: 301-258-5804
Address: 200 Orchard Ridge Dr
Gaithersburg MD 20878

Bill to (if different than Report to):
PO#: 15298911

Project Name/#: FITG MMRP
ALSI Quote #:

TAT: ✓ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By: SP

Email? ✓ Y
Fax? ☐ Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Explosives	Hg and Pb only	TS
1 FITG1SS D01		12/20/07	0940	G	SO	1	~~1~~	~~1~~
2 FITG1SS C02		12/20/07	0910	C		1	~~1~~	~~1~~
3 FITG1SS D03		12/20/07	0840	G		1	~~1~~	~~1~~
4 FITG1SS D04		12/19/07	1445	G		2	~~2~~	~~2~~
5 FITG1SS C05		12/19/07	1415	C		2	~~2~~	~~2~~
6 FITG1SS D06		12/19/07	1330	G		2	~~2~~	~~2~~
7 FITG1SS D07		12/19/07	1210	G		1	~~1~~	~~1~~
8 FITG1SS C08		12/19/07	1255	C		1	~~1~~	~~1~~

Enter Number of Containers Per Analysis

	Container Type	Container Size	Preservative
1	jar	8oz	NA
2	jar	8oz	N/A
3	jar	8oz	NA

ANALYSES/METHOD REQUESTED

Receipt Information (completed by Sample Receiving)
Performed by: Initial Here
Cooler Temp: 4
Therm. ID: 5103355
No. of Coolers:
Notes:

Circle appropriate Y or N.	Y	N	N	Y
Correct containers?	Y	N	N	Y
Correct sample volume?	Y	N	N	Y
Correct preservation?	Y	N	N	Y
Headspace/Volatilion?	Y	N	N	Y
Custody seals Present?	Y	N	N	Y
(if present) Seals intact?	Y	N	N	Y
Received on Ice?	Y	N	N	Y
COC/Labels complete/accurate?	Y	N	N	Y
Container in good condition?	Y	N	N	Y

SAMPLED BY (Please Print): Scott Pitz
LOGGED BY (signature): DATE 12/20/07 TIME 1824
REVIEWED BY (signature): J. Keller DATE 12/24/07 TIME 0938

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/20/07	1700	2		
3	12/20/07	1730	4	12/20/07	1730
5			6		
7			8		
9			10		

Data Deliverables: ✓ Standard; ✓ CLP-like; NJ-Reduced; NJ-Full; DOD
SDWA format? State Samples Collected in? MD ☐ NJ ☐ NY ☐ PA ✓
EDDs Required? ✓ If yes, format type: Other: Excel + ERIS
DOD Criteria Required? DoD QSM v.3

ALSI FIELD SERVICES: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:

* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250mL, 500mL, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

Copies: WHITE - ORIGINAL CANARY - CUSTOMER COPY
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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Page 2 of 2

Courier:

Tracking #:

COC# 9716422

Co. Name: URS Corp.

Contact (Report to): Bill Eaton

Phone: 301-258-5804

Address: 200 Orchard Ridge Dr
Gaithersburg MD 20878

Bill to (if different than Report to):

PO#: 1529 8911

Project Name/#: FITG MMRP

ALSI Quote #:

TAT: Normal-Standard TAT is 10-12 business days. Rush-Subject to ALSI approval and surcharges.

Date Required:

Approved By:

Email? Y bill_eaton@urscorp.com

Fax? Y No.:

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time	*G or C	**Matrix	Explosives	Hg and Pb only	TS															
***Container Type						Jar	Jar	Jar															
***Container Size						8oz	8oz	8oz															
*** Preservative						NA	NA	NA															
9 1 FITG 155 D09		12/20/07	1315	G	SO	1	+	+															
10 2 FITG 155 D10		12/20/07	1330	G		1	+	+															
11 3 FITG 155 C11		12/20/07	1215	C		3+	+	+															
13 4 FITG155C11D		12/20/07	1215	C		+	+	+															
5 FITG155C11MSD	← MS/MSD per Andrea Sanson JLK 12/21/07	12/20/07	1215	C		+	+	+															
12 6 FITG155D12		12/20/07	1245	G		1	+	+															
7																							
8																							

Enter Number of Containers Per Analysis

Receipt Information (completed by Sample Receiver)

Performed In: INTAKE NOE

Cooler Temp: 4

Therm. ID: 5107 2559

No. of Coolers:

Notes:

	Correct containers?	Correct sample volume?	Correct preservation?	Headspace/Volatiles?	Circle appropriate Y or N.
	Y	Y	Y	Y	
	Y	Y	N	N	N
	Y	Y			

	Custody seals Present? (If present) Seals intact?	Received on Ice?	COC/Labels complete/accurate?	Container in good condition?
	Y	Y	Y	Y

SAMPLED BY (Please Print): Scott Pitt

LOGGED BY (signature): DATE 12/20/07 TIME 1800

REVIEWED BY (signature): J. Kester DATE 12/26/07 TIME 0828

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	12/20/07	1700	2		
3	12/20/07	1730	4	12/20	1730
5			6		
7			8		
9			10		

Data Deliverables: Standard; CLP-like; NJ-Reduced; NJ-Full; DOD

EDDs Required? If yes, format type: Excel + ERIS

SDWA Samples? yes

State Samples Collected In? MD; NJ; NY; PA ✓

Other

DOD Criteria Required? DOD QSM 1.3

ALSI FIELD SERVICES: Pickup; Labor; Composite Sampling; Rental Equipment; Other:

* G=Grab; C=Composite

**Matrix: A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.

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Data Qualifying Codes

Two types of data qualifying codes or flags are applied in the course of the data review. The data validation flags indicate data that are not usable for decision-making, more than normally biased and/or variable, or not representative of field conditions. These codes and their definitions are presented below in the hierarchy stipulated in the USEPA Region III Modifications to the National Functional Guidelines for Data Review (Organic, January 2005 or Inorganic, October 2004).

Data Validation Flags

Flag	Interpretation
R	Unreliable result. Analyte may or may not be present in the sample. Supporting data necessary to confirm result.
U	Not detected. The associated number indicates the approximate sample concentration is necessary to be detected.
B	Not detected substantially above the level reported in laboratory or field blanks.
N	Tentative Identification. Consider present. Special methods may be needed to confirm its presence or absence in future sampling efforts.
J	Analyte present. Reported value may not be accurate or precise.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
UJ	Not detected, quantitation limit may be inaccurate or imprecise.
UL	Not detected, quantitation limit is probably higher.
NT	Not tested, no analytical result provided.

The other type of code used by URS is a "Reason Code". The reason code indicates the type of quality control failure that led to the application of the data validation flag.

Reason Codes

GC/MS Organics		GC and HPLC Organics		Inorganics and Conventionals	
Code	Interpretation	Code	Interpretation	Code	Interpretation
a	Incorrect or incomplete analytical sequence	a	Incorrect or incomplete analytical sequence	a	Incorrect or incomplete analytical sequence
b	Bubble found in vial >6mm	b	Instrument performance failure	b	Laboratory duplicate imprecision
c	Calibration failure; poor or unstable response	c	Calibration failure; poor or unstable response	c	Calibration failure
d	MS/MSD imprecision	d	MS/MSD imprecision	d	MS/MSD imprecision
e	LCSD imprecision	e	LCSD imprecision	e	LCSD imprecision
f	Field duplicate imprecision	f	Field duplicate imprecision	f	Field duplicate imprecision
g	Tuning failure or poor mass spec performance	g	Dual column confirmation imprecision	g	Duel isotope imprecision
h	Holding time violation	h	Holding time violation	h	Holding time violation
i	Internal standard failure	i	Internal standard failure	j	Vial Headspace
k	Cooler receipt temperature exceeds limits	k	Cooler receipt temperature exceeds limits	k	Cooler receipt temperature exceeds limits
l	LCS recovery failure	l	LCS recovery failure	l	LCS recovery failure
m	MS/MSD recovery failure	m	MS/MSD recovery failure	m	MS/MSD recovery failure
p	Poor chromatography	p	Poor chromatography	n	ICS failure
q	Concentration exceeded the linear range	q	Concentration exceeded the linear range	o	Calibration blank contamination
r	Linearity failure in initial calibration	r	Linearity failure in initial calibration	p	Preparation blank contamination
s	Surrogate failure	s	Surrogate failure	q	Concentration exceeded the linear range
t	TIC	u	No confirmation column	r	Linearity failure in calibration or MSA
w	Identification criteria failure	w	Retention time failure	s	Serial dilution failure
x	Field blank contamination	x	Field blank contamination	u	BOD minimum depletion did not exceed 2mg/L
y	Trip blank contamination	z	Method blank contamination	v	Post-digestion spike failure
z	Method blank contamination			w	CRDL Standard Failure
				x	Field blank contamination

Appendix D

MRSPP Summary Table and Worksheets

MRSPP Summary Fort Indiantown Gap, Pennsylvania				
Site	Module Priority Scores			**Overall Priority**
	Explosive Hazard Evaluation	Chemical Hazard Evaluation	Human Hazard Evaluation	
Richochet Area	2	No Known or Suspected CWM Hazard	No Known or Suspected HHE Hazard	**2**

Table A

MRS Background Information

DIRECTIONS: Record the background information below for the MRS to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the **MRS Summary**, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g., benzene, trichloroethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name:	**Ricochet Area (FTIG-003-R-01). MRSPP Score = 3**
Component:	US Army
Installation/Property Name:	**Fort Indiantown Gap**
Location (City, County, State):	Annville, PA
Site Name/Project Name (Project No.):	Ricochet Area / Fort Indiantown Gap MMRP SI (W912DR-06-C-0028; WO 0001AC)
Date Information Entered/Updated:	1-May-2008
Point of Contact (Name/Phone):	Bill Eaton; URS Group, Inc. (301-258-9780)

Project Phase ("X" only one):										
		PA	**X**	**SI**		**RI**		**FS**		**RD**
		RA-C		**RIP**		**RA-O**		**RC**		**LTM**

Media Evaluated ("X" all that apply):				
		Groundwater		**Sediment (human receptor)**
	X	**Surface soil**		**Surface water (ecological receptor)**
		Sediment (ecological receptor)		**Surface water (human receptor)**

MRS Summary:

MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the UXO, DMM, or MC known or suspected to be present. When possible, identify munitions, CWM, and MC by type:

The Ricochet Area encompasses 8,002 acres and is located entirely on property owned by the Pennsylvania Game Commission, immediately adjacent to and north of FTIG. As discussed in Section 2.3, four areas within the Ricochet Area are: Area A—Location where inert 75mm projectiles were found; Area B—Location where inert 105mm tank projectiles were found; Area C—Location where inert illumination canisters were found; and Area D—Location where a live 75mm WWII HE Sherman tank round was found.

Also entirely within the Ricochet Area is the Cold Spring Range Fan which served as an artillery firing point. Section 2.3 states that, although the Cold Spring Range Fan target area is not confirmed, it is reasonable that the target area may have been south of Second Mountain and coincident with the current FTIG impact area. The estimated active years for the Cold Spring Range are from 1940 to 1970 and the associated munitions types were 60mm, 81mm, and 4.2-inch mortars; and projectiles with the following diameters: 105mm, 155mm, and 8-inch. (Section 2.3).

Description of Pathways for Human and Ecological Receptors:

As discussed in Section 4.2.9, the SI has not confirmed the presence of MC, therefore, the available data indicate there are no MC exposure pathways.

As discussed in Section 4.2.9, potentially complete MEC exposure pathways include biota and Game Land User direct contact with surface and subsurface MEC via intrusive activities such as digging and handling or walking upon.

Description of Receptors (Human and Ecological):

Human receptors includes the general public who has access to all portions of the Ricochet Area. Ecologic receptors include birds and terrestrial small mammals, invertebrates, and various plant species.

Table 1
EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Annotate the score(s) that correspond with **all** munitions types known or suspected to be present at the MRS.

Note: The terms *practice munitions* , *small arms ammunition* , *physical evidence* , and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
Sensitive	♦ UXO that are considered most likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorous [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). ♦ Hand grenades containing energetic filler. ♦ Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard.	30	30
High explosive (used or damaged)	♦ UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." ♦ DMM containing a high-explosive filler that have: ■ Been damaged by burning or detonation ■ Deteriorated to the point of instability.	25	25
Pyrotechnic (used or damaged)	♦ UXO containing pyrotechnic fillers other than white phosphorous (e.g., flares, signals, simulators, smoke grenades). ♦ DMM containing pyrotechnic fillers other than white phosphorous (e.g., flares, signals, simulators, smoke grenades) that have: ■ Been damaged by burning or detonation ■ Deteriorated to the point of instability.	20	
High explosive (unused)	♦ DMM containing a high-explosive filler that have not been damaged by burning or detonation, or are not deteriorated to the point of instability.	15	
Propellant	♦ UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ♦ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: ■ Damaged by burning or detonation ■ Dteriorated to the point of instability.	15	
Bulk secondary high explosives, pyrotechnics, or propellant	♦ DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). ♦ DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10	
Pyrotechnic (not used or damaged)	♦ DMM containing a pyrotechnic filler (i.e. red phosphorous), other than white phosphorous filler, that have not been damaged by burning or detonation, or are not deteriorated to the point of instability.	10	
Practice	♦ UXO that are practice munitions that are not associated with a sensitive fuze. ♦ DMM that are practice munitions that are not associated with a sensitive fuze and that have not: ■ Been damaged by burning or detonation ■ Deteriorated to the point of instability.	5	5
Riot control	♦ UXO or DMM containing a riot control agent filler (e.g., tear gas).	3	
Small arms	♦ Used munitions or DMM that are categorized as small arms ammunition [Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.].	2	
Evidence of no munitions	♦ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0	
MUNITIONS TYPE	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).		**30**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Munitions Type*** classifications in the space provided.

Although no MEC was confirmed during the SI field program, historical information discussed in Section 2.3 confirms the following:
1) A live 75mm WWII Sherman Tank round was found within the Ricochet Area MRS and was blown in place. This type of munition is a High Explosive AntiTank (HEAT) round which results in a "sensitive" classification (score of 30).
2) 60mm, 81mm and 4.2-inch mortars containing high explosives such as RDX (and white phosphorous-filled 4.2-inch mortars), historically may have ricocheted into the Richochet Area MRS, resulting in a "High Explosive (used or damaged)" classification (score of 25).
3) 75mm and 105mm inert training projectiles historically ricocheted over Second Mountain and into the Ricochet Area MRS. These are practice rounds which result in a "practice" classification (score of 5).

Table 2

EHE Module: Source of Hazard Data Element Table

DIRECTIONS: Below are 11 classifications describing sources of explosive hazards. Annotate the score(s) that correspond with **all** sources of explosive hazards known or suspected to be present at the MRS.

Note: The terms *former range* , *practice munitions* , *small arms range* , *physical evidence* , and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
Former range	♦ The MRS is a former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include: impact or target areas and associated buffer and safety zones.	10	10
Former munitions treatment (i.e. OB/OD) unit	♦ The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8	
Former practice munitions range	♦ The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	6	6
Former maneuver area	♦ The MRS is a former maneuver area where no munitions other than flares, simulators, smokes, and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5	
Former burial pit or other disposal area	♦ The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5	
Former industrial operating facilities	♦ The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4	
Former Firing Points	♦ The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4	4
Former missile or air defense artillery emplacements	♦ The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2	
Former storage or transfer points	♦ The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2	
Former small arms range	♦ The MRS is a former military range where only small arms ammunition was used (There must be evidence that no other types of munitions [e.g., grenades] were used or are present to place an MRS iinto this category.)	1	
Evidence of no munitions	♦ Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	0	
SOURCE OF HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 10).		**10**

DIRECTIONS: Document any MRS-specific data used in selecting the **Source of Hazard** classifications in the space provided.

The firing point for the Cold Spring Range Fan was located within the Ricochet Area MRS. Also, inert practice rounds (75mm and 105mm; See Section 2.3 discussion) are confirmed to have ricocheted into this MRS from a firing point located south of Second Mountain. It cannot be confirmed that all historic ricochets were inert. A live 75mm WWII Sherman Tank Round was found in the MRS and was blown in place. The source/origin of this tank round is not known.

Table 3
EHE Module: Location of Munitions Data Element Table

DIRECTIONS: Below are eight classifications of munitions locations and their descriptions. Annotate the score(s) that correspond with **all** locations where munitions are located or suspected of being found at the MRS.

Note: The terms *confirmed, surface , subsurface, small arms ammunition, physical evidence* , and *historical evidence* are defined in Appendix C of the Primer .

Classification	Description	Possible Score	Score
Confirmed surface	♦ Physical evidence indicates that there are UXO or DMM on the surface of the MRS. ♦ Historical evidence (i.e., a confirmed incident report such as an explosive ordnance disposal [EOD], police, or fire department report that an incident or accident that invovled UXO or DMM occured) indicates there are UXO or DMM on the surface of the MRS.	25	25
Confirmed subsurface, active	♦ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS; and, the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM. ♦ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS; and, the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	20	
Confirmed subsurface, stable	♦ Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS; and, the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. ♦ Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS; and, the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15	
Suspected (physical evidence)	♦ There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10	
Suspected (historical evidence)	♦ There is historical evidence indicating that UXO or DMM may be present at the MRS.	5	5
Subsurface, physical constraint	♦ There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2	
Small arms (regardless of location)	♦ The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1	
Evidence of no munitions	♦ Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0	
LOCATION OF MUNITIONS	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 25).		**25**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Location of Munitions*** classifications in the space provided.

As discussed in section 2.4, and justifying a score of 25, is the following 1997 FTIG incident. During reconnisance within the Ricochet Area to look for rounds that had skipped over Second Mountain, a fisherman was encountered who directed the reconnisance team (Colonel Neatrour, 1st Sarget Snyder, Jim McDonald, and Greg Spencer with the PA Game Commission) to a 105mm HE round that had been fired with the shipping cap in place, lying about 5 meters from Stony Creek. The round was brought to the EOD Demo range and destroyed (incident No. 56-105-97). The 756th EOD unit (based at FTIG at the time of the incident) was the respondent.

Also, a reported surface munition location is the WII Sherman Tank round discovered by hikers (URS, 2007).

Suspected (historical evidence) of UXO or DMM consists of the knowledge that inert projectiles ricocheted over Second Mountain during the mid-1990's and the possibility that ricochets occurred prior to the mid-1990s, justifying a score of 5.

Table 4
EHE Module: Ease of Access Data Element Table

DIRECTIONS: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Annotate the score that corresponds with the ease of access to the MRS.

Note: The term *barrier* is defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
No barrier	♦ There is no barrier preventing access to any part of the MRS (i.e. all parts of the MRS are accessible).	10	10
Barrier to MRS access is incomplete	♦ There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8	
Barrier to MRS access is complete but not monitored	♦ There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5	
Barrier to MRS access is complete and monitored	♦ There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	0	
EASE OF ACCESS	**DIRECTIONS:** Record **<u>the single highest score</u>** from above in the box to the right (maximum score = 10).		**10**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ease of Access*** classification in the space provided.

The MRS is located within Pennsylvania State Game lands No. 211. The general public has access to all portions of this MRS via roads and established hiking trails. There are no barriers to public access to the MRS, justifying a score of 10.

Table 5
EHE Module: Status of Property Data Element Table

DIRECTIONS: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Annotate the score that corresponds with the status of property at the MRS.

Classification	Description	Possible Score	Score
Non-DoD control	♦ The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and, land or water bodies managed by other federal agencies.	5	5
	♦ The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.		
Scheduled for transfer from DoD control	♦ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3	
DoD control	♦ The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 24 hours per day, every day of the calendar year.	0	
STATUS OF PROPERTY	**DIRECTIONS:** Record **<u>the single highest score</u>** from above in the box to the right (maximum score = 5).		**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Status of Property*** classification in the space provided.

The MRS is located entirely within Pennsylvania State Game lands No. 211 which is managed by the Pennsylvania Game Commission. There is non-DoD control of this MRS, justifying a score of 5.

Table 6

EHE Module: Population Density Data Element Table

DIRECTIONS: Below are three classifications of population density and their descriptions. Determine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Annotate the most appropriate score.

Note: Use the U.S. Census Bureau tract data available to capture the **highest** population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Possible Score	Score
> 500 persons per square mile	♦ There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5	
100 - 500 persons per square mile	♦ There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3	
< 100 persons per square mile	♦ There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1	1
POPULATION DENSITY	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).		**1**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Density*** classification in the space provided.

The 2000 Census reports a population density of 4.5 people per square mile for FTIG. FTIG overlaps Census Tract 42043-0245.02.

http://factfinder.census.gov/servlet/GCTTable?_bm=y&-context=gct&-ds_name=DEC_2000_SF1_U&-mt_name=DEC_2000_SF1_U_GCTPH1_ST7&-CONTEXT=gct&-tree_id=4001&-geo_id=04000US42&-format=ST-7|ST-7S&-_lang=en

This corresponds to fewer than 100 people per square mile. Accordingly, a score of 1 is selected for the population density data element.

Table 7
EHE Module: Population Near Hazard Data Element Table

DIRECTIONS: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the hazard. Determine the number of inhabited structures within two miles of the MRS boundary and annotate the score that corresponds with the number of inhabited structures.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
26 or more inhabited structures	♦ There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	5	5
16 to 25 inhabited structures	♦ There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4	
11 to 15 inhabited structures	♦ There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3	
6 to 10 inhabited structures	♦ There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2	
1 to 5 inhabited structures	♦ There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1	
0 inhabited structures	♦ There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	0	
POPULATION NEAR HAZARD	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).		**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Population Near Hazard*** classification in the space provided.

More than 25 occupied structures are present within two miles of the southern corners of the Ricochet Area MRS, as discussed in Section 4.2.2.

Table 8

EHE Module: Types of Activities/Structures Data Element Table

DIRECTIONS: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and annotate the score(s) that correspond with **all** the activities/structure classifications at the MRS.

Note: The term *inhabited structures* is defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
Residential, educational, commercial, or subsistence	♦ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	5	5
Parks and recreational areas	♦ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	4	4
Agricultural, forestry	♦ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3	3
Industrial or warehousing	♦ Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2	
No known or recurring activities	♦ There are no known or recurring activities occurring up to two miles from the MRS's boundary or within the MRS's boundary.	1	
TYPES OF ACTIVITIES/STRUCTURES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).		**5**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Types of Activities/Structures*** classifications in the space provided.

The Ricochet Area is located within the Pennsylvania State Game Lands 211 which involves forestry activities and activities consistent with a park or recreational area (justifying scores of 4 and 3).

Also, residential structures are located within two miles of the southeast and southwest corners of the MRS (see Section 4.2.2 discussion), increasing the liklihood that residences could congregate on or within a two mile radius of the MRS (justifying a score of 5).

Table 9

EHE Module: Ecological and/or Cultural Resources Data Element Table

DIRECTIONS: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and annotate the score that corresponds with the ecological and/or cultural resources present on the MRS.

Note: The terms *ecological resources* and *cultural resources* are defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
Ecological and cultural resources present	There are both ecological and cultural resources present on the MRS.	5	
Ecological resources present	There are ecological resources present on the MRS.	3	
Cultural resources present	There are cultural resources present on the MRS.	3	3
No ecological or cultural resources present	There are no ecological resources or cultural resources present on the MRS.	0	
ECOLOGICAL AND/OR CULTURAL RESOURCES	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 5).		**3**

DIRECTIONS: Document any MRS-specific data used in selecting the ***Ecological and/or Cultural Resources*** classification in the space provided.

To date, no federally listed threatened or endangered species have been identified within the MRS; therefore, per Army MRSPP Guidelines, ecological resources were not selected for this data element. All other ecological concerns are documented within Section 4.2.6 of the SI Report and will be addressed fully in future actions within the site. Cultural resources considered for this site are: The Appalachian Trail, Historical Landmarks associated with the former Cold Spring Resort, and Seasonal Hunting. Cultural Resources are further documented in Section 4.2.2 of the SI Report.

Table 10

Determining the EHE Module Rating

DIRECTIONS:

1. From Tables 01 - 09, record the data element scores in the **Score** boxes to the right.

2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.

3. Add the three **Value** boxes and record this number in the **EHE Module Total** box below.

4. Circle the appropriate range for the **EHE Module Total** below.

5. Circle the **EHE Module Rating** that corresponds to the range selected and record this value in the **EHE Module Rating** box found at the bottom of this table.

NOTE: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

	Source	Score	Value
Explosive Hazard Factor Data Elements			
Munitions Type	Table 1	30	40
Source of Hazard	Table 2	10	
Accessibility Factor Data Elements			
Location of Munitions	Table 3	25	40
Ease of Access	Table 4	10	
Status of Property	Table 5	5	
Receptor Factor Data Elements			
Population Density	Table 6	1	14
Population Near Hazard	Table 7	5	
Types of Activities/Structures	Table 8	5	
Ecological and/or Cultural Resources	Table 9	3	
EHE MODULE TOTAL			**94**

EHE Module Total	EHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected Explosive Hazard
EHE MODULE RATING	**A**

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Annotate the score(s) that correspond to **all** CWM configurations known or suspected to be present at the MRS.

Note: The terms *CWM/UXO*, *CWM/DMM*, *physical evidence*, and *historical evidence* are defined in Appendix C of the Primer.

Classification	Description	Possible Score	Score
CWM, that are either UXO, or explosively configured, damaged DMM	The CWM known or suspected of being present at the MRS are: ♦ CWM that are UXO (i.e. CWM/UXO) ♦ Explosively configured CWM that are DMM (i.e. CWM/DMM) that have been damaged.	30	
CWM mixed with UXO	♦ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25	
CWM, explosive configuration that are undamaged DMM	♦ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20	
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: ♦ Nonexplosively configured CWM/DMM either damaged or undamaged ♦ Bulk CWM (e.g., ton container).	15	
CAIS K941 and CAIS K942	♦ The CWM/DMM known or suspected of being present at the MRS is CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11.	12	
CAIS (chemical agent identification sets)	♦ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10	
Evidence of no CWM	♦ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	0	0
CWM CONFIGURATION	**DIRECTIONS:** Record **the single highest score** from above in the box to the right (maximum score = 30).		**0**

DIRECTIONS: Document any MRS-specific data used in selecting the ***CWM Configuration*** classifications in the space provided.

The HRR report (URS, 2007a) discovered no evidence of CWM.

Tables 12 through 19 are intentionally omitted according to Active-Army Guidance because there is evidence of no CWM at this MRS.

Table 20

Determining the CHE Module Rating

DIRECTIONS:

1. From Tables 11 - 19, record the data element scores in the **Score** boxes to the right.

2. Add the **Score** boxes for each of the three factors and record this number in the **Value** boxes to the right.

3. Add the three **Value** boxes and record this number in the **CHE Module Total** box below.

	Source	Score	Value
CWM Hazard Factor Data Elements			
CWM Configuration	Table 11	0	0
Sources of CWM	Table 12	0	
Accessibility Factor Data Elements			
Location of CWM	Table 13	0	0
Ease of Access	Table 14	0	
Status of Property	Table 15	5	
Receptor Factor Data Elements			
Population Density	Table 16	0	0
Population Near Hazard	Table 17	0	
Types of Activities/Structures	Table 18	0	
Ecological and/or Cultural Resources	Table 19	0	
CHE MODULE TOTAL			**0**

4. Circle the appropriate range for the **CHE Module Total** below.

5. Circle the **CHE Module Rating** that corresponds to the range selected and record this value in the **CHE Module Rating** box found at the bottom of this table.

NOTE: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

CHE Module Total	CHE Module Rating
92 to 100	A
82 to 91	B
71 to 81	C
60 to 70	D
48 to 59	E
38 to 47	F
less than 38	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected CWM Hazard
CHE MODULE RATING	**No Known or Suspected CWM Hazard**

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's groundwater and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional groundwater contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Contaminant [CAS No.]	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios
		Total from Table 27	
		Sum the Ratios	

CHF Scale	CHF Value
CHF > 100	**H (High)**
100 > CHF >2	**M (Medium)**
2 > CHF	**L (Low)**

CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])

CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the groundwater migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to geological structures or physical controls).	L

MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the groundwater receptors at the MRS.

Classification	Description	Value
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L

RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	
Place an "X" in the box to the right if there is no known or suspected Groundwater MC Hazard		**X**

Table 22

HHE Module: Surface Water - Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard with human endpoints present in the surface water, select the box at the bottom of the table.

Contaminant [CAS No.]	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios
		Total from Table 27	
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])**	
100 > CHF >2	**M (Medium)**		
2 > CHF	**L (Low)**		

CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to presence of geological structures or physical controls).	L

MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L

RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Place an "X" in the box to the right if there is no known or suspected Surface Water (Human Endpoint) MC Hazard	**X**

Table 23

HHE Module: Sediment - Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard for human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant [CAS No.]	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
		Total from Table 27	
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**		
100 > CHF >2	**M (Medium)**	**CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])**	
2 > CHF	**L (Low)**		

CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).	

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to presence of geological structures or physical controls).	L

MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L

RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	
Place an "X" in the box to the right if there is no known or suspected Sediment (Human Endpoint) MC Hazard		**X**

Table 24

HHE Module: Surface Water - Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface water and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface water contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard for ecological endpoints present in the surface water, select the box at the bottom of the table.

Note: Use either dissolved or total metals analyses.

Contaminant [CAS No.]	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios
CHF Scale		Total from Table 27	
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])**	
100 > CHF >2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface water migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface water receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.	L
RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Place an "X" in the box to the right if there is no known or suspected Surface Water (Ecological Endpoint) MC Hazard	**X**

Table 25

HHE Module: Sediment - Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's sediment and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the **ratios** together, including any additional sediment contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard for ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant [CAS No.]	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
		Total from Table 27	
CHF Scale	**CHF Value**	**Sum the Ratios**	
CHF > 100	**H (High)**	**CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])**	
100 > CHF >2	**M (Medium)**		
2 > CHF	**L (Low)**		
CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).		

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the sediment migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to presence of geological structures or physical controls).	L
MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the sediment receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.	L
RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	

Place an "X" in the box to the right if there is no known or suspected Sediment (Ecological Endpoint) MC Hazard	**X**

Table 26

HHE Module: Surface Soil - Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the **maximum concentrations** of all contaminants in the MRS's surface soil and their **comparison values** (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the **ratios** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** by adding the contaminant **ratios** together, including any additional surface soil contaminants recorded on Table 27. Based on the **CHF**, use the **CHF Scale** to determine and record the **CHF Value**. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

Contaminant [CAS No.]	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios
Lead [7439-92-1]	163	450.00	0.36
		Total from Table 27	
		Sum the Ratios	0.36

CHF Scale	CHF Value
CHF > 100	H (High)
100 > CHF >2	M (Medium)
2 > CHF	L (Low)

CHF = ∑ ([Max Conc of Contaminant] / [Comparison Value for Contaminant])

CONTAMINANT HAZARD FACTOR	Directions: Record **the CHF Value** from above in the box to the right (maximum value = H).	**L**

Migratory Pathway Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface soil migratory pathway at the MRS.

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.	H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e. tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to presence of geological structures or physical controls).	L

MIGRATORY PATHWAY FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	**L**

Receptor Factor

DIRECTIONS: Annotate the value that corresponds most closely to the surface soil receptors at the MRS.

Classification	Description	Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.	H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.	M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.	L

RECEPTOR FACTOR	Directions: Record **the single highest value** from above in the box to the right (maximum value = H).	**L**

Place an "X" in the box to the right if there is no known or suspected Surface Soil MC Hazard	

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the **media** in which these contaminants are present. Then record all **contaminants**, their **maximum concentrations** and their **comparison values** (from Appendix B of the Primer) in the table below. Calculate and record the **ratio** for each contaminant by dividing the **maximum concentration** by the **comparison value**. Determine the **CHF** for each medium on the appropriate media-specific tables.

Note: Do not to add ratios from different media.

Media	Contaminant [CAS No.]	Maximum Concentration	Units		Units	Ratios
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
Surface soil			mg/kg		mg/kg	
				SUBTOTAL FOR SURFACE SOIL		**0**
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
Sediment			mg/kg		mg/kg	
				SUBTOTAL FOR SEDIMENT		**0**
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
Surface water			µg/L		µg/L	
				SUBTOTAL FOR SURFACE WATER		**0**
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
Groundwater			µg/L		µg/L	
				SUBTOTAL FOR GROUNDWATER		**0**

Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the **Contaminant Hazard**, **Migration Pathway**, and **Receptor Factors** for the media (from Tables 21 - 26) in the corresponding boxes below.
2. Record the media's three-letter combinations in the **Three-Letter-Combination** boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the HHE ratings provided below, determine each medium's rating (A - G) and record the letter in the corresponding **Media Rating** box below.

Medium (Source)	Contaminant Hazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A - G)
Table 21 - Groundwater					
Table 22 - Surface Water (Human Endpoint)					
Table 23 - Sediment (Human Endpoint)					
Table 24 - Surface Water (Ecological Endpoint)					
Table 25 - Sediment (Ecological Endpoint)					
Table 26 - Surface Soil	L	L	L	LLL	G
			HHE MODULE RATING		**No Known or Suspected MC Hazard**

The detected lead concentrations are all well below the PADEP direct contact and soil to groundwater screening levels. Also, as discussed 3.2 (page 3-9), the lead results do not indicate that a release of MC occurred. Therefore, NFA for MC is being recommended for the site. The NFA recommendation results in an alternative score of no known or suspected hazard.

DIRECTIONS (Continued):

4. Select the single highest **Media Rating** (A is the highest; G is the lowest) and enter the letter in the **HHE Module Rating** box below.

HHE Ratings (for reference only)	
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G

NOTE: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

Alternative Module Ratings
Evaluation Pending
No Longer Required
No Known or Suspected MC Hazard

Table 29

MRS Priority

DIRECTIONS: In the chart below, enter the letter **rating** for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Enter the corresponding numerical **priority** for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS priority is the single highest priority; record this relative priority in the **MRS Priority or Alternative MRS Rating** at the bottom of the table.

NOTE: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	1		
A	2	B	2	A	2
B	3	C	3	B	3
C	4	D	4	C	4
D	5	E	5	D	5
E	6	F	6	E	6
F	7	G	7	F	7
G	8			G	8
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
No Known or Suspected Explosive Hazard		No Known or Suspected CWM Hazard		No Known or Suspected MC Hazard	

Reference Table 10:		Reference Table 20:		Reference Table 28:	
EHE Module Rating	Priority	CHE Module Rating	Priority	HHE Module Rating	Priority
A	2	No Known or Suspected CWM Hazard	No Known or Suspected CWM Hazard	No Known or Suspected MC Hazard	No Known or Suspected MC Hazard

MRS Priority or Alternative MRS Rating	2

Appendix E

Technical Project Planning 3 Meeting Minutes

FTIG TPP3
MEETING MINUTES

PURPOSE: Technical Project Planning (TPP) Meeting 3, Fort Indiantown Gap, PA Military Munitions Response Program Site Inspection (MMRP SI)

LOCATION: Conference Call

DATE: 28 July 2008

TIME: 1000 – 1100

Attendees	Organization	Phone	E-mail
Gary Moulder	PADEP	717-787-7566	gmoulder@state.pa.us
Laura Paugh	USAEC	410-436-1531	laura.paugh@us.army.mil
Kim Gross	USACE, Baltimore District	410-962-6735	kimberly.u.gross@usace.army.mil
Kim Harriz	NGB-ARNG	703-607-7991	kim.harriz@us.army.mil
Scott Weber	USAEC (ICI Services, LLC)	410-436-1614	scott.weber3@us.army.mil
Joan ('Jo') Anderson	FTIG	717-861-9414	joaanderso@state.pa.us
Bill Eaton	URS	301-258-5804	bill_eaton@urscorp.com

I. Introduction of Meeting Attendees and Introductory Remarks

- Mr. Eaton identified the attendees to the conference call.
- He reminded all that the purpose of the meeting was to discuss the findings of the SI field program, including MC, MEC and MRSPP findings, and SI recommendations.
- He indicated that his discussion of the project background and project findings & recommendations would follow the format of the PowerPoint TPP3 presentation distributed to all prior to the meeting. By reference to the PowerPoint presentation the following meeting agenda items were identified:
  1. TPP3 Meting Agenda
  2. MMRP SI Goals Overview
  3. MMRP Policy Review
  4. TPP3 Meeting Objectives
  5. SI Findings and Recommendations for the FTIG MRS
  6. Summary and Discussion

II. MMRP SI Goals Overview – Presented by Mr. Eaton

The following primary and secondary goals were identified:

- **Primary Goals:** For each MRS, determine one of the following requirements:
  1. Remedial Investigation (RI) and Feasibility Study (FS)
  2. Interim Response (i.e., removal action)
  3. No Further Action (NFA)
- **Secondary Goals:**
  1. Collect necessary information required to improve Cost to Complete (CTC) estimate of the remediation of the MMRP site.
  2. Develop information for, and run the MRS Prioritization Protocol (MRSPP).

III. MMRP Policy Review – Presented by Mr. Eaton
Mr. Eaton referred the attendees to page 4 of the PowerPoint presentation for a list of the MMRP Policy items.

IV. TPP3 Meeting Objectives – Presented by Mr. Eaton
Mr. Eaton identified the following TPP3 meeting objectives:

- Provide summary of SI findings
- Provide summary of SI recommendations and reach consensus
- Discuss and resolve stakeholder comments

V. Reviewed SI Findings – Presented by Mr. Eaton with Interactive Discussions
Mr. Eaton discussed the SI findings for the following FTIG MRS:

- Ricochet Area

<u>Ricochet Area</u>
Mr. Eaton described this MRS, emphasizing the following characteristics:

- It entirely encompasses the Cold Spring Range Fan and is located adjacent to and entirely north of FTIG
- The SI focused on four areas within this MRS:
    - Area A: Inert 75mm projectiles area
    - Area B: Inert 105mm tank projectiles area
    - Area C: Inert illumination canisters area
    - Area D: Live WWII HE Sherman Tank round area
- A segment of the Appalachian Trail passes through Area A

Mr. Eaton described that the SI scope was the same for areas A through D, consisting of:

- An approximately 2,000 foot long transect along which a magnetometer-assisted visual survey was conducted
- Collection of three surface soil samples from along each transect. Two of the samples were discrete (one sample from each end of the transect) and one sample was a composite (from the middle of the transect).
- Each sample was analyzed for explosives, lead, and mercury.

Mr. Eaton described the **MEC findings**:

- Area A:
    - Visual Survey: None observed
    - Magnetometer Survey: No munitions-related metallic anomalies were observed
- Area B: Same findings as described for Area A
- Area C: Same findings as described for Area A
- Area D: Same findings as described for Area A

Mr. Eaton described the **MC findings** (all results have units of mg/kg):

- Area A
  - Explosives: none detected
  - Mercury: 0.08 to 0.14 (all less than the reporting limit)
  - Lead: 42 to 81
- Area B
  - Explosives: none detected
  - Mercury: 0.07 to 0.11 (all less than the reporting limit)
  - Lead: 23 to 66
- Area C
  - Explosives: none detected
  - Mercury: 0.06 to 0.13 (all less than the reporting limit)
  - Lead: 41 to 163
- Area D
  - Explosives: none detected
  - Mercury: 0.05 to 0.19 (all less than the reporting limit)
  - Lead: 32 to 151

Mr. Eaton discussed the Ricochet Area SI MRSPP Findings:

- Ricochet Area Priority: 2
- Discussion: Follow-on discussion concerned Kimberly Harriz's request that additional written Army documentation (i.e., EOD report) be pursued to more formally document the circumstances of the discovery and 'blow in place' (BIP) of the Sherman Tank round. Mr. Eaton indicated that additional written Army documentation was being requested of FTIG's Col. Yearwood but that it was uncertain if such documentation was available.

Mr. Eaton discussed the Ricochet Area SI Recommendations:

- An RI / FS is recommended based on the following **MEC** findings:
  - Sherman Tank round release in Area D
- Although **MC** release was not confirmed during the RI, it may be associated with undiscovered MEC, if undiscovered MEC is present.

Mr. Moulder had one comment/observation. He pointed out that the soil lead results seemed elevated from his experience and asked if the lead levels were typical of background. Mr. Eaton responded 1) that there are no locally available (from the Ricochet Area) background soil lead data, and 2) the SI soil lead concentrations are influenced by the relatively high soil moisture percentages. Mr. Moulder asked if a discussion of the issue could be added to the SI report and Mr. Eaton concurred.

V. Adjournment

The meeting was adjourned at about 1050 hours.