

**LIMITED PHASE II ENVIRONMENTAL  
SITE ASSESSMENT REPORT  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA**

**PREPARED FOR:**

Nye County Department of Natural Resources and Federal Facilities  
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January 24, 2006  
Project No. 300983003

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Dr. James Marble  
Nye County Department of Natural Resources and Federal Facilities  
P.O. Box 1767  
Tonopah, Nevada 89049

Subject: Limited Phase II Environmental Site Assessment Report  
Former Tonopah Army Airfield  
Tonopah, Nevada

Dear Dr. Marble:

We are pleased to present the results of our Limited Phase II Environmental Site Assessment (ESA) for the former Tonopah Army Airfield (TAAF) property located in Tonopah, Nevada. The study was performed in general accordance with the United States Environmental Protection Agency (USEPA)-approved Sampling and Analysis Plan (SAP), dated December 13, 2005.


The Phase I ESA report, prepared by Ninyo & Moore and dated August 19, 2002, concluded that, despite a number of environmental investigations and remedial actions undertaken at the former TAAF by the United States Army Corps of Engineers (USACE) between 1991 and 2001, several areas of the former TAAF warranted further investigation. The majority of these areas were related to historical operations of the former TAAF. Some of these issues were identified during the 2001 Preliminary Assessment (PA), the 2002 site inspection, and/or the 1998 tank removal activities initiated by the USACE. However, Ninyo & Moore verified potential concerns on the property that had not been adequately addressed in previous USACE investigations. A recommendation was made to perform a Limited Phase II Site Assessment to assess the extent of petroleum hydrocarbon contamination in the soil of the subject property.

The objective of this Limited Phase II ESA was to evaluate further environmental hazards identified in the Phase I ESA. Exploratory techniques included advancement and sampling of soil borings in the vicinity of former aircraft fueling station (ACFS) and associated underground storage tank (UST), former gasoline UST, and former fuel oil UST locations at the subject site.

Soil samples obtained from borings were analyzed for purgeable and extractable total petroleum hydrocarbons (TPH). Select borings that were in the vicinity of former aviation fueling islands were also analyzed for organic (tetra-ethyl) lead, and total (inorganic) lead.

Ninyo & Moore was retained by the Nye County Department of Natural Resources and Federal Facilities to perform a Limited Phase II ESA. The Limited Phase II ESA activities were performed in general accordance with the approved Soil Characterization Work Plan submitted by Ninyo & Moore on December 12, 2005.

*I, Gregory A. Beck, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

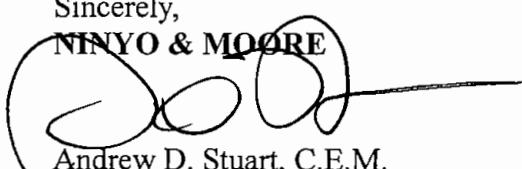
  
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Gregory A. Beck, C.E.M.  
Certified Environmental Manager  
No. 1874  
Expires: May 27, 2006

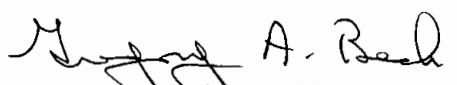
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Date

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please call the undersigned at your convenience.

Sincerely,

**NINYO & MOORE**

  
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**EXECUTIVE SUMMARY**

Ninyo & Moore was retained by the Nye County Department of Natural Resources and Federal Facilities to perform a Limited Phase II Environmental Site Assessment (ESA) of the Former Tonopah Army Airfield (TAAF) located in Tonopah, Nevada. The funding for this Limited Phase II ESA has been approved by the NDEP Brownfields Program for Targeted Site Assessments and by the United States Environmental Protection Agency, Region IX (USEPA) program for Brownfields Projects.

The site occupies approximately 3,800 acres in an area of mixed commercial/industrial/residential usage. The site is bordered on the north by U.S. Highway 6, across which is located gravel and sand borrow pits and the former TAAF rifle range; on the west by undeveloped federally-owned land managed by the Bureau of Land Management (BLM) and the Tonopah public landfill, located approximately 2 miles west of the site; on the south by the former TAAF sewage treatment plant and undeveloped BLM land; and on the east by the Tonopah Airport runways and undeveloped BLM land. The Foreland Refining Corporation owns a petroleum refining plant, located on approximately 63 acres, near the center of the subject property. The refinery acreage includes the location of the former TAAF hangar Building 1600.

The following activities were performed in accordance with the USEPA approved Sampling and Analysis Plan (SAP):

- Twenty-six soil borings were advanced to depths ranging from approximately 5 to 15 feet below ground surface (bgs) in six general sampling areas. Soil boring locations were determined in the field based on accessibility, visible signs of potential contamination (e.g., stained soils), and topographical features which indicated locations of potential hazardous substance release or former UST locations. Equipment refusal at depths greater than 15 feet bgs prevented advancement to the SAP-approved depths in some borings.
- Soil vapor concentrations were screened with a photoionization detector (PID) and one or two samples, depending on the sample location, from each boring exhibiting the most elevated vapor readings were submitted to Advanced Technology Laboratories (ATL) in Signal Hill, California for analysis of purgeable and extractable total petroleum hydrocarbons (TPH) and total (inorganic) lead. Organic (tetra-ethyl) lead samples were subcontracted to American Environmental Testing Laboratory, Inc (AETL) by ATL.

The following conclusions were reached by Ninyo & Moore as a result of this Limited Phase II ESA:

- Reported soil TPH concentrations did not exceed the site-specific action level of 1,000 milligrams per kilogram (mg/kg) in any soil sample collected during this limited Phase II ESA.
- Reported soil total lead concentrations did not exceed the EPA Region 9 Preliminary Remediation Goal (PRG) for direct contact at residential sites for total lead of 400 mg/kg in any soil sample collected during this limited Phase II ESA.
- Reported soil concentrations of organic lead did not exceed the practical quantitation limit of 1.0 mg/kg. While the practical quantitation limit for organic lead exceeded the relevant PRG, the results of TPH and total lead analyses suggest that there is a low likelihood that organic lead concentrations exceed the EPA Region 9 PRG for direct contact at residential sites at any locations sampled during this limited Phase II ESA.

Based on the reported conclusions of the Limited Phase II ESA, Ninyo & Moore makes the following recommendations:

- Based on reported analytical results, Ninyo & Moore believes that no further action is necessary for the portion of the subject property assessed during this limited Phase II ESA.

## **1. INTRODUCTION**

Ninyo & Moore was retained by the Nye County Department of Natural Resources and Federal Facilities to perform a Limited Phase II Environmental Site Assessment (ESA) of the approximately 3,800-acre Former Tonopah Army Airfield (TAAF) located in Tonopah, Nye County, Nevada. The funding for this Limited Phase II ESA has been approved by the NDEP Brownfields Program for Targeted Site Assessments and by the United States Environmental Protection Agency, Region IX (USEPA) program for Brownfields Projects. The ESA activities were performed in accordance with the USEPA-approved Sampling and Analysis Plan (SAP), dated December 13, 2005.

## **2. SITE BACKGROUND**

The following summary of site background information is based on review of site documents provided by the Client, Ninyo & Moore's previous work at the site, review of governmental agency files for nearby leaking underground storage tank (UST) sites, and discussions with persons familiar with the site.

### **2.1. Site Location and Description**

The subject property is located in Sections 1 and 12, Township 2 North, Range 43 East, Section 36, Township 3 North, Range 43 East, Section 31, Township 3 North, Range 44 East, and Sections 5, 6, and 7, Township 2 North, Range 44 East of the USGS 7.5 Minute Series East of Tonopah Quadrangle, 1987 Provisional Edition. A site location map is presented on Figure 1.

The site occupies approximately 3,800 acres in an area of mixed commercial/industrial/residential usage. The site is bordered on the north by U.S. Highway 6, across which is located gravel and sand borrow pits and the former TAAF rifle range; on the west by undeveloped federally-owned land managed by the Bureau of Land Management (BLM) and the Tonopah public landfill, located approximately 2 miles west of the site; on the south by the former TAAF sewage treatment plant and undeveloped BLM land; and on the east by the



Tonopah Airport runways and undeveloped BLM land. The Foreland Refining Corporation operates a petroleum refining plant, located on approximately 63 acres, near the center of the subject property. A site plan is presented on Figure 2. An aerial site plan is presented on Figure 3.

Three of the five original aircraft hangars and three original earth and concrete ammunition/ordnance bunkers (igloos) remain on the property. Numerous former TAAF building remnants and foundation slabs with remnant landscaping remain visible across the site. Limited development of the property, including a residential subdivision; an oil refinery; an aircraft service, maintenance, and refueling facility; a sand and gravel quarry; and a race-track occurred after the transfer to Nye County. The fuel dispensing infrastructure has been removed at the fueling stations and fuel tanks, leaving concrete pads with raised fuel islands. The former TAAF wastewater treatment plant continues to operate today and is maintained by the Tonopah Public Utilities

The Foreland Refining Corporation operates a petroleum refining plant, located on approximately 63 acres, near the center of the subject property. The refinery is built on the building slab of a former TAAF hangar, Building 1600. Several other former TAAF foundation slabs are utilized at the refinery as well.

The sampling area proposed in the SAP consists of four former base buildings (Buildings 430, 823, 832, and 1225), four former ammunition and explosives storage bunkers (Buildings 1235, 1245, 1250, and 1255), three former aviation fueling stations (ACFSs) and associated USTs (ACFS Inside Taxiway, ACFS Midway, and ACFS Taxiway 4), and two former fuel storage areas (F Street Tanks and F Street and NW Taxiway Tanks). Specific sampling sub-areas are widely distributed across the former TAAF and include the vicinity of existing structures as well as former tank pits.

## **2.2. Site History**

The Department of Defense (DOD) acquired approximately 10,433.62 acres of land from the Department of the Interior (DOI) near Tonopah, Nevada between 1941 and 1945. Air-

fields and improvements such as runways, barracks, theaters, stockade, mess halls, bunkers, hospital facilities, and hangar buildings were built in the early 1940s and the TAAF was in operation by July 1942. The following breakdown of land acquisitions for the base is summarized below:

Date	Transaction	Acres of Land
January 14, 1941	From DOI to DOD	7,338.23
January 12, 1942	From DOI to DOD	617.87
December 3, 1943	From DOI to DOD	2,240.00
December 1943 to May 1945	From DOI to DOD	237.52
	Total	10,433.62

The TAAF became the largest military operation in Nevada with over 6,000 military personnel. The TAAF was placed on inactive status on August 23, 1945. On August 21, 1948, all 10,433.62 acres were transferred to the War Assets Administration. On July 29, 1949, a quit-claim deed transferred the ownership from the Federal Government to Nye County. Most of the buildings have since been demolished leaving many of the concrete slab foundations in place.

### 2.3. Previous Work

The following sections present a summary of previous work at the site. Please refer to the referenced documents for further discussion of previous work.

Between 1991 and 2001, the USACE performed a variety of environmental investigations and remedial activities. These concentrated on evaluating soil contamination. In February 1991, an Inventory Project Report (IPR) of the former TAAF was prepared by Earth Technology Corporation for the USACE under the Defense Environmental Restoration Program for formerly used defense sites. The study indicated that at least six USTs were located on the property. One was a 7,000-gallon aviation fuel tank located at the eastern midpoint of the north-south runway that had been out of service since 1946. In addition, five heating oil tanks and oil sludge pits were observed at each of the five former hangar

locations. A scope of work was proposed to remove the USTs and associated piping and test the soil for evidence of contamination.

A Risk Assessment Procedure for Ordnance and Explosive Waste (OEW) Sites was initiated in September 1993 and attached to the IPR. The document indicated the type of ordnance used at the former TAAF facility as medium/large caliber ammunition and explosive bombs. The type of pyrotechnics used was listed as munitions containing white phosphorus or other spontaneously flammable pyrophoric material. The former TAAF was given a Total Hazard Severity Value, which placed it in the Critical Hazard Severity category at that time (USACE, 1993).

In September 1995, the USACE conducted an Environmental Evaluation (EE) of the former TAAF under the Defense Environmental Restoration Program for formerly used defense sites. Field inspections of the three hangar buildings (named in the EE as Hangers 1, 2, and 3) were conducted by the USACE. Based on field observance of fill pipes and pits, the evaluation concluded that USTs and oil sludge pits may have existed near the three hangars and also near the foundation slabs of the two demolished hangars. In addition, visible evidence of USTs was reported on the western side of the former TAAF and the presence of USTs was suspected in the prison stockade area, the intersection of Donnels and Scott Road, and the gasoline station on the western portion of the former TAAF. The USACE concluded that identification and removal of the USTs was necessary to protect human health and safety, and the environment. In addition, the USACE recommended that further assessment for the presence of USTs be performed on the western portion of the former TAAF (USACE, 1995).

In September 1998, the USACE contracted with Petroleum Technologies, Inc. (PTI) to remove the USTs that had been identified in the previous studies. Kleinfelder, Inc. (Kleinfelder) was contracted to provide environmental reporting and to document the removal activities. Five steel USTs, ten concrete USTs, four concrete oil sludge pits, and two piping runs were removed. Soil samples were collected from the UST and underground piping excavations at depths ranging from 2.5 feet to 18 feet below grade. Soil samples were

analyzed for TPH, concentrations of which ranged from 12 milligrams per kilogram (mg/kg) to 10,000 mg/kg. During UST removal activities, additional oil sludge pits and concrete vaults were discovered and subsequently removed. Soil samples were collected from the bottom of the oil sludge pit and concrete vault excavations and analyzed for TPH.

In November 1998, the USACE had the contractor (PTI) return to the property to conduct additional investigation at former tank locations that had exhibited elevated TPH concentrations. Additional excavations were conducted at former tank locations at Buildings 823, 1149, and 1151. Two soil samples were collected from each of the excavations and were analyzed for TPH. Soil TPH concentrations ranged from 19 mg/kg to 6,700 mg/kg. Reported soil TPH concentrations exceeded the 1,000 mg/kg action level in at least one soil sample from each of the three tank locations reported (Kleinfelder, 1998a).

In a letter to the USACE, dated February 17, 1999, NDEP established a site-specific soil TPH action level of 1,000 mg/kg. Soil TPH concentrations below the action level would require no further action from NDEP. The letter further stated that the USACE must obtain concurrence from the Nye County Commissioners prior to leaving soils in place in excess of 100 mg/kg to ensure any land restrictions that may be incurred from that condition were compatible with proposed future county development plans. Three of the tank locations (Buildings 823, 1149, and 1151) exhibited TPH concentrations above the action limit of 1,000 mg/kg (Kleinfelder, 1998).

On June 26 and 27, 2000, the USACE conducted a Preliminary Assessment (PA) of the former TAAF (USACE 2001). The PA was conducted to assess the need for further environmental action at the site under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

During the PA, the USACE reviewed existing information about the sites, completed a site reconnaissance, and prepared a summary report. The sites selected for the PA were based on the function of the building, types of chemicals used or stored, and the potential for contamination at the site. Various sites were identified on utility maps obtained from the

National Archives in San Bruno, California. The utility maps identified features such as buildings, USTs, ASTs, Air Corps Fueling Systems (ACFS), sewage treatment system, land-fill, and the oil refinery. The majority of the sites visited during the PA were former fuel storage buildings, chemical warehouses, and equipment maintenance shops. A former land-fill, three aircraft maintenance hangars, and a sewage treatment plant were also visited during the PA site reconnaissance. Fill pipes, soil staining and asbestos-containing materials in the building debris were observed at some of the sites (USACE, 2000).

On August 13 to 16, 2001, fieldwork was conducted at the sites recommended for further investigation in the PA. The fieldwork included collecting soil samples and conducting magnetometer surveys to detect buried metal objects, such as USTs. Soil samples were collected from the surface to 6 inches in depth and analyzed for specified combinations of metals, TPH, and volatile organic compounds (VOCs). The USACE concluded that the soil was contaminated with oil and hydrocarbons at selected sites.

Samples from five current or former building locations (1225, 1235, 1245, 1250, and 1255) exceeded the site-specific 1,000 mg/kg action level. The USACE concluded that the samples from Buildings 1235, 1250, and 1255 were collected from deteriorated asphalt and they recommended no further government action at those sites. The USACE recommended conducting a Remedial Investigation (RI) to delineate the horizontal and vertical extent of petroleum hydrocarbons in the soil at Buildings 1225, 1245, and 2430 where TPH and VOCs had been detected during previous investigations. In addition, the proposed RI was to include an investigation of the fuel islands and piping at the fueling station on Taxiway 4 (USACE, 2001).

In May 2002, Ninyo & Moore performed a Phase I Environmental Site Assessment of the former TAAF. Based on a review of available facility information and a site visit, Ninyo & Moore concluded that several areas warranted further investigation. The majority of these areas were related to historical operations of the former TAAF. Some of these issues were identified during the PA (USACE, 2001), the site investigation (USACE, 2002b), and/or the tank removal activities (Kleinfelder, October and December, 1998). However, Ninyo &

Moore identified potential concerns at the property that were not addressed in previous investigations.

In March 2003, the USACE conducted remediation activities for 11 sites. The sites were Building 822 (Administration Building), Building 1149 (Bath House and Lavatory), Building 1151 (Bath House and Lavatory), Building 1220 (Boiler House), Building 1225 (Ammo Assembly Shop), Building 1245 (Timber Magazine Igloo), Building 390 (Gas Station), Building 480 (Recreation Building with Latrine), Taxiway 4 Fuel Island, the Ammo Clip Pile, Building 1380 (Hanger), and a landfill cover at the former landfill adjacent to the main runway south overrun (USACE 2003b). Soil sampling was conducted to determine the extent of TPH contamination previously noted during UST removal operations at three of the sites (Building 822, Building 1149, and Building 1151) by excavating trenches. Soil samples were collected from the 1998 UST excavation depths ranging from 5 feet to 11 below ground surface (bgs). Soil samples were analyzed for TPH, concentrations of which ranged from <10 mg/kg to 170 mg/kg, respectively. The USACE concluded that the sampled sites have some TPH contamination based upon the 1998 UST removal action.

During 2003, soil samples were collected from the earthen embankment of the aircraft gun calibration berm in preparation for using the berm as a source of soil used to cover the on-site landfill with 1 foot of cover soil. Analytical results from soil sampling of the north side of the berm indicated that the concentration of lead in the berm soil exceeded the action level established during the remedial investigation. Consequently, cover soil was excavated from the south side of the berm. Remedial activities conducted in 2003 were reported in the Remedial Action Activity Report (ITSI, 2003) and in the Remedial Action Report (USACE, 2003).

In the Final Site Inspection Work Plan, dated October 2005, USACE proposed to conduct soil sampling at the aircraft gun calibration berm, the landfill, and, if possible, the Building 1710 Hangar. The dates that the proposed work was performed and the subsequent results of this sampling were unavailable for our review at the time of this report.

## **2.4. Geology**

The subject property is located in west central Ralston Valley within the western part of the Basin and Range physiographic province. The valley is a naturally formed, elongate valley resulting from northeast-trending block faulting, a fundamental characteristic of the Basin and Range physiographic province.

In the vicinity of the airport, the Ralston Valley extends northeast and south. Surface water drainage is generally toward the southeast. To the west of the site are the San Antonio Mountains. To the northeast of the site is the Monitor Mountain Range. The valley deposits underlying the site and vicinity are classified as alluvium, colluvium, and talus (Nevada Bureau of Mines and Geology, 1985). The soil deposits in this region of Nye County consist primarily of fluvial sandy gravel and gravelly sand on the flanks of the mountains and grading into alluvial silty sand with gravel and sandy silt in the valley.

## **2.5. Hydrogeology**

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

### **2.5.1. Surface Waters**

No natural surface water bodies, including ponds, streams, or other bodies of water, are present on the site.

### **2.5.2. Groundwater**

Northern Nye County undergoes four well-defined seasonal changes. Widespread heavy rainstorms are prevalent during late spring (May to June) and late summer (August); intermittent thundershowers are common during the summer months. In the highest mountainous regions during an average year, snow may last well into July. These areas of recharge are the source of groundwater for the valleys. The snowmelt and limited precipitation infiltrates the subsurface through the bedrock and alluvium and eventually becomes the shallow groundwater aquifer below the surface in the valley.

Based on the water level data of the wells in the area of northern Ralston Valley, groundwater at the subject property is anticipated to occur at depths of approximately 500 feet or more bgs. The groundwater flow direction is expected to be southeast following the same trend as the regional surface drainage.

### **3. SCOPE OF WORK**

The following sections describe the methods that were used to meet the objectives of the Limited Phase II ESA, including: implementation of a Health and Safety Plan (HASP), a description of the sampling media, locations and rationale, field sampling methods, and analytical methods and protocol. Work was performed in accordance with the USEPA approved SAP except where noted.

#### **3.1. Health and Safety Plan**

A site-specific HASP was prepared outlining specific safety procedures, equipment, and potential hazards during the site work. Work was conducted as outlined in the HASP, which was posted in a conspicuous place during performance of field activities. The HASP was reviewed and signed by field personnel prior to their performing fieldwork each day.

#### **3.2. Soil Sampling**

##### **3.2.1. Subsurface Soil Sampling**

Soil borings were advanced using a direct-push soil sampling rig. Soil samples were collected from the plastic inner tube of a stainless steel barrel sampler. Soil borings were advanced to depths ranging from approximately 5 feet bgs to approximately 15 feet bgs.

Soil obtained from the barrel sampler was evaluated for field characteristics and field-screened using a PID. Soil from the barrel sampler was then placed into a zip-lock plastic bag such that the bag was approximately half-full. The zip-lock bag was then sealed and the temperature allowed to equilibrate for several minutes. Instrument readings



were taken by opening the zip-lock bag just enough to allow insertion of the PID probe and then recording the reading in the appropriate column on the boring log at the assigned depth.

Exact soil sampling locations were determined in the field based on accessibility, visible signs of potential contamination (e.g., stained soils), and topographical features which indicated locations of potential hazardous substance disposal or former UST locations. Soil sample locations were documented in the field logbook as sampling was completed. A sketch of the sample location was entered into the logbook and any physical reference points were labeled. If possible, distances to the reference points were also documented. In addition, the location and ground elevation of each boring was recorded with a hand-held Global Positioning System (GPS) unit. Sample location maps are presented on Figures 4a through 8b. Boring logs are presented in Appendix A. Site photographs are presented in Appendix B.

Subsurface samples were collected by boring to the desired sample depth using a direct-push soil sampling rig. Once the desired sample depth was reached, the split-barrel sampler was inserted into the hole and used to collect a discrete soil sample. Purgeable TPH soil samples were collected using EPA Method 5035A (EasyDraw Syringes<sup>®</sup>) and inserted into one 40-ml vial containing methanol, for analyzing high TPH concentrations, and two 40-ml vials containing sodium bisulfate, for analyzing low TPH concentrations.

Extractable TPH, organic lead, and total lead soil samples were collected from the barrel sampler and placed into glass jars, sealed, chilled if appropriate, and processed for shipment to the laboratory. Although the Data Quality Indicators (DQI) for total lead and extractable TPH analysis, submitted in the approved SAP, specified that soil samples would be collected in 8-ounce jars, due to limited soil sample recovery, and with concurrence of the selected laboratories, 4-ounce jars were used instead. For borings requiring analysis for organic lead, an additional 4-ounce jar was used.

Due to the use of direct push technology, minimal soil cuttings were produced during boring installation. Following sample collection, the borings were backfilled with the soil cuttings and brought to ground surface with the addition of bentonite pellets.

Sampling details specific to particular sampling locations are discussed below:

**Building 430:** Soil borings B1 and B2 were installed in the former tank pit area located south of the former building to an approximate depth of 15 feet bgs. Soil borings B1 and B2 were relocated approximately 30 and 50 feet, respectively, to the northeast from the original proposed locations based on field estimates of the location of the former UST pit. Soil boring locations are presented on Figure 4a and Figure 4b. Samples were obtained at 5-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil samples from each boring exhibiting the highest PID readings were collected and analyzed for purgeable and extractable TPH. In the event that PID readings for each sample collected from a boring were below detection limits, the 10-foot and 15-foot samples were selected for analyses.

**Building 822:** Soil boring B3 was installed in the former tank pit area located east of the former building to an approximate depth of 15 feet bgs. Soil boring B3 was relocated approximately 45 feet to the southeast from the original proposed location based on field estimates of the location of the former UST pit. The soil boring location is presented on Figure 5a and Figure 5b. Samples were obtained at 5-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID readings were collected and analyzed for purgeable and extractable TPH. In the event that PID readings for each sample collected from the boring were below detection limits, the 10-foot and 15-foot samples were selected for analyses.

**Building 832:** Soil borings B4 and B5 were installed in the former tank pit area located south of the former building to an approximate depth of 15 feet bgs. Soil boring B4 was

relocated approximately 25 feet to the northwest from the original proposed location based on field estimates of the location of the former UST pit. Soil boring locations are presented on Figure 5a and Figure 5c. Samples were obtained at 5-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil samples from each boring exhibiting the highest PID readings were collected and analyzed for purgeable and extractable TPH. In the event that PID readings for each sample collected from a boring were below detection limits, the 10-foot and 15-foot samples were selected for analyses.

**Building 1225:** Soil boring B6 was installed at the approximate location of previously noted staining on the north side of the building to an approximate depth of 5 feet bgs. The soil boring location is presented on Figure 6a and Figure 6b. Samples were obtained at 2-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID reading was collected for purgeable and extractable TPH analysis. In the event that PID readings for each sample collected from the boring were below detection limits, the 5-foot sample was selected for analyses.

**Building 1235:** Soil boring B7 was installed to the northeast of the building to an approximate depth of 5 feet bgs. Soil boring B7 was relocated approximately 45 feet to the northeast from the original proposed location based on field estimates of the location of the surficial stain. The soil boring location is presented on Figure 6a and Figure 6c. Samples were obtained at 2-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID reading was collected for purgeable and extractable TPH analysis. In the event that PID readings for each sample collected from the boring were below detection limits, the 5-foot sample was selected for analyses.

**Building 1245:** Soil boring B8 was installed at the approximate location of previously noted staining to the southeast of the building to an approximate depth of 5 feet bgs.

The soil boring location is presented on Figure 6a and Figure 6d. Samples were obtained at 2-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID reading was collected for purgeable and extractable TPH analysis. In the event that PID readings for each sample collected from the boring were below detection limits, the 5-foot sample was selected for analyses.

**Building 1250:** Soil boring B9 was installed to the south of the building to an approximate depth of 5 feet bgs. Soil boring B9 was relocated approximately 10 feet to the south from the original proposed location based on field estimates of the location of the surficial stain. The soil boring location is presented on Figure 6a and Figure 6e. Samples were obtained at 2-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID reading was collected for purgeable and extractable TPH analysis. In the event that PID readings for each sample collected from the boring were below detection limits, the 5-foot sample was selected for analyses.

**Building 1255:** Soil boring B10 was installed at the approximate location of previously noted staining to the southwest of the building to an approximate depth of 5 feet bgs. The soil boring location is presented on Figure 6a and Figure 6f. Samples were obtained at 2-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from the boring exhibiting the highest PID reading was collected for purgeable and extractable TPH analysis. In the event that PID readings for each sample collected from the boring were below detection limits, the 5-foot sample was selected for analyses.

**ACFS Inside Taxiway:** Soil borings B11, B12, B13, and B14 were installed on either side of each former fuel dispenser island to an approximate depth of 9 feet bgs. The approved SAP anticipated three fuel islands at this sample location. However, only two fuel islands were present and soil borings B15 and B16, originally proposed for the third fuel island, were installed at the ACFS Inside Taxiway UST location instead. Soil

boring locations are presented on Figure 7a and Figure 7b. Samples were obtained at 3-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from each boring exhibiting the highest PID reading was collected and analyzed for purgeable and extractable TPH, organic lead, and total lead. In the event that PID readings for each sample collected from a boring were below detection limits, the 6-foot sample was selected for analyses.

**ACFS Inside Taxiway UST locations:** Soil borings B15, B16, B17, and B18 were installed to the west of the Inside Taxiway fueling stations to an approximate depth of 15 feet bgs. Due to refusal encountered during installation, borings B15, B16, B17, and B18 were terminated at approximately 15 feet bgs, as opposed to the approved SAP depth of 20 feet bgs. Soil borings B15 and B16 were proposed for the ACFS Inside Taxiway in the approved SAP but were relocated approximately 85 and 65 feet, respectively, to the west from the original proposed location to assess the former UST pit once it was determined that only two fuel islands were present at the ACFS Inside Taxiway location. Soil borings B17 and B18 were relocated approximately 120 and 125 feet, respectively, to the northwest from the original proposed locations based on field estimates of the location of the former UST pit. Soil boring locations are presented on Figure 7a and Figure 7b. Samples were obtained at 5-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs.

One soil sample each from borings B15 and B16, and the two soil samples each from borings B17 and B18 exhibiting the highest PID reading were collected and analyzed for purgeable and extractable TPH, organic lead, and total lead. In the event that PID readings for each sample collected from a boring were below detection limits, the 10- and 15-foot samples were selected for analysis.

**ACFS Taxiway 4:** Soil borings B29, B30, B31, and B32 were installed on either side of each former fuel dispenser island to an approximate depth of 9 feet bgs. Soil boring

locations are presented on Figure 8a and Figure 8b. Samples were obtained at 3-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs. The soil sample from each boring exhibiting the highest PID reading was collected and analyzed for purgeable and extractable TPH, organic lead, and total lead. In the event that PID readings for each sample collected from a boring were below detection limits, the 6-foot sample was selected for analyses.

**ACFS Taxiway 4 UST locations:** Soil borings B33, B34, B35, and B36 were installed to the west of the Inside Taxiway fueling stations to an approximate depth of 15 feet bgs. Due to refusal encountered during installation, boring B33 was terminated at approximately 15 feet bgs and borings B34, B35, and B36 were terminated at approximately 10 feet bgs, as opposed to the approved SAP depth of 20 feet bgs. Boring B35 was relocated approximately 120 feet to the northwest from the original proposed location based on field estimates of the location of the former UST pit. Soil boring locations are presented on Figure 8a and Figure 8b. Samples were obtained at 5-foot intervals using a decontaminated barrel sampler and field-screened utilizing a PID to detect petroleum constituents and VOCs.

One soil sample each from borings B15 and B16, and the two soil samples each from borings B17 and B18 exhibiting the highest PID reading were collected and analyzed for purgeable and extractable TPH, organic lead, and total lead. In the event that PID readings for each sample collected from a boring were below detection limits, the 10- and 15-foot samples were selected for analysis.

**ACFS Midway and Midway UST locations, F Street Tanks, and F Street and NW Taxiway Tanks:** Mr. Pat Musgrave, representing the Foreland Refining Corporation oil refinery, informed Ninyo & Moore that the portion of land encompassing ACFS Midway and the Midway UST locations, the F Street Tanks, and the F Street and NW Taxiway Tanks is leased and controlled by the Foreland Refining Corporation and that we would not be granted access for boring installation. Mr. Musgrave also stated that

the ACFS Midway location has in the past been used by the refinery for washing trucks.

Based on the beneficial use of this land by the refinery, these sampling locations are not considered the responsibility of the USACE. Therefore, the property was not evaluated and borings B19 through B26 and B37 through B40 were not installed, as proposed in the approved SAP.

### **3.3. Field Quality Control Sampling**

Table 1 provides the sample location, sample identification for field and laboratory, and sample matrix for each of the Quality Control (QC) and Equipment Blank samples collected during this assessment.

#### **3.3.1. Equipment Blanks**

In accordance with the approved SAP, equipment rinsate blanks were collected to evaluate field sampling and decontamination procedures by pouring deionized water (for inorganics) and High Performance Liquid Chromatography (HPLC) organic-free water (for organics) over the decontaminated sampling equipment. One equipment rinsate blank was collected each day that sampling equipment was decontaminated in the field. The equipment rinsate blanks were obtained by passing water through or over the sampling tube of a barrel sampler. The rinsate blanks were then analyzed for purgeable and extractable TPH, organic lead, and total lead, based on the soil samples collected on that day.

#### **3.3.2. Laboratory Quality Control Samples**

For routinely collected soil samples, one 40-ml vial, containing methanol, two 40-ml vials containing sodium bisulfate, and a full 4-ounce sample jar contained sufficient volume for the requested laboratory analysis. For the laboratory QC samples, there was a sufficient quantity of sample to analyze extractable TPH, organic lead, and total lead. However, due to the small amount of sample collected with the EasyDraw Syringes<sup>®</sup>, an

additional sample preserved with sodium bisulfate was required by the performing laboratory to analyze purgeable TPH for the laboratory QC samples.

In accordance with the approved SAP, soil samples B1-S-10-2, B7-S-5-11, and B33-S-15-42 were designated as laboratory QC samples. Borings B19 through B28 and B37 through B40 were not installed, therefore the laboratory QC sample for boring B40 was not required.

### **3.3.3. Duplicate Samples**

In accordance with the approved SAP, duplicate soil samples were collected from the 15-foot sample from boring B3, the 15-foot sample from boring B5, the 5-foot sample from boring B8, the 10-foot sample from boring B16, and the 9-foot sample from boring B29. In order to preserve the “blind” nature of the samples, duplicate soil samples from borings B3, B5, B8, B16, and B29 submitted to ATL were labeled as B3-S-15-57, B5-S-8-58, B8-S-5-59, B16-S-10-60, and B29-S-9-61, respectively.

## **4. RESULTS**

### **4.1. Subsurface Soil Analytical Results**

Soil samples collected from each soil boring were analyzed by ATL in Signal Hill, California for purgeable and extractable TPH by EPA Method 8015B (modified), total lead by EPA Method 6010B, and organic lead by Method HMU-900. The approved SAP stipulated that Calscience Environmental Laboratories, Inc. (Calscience) would perform the organic lead analysis using the CADHS Luft Method. However, due to an error at ATL, the organic (tetra-ethyl) lead samples were subcontracted to American Environmental Testing Laboratory, Inc (AETL). AETL has been a California Department of Health Services ELAP-certified laboratory for organic lead analysis since 1995 and ATL has routinely used them for organic analysis for over 5 years.

The analytical method utilized by AETL in their organic lead analysis is similar that used by Calscience, with the major difference being in the extraction solvents. Ninyo & Moore



believes that the inadvertent use of AETL for organic lead analysis resulted in no decrease in the quality of the data. A letter of comparison from ATL and the organic lead analysis Standard Operating Procedure (SOP) for AETL is presented in Appendix C.

The results of the subsurface soil analyses are summarized in Table 2, which provides the sample location, sample depth, sample designation, date sampled, field screening results, and laboratory reported results for the targeted chemical compounds of this assessment. The laboratory reports presenting the laboratory reported analytical data and method detection limits and chains-of-custody are provided in Appendix D.

#### **4.2. Equipment Blank Analytical Results**

Equipment rinsate blanks were analyzed for purgeable and extractable TPH by EPA Method 8015B (modified); total lead by EPA Method 6010B; and organic lead by Method HMU-900. Laboratory analytical results showed no reported analyte concentrations exceeding applicable laboratory reporting limits. Equipment rinsate blank analytical results are summarized in Table 3.

### **5. DATA VALIDATION**

A Tier 1 data validation was performed by DataVal, Inc. in accordance with the approved SAP. The data validation findings indicate that the laboratory performance and overall data quality met the analytical data quality objectives for the project. A review of the data precision, accuracy, representativeness, and completeness of the reported results showed that the overall data quality was good, and suitable for supporting project decisions. The data validation report is presented in Appendix E.

### **6. CONCLUSIONS**

- Reported soil TPH concentrations did not exceed the site-specific action level of 1,000 mg/kg in any soil sample collected during this limited Phase II ESA.

- Reported soil total lead concentrations did not exceed the EPA Region 9 Preliminary Remediation Goal (PRG) for direct contact at residential sites for total lead of 400 mg/kg in any soil sample collected during this limited Phase II ESA.
- Reported soil concentrations of organic lead did not exceed the practical quantitation limit of 1.0 mg/kg. While the practical quantitation limit for organic lead exceeded the relevant PRG, the results of TPH and total lead analyses suggest that there is a low likelihood that organic lead concentrations exceed the EPA Region 9 PRG for direct contact at residential sites at any locations sampled during this limited Phase II ESA.

## 7. RECOMMENDATIONS

Based on the results of this and previous assessments at the site, Ninyo & Moore makes the following recommendations:

- Based on reported analytical results, Ninyo & Moore believes that no further action is necessary for the portion of the subject property assessed during this limited Phase II ESA.

## 8. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous

materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject property. The testing and analyses have been conducted by an independent laboratory, which is accredited by the U.S. Environmental Protection Agency (EPA) or certified by the State of Nevada to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

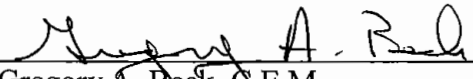
Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject property or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

**9. NEVADA CERTIFIED ENVIRONMENTAL MANAGER CERTIFICATION**

In accordance with the Nevada Revised Statutes 459.500, Section 1, a holder of a certificate who is responsible for a service requiring certification shall ensure that each document relating to the service includes the following language:

*I, Gregory A. Beck, hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations, and ordinances.*

  
\_\_\_\_\_  
Gregory A. Beck, C.E.M.  
Certified Environmental Manager  
No.: 1874  
Expires: May 27, 2006

1-24-06  
Date

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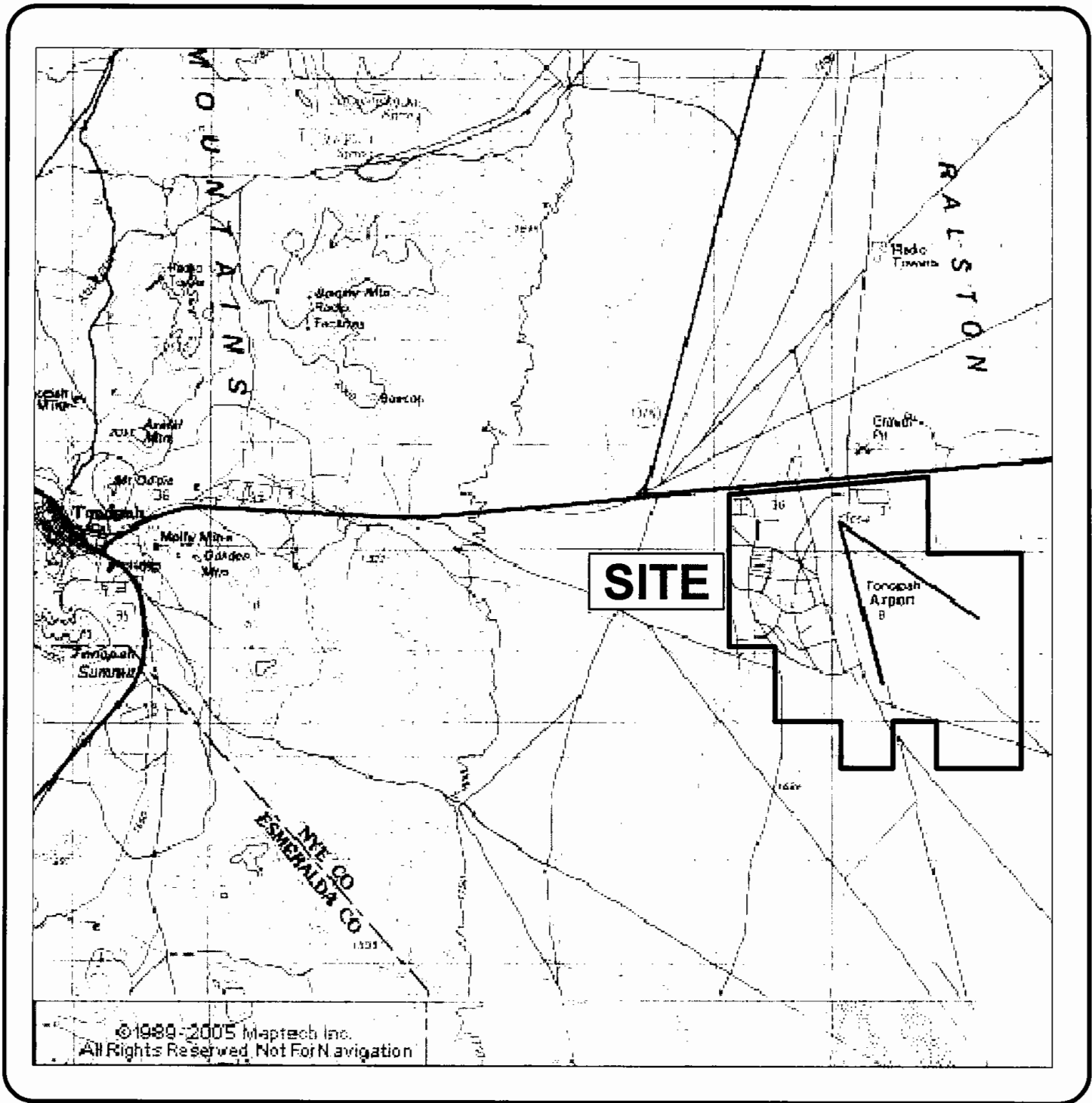
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**FIGURES**



REFERENCE:



NORTH

SCALE 1:100000

**Ninyo & Moore**

**SITE LOCATION MAP**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.

300983003

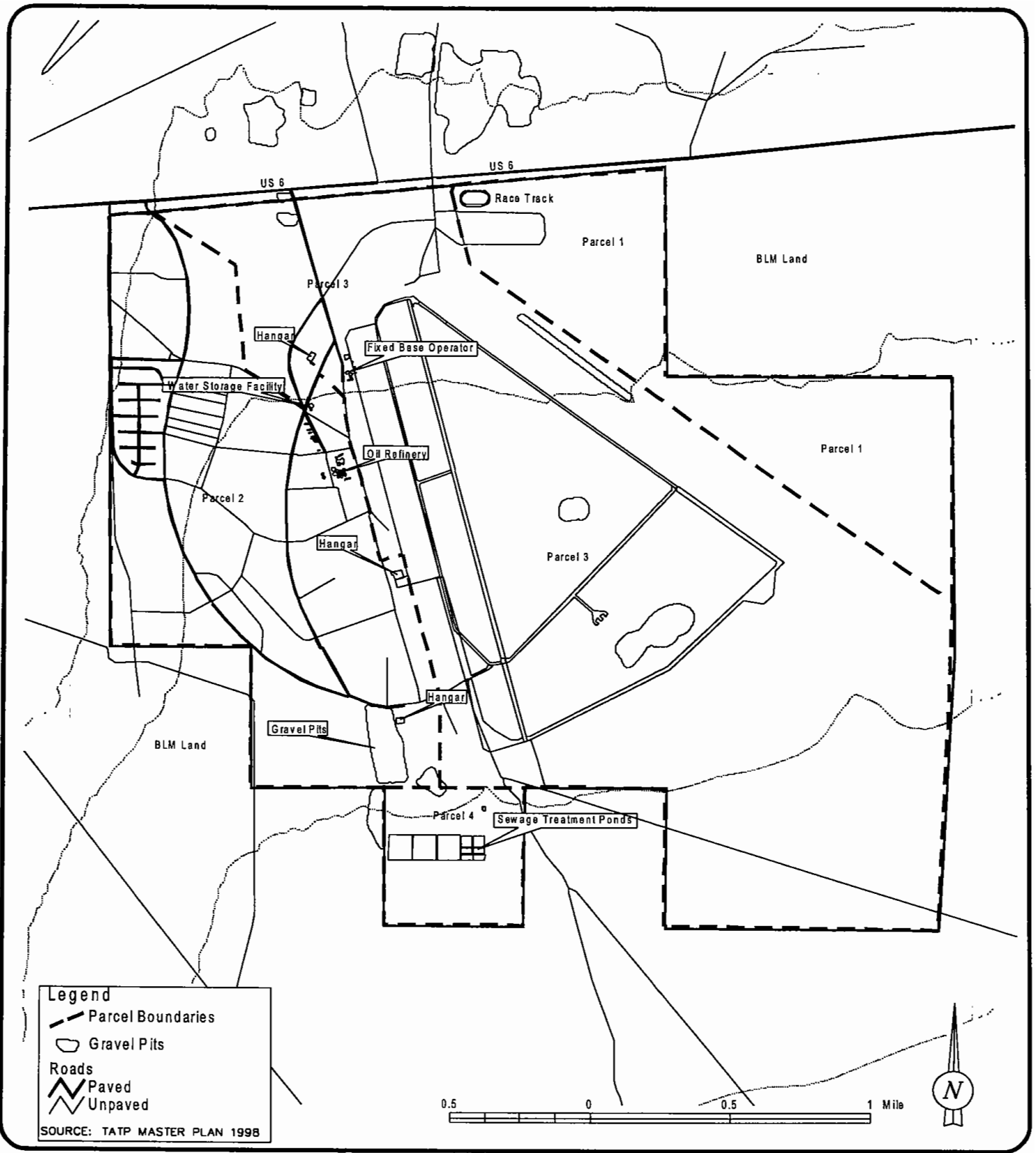
DATE

01/06

FIGURE

1





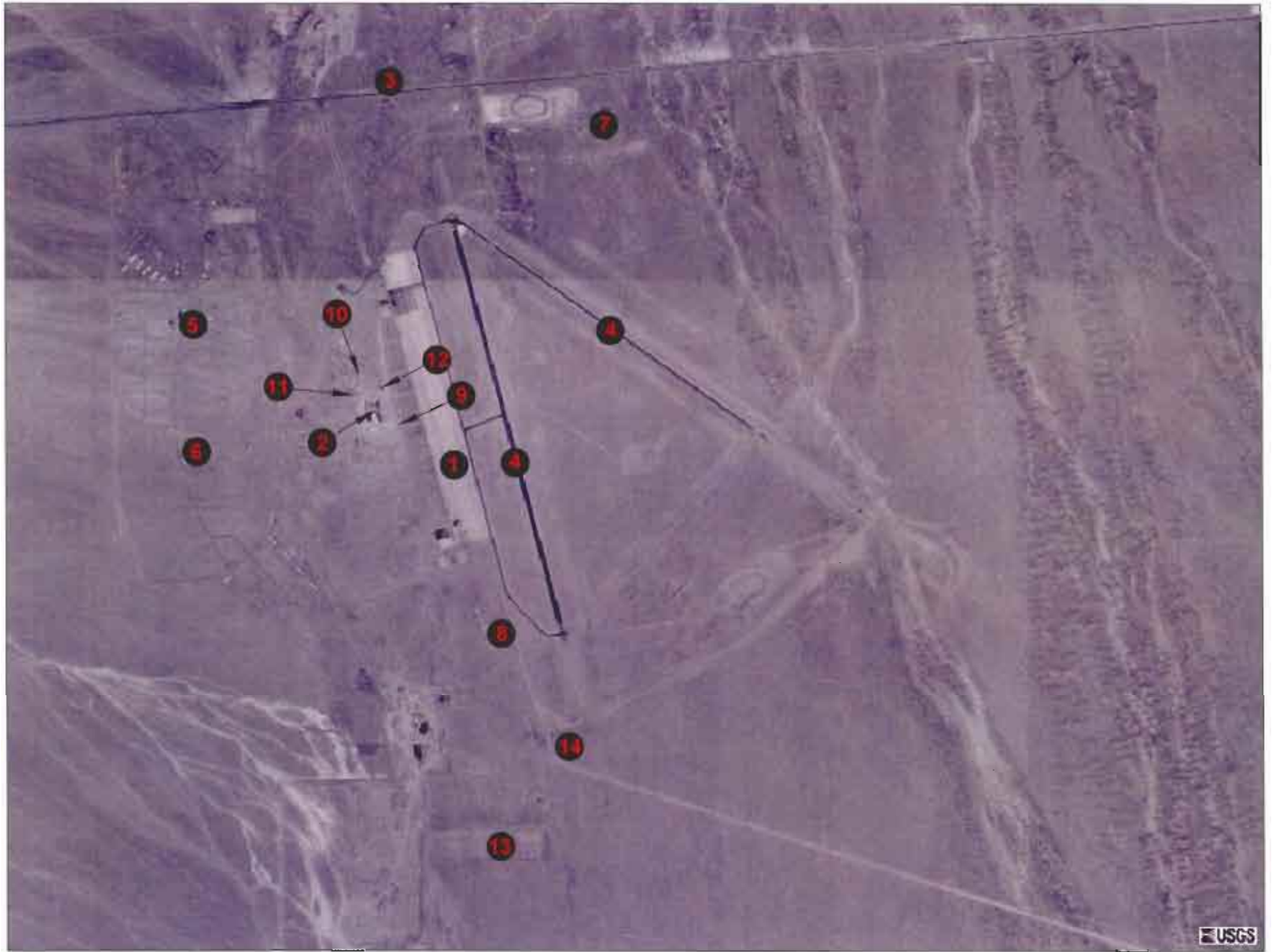
**SITE PLAN**

**FORMER TONOPAH ARMY AIRFIELD**  
**TONOPAH, NEVADA**

PROJECT NO.  
300983003

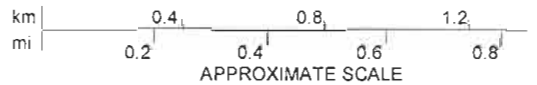
DATE  
01/06

FIGURE  
2



LEGEND

- |  |                                 |
|--|---------------------------------|
| ① Concrete apron                             | ⑧ ACFS Taxiway 4                |
| ② Oil refinery                               | ⑨ ACFS Inside taxiway           |
| ③ U.S. Highway 6                             | ⑩ ACFS Midway                   |
| ④ Runway                                     | ⑪ F Street Tanks                |
| ⑤ Building 430                               | ⑫ F Street and NW Taxiway Tanks |
| ⑥ Buildings 822 and 832                      | ⑬ Sewage treatment plant        |
| ⑦ Buildings 1225, 1235, 1245, 1250, and 1255 | ⑭ Landfill                      |



NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

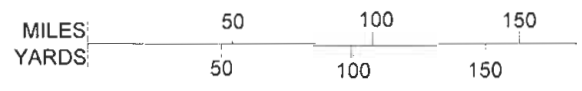
AERIAL SITE PLAN

FORMER TONOPAH AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
3



- LEGEND**
- Soil Boring location
  - ① Building 430
  - ② Building 421
  - ③ Belmont Drive
  - ④ C Street



NOTE: Dimensions, directions, and locations are approximate.

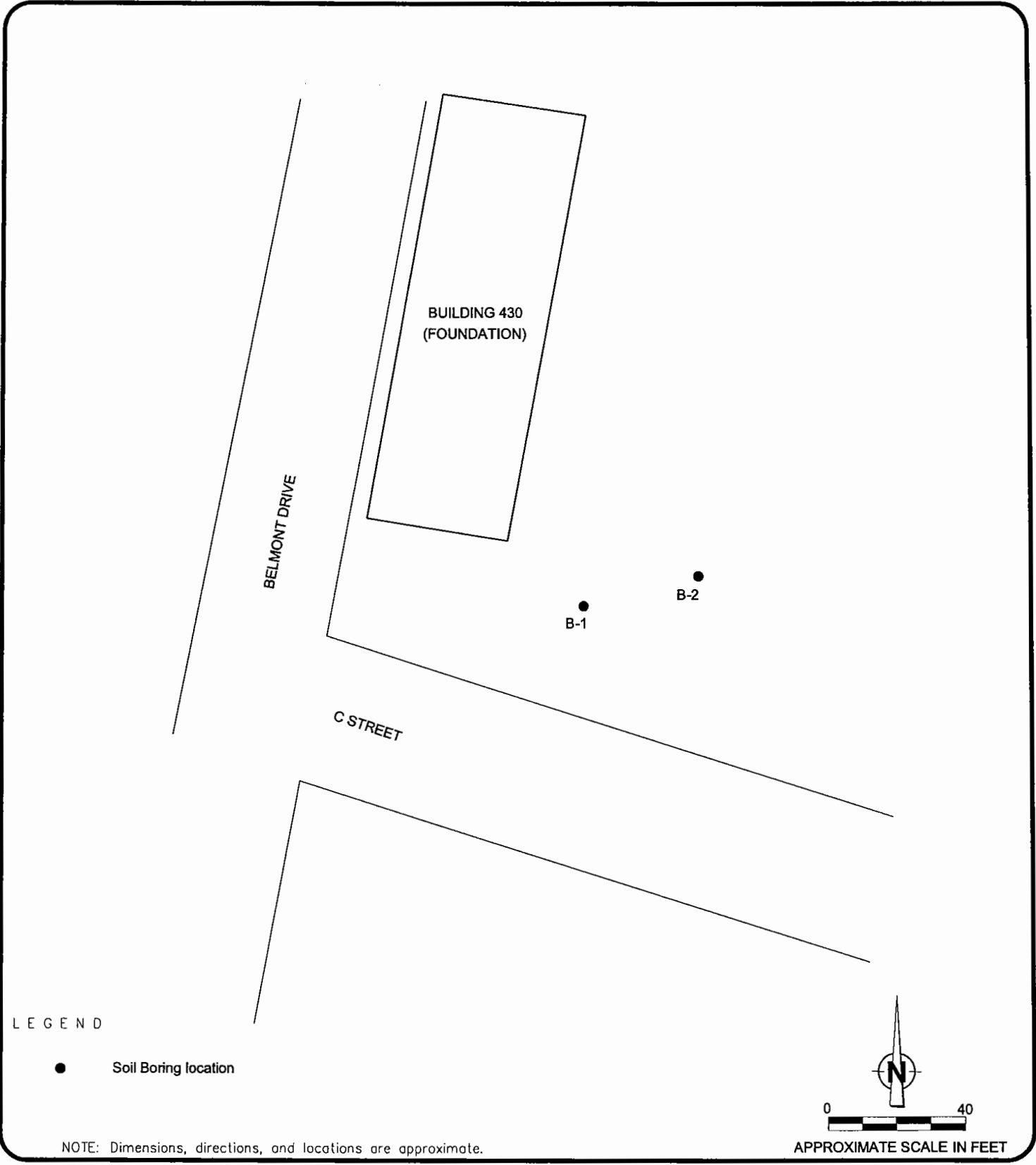


**SAMPLE LOCATION MAP OVERVIEW**  
 BUILDING 430  
 FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

**PROJECT NO.**  
 300983003

**DATE**  
 01/06

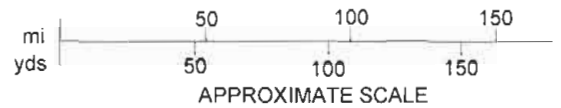
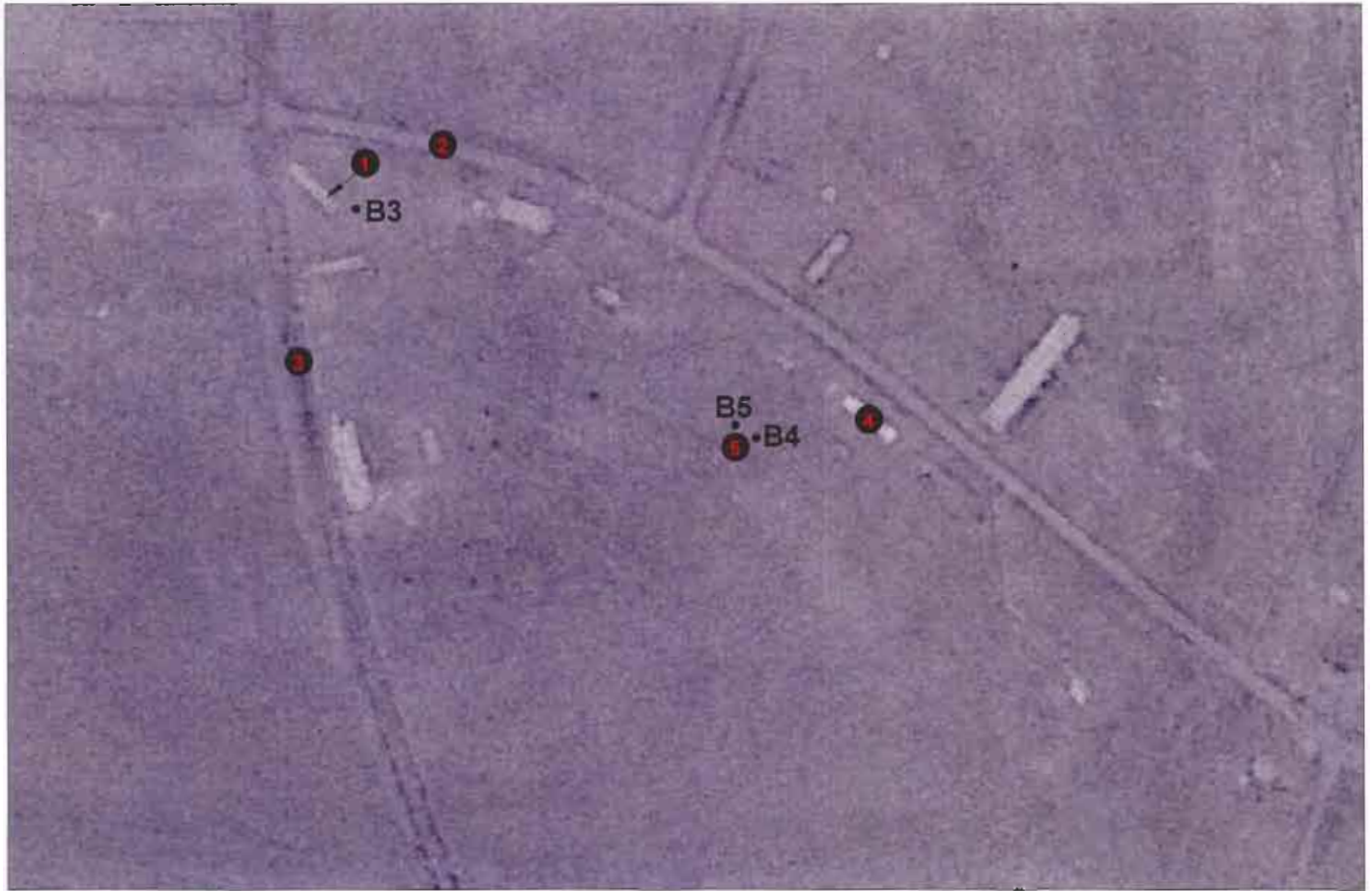
**FIGURE**  
 4a



**SAMPLE LOCATION MAP**  
**FORMER TONOPAH AIRFIELD**  
**TONOPAH, NEVADA**

<b>PROJECT NO.</b>	<b>DATE</b>
300983003	01/06

**FIGURE**  
**4b**



LEGEND

- Soil Boring location
- ① Building 822
- ② Silver Bow Drive
- ③ Belmont Drive
- ④ Building 800
- ⑤ Building 832 (Estimated Former Foundation Location)



NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

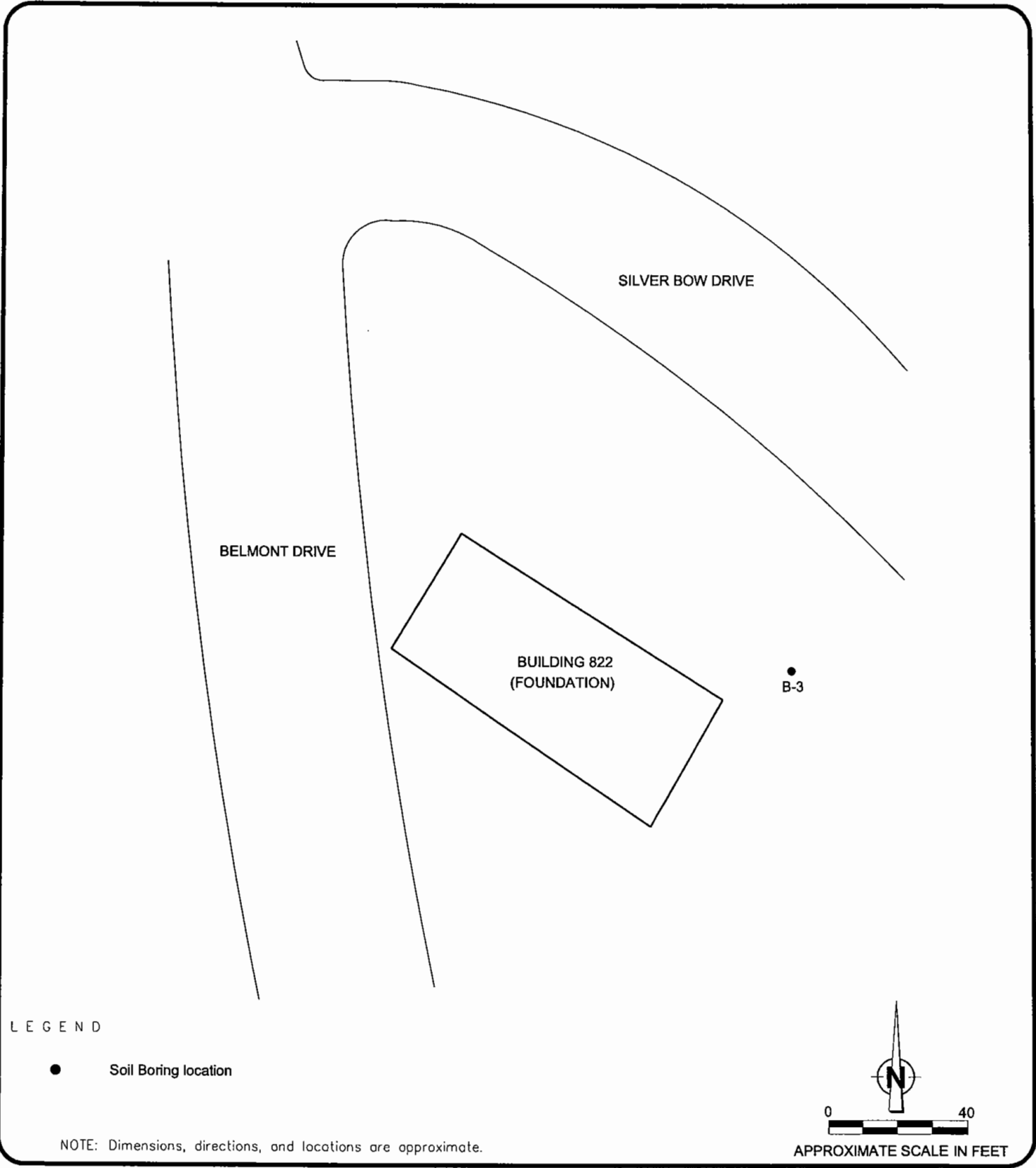
SAMPLE LOCATION MAP OVERVIEW

BUILDINGS 822 AND 832  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
5a



**SAMPLE LOCATION MAP**  
 FORMER TONOPAH AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.	DATE
300983003	01/06

FIGURE  
 5b

SILVER BOW DRIVE

● B-5

● B-4

FORMER BUILDING 832  
(ESTIMATED LOCATION)

BUILDING 800 (FOUNDATION)

LEGEND

● Soil Boring location



APPROXIMATE SCALE IN FEET

NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

SAMPLE LOCATION MAP

FORMER TONOPAH AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.

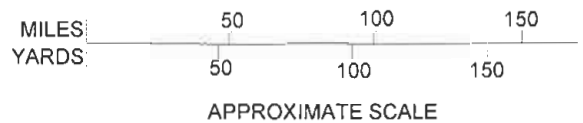
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DATE

01/06

FIGURE

5c



LEGEND

- Soil Boring location
- ① Building 1225
- ② Building 1235
- ③ Building 1245
- ④ Building 1250
- ⑤ Building 1255

NOTE: Dimensions, directions, and locations are approximate.



**Ninyo & Moore**

SAMPLE LOCATION MAP OVERVIEW

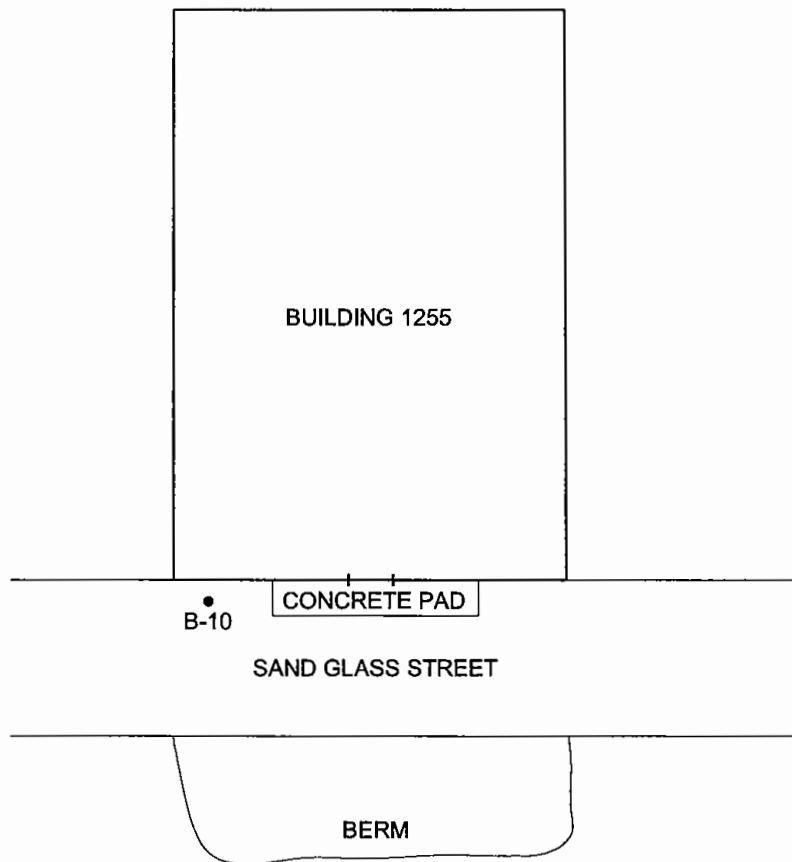
BUILDINGS 1225, 1235, 1245, 1250, AND 1255  
 FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.  
 300983003

DATE  
 01/06

FIGURE  
 6a

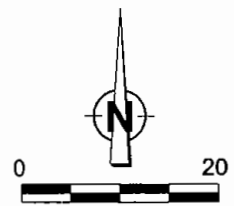




LEGEND

- Soil Boring location

NOTE: Dimensions, directions, and locations are approximate.



APPROXIMATE SCALE IN FEET

***Ninyo & Moore***

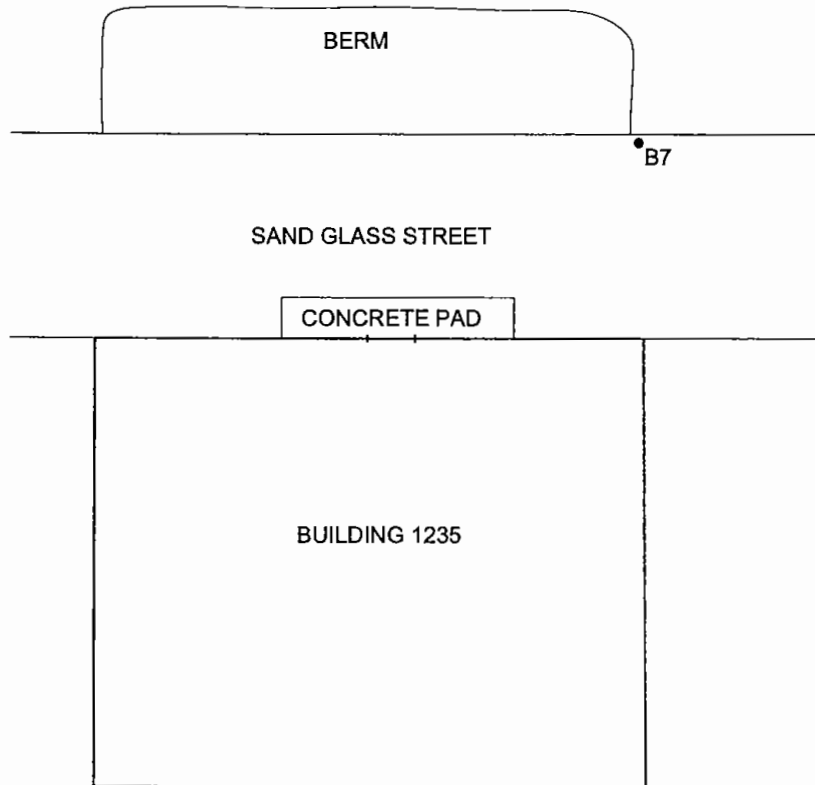
SAMPLE LOCATION MAP

FORMER TONOPAH AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

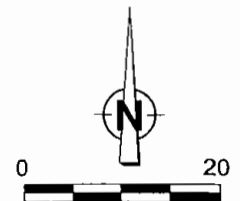
DATE  
01/06

FIGURE  
6b



LEGEND

- Soil Boring location



NOTE: Dimensions, directions, and locations are approximate.

APPROXIMATE SCALE IN FEET

***Ninyo & Moore***

SAMPLE LOCATION MAP

BUILDING 1235  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.

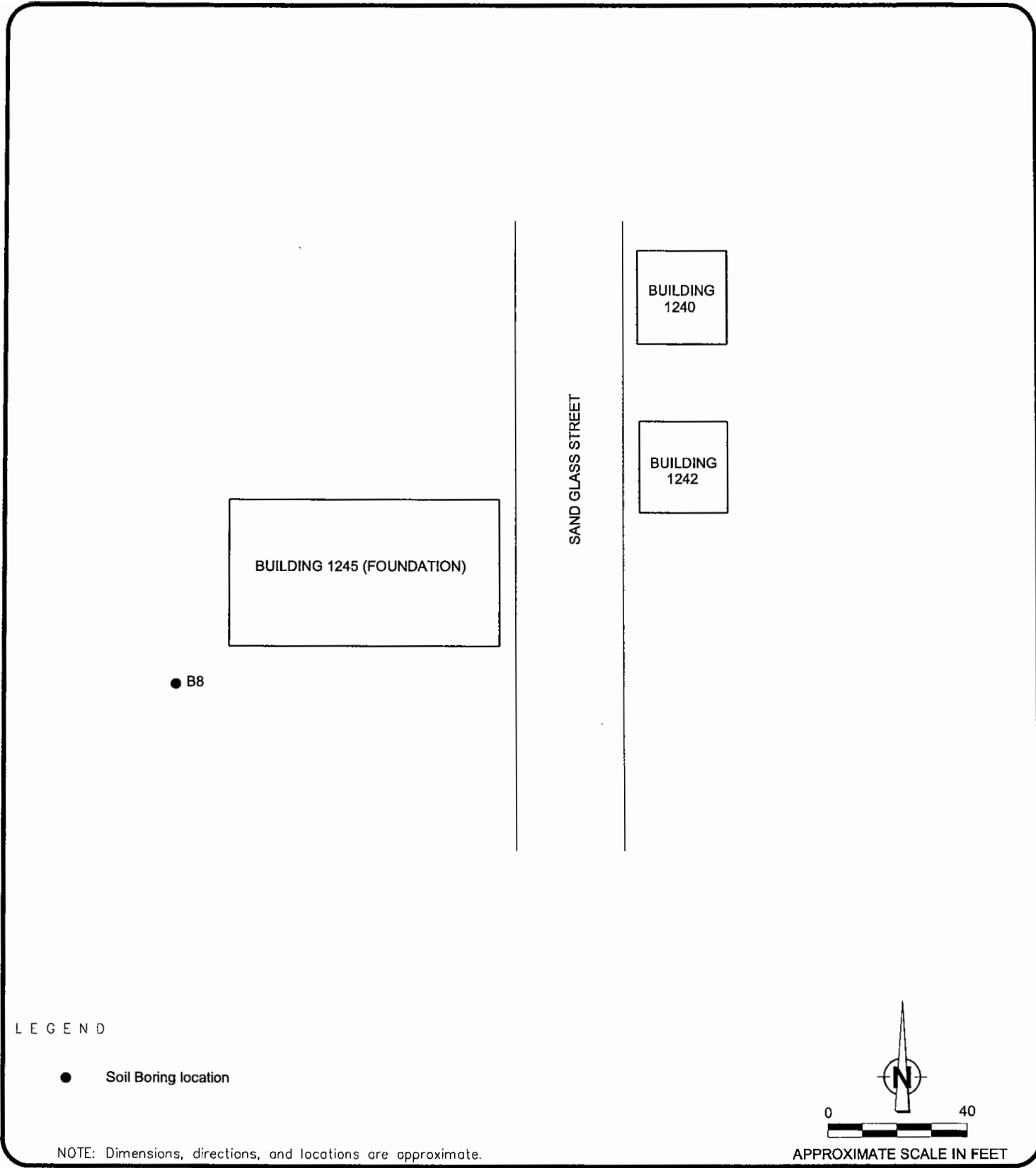
300983003

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01/06

FIGURE

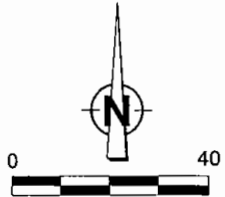
6c



LEGEND

● Soil Boring location

NOTE: Dimensions, directions, and locations are approximate.



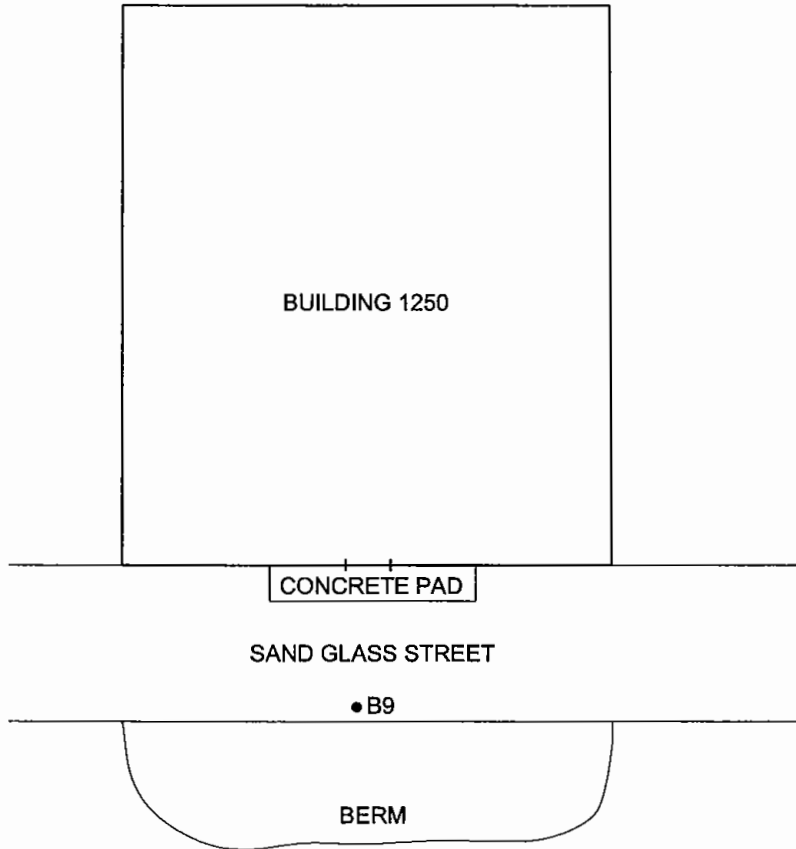
APPROXIMATE SCALE IN FEET



**SAMPLE LOCATION MAP**  
 BUILDING 1245  
 FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

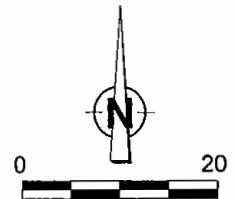
PROJECT NO.	DATE
300983003	01/06

FIGURE  
6d



LEGEND

- Soil Boring location



NOTE: Dimensions, directions, and locations are approximate.

APPROXIMATE SCALE IN FEET

***Ninyo & Moore***

**SAMPLE LOCATION MAP**

**BUILDING 1250  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA**

PROJECT NO.

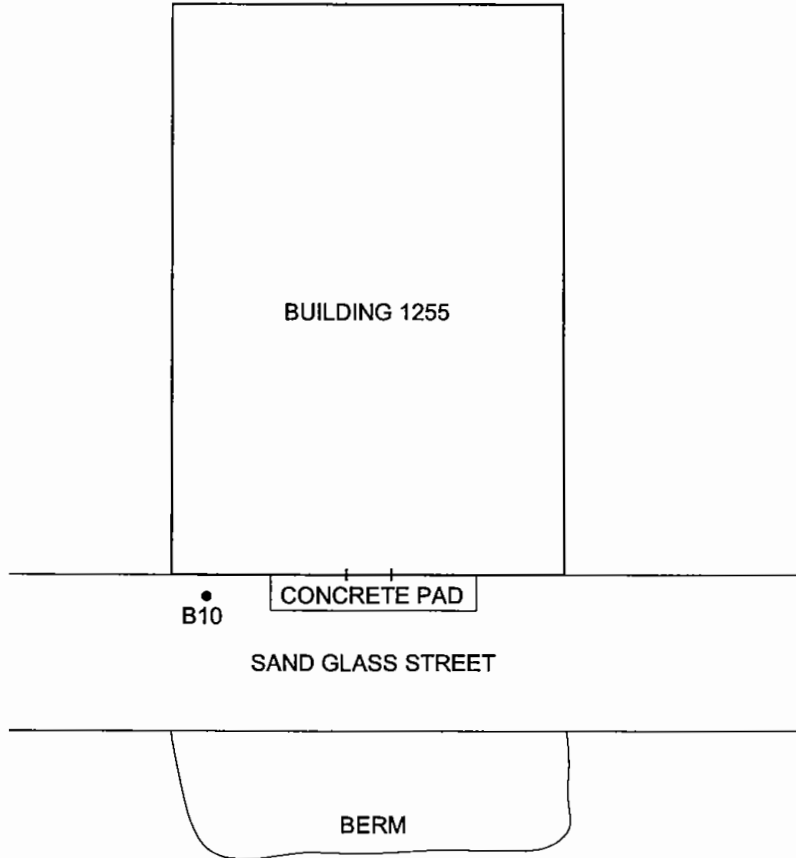
300983003

DATE

01/06

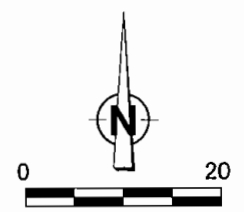
FIGURE

6e



LEGEND

- Soil Boring location



NOTE: Dimensions, directions, and locations are approximate.

APPROXIMATE SCALE IN FEET

***Ninyo & Moore***

**SAMPLE LOCATION MAP**

**BUILDING 1255  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA**

PROJECT NO.

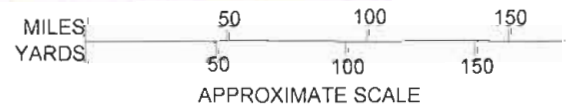
300983003

DATE

01/06

FIGURE

6f



LEGEND

- Soil Boring location



NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

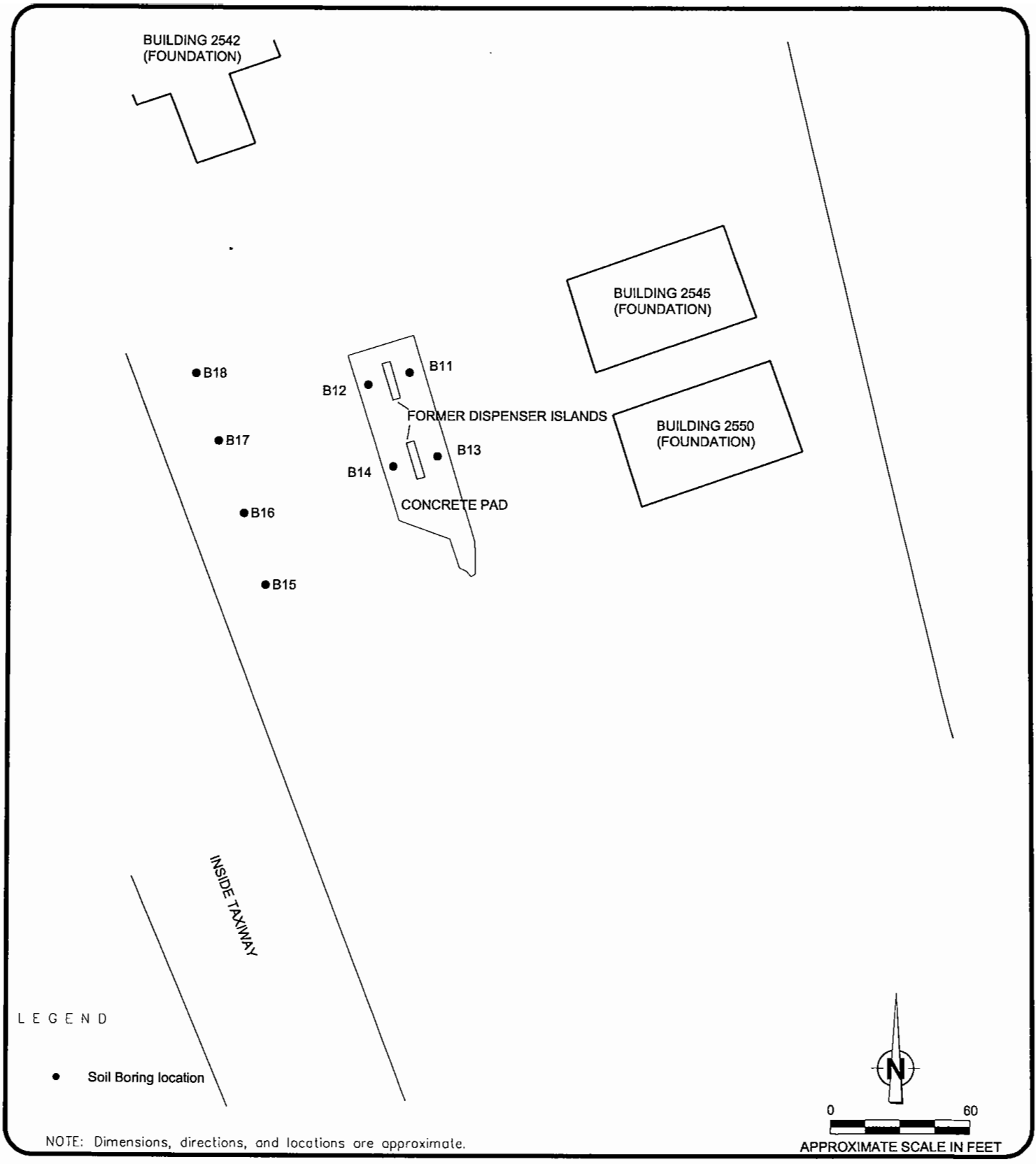
SAMPLE LOCATION MAP OVERVIEW

ACFS INSIDE TAXIWAY  
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

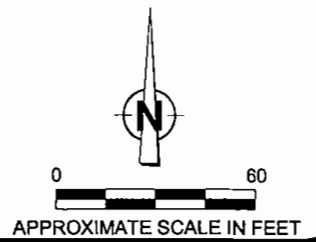
FIGURE  
7a



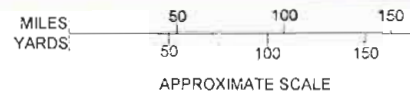
LEGEND

- Soil Boring location

NOTE: Dimensions, directions, and locations are approximate.



<b>SAMPLE LOCATION MAP</b>		
ACFS INSIDE TAXIWAY FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO.	DATE	FIGURE
300983003	01/06	7b



LEGEND

- Soil Boring location



NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

SAMPLE LOCATION MAP OVERVIEW

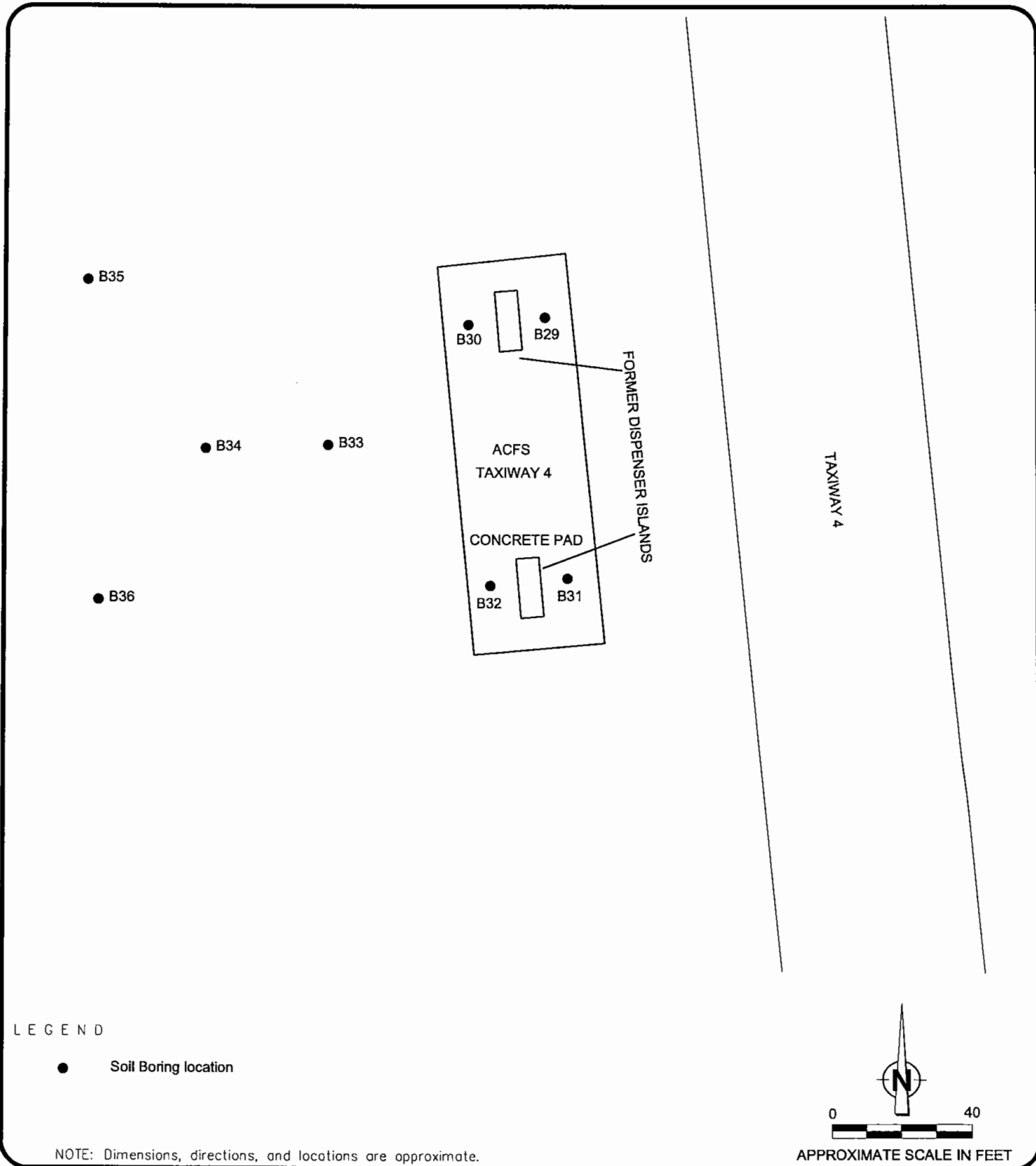
ACFS TAXIWAY 4  
 FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.  
 300983003

DATE  
 01/06

FIGURE  
 8a





**SAMPLE LOCATION MAP**  
 ACFS TAXIWAY 4  
 FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.  
 300983003

DATE  
 01/06

FIGURE  
 8b

**TABLES**

**Table 1. Summary of Field Sampling  
Former Tonopah Army Airfield**

Sample Location	Sample Identification		Sample Matrix	Field Duplicate	Equipment Blank
	Field	Laboratory			
Building 430	B1-S-5-1	080917-005	Soil		
Building 430	B1-S-10-2	080917-006	Soil		
Building 430	B2-S-5-3	080917-007	Soil		
Building 430	B2-S-15-4	080917-008	Soil		
Building 822	B3-S-15-5	080917-010	Soil		
Building 822	B3-S-15-57	080917-009	Soil	X	
Building 832	B4-S-5-6	080917-011	Soil		
Building 832	B4-S-15-7	080917-012	Soil		
Building 832	B5-S-8-8	080917-017	Soil		
Building 832	B5-S-15-9	080917-015	Soil		
Building 832	B5-S-15-58	080917-016	Soil	X	
Building 1225	B6-S-5-10	080917-004	Soil		
Building 1235	B7-S-5-11	080917-003	Soil		
Building 1245	B8-S-5-12	080917-002	Soil		
Building 1245	B8-S-5-59	080917-018	Soil	X	
Building 1250	B9-S-5-13	080917-001	Soil		
Building 1255	B10-S-5-14	080874-024	Soil		
ACFS Inside Taxiway	B11-S-6-15	080874-001	Soil		
ACFS Inside Taxiway	B12-S-6-16	080874-002	Soil		
ACFS Inside Taxiway	B13-S-9-17	080874-021	Soil		
ACFS Inside Taxiway	B14-S-6-18	080874-003	Soil		
ACFS Inside Taxiway	B15-S-15-19	080874-004	Soil		
ACFS Inside Taxiway	B16-S-10-20	080874-006	Soil		
ACFS Inside Taxiway	B16-S-10-60	080874-005	Soil	X	
ACFS Inside Taxiway	B17-S-10-21	080874-007	Soil		
ACFS Inside Taxiway	B17-S-15-22	080874-008	Soil		
ACFS Inside Taxiway	B18-S-10-23	080874-009	Soil		
ACFS Inside Taxiway	B18-S-15-24	080874-010	Soil		
ACFS Taxiway 4	B29-S-9-37	080874-012	Soil		
ACFS Taxiway 4	B29-S-9-61	080874-013	Soil	X	
ACFS Taxiway 4	B30-S-6-38	080874-014	Soil		
ACFS Taxiway 4	B31-S-3-39	080874-011	Soil		
ACFS Taxiway 4	B32-S-6-40	080874-015	Soil		
ACFS Taxiway 4	B33-S-10-41	080874-020	Soil		
ACFS Taxiway 4	B33-S-15-42	080874-022	Soil		
ACFS Taxiway 4	B34-S-5-43	080874-019	Soil		
ACFS Taxiway 4	B34-S-10-44	080874-018	Soil		

**Table 1. Summary of Field Sampling  
Former Tonopah Army Airfield**

Sample Location	Sample Identification		Sample Matrix	Field Duplicate	Equipment Blank
	Field	Laboratory			
ACFS Taxiway 4	B35-S-10-45	080874-023	Soil		
ACFS Taxiway 4	B36-S-5-47	080874-016	Soil		
ACFS Taxiway 4	B36-S-10-48	080874-017	Soil		
Not Applicable	Water 1	080874-025	Water		X
Not Applicable	Water 2	080917-013	Water		X
Not Applicable	Water 3	080917-014	Water		X

**Table 2. Subsurface Soil Analytical Results  
Former Tonopah Army Airfield**

Sample Location	Depth (ft)	Sample Designation	Date Sampled	Organic Vapor Concentration	Organic Lead	TPH-E (Diesel)	TPH-P (Gasoline)	Inorganic Lead	Notes
<b>State Action Level (ppm)</b>									
Building 430	5	B1-S-5-1	12/21/05	0.2	NA	<10	<b>1000</b> <sup>2</sup>	<b>400</b> <sup>1</sup>	
Building 430	10	B1-S-10-2	12/21/05	1.2	NA	<10	<0.96	NA	QC Sample
Building 430	5	B2-S-5-3	12/21/05	0.6	NA	<10	<0.90	NA	
Building 430	15	B2-S-15-4	12/21/05	2.0	NA	<10	<1.5	NA	
Building 822	15	B3-S-15-5	12/21/05	0.1	NA	<10	<1.0	NA	
Building 822	15	B3-S-15-57	12/21/05	0.2	NA	<10	<0.95	NA	Duplicate
Building 832	5	B4-S-5-6	12/21/05	0.1	NA	<10	<0.90	NA	
Building 832	15	B4-S-15-7	12/21/05	0.2	NA	<10	<0.94	NA	
Building 832	8	B5-S-8-8	12/21/05	0.1	NA	<10	<0.92	NA	
Building 832	15	B5-S-15-9	12/21/05	0.1	NA	<10	<1.3	NA	
Building 832	15	B5-S-15-58	12/21/05	0.1	NA	<10	<0.94	NA	Duplicate
Building 1225	5	B6-S-5-10	12/20/05	0.1	NA	36	<1.1	NA	
Building 1235	5	B7-S-5-11	12/20/05	0.2	NA	<10	<0.96	NA	QC Sample
Building 1245	5	B8-S-5-12	12/20/05	0.1	NA	<10	<1.0	NA	
Building 1245	5	B8-S-5-59	12/20/05	0.1	NA	<10	<1.0	NA	Duplicate
Building 1250	5	B9-S-5-13	12/20/05	0.2	NA	<10	<1.2	NA	
Building 1255	5	B10-S-5-14	12/20/05	0.1	NA	33	<1.1	NA	

<sup>1</sup> EPA Region 9 Preliminary Remedial Goal - Residential Soil

Concentrations in bold exceed applicable action level

<sup>2</sup> Site-specific state action level

NA - Not Analyzed

TPH-E: Total Petroleum Hydrocarbons Extractable

Values in bold exceed NDEP action level

TPH-P: Total Petroleum Hydrocarbons Purgeable

Soil results expressed in milligrams per kilograms (mg/kg) (ppm)

**Table 2. Subsurface Soil Analytical Results  
Former Tonopah Army Airfield**

Sample Location	Depth (ft)	Sample Designation	Date Sampled	Organic Vapor Concentration	Organic Lead	TPH-E (Diesel)	TPH-P (Gasoline)	Inorganic Lead	Notes
<b>State Action Level (ppm)</b>									
ACFS Inside Taxiway	6	B11-S-6-15	12/19/05	0.2	<1.0	<10	1000 <sup>2</sup>	400 <sup>1</sup>	
ACFS Inside Taxiway	6	B12-S-6-16	12/19/05	0.1	<1.0	<10	<0.95	2.9	
ACFS Inside Taxiway	9	B13-S-9-17	12/19/05	0.2	<1.0	<10	<0.92	3.8	
ACFS Inside Taxiway	6	B14-S-6-18	12/19/05	0.3	<1.0	<10	<1.1	4.2	
ACFS Inside Taxiway	15	B15-S-15-19	12/19/05	0.2	<1.0	<10	<1.0	2.2	
ACFS Inside Taxiway	10	B16-S-10-20	12/19/05	0.1	<1.0	<10	<0.95	4.0	
ACFS Inside Taxiway	10	B16-S-10-60	12/19/05	0.1	<1.0	<10	<0.93	3.7	Duplicate
ACFS Inside Taxiway	10	B17-S-10-21	12/19/05	0.2	<1.0	<10	<0.96	4.2	
ACFS Inside Taxiway	15	B17-S-15-22	12/19/05	0.1	<1.0	<10	<0.94	4.2	
ACFS Inside Taxiway	10	B18-S-10-23	12/19/05	0.1	<1.0	<10	<1.1	5.0	
ACFS Inside Taxiway	15	B18-S-15-24	12/19/05	0.1	<1.0	<10	<1.2	5.1	
ACFS Taxiway 4	9	B29-S-9-37	12/20/05	0.1	<1.0	<10	<1.0	2.9	
ACFS Taxiway 4	9	B29-S-9-61	12/20/05	0.1	<1.0	<10	<1.2	3.4	Duplicate
ACFS Taxiway 4	6	B30-S-6-38	12/20/05	0.5	<1.0	<10	<0.97	2.7	
ACFS Taxiway 4	3	B31-S-3-39	12/20/05	0.1	<1.0	<10	<1.0	3.6	
ACFS Taxiway 4	6	B32-S-6-40	12/20/05	2.4	<1.0	<10	<0.96	21.0	
ACFS Taxiway 4	10	B33-S-10-41	12/20/05	0.2	<1.0	<10	<0.93	9.2	
ACFS Taxiway 4	15	B33-S-15-42	12/20/05	0.1	<1.0	<10	<0.86	6.6	QC Sample

<sup>1</sup> EPA Region 9 Preliminary Remedial Goal - Residential Soil

Concentrations in bold exceed applicable action level

<sup>2</sup> Site-specific state action level

NA - Not Analyzed

TPH-E: Total Petroleum Hydrocarbons Extractable

Values in bold exceed NDEP action level

TPH-P: Total Petroleum Hydrocarbons Purgeable

Soil results expressed in milligrams per kilograms (mg/kg) (ppm)

**Table 2. Subsurface Soil Analytical Results  
Former Tonopah Army Airfield**

Sample Location	Depth (ft)	Sample Designation	Date Sampled	Organic Vapor Concentration	Organic Lead	TPH-E (Diesel)	TPH-P (Gasoline)	Inorganic Lead	Notes
<b>State Action Level (ppm)</b>									
ACFS Taxiway 4	5	B34-S-5-43	12/20/05	0.1	<1.0	12	<0.93	18	
ACFS Taxiway 4	10	B34-S-10-44	12/20/05	0.1	<1.0	13	<1.0	15	
ACFS Taxiway 4	10	B35-S-10-45	12/20/05	0.1	<1.0	<10	<1.0	3.4	
ACFS Taxiway 4	5	B36-S-5-47	12/20/05	0.1	<1.0	<10	<0.99	5.1	
ACFS Taxiway 4	10	B36-S-10-48	12/20/05	0.2	<1.0	<10	<0.97	3.9	

<sup>1</sup> EPA Region 9 Preliminary Remedial Goal - Residential Soil

<sup>2</sup> Site-specific state action level

TPH-E: Total Petroleum Hydrocarbons Extractable

TPH-P: Total Petroleum Hydrocarbons Purgeable

Concentrations in bold exceed applicable action level

NA - Not Analyzed

Values in bold exceed NDEP action level

Soil results expressed in milligrams per kilograms (mg/kg) (ppm)

**Table 3. Equipment Blank Analytical Results  
Former Tonopah Army Airfield**

<b>Sample Designation</b>	<b>Date Sampled</b>	<b>Organic Lead</b>	<b>TPH-E (Diesel)</b>	<b>TPH-P (Gasoline)</b>	<b>Inorganic Lead</b>	<b>Notes</b>
Water-1	12/19/05	<0.10	<0.20	<0.20	<0.0050	Equipment Blank
Water-2	12/20/05	<0.10	<0.20	<0.20	<0.0050	Equipment Blank
Water-3	12/21/05	NA	<0.20	<0.20	NA	Equipment Blank

TPH-E: Total Petroleum Hydrocarbons Extractable Values expressed in milligrams per liter (mg/L)

TPH-P: Total Petroleum Hydrocarbons Purgeable NA - Not Analyzed



**APPENDIX A**

**Boring Logs**

DEPTH (feet)	Bulk	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/21/05</u>	BORING NO. <u>B1</u>	
	Driven								GROUND ELEVATION <u>5,448'</u>	SHEET <u>1</u> OF <u>1</u>	
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
DESCRIPTION/INTERPRETATION											

0								SM	<u>ALLUVIUM:</u> Light brown, dry, loose, silty SAND with gravel.	
5						0.2				
10						1.2				
15									No recovery.	

Total depth = 15.0 feet.  
 Boring completed on 12/21/05.  
 Latitude: 38.06255  
 Longitude: 117.10803

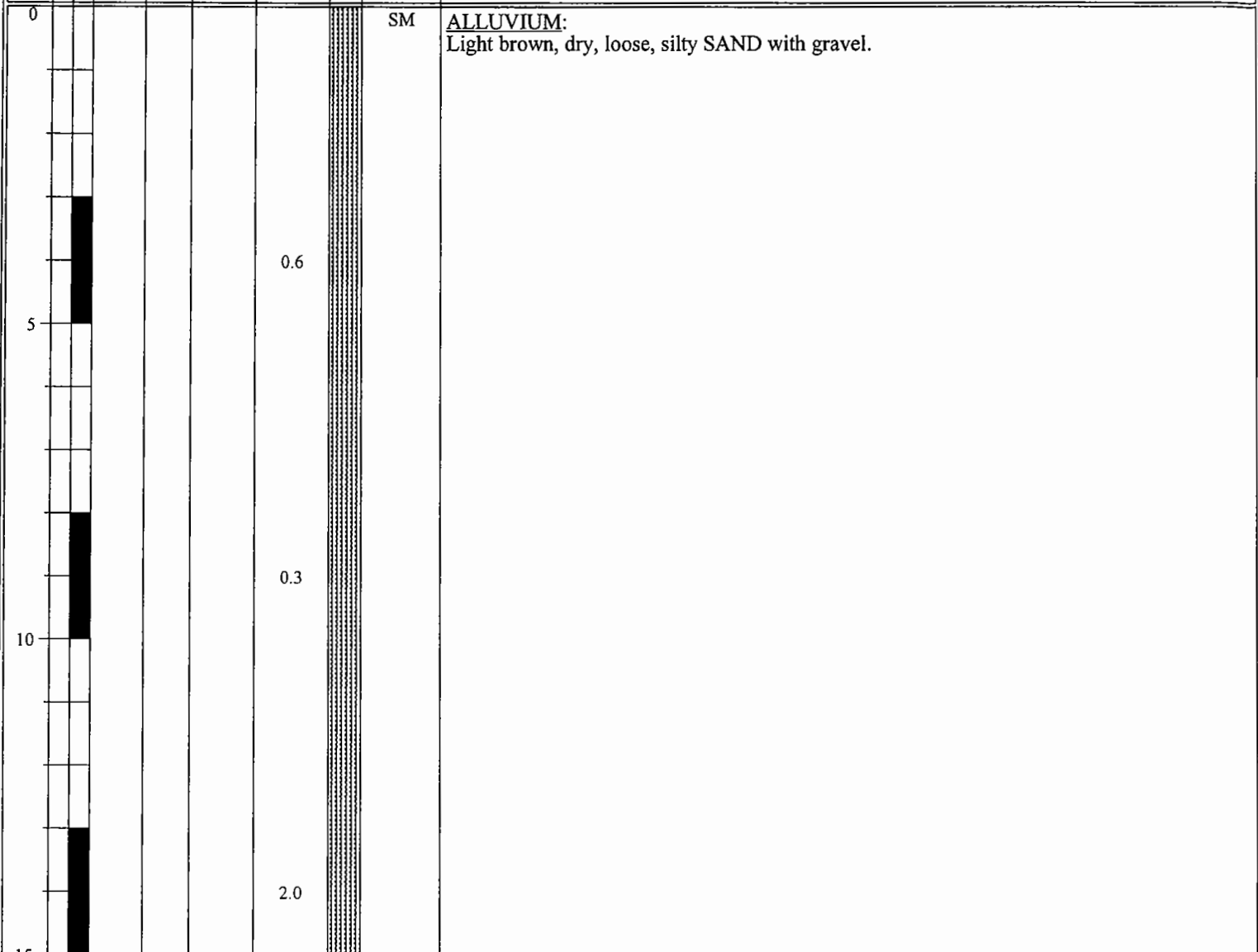


**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.	DATE	FIGURE
300983003	01/06	A-1

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/21/05</u>	BORING NO. <u>B2</u>
	Bulk	Driven							GROUND ELEVATION <u>5,448'</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____	DROP _____
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
DESCRIPTION/INTERPRETATION										

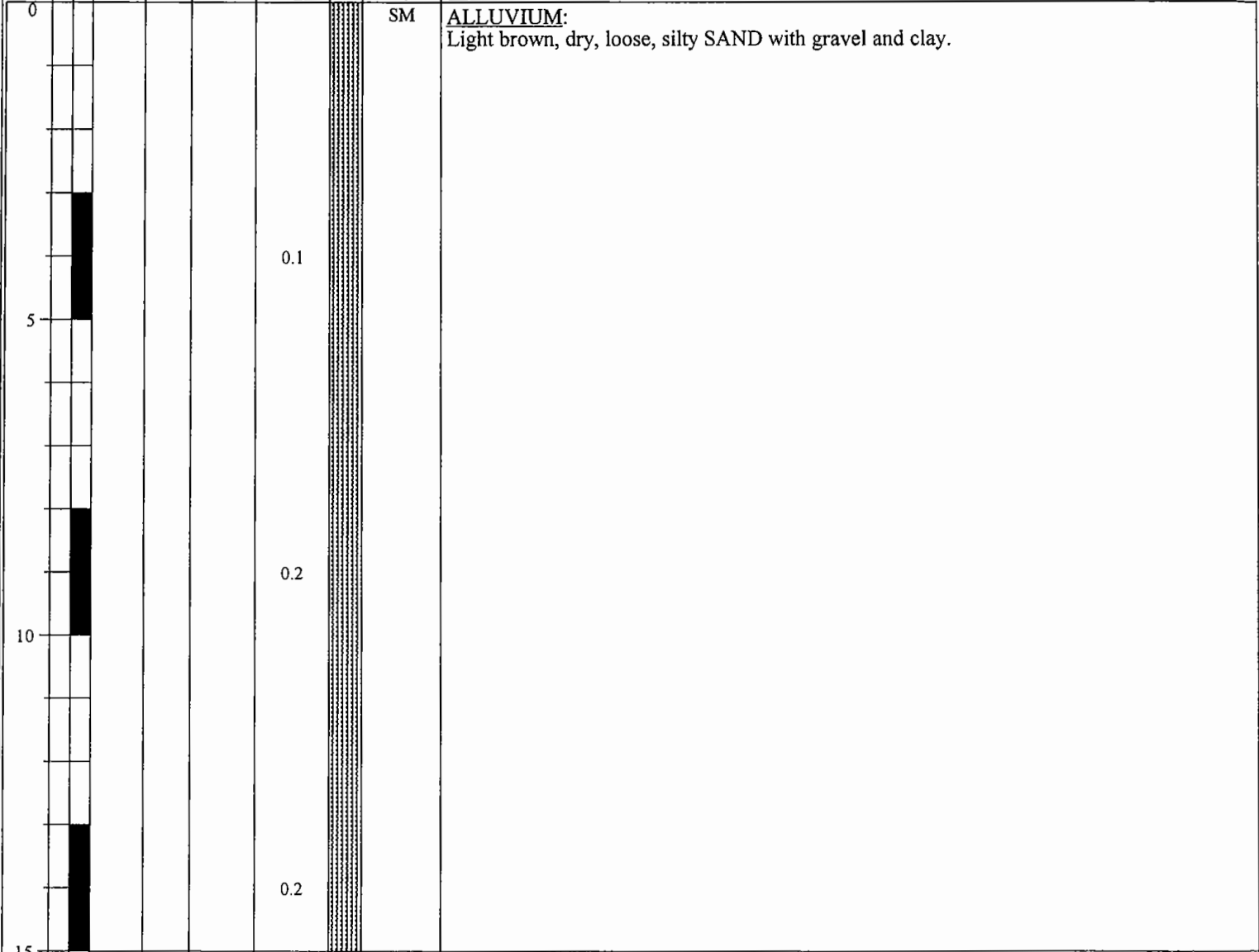


Total depth = 15.0 feet.  
 Boring completed on 12/21/05.  
 Latitude: 38.06258  
 Longitude: 117.10797



BORING LOG		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-2

DEPTH (feet)	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/21/05</u>	BORING NO. <u>B3</u>
	Driven							SAMPLES	GROUND ELEVATION <u>5,409'</u>
								METHOD OF DRILLING <u>Direct-push technology</u>	
								DRIVE WEIGHT _____	DROP _____
								SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
DESCRIPTION/INTERPRETATION									

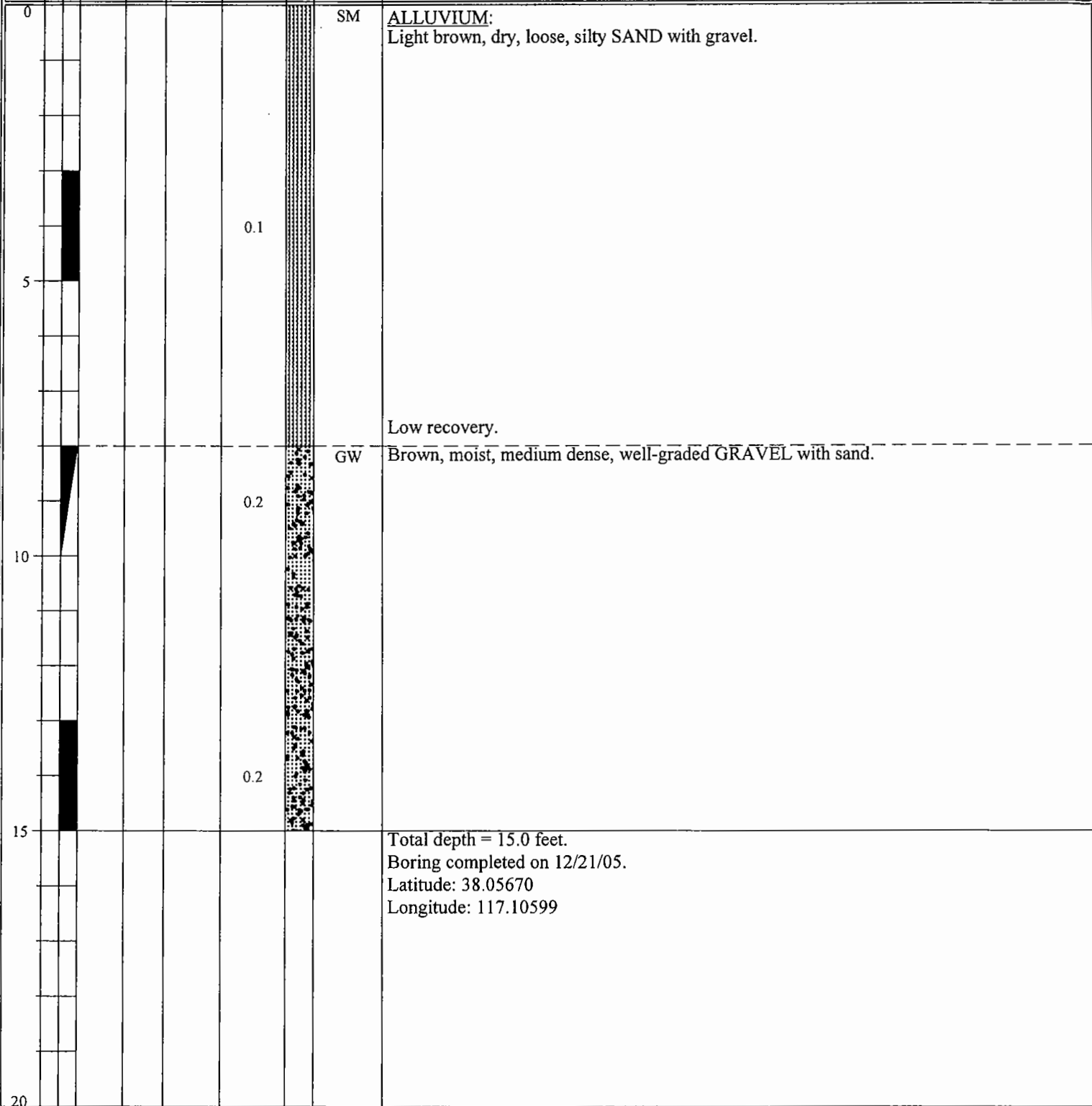


Total depth = 15.0 feet.  
 Boring completed on 12/21/05.  
 Latitude: 38.05757  
 Longitude: 117.10827



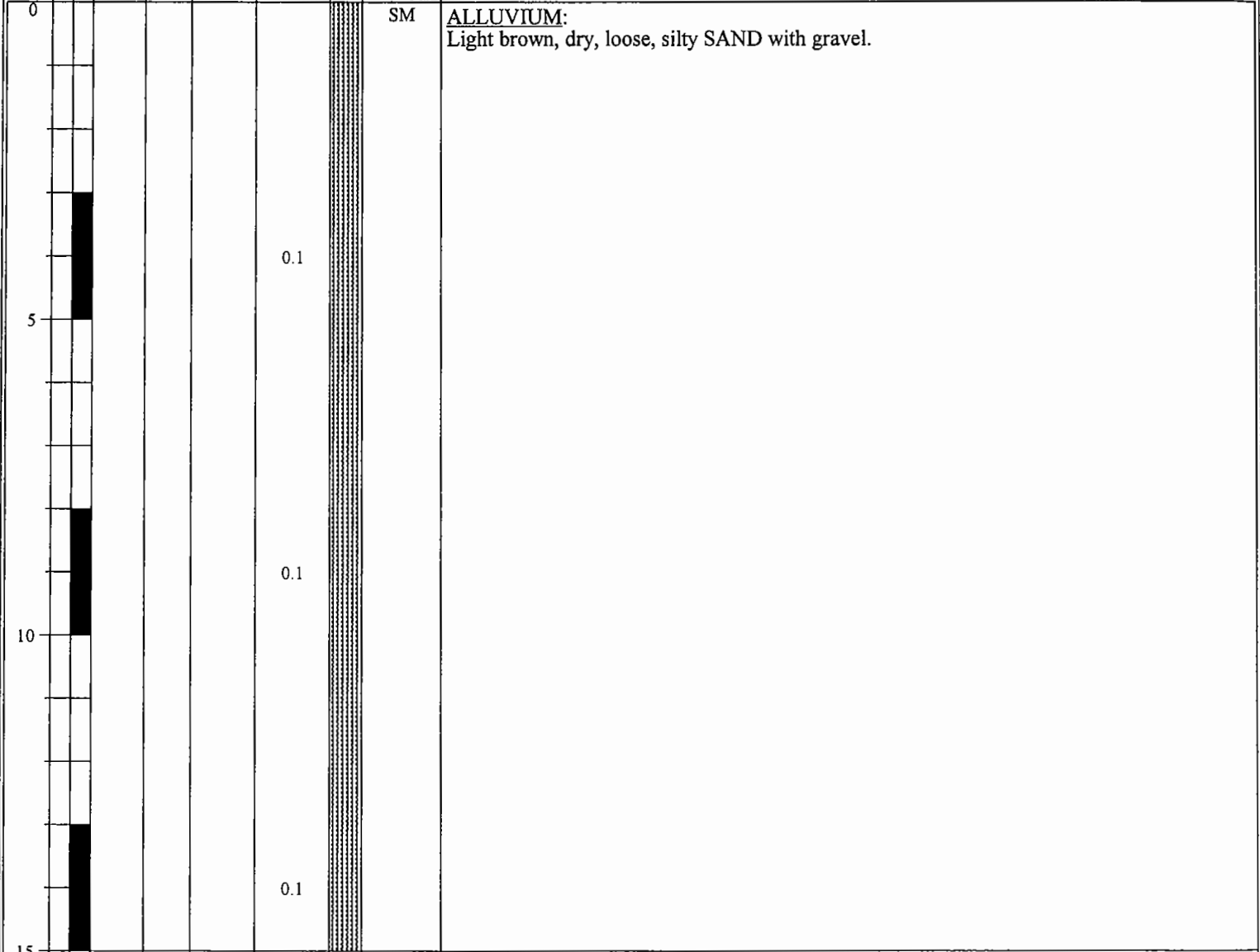
BORING LOG		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-3

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/21/05</u>	BORING NO. <u>B4</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,411'</u>	SHEET <u>1</u> OF <u>1</u>	
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
DESCRIPTION/INTERPRETATION											



<b>BORING LOG</b>		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-4

DEPTH (feet)	Bulk	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/21/05</u>	BORING NO. <u>B5</u>
	Driven							GROUND ELEVATION <u>5,411'</u>	SHEET <u>1</u> OF <u>1</u>
								METHOD OF DRILLING <u>Direct-push technology</u>	
								DRIVE WEIGHT _____ DROP _____	
								SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
DESCRIPTION/INTERPRETATION									



Total depth = 15.0 feet.  
 Boring completed on 12/21/05.  
 Latitude: 38.05675  
 Longitude: 117.10604



BORING LOG		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-5

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
	Bulk	Driven							12/20/05	B6	
									GROUND ELEVATION	SHEET	OF
									METHOD OF DRILLING	Direct-push technology	
									DRIVE WEIGHT	DROP	
									SAMPLED BY	LOGGED BY	REVIEWED BY
									ADS	RCJ	RMT
									DESCRIPTION/INTERPRETATION		
0								SM	<u>FILL:</u> Brown, moist, medium dense, silty SAND with gravel.		
								GW	<u>ALLUVIUM:</u> Brown, moist, medium dense, well-graded GRAVEL with sand.		
					0.1				Total depth = 5.0 feet. Boring completed on 12/20/05. Latitude: 38.07171 Longitude: 117.08825		
5											
10											
15											
20											

**Ninyo & Moore**

**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-6

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION		
	Bulk	Driven							DATE DRILLED	BORING NO.	
									12/20/05	B7	
									5,396'		1 OF 1
									Direct-push technology		
0								SM			
								GW			
						0.2					
5											
10											
15											
20											

FILL:  
Brown, dry, medium dense, silty SAND with gravel.

ALLUVIUM:  
Brown, moist, medium dense, well-graded GRAVEL with sand.

Total depth = 5.0 feet.  
Boring completed on 12/20/05.  
Latitude: 38.07175  
Longitude: 117.08506



BORING LOG		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-7



DEPTH (feet)	Bulk Samples Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
								12/20/05	B8	
								GROUND ELEVATION	SHEET	OF
								METHOD OF DRILLING	Direct-push technology	
								DRIVE WEIGHT	DROP	
								SAMPLED BY	LOGGED BY	REVIEWED BY
								ADS	RCJ	RMT
								DESCRIPTION/INTERPRETATION		
0							SM	<u>FILL:</u>		
							GW	Light brown, moist, medium dense, silty SAND with gravel.		
								<u>ALLUVIUM:</u>		
								Brown, moist, medium dense, well-graded GRAVEL with sand.		
5					0.1			Total depth = 5.0 feet. Boring completed on 12/20/05 Latitude: 38.07022 Longitude: 117.08449		
10										
15										
20										



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-8

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B9</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,395'</u>	SHEET <u>1</u> OF <u>1</u>
0									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
									DESCRIPTION/INTERPRETATION	
								SM	<u>FILL:</u> Brown, moist, medium dense, silty SAND with gravel.	
								GW	<u>ALLUVIUM:</u> Brown, moist, medium dense, well-graded GRAVEL with sand.	
5						0.2			Total depth = 5.0 feet. Boring completed on 12/20/05. Latitude: 38.07022 Longitude: 117.08449	
10										
15										
20										



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-9

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
	Bulk	Driven							12/20/05	B10	
									GROUND ELEVATION	SHEET	OF
									METHOD OF DRILLING	Direct-push technology	
									DRIVE WEIGHT	DROP	
									SAMPLED BY	LOGGED BY	REVIEWED BY
									ADS	RCJ	RMT
									DESCRIPTION/INTERPRETATION		
0								SM	FILL:		
								GW	Brown, moist, medium dense, silty SAND with gravel.		
									ALLUVIUM:		
									Brown, moist, medium dense, well-graded GRAVEL with sand (coarse-grained).		
5						0.1			Total depth = 5.0 feet.		
									Boring completed on 12/20/05.		
									Latitude: 38.07027		
									Longitude: 117.08610		
10											
15											
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-10

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u> BORING NO. <u>B11</u>		
	Bulk	Driven							GROUND ELEVATION <u>5,405'</u>	SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct-push technology</u>
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
									DESCRIPTION/INTERPRETATION		
0								SM	<u>CONCRETE:</u> Approximately 6" thick.		
						0.1			<u>FILL:</u> Light brown, moist, medium dense, silty SAND with gravel.		
								GW	<u>ALLUVIUM:</u> Dark brown, moist, medium dense, well-graded GRAVEL with sand (coarse sand).		
						0.1					
10									Total depth = 9.0 feet. Boring completed on 12/19/05. Latitude: 38.05825 Longitude: 117.09542		
15											
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-11

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u> BORING NO. <u>B12</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,405'</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
									DESCRIPTION/INTERPRETATION	
0								SM	<u>CONCRETE:</u> Approximately 6" thick.	
						0.1			<u>FILL:</u> Light brown, moist, medium dense, silty SAND with gravel.	
								GW	<u>ALLUVIUM:</u> Brown, moist, medium dense, well-graded GRAVEL with sand (coarse sand).	
						0.1				
						0.1				
10									Total depth = 9.0 feet. Boring completed on 12/19/05. Latitude: 38.05823 Longitude: 117.09549	
15										
20										



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-12

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION																					
	Bulk	Driven							DATE DRILLED	BORING NO.	GROUND ELEVATION	SHEET	OF	METHOD OF DRILLING	DRIVE WEIGHT	DROP	SAMPLED BY	LOGGED BY	REVIEWED BY											
0									DATE DRILLED	12/19/05	BORING NO.	B13	GROUND ELEVATION	5,402'	SHEET	1	OF	1	METHOD OF DRILLING	Direct-push technology	DRIVE WEIGHT		DROP		SAMPLED BY	ADS	LOGGED BY	RCJ	REVIEWED BY	RMT
0								SM	<b>CONCRETE:</b> Approximately 6" thick.																					
0.1									<b>FILL:</b> Light reddish brown, moist, medium dense, silty SAND.																					
5								GW	<b>ALLUVIUM:</b> Brown, moist, medium dense, well-graded GRAVEL with sand (coarse sand).																					
0.2									Minor staining present.																					
10									Total depth = 9.0 feet. Boring completed 12/19/05. Latitude: 38.05808 Longitude: 117.09538																					
15																														
20																														



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.  
 300983003

DATE  
 01/06

FIGURE  
 A-13

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
	Bulk	Driven							12/19/05	B14	
									GROUND ELEVATION	SHEET	OF
									5,401'	1	1
									METHOD OF DRILLING		
									Direct-push technology		
									DRIVE WEIGHT	DROP	
									SAMPLED BY	LOGGED BY	REVIEWED BY
									ADS	RCJ	RMT
									DESCRIPTION/INTERPRETATION		
0									<b>CONCRETE:</b> Approximately 6" thick.		
								SM			
								GW	<b>ALLUVIUM:</b> Light brown, moist, medium dense, silty SAND with gravel. Dark brown, moist, medium dense, well-graded GRAVEL with sand (coarse sand).		
0.1											
0.3											
5											
								SW	Dark brown, moist, medium dense, well-graded SAND with gravel.		
0.1											
10									Total depth = 9.0 feet. Boring completed on 12/19/05. Latitude: 38.05804 Longitude: 117.09542		
15											
20											



**BORING LOG**

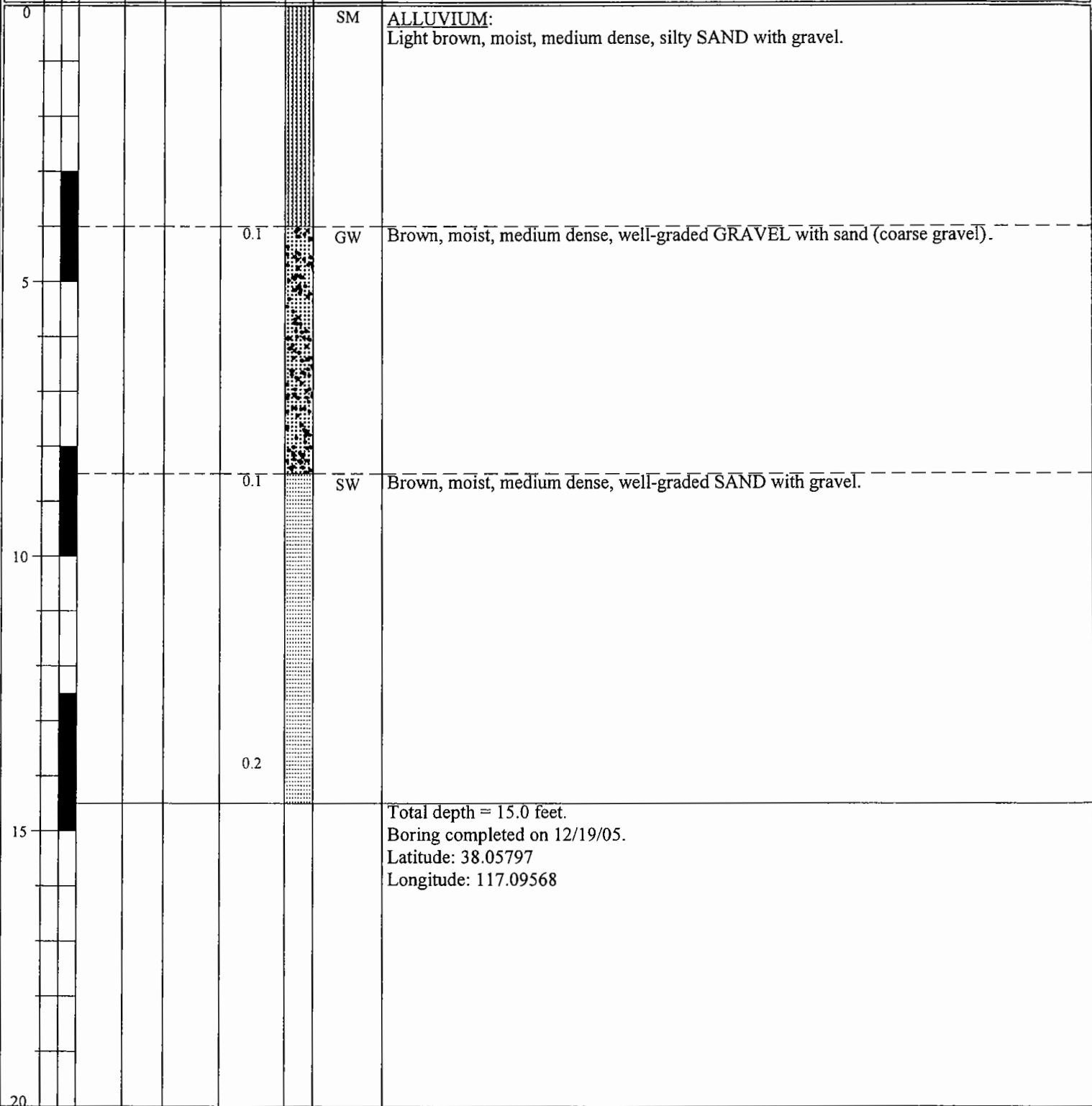
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-14

DEPTH (feet)	Bulk	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u>	BORING NO. <u>B15</u>
	Driven								GROUND ELEVATION <u>5,403'</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
DESCRIPTION/INTERPRETATION										



BORING LOG		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-15



DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u> BORING NO. <u>B16</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,404'</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
									DESCRIPTION/INTERPRETATION	
								SM	<u>ALLUVIUM:</u> Light brown, moist, medium dense, silty SAND with gravel.	
5						0.1		GW	Brown, moist, medium dense, well-graded GRAVEL with sand. Low recovery.	
						0.1		SW	Brown, moist, medium dense, well-graded SAND with gravel.	
10								CL-ML	Brown, moist, firm silty CLAY with sand.	
						0.1		SW	Brown, moist, medium dense, well-graded SAND with gravel.	
15									Total depth = 15.0 feet. Boring completed on 12/19/05. Latitude: 38.05806 Longitude: 117.09573	
20										



**BORING LOG**

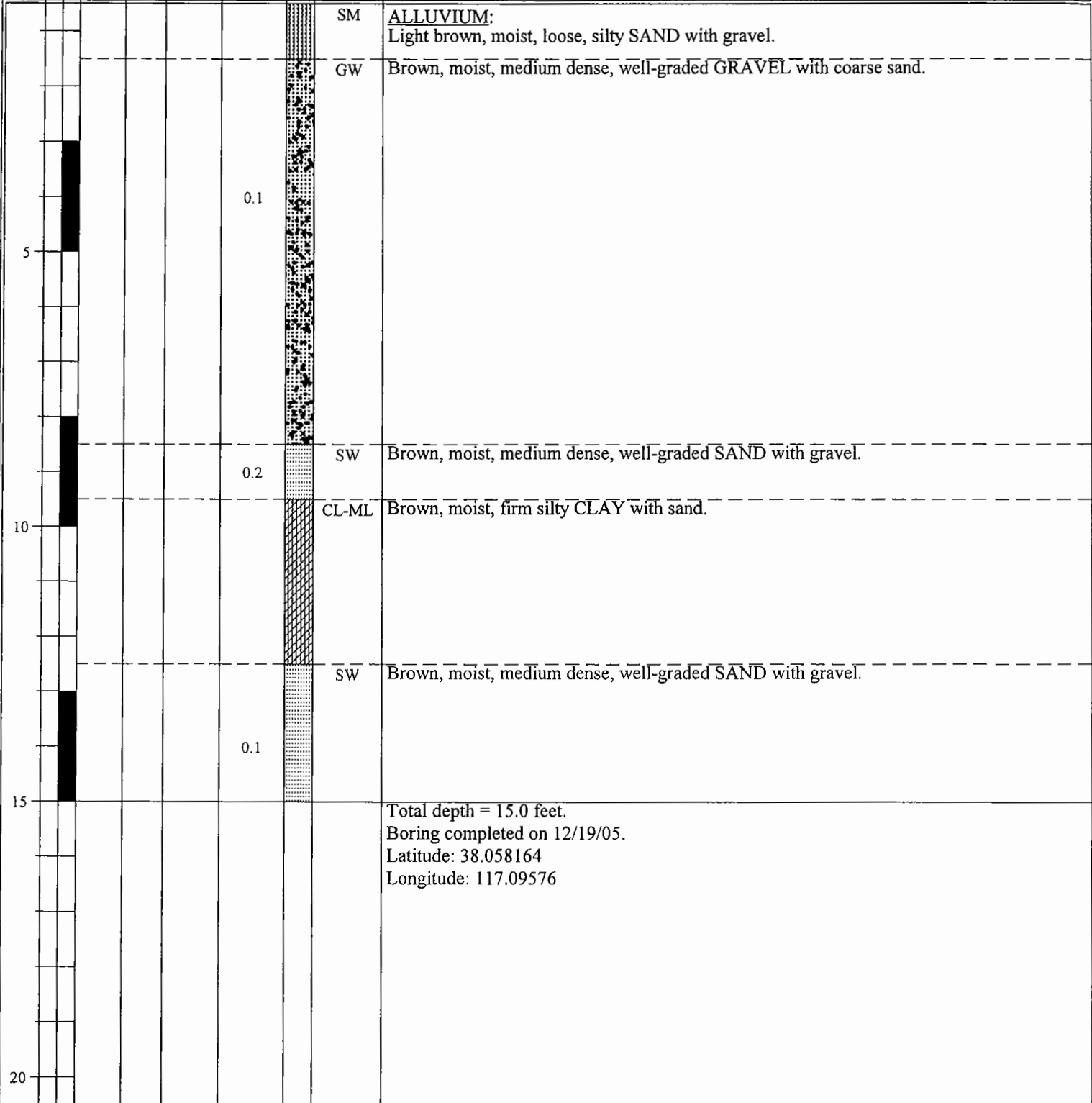
FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-16

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u>	BORING NO. <u>B17</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,401'</u>	SHEET <u>1</u> OF <u>1</u>	
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
DESCRIPTION/INTERPRETATION											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-17

DEPTH (feet)	Bulk Driven	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/19/05</u> BORING NO. <u>B18</u>		
									GROUND ELEVATION <u>5,402'</u> SHEET <u>1</u> OF <u>1</u>		
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____ DROP _____		
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>		
									DESCRIPTION/INTERPRETATION		
0								SM	<b>ALLUVIUM:</b>		
								GW	Light brown, moist, loose, silty SAND with gravel.		
						0.1			Brown, moist, medium dense, well-graded GRAVEL with sand (coarse).		
5											
								SW	Brown, moist, medium dense, well-graded SAND with gravel.		
						0.1					
10								CL-ML	Brown, moist, firm silty CLAY with sand.		
								SW	Brown, moist, medium dense, well-graded SAND with gravel.		
						0.1					
15									Total depth = 15.0 feet.		
									Boring completed on 12/19/05.		
									Latitude: 38.85821		
									Longitude: 117.09581		
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-18



DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B30</u>		
	Bulk	Driven							GROUND ELEVATION <u>5,396'</u>	SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct-push technology</u>
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
									DESCRIPTION/INTERPRETATION		
0								SM	<u>CONCRETE:</u> Approximately 6" thick.		
0.1									<u>FILL:</u> Light brown, moist, medium dense, silty SAND (fine to medium grained).		
5								GW	<u>ALLUVIUM:</u> Brown, moist, medium dense, well-graded GRAVEL with sand.		
0.1								SW	Brown, moist, medium dense, well-graded SAND (medium grained).		
10									Total depth = 9.0 feet. Boring completed on 12/20/05. Latitude: 38.04867 Longitude: 117.08972		
15											
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-20

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B31</u>		
	Bulk	Driven							GROUND ELEVATION <u>5,396'</u> SHEET <u>1</u> OF <u>1</u>		
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____ DROP _____		
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>		
									DESCRIPTION/INTERPRETATION		
0								CL-ML	CONCRETE: Approximately 6" thick.		
								GW	FILL: Light brown, moist, firm, silty CLAY with gravel.		
					0.1				ALLUVIUM: Brown, moist, medium dense, well-graded GRAVEL with sand (coarse).		
5					0.1						
					0.1			SW	Brown, moist, medium dense, well-graded SAND with gravel.		
10									Total depth = 9.0 feet. Boring completed on 12/20/05. Latitude: 38.04850 Longitude: 117.08960		
15											
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-21

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B32</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,393'</u>	SHEET <u>1</u> OF <u>1</u>
									METHOD OF DRILLING <u>Direct-push technology</u>	
									DRIVE WEIGHT _____ DROP _____	
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>	
									DESCRIPTION/INTERPRETATION	
0								CL-ML	<b>CONCRETE:</b> Approximately 6" thick.	
1.1									<b>FILL:</b> Light brown, moist, medium dense, silty CLAY with sand (strong petroleum odor).	
2.4								GW	<b>ALLUVIUM:</b> Brown, moist, medium dense, well-graded GRAVEL with sand.	
0.5								SW	Brown, moist, medium dense, well-graded SAND (medium grained).	
10									Total depth = 9.0 feet. Boring completed on 12/20/05. Latitude: 38.04867 Longitude: 117.08972	
15										
20										



**BORING LOG**

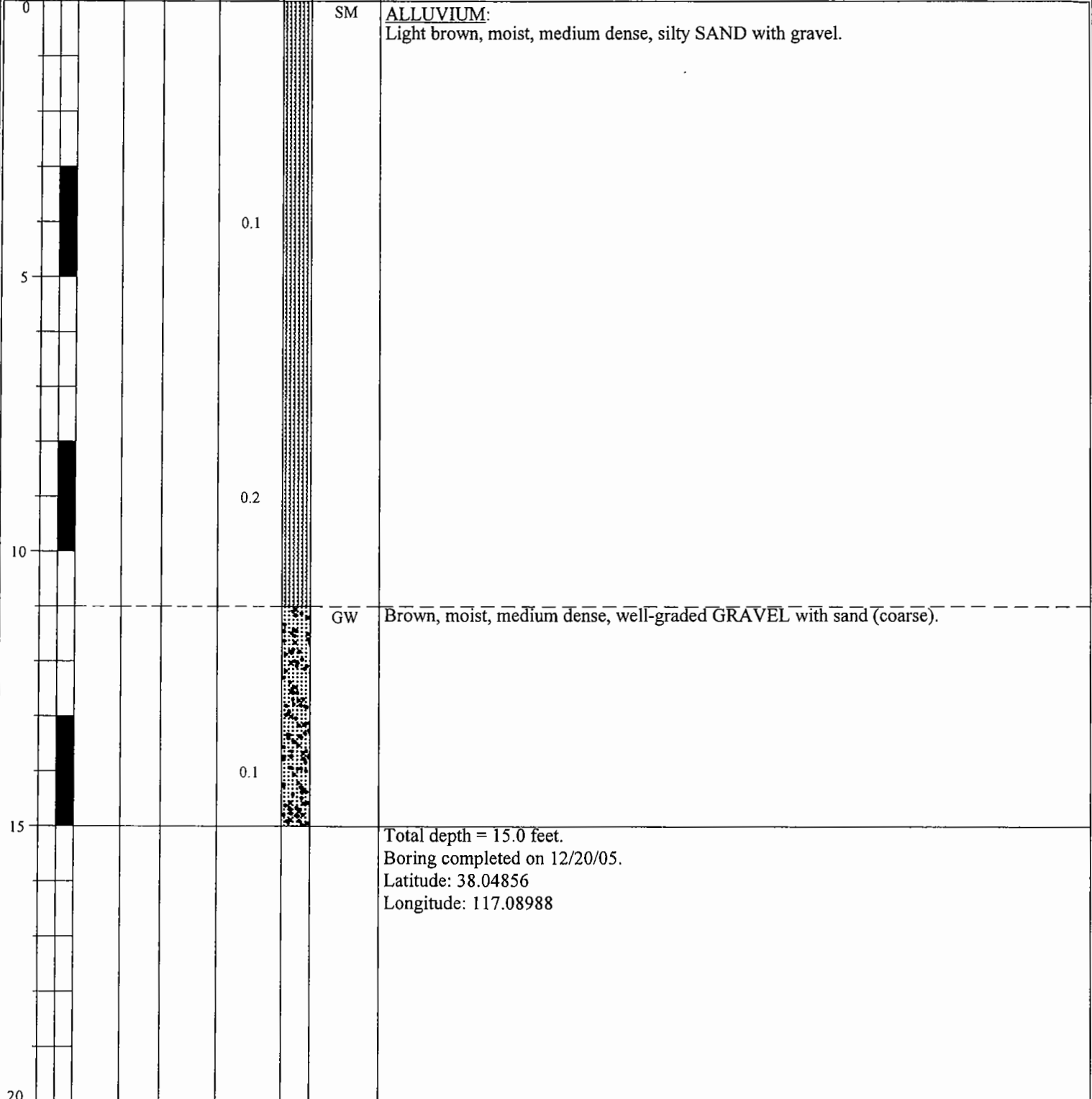
FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO.  
 300983003

DATE  
 01/06

FIGURE  
 A-22

DEPTH (feet)	Bulk	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u>	BORING NO. <u>B33</u>	
	Driven								GROUND ELEVATION <u>5,380'</u>	SHEET <u>1</u> OF <u>1</u>	
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
									DESCRIPTION/INTERPRETATION		



<b>BORING LOG</b>		
FORMER TONOPAH ARMY AIRFIELD TONOPAH, NEVADA		
PROJECT NO. 300983003	DATE 01/06	FIGURE A-23



DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B34</u>		
	Bulk	Driven							GROUND ELEVATION <u>5,380'</u>	SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct-push technology</u>
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
									DESCRIPTION/INTERPRETATION		
0								SM	<b>ALLUVIUM:</b> Light brown, moist, medium dense, silty SAND with gravel.		
5						0.1					
10						0.1			Total depth = 10.0 feet. Boring completed on 12/20/05. Latitude: 38.04857 Longitude: 117.08999		
15											
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-24

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u> BORING NO. <u>B35</u>		
	Bulk	Driven							GROUND ELEVATION <u>5,385'</u> SHEET <u>1</u> OF <u>1</u>		
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____ DROP _____		
									SAMPLED BY <u>ADS</u> LOGGED BY <u>RCJ</u> REVIEWED BY <u>RMT</u>		
									DESCRIPTION/INTERPRETATION		
0								SM	<u>ALLUVIUM:</u> Light brown, dry, medium dense, silty SAND with gravel.		
5						0.1			Low recovery.		
10						0.1		GW	Brown, moist, medium dense, well-graded GRAVEL with sand.		
15									Total depth = 10.0 feet. Boring completed on 12/20/05 Latitude: 38.04869 Longitude: 117.09009		
20											



**BORING LOG**

FORMER TONOPAH ARMY AIRFIELD  
TONOPAH, NEVADA

PROJECT NO.  
300983003

DATE  
01/06

FIGURE  
A-25

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>12/20/05</u>	BORING NO. <u>B36</u>	
	Bulk	Driven							GROUND ELEVATION <u>5,380'</u>	SHEET <u>1</u> OF <u>1</u>	
									METHOD OF DRILLING <u>Direct-push technology</u>		
									DRIVE WEIGHT _____	DROP _____	
									SAMPLED BY <u>ADS</u>	LOGGED BY <u>RCJ</u>	REVIEWED BY <u>RMT</u>
DESCRIPTION/INTERPRETATION											

0								SM	<u>ALLUVIUM:</u> Brown, moist, medium dense, silty SAND with gravel.	
5						0.1				
10						0.2				

Total depth = 10.0 feet.  
 Boring completed on 12/20/05.  
 Latitude: 38.04844  
 Longitude: 117.09007



**BORING LOG**

















































FORMER TONOPAH ARMY AIRFIELD  
 TONOPAH, NEVADA

PROJECT NO. 300983003	DATE 01/06	FIGURE A-26
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# KEY TO PROGRAM SYMBOLS

Symbol	Description (name)	Symbol	Description (name)	Symbol	Description (name)
<b>Strata symbols</b>					
	High plasticity clay (CH : C)		Well graded gravel with clay (GW-GC : 83O)		Well graded sand (SW : D)
	Inorganic silts and clays (CH-MH : MC)		Well graded gravel with silt (GW-GM : 83Z)		Well graded sand with clay (SW-SC : DR)
	Low plasticity clay (CL : O)		Well graded gravel/clayey gravel (GW-GP : 83G)		Well graded sand with silt (SW-SM : D=)
	Low-high plasticity clays (CL-CH : CO)		Well graded gravel and sand (GW-SW : 83D)		Interlayered well/poorly graded sand (SW-SP : D:)
	Silty low plasticity clay (CL-ML : CZ)		Elastic silt (MH : M)		Silty sandy clay (VC : OC)
	Fill (FILL : F)		Silt (ML : Z)		Variable gravel and silty sand mix (VG : OG)
	Clayey gravel (GC : O8)		High plasticity organic clays (OH : 5)		Variable sand and silt mix (VS : OY)
	Clayey sand and gravel (GC-SC : DO8)		Low plasticity organic silts (OL : 4)		Agglomerate (I)
	Silty gravel (GM : Z8)		Basalt (or generic rock) (ROCK : I)		Blank (E)
	Silty clayey gravel (GM-GC : ZO8)		Clayey sand (SC : DO)		CH fraction (U)
	Silty sand and gravel (GM-SM : O8)		Silty sand (SM : O)		CL fraction (R)
	Poorly graded gravel (GP : G)		Poorly graded clayey silty sand (SM-SC : ZO)		Claystone (H)
	Poorly graded gravel with clay (GP-GC : DGO3)		Poorly graded silty fine sand (SM-ML : Z)		Cobble frac (A)
	Poorly graded gravel with silt (GP-GM : DGZ3)		Poorly graded sand (SP : :)		Cobbles (B)
	Poorly graded gravel and sand (GP-SP : :G)		Poorly graded sand with clay (SP-SC : :R)		Competent (K)
	Well graded gravel (GW : 83)		Poorly graded sand with silt (SP-SM : : =)		Dolomite (I)

# KEY TO PROGRAM SYMBOLS

Symbol	Description (name)	Symbol	Description (name)	Symbol	Description (name)
	Depth to caving (CAVED)		Denison (O)		covered riser (COVERED RISER : ,CAPPED)
	(CIRCLE)		Standard penetration test (P)		recessed cover set in concrete (RECESSED : 13,RECESSED)
	(FCIRCLE)		Rock core (R)		top of well, recessed pipe (SUNKEN : 13,SUNKEN)
	(HATCHED)		Undisturbed thin wall Shelby tube (S)		protective casing set in concrete (CASED : 13,CASED)
	(XHATCHED)		No recovery (X)		concrete seal (CONCRETE : 13,BLANKPVC)
	(FILLED)		EXTRA: (downward pointing white triangle on black background) (G)		gravel backfill (GRAVEL : *1,BLANKPVC)
	(BARGRAPH)		EXTRA: (double vertical lines) (H)		pipe set in cement grout w/ protective casing (CEMENT CASED : E,CASED)
	(NOMARKER)		EXTRA: (downward pointing outline arrow) (J)		unknown backfill type, blank PVC (INDETERMINATE : E,BLANKPVC)
<u>Soil Samplers</u>			EXTRA: (downward pointing filled arrow) (K)		assorted cuttings (CUTTINGS : O,BLANKPVC)
	Auger (A)		EXTRA: (split diagonally left to right, white on left, black on right) (N)		bentonite slurry (BENTONITE : P,BLANKPVC)
	Bulk sample taken from 6 in. auger (B)		EXTRA: (diagonal line from right to left) (T)		bentonite pellets (PELLETS : I,BLANKPVC)
	California sampler (C)		EXTRA: (generic sampling interval) (U)		silica sand, blank PVC (SAND : 6,BLANKPVC)
	Dutch cone test (D)		EXTRA: (generic sampling interval) (V)		slotted pipe w/ sand (SLOTTED : 6,SLOTDPVC)
	Corps of Engineers sampler (E)	<u>Monitor Well Details</u>			slotted pipe, unknown backfill (SLOT/NO FILL : E,SLOTDPVC)
	Bulk/Grab sample (F)		flush-mount cover (COVER : ,FLUSH)		stylized slotted pipe with no backfill (STYLIZED SLOT : E,ALTSLOT)
	Piston (I)		riser with cover and protective casing (CASED RISER : ,PROTECT)		endcap on pipe packed in sand (ENDCAP : 6,ENDCAP)
	Pitcher (L)		pipe riser (RISER : ,BLANKPVC)		

SOIL CLASSIFICATION CHART				
PRIMARY DIVISIONS			Secondary Divisions	
			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS More than 50% Retained on No. 200 Sieve	GRAVELS More than 50% of coarse fraction retained on No. 4 Sieve	CLEAN GRAVELS Less than 5% fines	GW	Well-graded gravel
		GRAVELS WITH FINES - more than 12% fines	GP	Poorly-graded gravel
			GM	Silty gravel
		SANDS 50% or more of coarse fraction passes No. 4 Sieve	CLEAN SANDS less than 5% fines	SW
	SANDS WITH FINES - more than 12% fines		SP	Poorly-graded sand
			SM	Silty sand
	SC		Clayey sand	
	FINE-GRAINED SOILS 50% or more passes No. 200 Sieve	SILTS and CLAYS liquid limit less than 50%	INORGANIC	CL
ML				Silt
ORGANIC			OL	Organics clay or silt
			CH	Fat clay
SILTS and CLAYS liquid limit 50% or more		INORGANIC	MH	Elastic silt
			OH	Organic clay or silt
		ORGANIC	PT	Peat
			Highly Organic Soils	

GRAIN SIZES							
U.S. STANDARD SERIES SIEVE				CLEAR SQUARE SIEVE OPENINGS			
200		40		10		4	
3/4"		3/8"		3"		12"	
SILTS & CLAYS	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		

**SIZE PROPORTIONS**

Trace	<5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%

RELATIVE DENSITY OF COARSE GRAINED SOILS AND NON-PLASTIC SILTS				
Spooling Cable or Cathead			Automatic Trip Hammer	
SPT	N&M	Relative Density	SPT	N&M
Blow Count	Geomatic Blow Count		Blow Count	Geomatic Blow Count
0 - 4	0 - 8	Very Loose	0 - 3	0 - 5
4 - 10	8 - 21	Loose	3 - 7	5 - 14
10 - 30	21 - 63	Medium Dense	7 - 20	14 - 42
30 - 50	63 - 105	Dense	20 - 33	42 - 70
Over 50	Over 105	Very Dense	Over 33	Over 70

CALTRANS CRITERIA					
SPT (blows/0.3m) (blows/foot)	Modified Split Barrel (blows/0.3m) (blows/foot)	Granular Soils	SPT (blows/0.3m) (blows/foot)	Modified Split Barrel (blows/0.3m) (blows/foot)	Cohesive Soils
0 - 4	0 - 7	Very Loose	<2	<3	Very Soft
5 - 10	8 - 18	Loose	2 - 4	3 - 5	Soft
11 - 30	19 - 36	Medium Dense	5 - 8	6 - 10	Firm
31 - 50	37 - 59	Dense	9 - 15	11 - 20	Stiff
>50	60 - 110	Very Dense	16 - 30	21 - 39	Very Stiff
			>31	>39	Hard

CONSISTENCY OF CLAYS AND PLASTIC SILTS				
Spooling Cable or Cathead			Automatic Trip Hammer	
SPT	N&M	Relative Density	SPT	N&M
Blow Count	Geomatic Blow Count		Blow Count	Geomatic Blow Count
<2	<3	Very Soft	<1	<2
2 - 4	3 - 5	Soft	1 - 3	2 - 3
4 - 8	5 - 10	Firm	3 - 5	3 - 6
8 - 15	10 - 20	Stiff	5 - 10	6 - 13
15 - 30	20 - 39	Very Stiff	10 - 20	13 - 26
Over 30	Over 39	Hard	Over 20	Over 26

**Typical Indicators**

- Thumb penetrates more than 1"
- Thumb penetrates about 1"
- Thumb will indent soil about 1/4"
- Thumb will indent with great effort
- Thumbnail will readily indent
- Thumbnail will indent with difficulty

**ROCK WEATHERING (Igneous rocks)**

<b>Fresh</b>	No discoloration; not oxidized
<b>Slightly Weathered</b>	Discoloration and oxidation (D & O) limited to fracture surfaces
<b>Moderately Weathered</b>	D & O on all fracture surfaces and extends from fractures; partial chemical alteration of some minerals
<b>Intensely Weathered</b>	D & O throughout; chemical alteration of most minerals; fracture surfaces are friable
<b>Decomposed</b>	Rock decomposed; resembles soil

**ROCK HARDNESS**

<b>Extremely Hard</b>	Can't be scratched with knife; can only be chipped with repeated heavy hammer blows
<b>Very Hard</b>	Can't be scratched with knife; core can only be broken with repeated heavy hammer blows
<b>Hard</b>	Can be scratched with knife with difficulty; core can be broken with heavy hammer blow
<b>Moderately Hard</b>	Can be scratched with knife with light to moderate pressure; core breaks with moderate blow
<b>Moderately Soft</b>	Can be grooved 1/16" deep by knife with moderate to heavy pressure; core broken with light blows
<b>Soft</b>	Can be grooved easily with knife with light pressure; core breaks with manual pressure
<b>Very Soft</b>	Can be easily grooved with knife or fingernail; core breaks with light manual pressure

**CEMENTATION (sandstone, siltstone) / INDURATION (claystone)**

<b>Weak</b>	Crumbles or breaks with handling or little finger pressure
<b>Moderate</b>	Crumbles or breaks with considerable finger pressure
<b>Strong</b>	Will not crumble or break with finger pressure

**MOISTURE CONDITION**

<b>Dry</b>	No indication of moisture; dry to touch
<b>Damp</b>	Slight indication of moisture
<b>Moist</b>	No visible water
<b>Wet</b>	Visible free water
<b>Saturated</b>	Below water table

**SYMBOLS**

- Modified Split-Barrel Drive Sampler
- No recovery w/ Modified Split-Barrel Drive Sampler
- Standard Penetration Test (SPT)
- No recovery w/ Standard Penetration Test
- Shelby Tube
- No recovery w/ Shelby Tube
- Groundwater at time of drilling
- Groundwater measured after drilling completed or specified time after drilling
- Seepage

**APPENDIX B**  
**Site Photographs**



**Photograph 1: View of direct-push soil sampling rig on ACFS Inside Taxiway, facing northwest toward refinery.**



**Photograph 2: View of ACFS Inside Taxiway, facing south.**





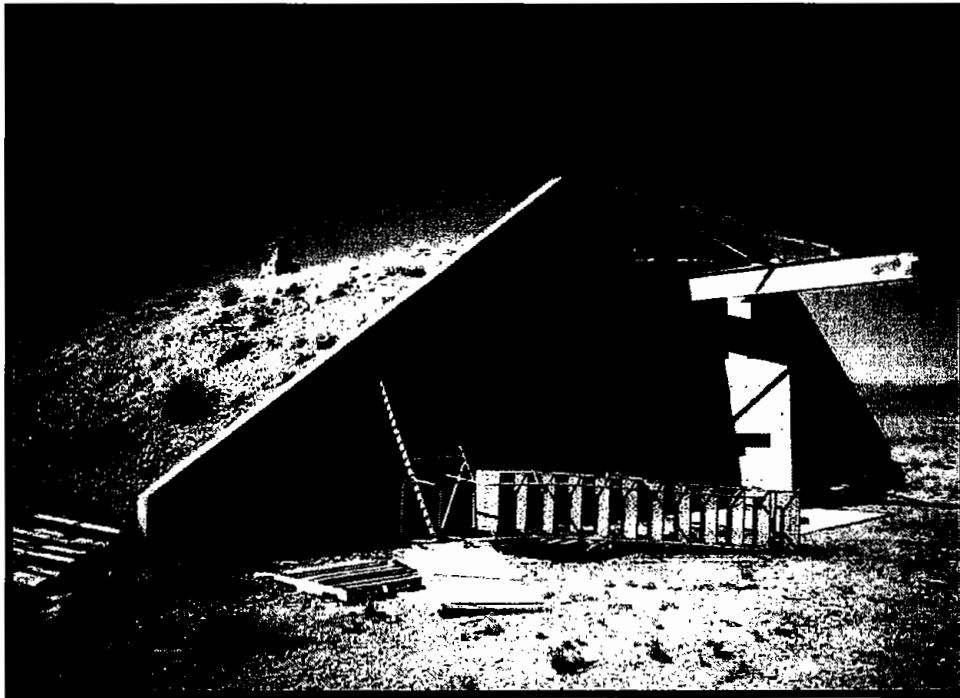
12/20/2005

**Photograph 3: View of ACFS Taxiway 4, facing north.**

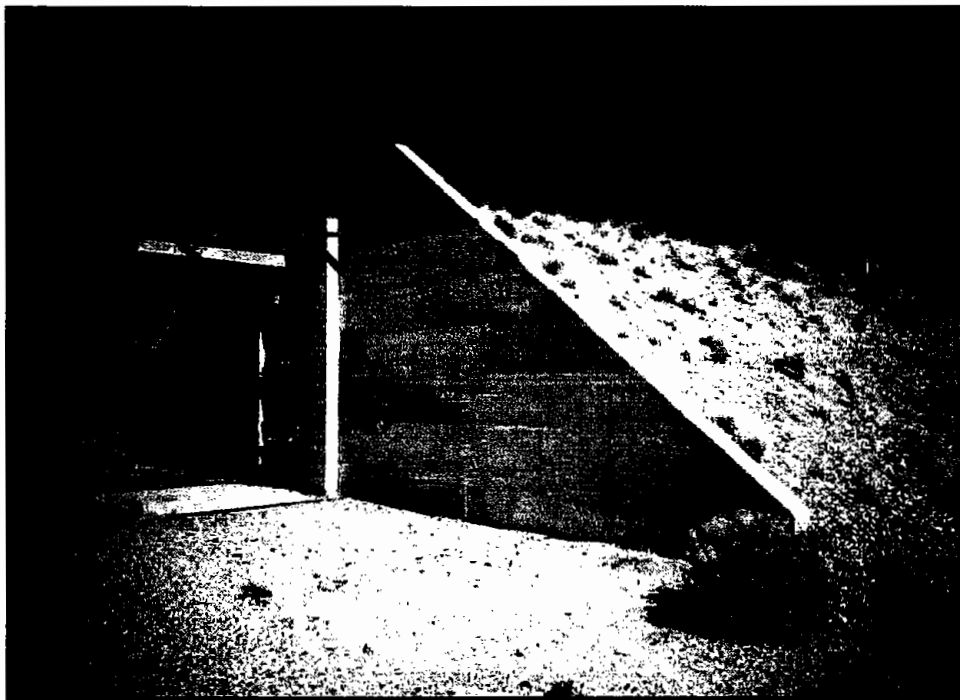


12/20/2005

**Photograph 4: View of direct-push soil sampling rig on ACFS Taxiway 4, facing north.**



**Photograph 5: View of Building 1235, facing southwest.**



**Photograph 6: View of Building 1250, facing northwest.**



**Photograph 7: View of Building 1255, facing north.**



**Photograph 8: View of ACFS-inside taxiway former fueling islands, facing northwest.**

**APPENDIX C**

**Advanced Technology Laboratories Memorandum and**  
**American Environmental Testing Laboratory**  
**Organic Lead Standard Operating Procedure**



*Advanced Technology Laboratories*

# Memorandum

**To:** Greg Beck (Ninyo&Moore-LV)  
**CC:** Eddie Rodriguez (ATL), Puri Romualdo (ATL)  
**From:** Bing Roura (ATL)  
**Date:** 1/13/06  
**Re:** Comparison between AETL and Calscience SOP for Organic Lead

---

ATL reviewed the Standard Operating Procedures (SOP) for Organic Lead of AETL and Calscience.

The SOPs both use the principles of liquid-solid and liquid-liquid extraction techniques.

The major difference can be observed in the extracting solvents used for the analytical method. AETL 's SOP uses mixture of 2-propanone and normal hexane whereas Calscience's SOP uses xylene/MIBK (4-methyl-2-pentanone).

AETL has been a California Department of Health Services- ELAP certified laboratory for organic lead since 1995. ATL had been using AETL as a subcontractor for this analysis for over five (5) years.

Please do not hesitate to call me at 562-989-4045 extension 246 if you need further assistance.

Attachments

AETL HMU-900  
Revision 02  
June 12, 2005

## American Environmental Testing Laboratory

### Standard Operating Procedure

for

### Determination of Organic Lead Compounds By LL or LS Extraction Followed by GFAAS, FAAS, ICP-AES, OR ICP-MS Analysis

### HMU-900

Prepared by



**Khurshid Ahmed,  
Principal Analyst**

Approved by



**Cyrus Razmara, Ph.D.  
Laboratory Director**

## HAZARDOUS MATERIALS UNIT METHOD 900

### ORGANO-LEAD IN SEDIMENTS, SLUDGES, SOILS AND AQUEOUS SAMPLES

#### 1.0 SCOPE AND APPLICATION

1.1 This method is an extraction procedure for the analysis of sediments, sludges, soils, and aqueous samples, for organo-lead, specifically the alkyl species. The resulting extract can be analyzed by graphite furnace atomic absorption spectroscopy (GFAAS), flame atomic absorption spectroscopy (FAAS), inductively coupled plasma atomic emission spectroscopy (ICP-AES), or inductively coupled plasma and mass spectroscopy.

#### 2.0 SUMMARY OF METHODS

2.1 A representative sample is placed in closed flask with 35 ml of 1:1 normal hexane:propanone and shaken for 30 minutes. The mixture is filtered through anhydrous sodium sulfate in filter paper and collected in a separatory funnel. 10 mls 1+1 nitric acid are added to the separatory funnel and shaken. The nitric acid/propanone solution is separated and collected in a beaker. The beaker is heated to 120 C for one hour to remove any solvents. The remaining acid solution is made to volume and analyzed by the appropriate method.

#### 3.0 INTERFERENCES

3.1 Sediments, sludges, and soils represent a broad range of possible matrices each of which presents possible analytical interferences. Use of appropriate quality control methods can determine the applicability of this method to a given matrix.

#### 4.0 APPARATUS AND MATERIALS

- 4.1 Stopped or Screw-Top Phillips Beakers 125 mL
- 4.2 Griffin beakers 250 mL
- 4.3 Separatory Flasks 125 mL
- 4.4 Separatory Flask 2000 mL (for aqueous sample)
- 4.5 Thermometer (0-200 C)
- 4.6 Whatman No. 41 filter paper (or equivalent)
- 4.7 Funnels
- 4.8 Heating Block
- 4.9 Volumetric Flasks

Note: All glassware should be acid washed.

#### 5.0 REAGENTS

- 5.1 ASTM Type II water (ASTM D1193) (d.i. water)
- 5.2 Concentrated nitric acid reagent grade (conc nitric acid)
- 5.3 Anhydrous Sodium Sulfate

- 5.4 Reagent Grade 2-Propanone
- 5.5 Reagent Grade Normal Hexane
- 5.6 1:1 Nitric acid and deionized water solution
- 5.7 1:1 Hexane and propanone solution
- 5.8 Organo-lead standard

## 6.0 SAMPLE COLLECTION, PRESEERVATION, AND HANDLING

- 6.1 All samples should be handeld as specified in EPA SW 846 chaps 9 and 3

## 7.0 PROCEDURE

- 7.1 Homogenize sample and sieve if necessary (USS #10) and then take a representative sample of 5 grams ( $\pm 0.01$  g) and place in extraction flask. If the sample is very wet, add 10 g of anhydrous sodium sulfate.
- 7.2 Add 35 mL of 1:1 hexane:propanone solution to the flask. Shake the flask for 30 minutes.
- 7.3 For aqueous samples transfer one liter of sample to a 2000 mL reparatory funnel and extract the sample with three 50 mL portion of 1:1 hexane:propanone solution and collect the extracts. Dry the extract with anhydrous sodium sulfate and filter through a Whatman 41 filter paper and follow the method from step 7.6
- 7.4 Filter the extract through a Whatman 41 filter paper (or equivalent) with anhydrous sodium sulfate. Collect filtrate in a separatory funnel
- 7.5 Wash the extraction flask with 15 mL of the 1:1 hexane propanone solution. Pour the wash through the filter paper and collect it with the extract.
- 7.6 Add 5 mL of 1:1 nitric acid solution in the separatory funnel. Shake vigorously, venting periodically for two minutes. After shaking, allow the phases to separate. The lower phase consists of a mixture or propanone, nitric acid, and water. The upper phase consists of hexane.
- 7.7 Collect the lower nitric acid/propanone phase in a Griffin beaker. Place the beaker on a hot plate heated to 120 C and drive off the propanone. This should take no more than 1 hour.
- 7.8 Remove the beaker and allow to cool to room temperature. Transfer the contents to a volumetric flask and bring to volume 50 mL (distilled H<sub>2</sub>O). Analyze either GFAAS, FAAS, ICP-AES, or ICP-MS.

## 8.0 QUALITY CONTROL

- 8.1 Reagent Blank: For each batch of samples processed, reagent blanks should be carried through the entire digestion and analytical procedure. The reagent blank is used to determine if contamination has occurred. If the analyte is detected above the lowest reporting value in both the reagent blank and samples, then that analyte must not be reported out for the samples. The source of the contamination must be identified and eliminated. The procedure must be repeated if the particular analyte is



to be reported out. BLANK VALUES MUST NOT SUBTRACTED FROM SAMPLE VALUES.

- 8.2 Method Standard Recovery (MSR): Take a sufficient aliquot of an organo-lead standard so that after it is carried through the entire digestion and analytical procedure it will yield a concentration at about mid-point in the linear range of the analytical procedure. If any analyte is not recovered within  $\pm 20\%$  of the spiked value, then that analyte can not be reported out.
- 8.3 Matrix Replicates: One sample in twenty should be identified for use as a matrix replicate. This sample such be sampled four times. Two replicates should be of the same sample size as is used for the other samples in the batch. The third replicate should be used for the matrix spike in 8.5 and should be the same sized as the other samples in batch.  
Any organo-lead or tin quantified in the first two replicates should be have a %RPD of less than 20%. If the %RPD is greater than 20% the source of the variance should be identified. Either the analysis should be repeated or a disclaimer should appear on the report indicating a problem with the high variance.
- 8.4 Matrix Spike: Using the third matrix replicate, spike in a volume of a organo-lead standard equal to the volume used in the Method Standard Recovery. All of the analytes should be recovered within  $\pm 25\%$  of the spiked value.
- 8.5.1 If an analyte is not recovered within these limits due to high background values then either note this fact on the final report or, if appropriate rerun the sample for this analyte with a larger spike value.
- 8.5.2 If an analyte is not recovered within these limits due to spectral interference, either take appropriate procedures to eliminate this interference or note this fact on the final report.
- 8.5.3 If an analyte is not recovered within the limits for the MSR and matrix spike then the method was not performed correctly for this analyte and it must not reported out.

**Note:** This SOP is based on Hazardous Materials Unit Method 900 of CA DOHS.



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

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AETL now offers **Mobile Lab Services**, Call us for more information

Date: 01-16-06  
From: Dr. Cyrus Razmara  
To: Purei Romualdo  
Company: ATL  
Telephone: \_\_\_\_\_  
Fax: 562-989-6348  
# of Pages: 3

**Comments:** Original will/will not follow in the mail.

We also accept





STATE OF CALIFORNIA  
 DEPARTMENT OF HEALTH SERVICES  
 ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

**ENVIRONMENTAL LABORATORY CERTIFICATION**

Is hereby granted to

**AMERICAN ENVIRONMENTAL TESTING LABORATORY, INC.**

**2834 NORTH NAOMI STREET**

**BURBANK, CA 91504**

Scope of certification is limited to the  
 "List of Approved Fields of Testing and Analytes"  
 which accompanies this Certificate.

Continued certification status depends on successful completion of site visit,  
 proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of  
 Section 100825, et seq. of the Health and Safety Code.

Certificate No: **1541**  
 Expiration Date: **06/30/2007**  
 Effective Date: **06/01/2005**

Berkeley, California  
 subject to forfeiture or revocation.

*George C. Kulasingam*  
 \_\_\_\_\_  
 George C. Kulasingam, Ph.D.  
 Program Chief  
 Environmental Laboratory Accreditation Program

CERTIFICATE NUMBER: 1541  
 EXPIRATION DATE: 6/30/97

10.13 Selenium		10.19 Cyanide	
7740(09-20-94) -----	Y	9010(09-20-94) -----	Y
7741(-----) -----	N		
10.14 Silver		10.20 Fluoride	
7760(-----) -----	N	300.0(-----) -----	N
7761(-----) -----	N	340.1(-----) -----	N
10.15 Thallium		340.2(-----) -----	N
7840(-----) -----	N	340.3(-----) -----	N
7841(09-20-94) -----	Y	10.21 Sulfide	
10.16 Vanadium		9030(12-27-93) -----	Y
7910(-----) -----	N	10.22 Total Organic Lead	
7911(-----) -----	N	(10-23-95) -----	Y
10.17 Zinc		10.23 EPA Method 6010(09-20-94) -----	Y
7950(-----) -----	N	10.24 EPA Method 6020(-----) -----	N
7951(-----) -----	N		
10.18 Chromium (VI)			
7195(-----) -----	N		
7196(12-27-93) -----	Y		
7197(-----) -----	N		
7198(-----) -----	N		
11 <u>Extraction Tests of Hazardous Waste (12-27-93)</u>			
11.1 California Waste Extraction Test (WET) (Title 22, CCR, 66261.100, Appendix II) -----	Y		
11.2 Extraction Procedure Toxicity -----	N		
11.3 Toxicity Characteristic Leaching Procedure (TCLP) All Classes -----	N		
11.4 Toxicity Characteristic Leaching Procedure (TCLP) Inorganics Only -----	Y		
11.5 Toxicity Characteristic Leaching Procedure (TCLP) Extractables Only -----	N		
11.6 Toxicity Characteristic Leaching Procedure (TCLP) Volatiles Only -----	N		
12 <u>Organic Chemistry of Hazardous Waste (measurement by GC/MS combination)</u>			
12.1 EPA Method 8240(06-30-92) -----	Y		
12.2 EPA Method 8250(-----) -----	N		
12.3 EPA method 8270(-----) -----	N		
12.4 EPA Method 8280(-----) -----	N		
12.5 EPA Method 8290(-----) -----	N		
12.6 EPA Method 8260(09-20-94) -----	Y		
13 <u>Organic Chemistry of Hazardous Waste (excluding measurements by GC/MS combination)</u>			
13.1 EPA Method 8010(06-10-91) -----	Y	13.13 EPA Method 8310(05-02-95) -----	Y
13.2 EPA Method 8015(06-10-91) -----	Y	13.14 EPA Method 632 (-----) -----	N
13.3 EPA Method 8020(06-10-91) -----	Y	13.15 Total Petroleum Hydrocarbons	
13.4 EPA Method 8030(-----) -----	N	(LUFT Manual) (06-10-91) -----	Y
13.5 EPA Method 8040(-----) -----	N	13.16 EPA Method 8011(-----) -----	N
13.6 EPA Method 8060(-----) -----	N	13.17 EPA Method 8021(-----) -----	N
13.7 EPA Method 8080(-----) -----	N	13.18 EPA Method 8070(-----) -----	N
13.8 EPA Method 8090(-----) -----	N	13.19 EPA Method 8110(-----) -----	N
13.9 EPA Method 8100(-----) -----	N	13.20 EPA Method 8141(-----) -----	N
13.10 EPA Method 8120(-----) -----	N	13.21 EPA Method 8330(-----) -----	N
13.11 EPA Method 8140(-----) -----	N		
13.12 EPA Method 8150(-----) -----	N		
14 <u>Bulk Asbestos Analysis (-----)</u>			
14.1 1% or Greater Asbestos Concentrations (Title 22, CCR, 66261.24(a)(2)(A)) -----	N		
15 <u>Substances Regulated Under the California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) and Not Included in Other Listed Groups</u>			
16 <u>Wastewater Inorganic Chemistry, Nutrients and Demand (06-30-91)</u>			
16.1 Acidity -----	Y	16.15 Hardness -----	Y
16.2 Alkalinity -----	Y	16.16 Kjeldahl Nitrogen -----	Y
16.3 Ammonia -----	Y	16.17 Magnesium -----	N
16.4 Biochemical Oxygen Demand -----	Y	16.18 Nitrate -----	Y
16.5 Boron -----	N	16.19 Nitrite -----	Y
16.6 Bromide -----	N	16.20 Oil and Grease -----	Y
16.7 Calcium -----	N	16.21 Organic Carbon -----	N
16.8 CBOD -----	N	16.22 Oxygen, Dissolved -----	N
16.9 Chemical Oxygen Demand -----	Y		
16.10 Chloride -----	Y		
16.11 Chlorine Residual, total -----	Y		
16.12 Cyanide -----	Y		
16.13 Cyanide amenable to Chlorination -----	N		
16.14 Fluoride -----	N		



State of California—Health and Human Services Agency  
**Department of Health Services**



SANDRA SHEWRY  
 Director

ARNOLD SCHWARZENEGGER  
 Governor

December 7, 2005

Certificate No.: 1541

CYRUS RASMARA, Ph.D.  
 AMERICAN ENVIRONMENTAL TESTING LABORATORY, INC.  
 2834 NORTH NAOMI STREET  
 BURBANK, CA 91504

Dear CYRUS RASMARA, Ph.D.:

This is to advise you that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.).

The Fields of Testing for which this laboratory has been certified under this Act are indicated on the enclosed "Accredited Fields of Testing." Certification shall remain in effect until **June 30, 2005** unless revoked. This certificate is subject to an annual fee as prescribed by Section 100860(a), HSC, due on June 30, 2006.

Your application for renewal must be received 90 days before the expiration of your certificate to remain in force according to the California Code of Regulations, Title 22, Division 4, Chapter 19, Section 64801 through 64827.

Any changes in laboratory location or structural alterations, which may affect adversely the quality of analysis in the fields of testing for which the laboratory has been granted certification, require prior notification. Notification is also required for changes in ownership or laboratory director within 30 days after the change (HSC, Section 100845(b) and (d)).

Your continued cooperation is essential to maintain high quality of the data produced by environmental laboratories certified by the State of California.

If you have any questions, please contact Rosalinda Lomboy at (213) 580-5731.

Sincerely,

George C. Kulasingam, Ph.D.  
 Program Chief  
 Environmental Laboratory Accreditation Program

Enclosure

**Environmental Laboratory Accreditation Program**  
 850 Marina Bay Parkway, Bldg. P, 1<sup>st</sup> Floor, MS 7103  
 Phone (510) 620-3155, Fax (510) 620-3165  
<http://www.dhs.ca.gov/elap>

**CALIFORNIA DEPARTMENT OF HEALTH SERVICES  
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM  
Accredited Fields of Testing**

AMERICAN ENVIRONMENTAL TESTING LABORATORY, INC.

Lab Phone (818) 845-8200

2834 NORTH NAOMI STREET  
BURBANK, CA 91504

Certificate No: 1541      Renew Date: 6/30/2005

**Field of Testing: 102 - Inorganic Chemistry of Drinking Water**

102.030 001	Bromide	EPA 300.0
102.030 003	Chloride	EPA 300.0
102.030 005	Fluoride	EPA 300.0
102.030 006	Nitrate	EPA 300.0
102.030 007	Nitrite	EPA 300.0
102.030 008	Phosphate, Ortho	EPA 300.0
102.030 010	Sulfate	EPA 300.0
102.100 001	Alkalinity	SM2320B
102.120 001	Hardness	SM2340B
102.121 001	Hardness	SM2340C
102.130 001	Conductivity	SM2510B
102.140 001	Total Dissolved Solids	SM2540C
102.145 001	Total Dissolved Solids	EPA 160.1
102.150 001	Chloride	SM4110B
102.150 002	Fluoride	SM4110B
102.150 003	Nitrate	SM4110B
102.150 004	Nitrite	SM4110B
102.150 005	Phosphate, Ortho	SM4110B
102.150 006	Sulfate	SM4110B
102.163 001	Free & Total Chlorine	SM4500-Cl G
102.190 001	Cyanide, Total	SM4500-CN E
102.192 001	Cyanide, amenable	SM4500-CN G
102.200 001	Fluoride	SM4500-F C
102.220 001	Nitrite	SM4500-NO2 B
102.240 001	Phosphate, Ortho	SM4500-P E
102.251 001	Sulfate	SM4500-SO4 E
102.270 001	Surfactants	SM5540C
102.510 001	Calcium	SM3120B
102.510 002	Magnesium	SM3120B
102.510 003	Potassium	SM3120B
102.510 004	Silica	SM3120B
102.510 005	Sodium	SM3120B
102.510 006	Hardness (calc.)	SM3120B
102.520 001	Calcium	EPA 200.7
102.520 002	Magnesium	EPA 200.7
102.520 003	Potassium	EPA 200.7
102.520 004	Silica	EPA 200.7
102.520 005	Sodium	EPA 200.7
102.520 006	Hardness (calc.)	EPA 200.7

**Field of Testing: 103 - Toxic Chemical Elements of Drinking Water**

103.060 001	Aluminum	SM3120B
103.060 002	Arsenic	SM3120B
103.060 003	Barium	SM3120B
103.060 004	Beryllium	SM3120B
103.060 005	Cadmium	SM3120B
103.060 007	Chromium	SM3120B

As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

103.060	008	Copper	SM3120B
103.060	009	Iron	SM3120B
103.060	011	Manganese	SM3120B
103.060	012	Nickel	SM3120B
103.060	015	Silver	SM3120B
103.060	017	Zinc	SM3120B
103.130	001	Aluminum	EPA 200.7
103.130	002	Arsenic	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.161	001	Mercury	EPA 245.2
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2
104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2

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104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.045	005	Trihalomethanes	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	Trichlorotrifluoroethane	EPA 524.2
104.050	007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	008	Carbon Disulfide	EPA 524.2
104.050	009	Methyl Isobutyl Ketone	EPA 524.2

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.020	001	Conductivity	EPA 120.1
108.040	001	Hardness	EPA 130.2
108.050	001	pH	EPA 150.1
108.060	001	Residue, Filterable	EPA 160.1
108.070	001	Residue, Non-filterable	EPA 160.2
108.080	001	Residue, Total	EPA 160.3
108.090	001	Residue, Volatile	EPA 160.4
108.100	001	Residue, Settleable	EPA 160.5
108.110	001	Turbidity	EPA 180.1
108.112	001	Boron	EPA 200.7
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calc.)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	006	Silica	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	004	Nitrate	EPA 300.0
108.120	005	Nitrite	EPA 300.0
108.120	006	Nitrate-nitrite, Total	EPA 300.0
108.120	007	Phosphate, Ortho	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.130	001	Acidity	EPA 305.1
108.140	001	Alkalinity	EPA 310.1
108.162	001	Chloride	EPA 325.3
108.174	001	Chlorine Residual, Total	EPA 330.5
108.180	001	Cyanide, amenable	EPA 335.1
108.181	001	Cyanide, Total	EPA 335.2
108.201	001	Ammonia	EPA 350.2
108.202	001	Ammonia	EPA 350.3
108.212	001	Kjeldahl Nitrogen	EPA 351.3
108.220	001	Nitrate	EPA 352.1
108.240	001	Nitrite	EPA 354.1
108.250	001	Dissolved Oxygen	EPA 360.1

As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
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108.251	001	Dissolved Oxygen	EPA 360.2
108.262	001	Phosphate, Ortho	EPA 365.2
108.263	001	Phosphorus, Total	EPA 365.2
108.264	001	Phosphate, Ortho	EPA 365.3
108.282	001	Sulfate	EPA 375.4
108.290	001	Sulfide	EPA 376.1
108.291	001	Sulfide	EPA 376.2
108.310	001	Biochemical Oxygen Demand	EPA 405.1
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.350	001	Total Recoverable Petroleum Hydrocarbons	EPA 418.1
108.360	001	Phenols, Total	EPA 420.1
108.370	001	Surfactants	EPA 425.1
108.380	001	Oil and Grease	EPA 1664
108.390	001	Turbidity	SM2130B
108.400	001	Acidity	SM2310B
108.410	001	Alkalinity	SM2320B
108.420	001	Hardness (calc.)	SM2340B
108.421	001	Hardness	SM2340C
108.430	001	Conductivity	SM2510B
108.440	001	Residue, Total	SM2540B
108.441	001	Residue, Filterable	SM2540C
108.442	001	Residue, Non-filterable	SM2540D
108.443	001	Residue, Settleable	SM2540F
108.447	001	Boron	SM3120B
108.447	002	Calcium	SM3120B
108.447	003	Hardness (calc.)	SM3120B
108.447	004	Magnesium	SM3120B
108.447	005	Potassium	SM3120B
108.447	006	Silica	SM3120B
108.447	007	Sodium	SM3120B
108.451	001	Chloride	SM4500-Cl- C
108.465	001	Chlorine	SM4500-Cl G
108.472	001	Cyanide, Total	SM4500-CN E
108.473	001	Cyanide, amenable	SM4500-CN G
108.480	001	Fluoride	SM4500-F C
108.490	001	pH	SM4500-H+ B
108.500	001	Ammonia	SM4500-NH3 C
108.501	001	Kjeldahl Nitrogen	SM4500-NH3 C
108.510	001	Nitrite	SM4500-NO2 B
108.520	001	Nitrate-nitrite, Total	SM4500-NO3 E
108.530	001	Dissolved Oxygen	SM4500-O C
108.531	001	Dissolved Oxygen	SM4500-O G
108.540	001	Phosphate, Ortho	SM4500-P E
108.541	001	Phosphorus, Total	SM4500-P E
108.580	001	Sulfide	SM4500-S= D
108.581	001	Sulfide	SM4500-S= E (18th)
108.590	001	Biochemical Oxygen Demand	SM5210B
108.602	001	Chemical Oxygen Demand	SM5220D
108.640	001	Surfactants	SM5540C
108.660	001	Chemical Oxygen Demand	HACH8000
108.670	001	Nitrite	HACH8507

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7

As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
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109.010 004	Barium	EPA 200.7
109.010 005	Beryllium	EPA 200.7
109.010 007	Cadmium	EPA 200.7
109.010 009	Chromium	EPA 200.7
109.010 010	Cobalt	EPA 200.7
109.010 011	Copper	EPA 200.7
109.010 012	Iron	EPA 200.7
109.010 013	Lead	EPA 200.7
109.010 015	Manganese	EPA 200.7
109.010 016	Molybdenum	EPA 200.7
109.010 017	Nickel	EPA 200.7
109.010 019	Selenium	EPA 200.7
109.010 021	Silver	EPA 200.7
109.010 023	Thallium	EPA 200.7
109.010 024	Tin	EPA 200.7
109.010 026	Vanadium	EPA 200.7
109.010 027	Zinc	EPA 200.7
109.041 001	Antimony	EPA 204.2
109.050 001	Arsenic	EPA 206.2
109.081 001	Cadmium	EPA 213.2
109.104 001	Chromium (VI)	EPA 218.6
109.161 001	Lead	EPA 239.2
109.190 001	Mercury	EPA 245.1
109.191 001	Mercury	EPA 245.2
109.211 001	Nickel	EPA 249.2
109.280 001	Selenium	EPA 270.2
109.400 001	Mercury	SM3112B
109.410 002	Antimony	SM3113B
109.410 003	Arsenic	SM3113B
109.410 006	Cadmium	SM3113B
109.410 011	Lead	SM3113B
109.410 014	Nickel	SM3113B
109.410 015	Selenium	SM3113B
109.430 001	Aluminum	SM3120B
109.430 002	Antimony	SM3120B
109.430 003	Arsenic	SM3120B
109.430 004	Barium	SM3120B
109.430 005	Beryllium	SM3120B
109.430 007	Cadmium	SM3120B
109.430 009	Chromium	SM3120B
109.430 010	Cobalt	SM3120B
109.430 011	Copper	SM3120B
109.430 012	Iron	SM3120B
109.430 013	Lead	SM3120B
109.430 015	Manganese	SM3120B
109.430 016	Molybdenum	SM3120B
109.430 017	Nickel	SM3120B
109.430 019	Selenium	SM3120B
109.430 021	Silver	SM3120B
109.430 023	Thallium	SM3120B
109.430 024	Vanadium	SM3120B
109.430 025	Zinc	SM3120B
109.811 001	Chromium (VI)	SM3500-Cr D
109.825 001	Iron	SM3500-Fe D

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
Customers: Please verify the current accreditation standing with the State.

110.010	000	Halogenated Volatiles	EPA 601
110.020	000	Aromatic Volatiles	EPA 602
110.040	040	Halogenated Hydrocarbons	EPA 624
110.040	041	Aromatic Compounds	EPA 624
110.040	042	Oxygenates	EPA 624
110.040	043	Other Volatile Organics	EPA 624

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.060	000	Polynuclear Aromatics	EPA 610
111.101	032	Polynuclear Aromatic Hydrocarbons	EPA 625
111.101	033	Adipates	EPA 625
111.101	034	Phthalates	EPA 625
111.101	035	Herbicides	EPA 625
111.101	036	Other Extractables	EPA 625

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.031	001	Antimony	EPA 7041
114.040	001	Arsenic	EPA 7060A
114.103	001	Chromium (VI)	EPA 7196A
114.106	001	Chromium (VI)	EPA 7199
114.130	001	Lead	EPA 7420
114.131	001	Lead	EPA 7421
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.170	001	Selenium	EPA 7740
114.190	001	Thallium	EPA 7840
114.221	001	Cyanide, Total	EPA 9012A
114.230	001	Sulfides, Total	EPA 9034
114.231	001	Sulfide	EPA 9215
114.240	001	pH	EPA 9040
114.241	001	pH	EPA 9045
114.250	001	Fluoride	EPA 9056
114.260	001	Organic Lead	HML 939-M

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.010	001	Extraction Procedure Toxicity (EPTox)	EPA 1310A
115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter 11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.020	030	Nonhalogenated Volatiles	EPA 8015B
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As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
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116.020	031	Ethanol and Methanol	EPA 8015B
116.030	001	Gasoline-range Organics	EPA 8015B
116.040	041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040	060	Halogenated Volatiles	EPA 8021B
116.040	061	Aromatic Volatiles	EPA 8021B
116.040	062	BTEX	EPA 8021B
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.100	001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS
116.100	010	BTEX and MTBE	LUFT GC/MS
116.110	001	Total Petroleum Hydrocarbons - Gasoline	LUFT

**Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste**

117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.015	001	Diesel-range Total Petroleum Hydrocarbons	LUFT GC/MS
117.016	001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.017	001	TRPH Screening	EPA 418.1
117.110	000	Extractable Organics	EPA 8270C
117.140	000	Polynuclear Aromatic Hydrocarbons	EPA 8310

**Field of Testing: 120 - Physical Properties of Hazardous Waste**

120.010	001	Ignitability	EPA 1010
120.040	001	Reactive Cyanide	Section 7.3 SW-846
120.050	001	Reactive Sulfide	Section 7.3 SW-846
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C

As of 12/7/2005, this list supersedes all previous lists for this certificate number.  
 Customers: Please verify the current accreditation standing with the State.

**APPENDIX D**

**Laboratory Analytical Reports and Chain-of-Custody Forms**

January 19, 2006

Andrew Stuart  
Ninyo & Moore  
6700 Paradise Road, Suite E  
Las Vegas, NV 89119  
TEL: (702) 433-0330  
FAX: 702-227-2051

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
CSDLAC No.: 10196

Workorder 080874

RE: TAAF, 300893003

Attention: Andrew Stuart

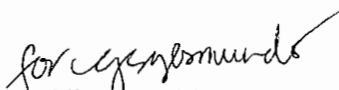
Enclosed are the results for sample(s) received on December 22, 2005 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

I hereby certify that all laboratory analysis requested were performed by Nevada Division of Environmental Protection-certified laboratory for the parameters and matrices reported herein.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

  
Eddie P. Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-001

**Client Sample ID:** B-11-S-6-15  
**Collection Date:** 12/19/2005 9:45:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009	PrepDate: 12/28/2005	Analyst: RQ
Lead	2.9	1.0	mg/Kg
		1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014	PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10	mg/Kg
Surr: p-Terphenyl	87.5	51-128	%REC
		1	12/29/2005
		1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC2_051223B	QC Batch: E05VS344	PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.0	mg/Kg
Surr: Bromofluorobenzene (FID)	77.1	35-139	%REC
		1	12/24/2005
		1	12/24/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-002

**Client Sample ID:** B12-S-6-16  
**Collection Date:** 12/19/2005 10:20:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

### (EPA 3050B)

### EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.8	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	92.9	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC2_051223B	QC Batch: E05VS344				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.95		mg/Kg	1	12/24/2005
Surr: Bromofluorobenzene (FID)	77.9	35-139		%REC	1	12/24/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H - Samples exceeding holding time

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Results are wet unless otherwise specified





# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-003

**Client Sample ID:** B-14-S-6-18  
**Collection Date:** 12/19/2005 11:00:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	2.2	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	77.3	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC2_051223B	QC Batch: E05VS344				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.1		mg/Kg	1	12/24/2005
Surr: Bromofluorobenzene (FID)	79.1	35-139		%REC	1	12/24/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore **Client Sample ID:** B15-S-15-19  
**Lab Order:** 080874  
**Project:** TAAF, 300893003 **Collection Date:** 12/19/2005 12:45:00 PM  
**Lab ID:** 080874-004 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS****(EPA 3050B)****EPA 6010B**

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	4.0	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)****EPA 8015B(M)**

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	83.8	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID****EPA 8015B(M)**

RunID: GC2_051223B	QC Batch: E05VS344				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/24/2005
Surr: Bromofluorobenzene (FID)	78.8	35-139		%REC	1	12/24/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank E - Value above quantitation range  
 DO - Surrogate Diluted Out H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-005

**Client Sample ID:** B16-S-10-60  
**Collection Date:** 12/19/2005 1:40:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	7.3	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	83.6	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.93		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-006

**Client Sample ID:** B16-S-10-20  
**Collection Date:** 12/19/2005 1:30:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

### (EPA 3050B)

### EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.7	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	85.2	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.95		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	107	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-007

**Client Sample ID:** B17-S-10-21  
**Collection Date:** 12/19/2005 2:20:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	4.2	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	83.4	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.96		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	110	35-139		%REC	1	12/23/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-008

**Client Sample ID:** B17-S-15-22  
**Collection Date:** 12/19/2005 2:35:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
<b>ICP METALS</b>						
	(EPA 3050B)			EPA 6010B		
RunID: ICP6_051228E	QC Batch: 26009			PrepDate: 12/28/2005	Analyst: RQ	
Lead	4.2	1.0		mg/Kg	1	12/28/2005
<b>DIESEL RANGE ORGANICS BY GC/FID (LUFT)</b>						
	(LUFT)			EPA 8015B(M)		
RunID: GC7_051229B	QC Batch: 26014			PrepDate: 12/28/2005	Analyst: CBR	
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	62.2	51-128		%REC	1	12/29/2005
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
				EPA 8015B(M)		
RunID: GC1_051223A	QC Batch: D05VS209			PrepDate: 12/19/2005	Analyst: TT	
GRO	ND	0.94		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	107	35-139		%REC	1	12/23/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-009

**Client Sample ID:** B18-S-10-23  
**Collection Date:** 12/19/2005 3:30:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	5.0	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_BACK_060105A	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	1/5/2006
Surr: p-Terphenyl	93.1	51-128		%REC	1	1/5/2006

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.1		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	109	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified.



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-010

**Client Sample ID:** B18-S-15-24  
**Collection Date:** 12/19/2005 3:40:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	5.1	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	73.7	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.2		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	99.3	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

Results are wet unless otherwise specified





# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-011

**Client Sample ID:** B31-S-3-39  
**Collection Date:** 12/20/2005 9:00:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.6	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID

(LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	70.9	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	80.8	35-139		%REC	1	12/23/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-012

**Client Sample ID:** B29-S-9-37  
**Collection Date:** 12/20/2005 9:45:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

### (EPA 3050B)

### EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	2.9	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	75.4	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	109	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-013

**Client Sample ID:** B29-S-9-61  
**Collection Date:** 12/20/2005 10:00:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.4	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	84.0	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.2		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-014

**Client Sample ID:** B30-S-6-38  
**Collection Date:** 12/20/2005 10:00:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	2.7	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	71.5	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.97		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-015

**Client Sample ID:** B32-S-6-40  
**Collection Date:** 12/20/2005  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	21	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	81.4	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.96		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	107	35-139		%REC	1	12/23/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-016

**Client Sample ID:** B36-S-5-47  
**Collection Date:** 12/20/2005 11:20:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

### (EPA 3050B)

### EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	5.1	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	86.7	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC1_051223A	QC Batch: D05VS209				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.99		mg/Kg	1	12/23/2005
Surr: Bromofluorobenzene (FID)	48.0	35-139		%REC	1	12/23/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-017

**Client Sample ID:** B36-S-10-48  
**Collection Date:** 12/20/2005 11:30:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.9	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	76.6	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.97		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-018

**Client Sample ID:** B34-S-10-44  
**Collection Date:** 12/20/2005 12:10:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	15	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	13	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	78.9	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	82.9	35-139		%REC	1	12/27/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified





# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-019

**Client Sample ID:** B-34-S-5-43  
**Collection Date:** 12/20/2005 12:00:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	18	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID

(LUFT)

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	12	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	78.7	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.93		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	36.7	35-139		%REC	1	12/27/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-020

**Client Sample ID:** B33-S-10-41  
**Collection Date:** 12/20/2005 12:50:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228E	QC Batch: 26009				PrepDate: 12/28/2005	Analyst: RQ
Lead	9.2	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	80.6	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/19/2005	Analyst: TT
GRO	ND	0.93		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	112	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-021

**Client Sample ID:** B13-S-9-17  
**Collection Date:** 12/19/2005 11:20:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228D	QC Batch: 26010				PrepDate: 12/28/2005	Analyst: RQ
Lead	4.2	1.0		mg/Kg	1	12/28/2005

**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	79.0	51-128		%REC	1	12/29/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	0.92		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	109	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-022

**Client Sample ID:** B-33-S-15-42  
**Collection Date:** 12/20/2005 1:00:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228D	QC Batch: 26010				PrepDate: 12/28/2005	Analyst: RQ
Lead	6.6	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

EPA 8015B(M)

RunID: GC7_051229B	QC Batch: 26014				PrepDate: 12/28/2005	Analyst: CBR
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	86.7	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	0.86		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	83.9	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-023

**Client Sample ID:** B-35-S-10-45  
**Collection Date:** 12/20/2005 1:45:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3050B)

EPA 6010B

RunID: ICP6_051228D	QC Batch: 26010				PrepDate: 12/28/2005	Analyst: RQ
Lead	3.4	1.0		mg/Kg	1	12/28/2005

## DIESEL RANGE ORGANICS BY GC/FID

(LUFT)

EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/29/2005
Surr: p-Terphenyl	79.6	51-128		%REC	1	12/29/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/27/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-024

**Client Sample ID:** B-10-S-5-14  
**Collection Date:** 12/20/2005 2:40:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID  
(LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	33	10		mg/Kg	1	12/30/2005
Surr: p-Terphenyl	80.3	51-128		%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	1.1		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	107	35-139		%REC	1	12/27/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080874  
**Project:** TAAF, 300893003  
**Lab ID:** 080874-025

**Client Sample ID:** Water-1  
**Collection Date:** 12/19/2005 2:00:00 PM  
**Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**ICP METALS**

(EPA 3010A)

EPA 6010B

RunID: ICP6_051227C	QC Batch: 25991				PrepDate: 12/27/2005	Analyst: RQ
Lead	ND	0.0050		mg/L	1	12/27/2005

**DIESEL RANGE ORGANICS BY GC/FID**

(EPA 3510C)

EPA 8015B(M)

RunID: GC7_BACK_051228B	QC Batch: 25985				PrepDate: 12/27/2005	Analyst: EES
Diesel	ND	0.20	H	mg/L	1	12/28/2005
Surr: p-Terphenyl	57.8	33-123	H	%REC	1	12/28/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

EPA 8015B(M)

RunID: GC6_051228A	QC Batch: I05VW214				PrepDate:	Analyst: TT
GRO	ND	0.20		mg/L	1	12/28/2005
Surr: Bromofluorobenzene (FID)	95.2	77-127		%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified





CLIENT: Ninyo & Moore  
Work Order: 080874  
Project: TAAF, 300893003

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_S

Sample ID: MB-26010	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228D
Client ID: ZZZZZ	Batch ID: 26010	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 12/28/2005	SeqNo: 850277
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	1.0			

Sample ID: MB-26009	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228E
Client ID: ZZZZZ	Batch ID: 26009	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 12/28/2005	SeqNo: 850553
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	ND	1.0			

Sample ID: LCS-26010	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228D
Client ID: ZZZZZ	Batch ID: 26010	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 12/28/2005	SeqNo: 850278
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	48.09	1.0	50	0	96.2
					80
					120
					0

Sample ID: LCS-26009	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228E
Client ID: ZZZZZ	Batch ID: 26009	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 12/28/2005	SeqNo: 850554
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	46.23	1.0	50	0	92.5
					80
					120
					0

Sample ID: 080874-022DMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228D
Client ID: B-33-S-15-42	Batch ID: 26010	TestNo: EPA 6010B	(EPA 3050B)	Analysis Date: 12/28/2005	SeqNo: 850493
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Lead	114.2	1.0	125	6.588	86.1
					47
					125
					0

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values





CLIENT: Ninyo & Moore

Work Order: 080874

Project: TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_S

Sample ID: 080874-020DMS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228E						
Client ID: B33-S-10-41	Batch ID: 26009	TestNo: EPA 6010B (EPA 3050B)		Analysis Date: 12/28/2005	SeqNo: 850576						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	112.1	1.0	125	9.183	82.4	47	125	0	0	0	

Sample ID: 080874-022DMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228D						
Client ID: B-33-S-15-42	Batch ID: 26010	TestNo: EPA 6010B (EPA 3050B)		Analysis Date: 12/28/2005	SeqNo: 850494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	116.1	1.0	125	6.588	87.6	47	125	114.2	1.70	20	

Sample ID: 080874-020DMSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: ICP6_051228E						
Client ID: B33-S-10-41	Batch ID: 26009	TestNo: EPA 6010B (EPA 3050B)		Analysis Date: 12/28/2005	SeqNo: 850577						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	111.5	1.0	125	9.183	81.9	47	125	112.1	0.577	20	

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside accepted recovery limits
- B - Analyte detected in the associated Method Blank
- DO- Surrogate dilute out
- H - Sample exceeded holding time
- Calculations are based on raw values



CLIENT: Ninyo & Moore  
 Work Order: 080874  
 Project: TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_W

Sample ID: MB-25991	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 12/27/2005	Run ID: ICP6_051227C						
Client ID: ZZZZZ	Batch ID: 25991	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 12/27/2005	SeqNo: 849315						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: LCS-25991	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/27/2005	Run ID: ICP6_051227C						
Client ID: ZZZZZ	Batch ID: 25991	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 12/27/2005	SeqNo: 849316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.9882	0.0050	1	0	98.8	85	115	0	0	0	

Sample ID: 080759-016DMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/27/2005	Run ID: ICP6_051227C						
Client ID: ZZZZZ	Batch ID: 25991	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 12/27/2005	SeqNo: 849349						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.571	0.0050	2.5	0	103	67	120	0	0	0	

Sample ID: 080759-016DMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/27/2005	Run ID: ICP6_051227C						
Client ID: ZZZZZ	Batch ID: 25991	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 12/27/2005	SeqNo: 849350						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.658	0.0050	2.5	0	106	67	120	2.571	3.31	20	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 Calculations are based on raw values  
 DO- Surrogate dilute out  
 H - Sample exceeded holding time



CLIENT: Ninyo & Moore  
 Work Order: 080874  
 Project: TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015\_S\_DSL H

Sample ID: MB-26038	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	10									
Surr: p-Terphenyl	66.75	0	80	0	83.4	51	128	0	0	0	

Sample ID: MB-26014	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_051229B						
Client ID: ZZZZZ	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 854724						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	10									
Surr: p-Terphenyl	96.98	0	80	0	121	51	128	0	0	0	

Sample ID: MB-26014	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_BACK_060105A						
Client ID: ZZZZZ	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 1/5/2006	SeqNo: 854849						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	10									
Surr: p-Terphenyl	69.1	0	80	0	86.4	51	128	0	0	0	

Sample ID: LCS-26038	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	919.1	10	1000	0	91.9	68	126	0	0	0	
Surr: p-Terphenyl	64.77	0	80	0	81	51	128	0	0	0	

Sample ID: LCS-26014	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_051229B						
Client ID: ZZZZZ	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 854725						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	890.9	10	1000	0	89.1	68	126	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out  
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080874  
**Project:** TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DSLH**

Sample ID: LCS-26014	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_051229B						
Client ID: ZZZZZ	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT)		Analysis Date: 12/29/2005	SeqNo: 854725						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	82.19	0	80	0	103	51	128	0	0	0	0

Sample ID: LCS-26014	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_BACK_060105A						
Client ID: ZZZZZ	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT)		Analysis Date: 1/5/2006	SeqNo: 854848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	824.2	10	1000	0	82.4	68	126	0	0	0	0
Surr: p-Terphenyl	87.71	0	80	0	110	51	128	0	0	0	0

Sample ID: 080917-003DMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT)		Analysis Date: 12/29/2005	SeqNo: 852426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	942.7	10	1000	0	94.3	49	139	0	0	0	0
Surr: p-Terphenyl	66.17	0	80	0	82.7	51	128	0	0	0	0

Sample ID: 080874-022DMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/28/2005	Run ID: GC7_051229B						
Client ID: B-33-S-15-42	Batch ID: 26014	TestNo: EPA 8015B(M (LUFT)		Analysis Date: 12/29/2005	SeqNo: 854726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	797.8	10	1000	0	79.8	49	139	0	0	0	0
Surr: p-Terphenyl	57.6	0	80	0	72	51	128	0	0	0	0

Sample ID: 080917-003DMSD	SampType: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT)		Analysis Date: 12/29/2005	SeqNo: 852427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	917.6	10	1000	0	91.8	49	139	942.7	2.70	30	0
Surr: p-Terphenyl	63.48	0	80	0	79.4	51	128	0	0	0	0

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values



CLIENT: Ninyo & Moore  
 Work Order: 080874  
 Project: TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015\_S\_DSLH

Sample ID: 080874-022DMSD    SampType: MSD    TestCode: 8015\_S\_DSL    Units: mg/Kg    Prep Date: 12/28/2005    Run ID: GC7\_051229B  
 Client ID: B-33-S-15-42    Batch ID: 26014    TestNo: EPA 8015B(M (LUFT))    Analysis Date: 12/29/2005    SeqNo: 854727

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	936.9	10	1000	0	93.7	49	139	797.8	16.0	30	
Surr: p-Terphenyl	69.76	0	80	0	87.2	51	128	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit    S - Spike Recovery outside accepted recovery limits    DO - Surrogate dilute out  
 J - Analyte detected below quantitation limits    B - Analyte detected in the associated Method Blank    H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits    Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080874  
**Project:** TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_S\_G\_5035P

Sample ID: D122305MB1	SampType: MBLK	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051223A						
Client ID: ZZZZ	Batch ID: D05VS209	TestNo: EPA 8015B(M)		Analysis Date: 12/23/2005	SeqNo: 849293						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	99.73	0	100	0	99.7	35	139	0	0	0	

Sample ID: E122305MB2	SampType: MBLK	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC2_051223B						
Client ID: ZZZZ	Batch ID: E05VS344	TestNo: EPA 8015B(M)		Analysis Date: 12/23/2005	SeqNo: 849328						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	73.29	0	100	0	73.3	35	139	0	0	0	

Sample ID: D122705MB1	SampType: MBLK	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051227A						
Client ID: ZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	100.1	0	100	0	100	35	139	0	0	0	

Sample ID: D122305LCS2	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051223A						
Client ID: ZZZZ	Batch ID: D05VS209	TestNo: EPA 8015B(M)		Analysis Date: 12/23/2005	SeqNo: 849297						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.909	1.0	5	0	98.2	79	117	0	0	0	
Surr: Bromofluorobenzene (FID)	111	0	100	0	111	35	139	0	0	0	

Sample ID: E122305LCS4	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC2_051223B						
Client ID: ZZZZ	Batch ID: E05VS344	TestNo: EPA 8015B(M)		Analysis Date: 12/24/2005	SeqNo: 849335						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.989	1.0	5	0	99.8	79	117	0	0	0	

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits  
 Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080874  
**Project:** TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_G\_5035P**

Sample ID: E122305LCS4	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg
Client ID: ZZZZ	Batch ID: E05VS344	TestNo: EPA 8015B(M)	
Prep Date: 12/24/2005		Run ID: GC2_051223B	
Analysis Date: 12/24/2005		SeqNo: 849335	
Analyte	Result	PQL	SPK value
Surr: Bromofluorobenzene (FID)	87.14	0	100
		%REC	SPK Ref Val
		87.1	0
		LowLimit	HighLimit
		35	139
		%RPD	RPDLimit
		0	0
		RPD Ref Val	Qual
		0	0

Sample ID: D122705LCS1	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg
Client ID: ZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)	
Prep Date: 12/27/2005		Run ID: GC1_051227A	
Analysis Date: 12/27/2005		SeqNo: 850638	
Analyte	Result	PQL	SPK value
GRO	5.262	1.0	5
Surr: Bromofluorobenzene (FID)	111.8	0	100
		%REC	SPK Ref Val
		112	0
		LowLimit	HighLimit
		35	139
		%RPD	RPDLimit
		0	0
		RPD Ref Val	Qual
		0	0

Sample ID: 080858-012AMS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg
Client ID: ZZZZ	Batch ID: D05VS209	TestNo: EPA 8015B(M)	
Prep Date: 12/23/2005		Run ID: GC1_051223A	
Analysis Date: 12/23/2005		SeqNo: 849295	
Analyte	Result	PQL	SPK value
GRO	4.52	1.0	5
Surr: Bromofluorobenzene (FID)	111.5	0	100
		%REC	SPK Ref Val
		90.4	0
		LowLimit	HighLimit
		35	134
		%RPD	RPDLimit
		0	0
		RPD Ref Val	Qual
		0	0

Sample ID: E122305MB2MS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg
Client ID: ZZZZ	Batch ID: E05VS344	TestNo: EPA 8015B(M)	
Prep Date: 12/23/2005		Run ID: GC2_051223B	
Analysis Date: 12/23/2005		SeqNo: 849329	
Analyte	Result	PQL	SPK value
GRO	5.009	1.0	5
Surr: Bromofluorobenzene (FID)	87.72	0	100
		%REC	SPK Ref Val
		100	0
		LowLimit	HighLimit
		35	134
		%RPD	RPDLimit
		0	0
		RPD Ref Val	Qual
		0	0

Sample ID: 080874-022AMS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg
Client ID: B-33-S-15-42	Batch ID: D05VS210	TestNo: EPA 8015B(M)	
Prep Date: 12/20/2005		Run ID: GC1_051227A	
Analysis Date: 12/27/2005		SeqNo: 850643	
Analyte	Result	PQL	SPK value
GRO	5.036	1.0	5
Surr: Bromofluorobenzene (FID)	113.5	0	100
		%REC	SPK Ref Val
		101	0
		LowLimit	HighLimit
		35	134
		%RPD	RPDLimit
		0	0
		RPD Ref Val	Qual
		0	0

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 R - RPD outside accepted recovery limits      Calculations are based on raw values



CLIENT: Ninyo & Moore

Work Order: 080874

Project: TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015\_S\_G\_5035P

Sample ID: 080858-012AMSD	SampType: MSD	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051223A						
Client ID: ZZZZ	Batch ID: D05VS209	TestNo: EPA 8015B(M)		Analysis Date: 12/23/2005	SeqNo: 849296						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.625	1.0	5	0	92.5	35	134	4.52	2.30	30	
Surr: Bromofluorobenzene (FID)	111.5	0	100	0	111	35	139	0	0	30	

Sample ID: E122305MB2MSD	SampType: MSD	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC2_051223B						
Client ID: ZZZZ	Batch ID: E05VS344	TestNo: EPA 8015B(M)		Analysis Date: 12/23/2005	SeqNo: 849330						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.04	1.0	5	0	101	35	134	5.009	0.617	30	
Surr: Bromofluorobenzene (FID)	86.14	0	100	0	86.1	35	139	0	0	30	

Sample ID: 080874-022AMSD	SampType: MSD	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051227A						
Client ID: B-33-S-15-42	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.998	1.0	5	0	100	35	134	5.036	0.757	30	
Surr: Bromofluorobenzene (FID)	112.1	0	100	0	112	35	139	0	0	30	

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 B - Analyte detected in the associated Method Blank  
 DC - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values





**CLIENT:** Ninyo & Moore  
**Work Order:** 080874  
**Project:** TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_W\_DSL H**

Sample ID: MB-25985	SampType: MBLK	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853829						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.20									
Surr: p-Terphenyl	0.03935	0	0.08	0	49.2	33	123	0	0	0	

Sample ID: LCS-25985	SampType: LCS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853830						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8187	0.20	1	0	81.9	62	127	0	0	0	
Surr: p-Terphenyl	0.04485	0	0.08	0	56.1	33	123	0	0	0	

Sample ID: MB-25985MS	SampType: MS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853831						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8167	0.20	1	0	81.7	50	120	0	0	0	
Surr: p-Terphenyl	0.03819	0	0.08	0	47.7	33	123	0	0	0	

Sample ID: MB-25985MSD	SampType: MSD	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853832						
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8635	0.20	1	0	86.3	50	120	0.8167	5.57	30	
Surr: p-Terphenyl	0.03464	0	0.08	0	43.3	33	123	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      DO- Surrogate dilute out  
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 R - RPD outside accepted recovery limits      Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080874  
**Project:** TAAF, 300893003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_W\_G\_PRES

Sample ID: 1122805MB2	SampType: MBLK	TestCode: 8015_W_G_P	Units: mg/L	Prep Date:	Run ID: GC6_051228A						
Client ID: ZZZZZ	Batch ID: 105VW214	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850973						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.20									
Surr: Bromofluorobenzene (FID)	100.1	0	100	0	100	77	127	0	0	0	

Sample ID: 1122805LCS1	SampType: LCS	TestCode: 8015_W_G_P	Units: mg/L	Prep Date:	Run ID: GC6_051228A						
Client ID: ZZZZZ	Batch ID: 105VW214	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.076	0.20	1	0	108	70	115	0	0	0	
Surr: Bromofluorobenzene (FID)	106	0	100	0	106	77	127	0	0	0	

Sample ID: 1122805MB2MS	SampType: MS	TestCode: 8015_W_G_P	Units: mg/L	Prep Date:	Run ID: GC6_051228A						
Client ID: ZZZZZ	Batch ID: 105VW214	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850970						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.827	0.20	1	0	82.7	64	117	0	0	0	
Surr: Bromofluorobenzene (FID)	102.7	0	100	0	103	77	127	0	0	0	

Sample ID: 1122805MB2MSD	SampType: MSD	TestCode: 8015_W_G_P	Units: mg/L	Prep Date:	Run ID: GC6_051228A						
Client ID: ZZZZZ	Batch ID: 105VW214	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850971						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	1.1	0.20	1	0	110	64	117	0.827	28.3	30	
Surr: Bromofluorobenzene (FID)	108.1	0	100	0	108	77	127	0	0	0	

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 R - RPD outside accepted recovery limits      Calculations are based on raw values

JAN 20 2006

January 16, 2006



Andrew Stuart  
Ninyo & Moore  
6700 Paradise Road, Suite E  
Las Vegas, NV 89119  
TEL: (702) 433-0330  
FAX: 702-227-2051

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
CSDLAC No.: 10196

Workorder No.: 080874

RE: TAAF, 300893003

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on December 22, 2005 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez  
Laboratory Director

This cover letter is an integral part of this analytical report.





## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Advanced Technology Laboratories  
3275 Walnut Street  
Signal Hill, CA 90809-

Telephone: (562) 989-4045  
Attention: Rachelle Arada

Number of Pages 6  
Date Received 12/23/2005  
Date Reported 01/05/2006

Job Number	Order Date	Client
35750	12/23/2005	ATL

Project ID: 080874

Enclosed please find results of analyses of 1 water and 23 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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## ANALYTICAL RESULTS

### Ordered By

Advanced Technology Laboratories  
 3275 Walnut Street  
 Signal Hill, CA 90809-

Telephone: (562) 989-4045

Attn: Rachelle Arada

Page 2

Project ID: 080874

AETL Job Number	Submitted	Client
35750	12/23/2005	ATL

Analytes			Lead, Organic
Methods of Analyses			HMU-900
Date Prepared			12/25/2005
Date Analyzed			12/30/2005
Matrix			Aqueous
QC Batch Number			122505
Units			mg/L
Method Detection Limit			0.05
Practical Quantitation Limit			0.10
Dilution Factor			1
Lab ID	Sample ID	Sampled	Results
35750.24	080874-025D	12/20/2005	ND
N/A	Method Blank	12/20/2005	ND

Analytes			Lead, Organic
Methods of Analyses			(HMU-900)
Date Prepared			12/28/2005
Date Analyzed			12/30/2005
Matrix			Soil
QC Batch Number			122805
Units			mg/Kg
Method Detection Limit			0.5
Practical Quantitation Limit			1.0
Dilution Factor			1
Lab ID	Sample ID	Sampled	Results
35750.01	080874-001E	12/19/2005	ND
35750.02	080874-002E	12/19/2005	ND
35750.03	080874-003E	12/19/2005	ND
35750.04	080874-004E	12/19/2005	ND
35750.05	080874-005E	12/19/2005	ND
35750.06	080874-006E	12/19/2005	ND
35750.07	080874-007E	12/19/2005	ND
35750.08	080874-008E	12/19/2005	ND
35750.09	080874-009E	12/19/2005	ND
35750.10	080874-010E	12/19/2005	ND
35750.11	080874-011E	12/20/2005	ND
35750.12	080874-012E	12/20/2005	ND
35750.13	080874-013E	12/20/2005	ND
35750.14	080874-014E	12/20/2005	ND
35750.15	080874-015E	12/20/2005	ND
N/A	Method Blank	12/19/2005	ND



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

Page 3  
Project ID: 080874

AETL Job Number	Submitted	Client
35750	12/23/2005	ATL

Analytes			Lead, Organic		
Methods of Analyses			(HMU-900)		
Date Prepared			12/28/2005		
Date Analyzed			12/30/2005		
Matrix			Soil		
QC Batch Number			122805-1		
Units			mg/Kg		
Method Detection Limit			0.5		
Practical Quantitation Limit			1.0		
Dilution Factor			1		
Lab ID	Sample ID	Sampled	Results		
35750.16	080874-016E	12/20/2005	ND		
35750.17	080874-017E	12/20/2005	ND		
35750.18	080874-018E	12/20/2005	ND		
35750.19	080874-019E	12/20/2005	ND		
35750.20	080874-020E	12/20/2005	ND		
35750.21	080874-021E	12/19/2005	ND		
35750.22	080874-022E	12/20/2005	ND		
35750.23	080874-023E	12/20/2005	ND		



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Advanced Technology Laboratories  
 3275 Walnut Street  
 Signal Hill, CA 90809-

Telephone: (562)989-4045

Attn: Rachele Arada

Page: 4

Project ID: 080874

AETL Job Number	Submitted	Client
35750	12/23/2005	ATL

Method: HMU-900, Organic Lead  
QUALITY CONTROL REPORT

QC Batch No: 122505 Sample Spiked: 35243.01 QC Prepared: 12/25/2005 QC Analyzed: 12/30/2005 Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead, Organic	0.010	1.00	0.95	94	1.00	0.95	94	<1	80-120	<15

QC Batch No: 122505 Sample Spiked: 35243.01 QC Prepared: 12/25/2005 QC Analyzed: 12/30/2005 Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Lead, Organic	1.00	0.95	95	80-120						



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## ANALYTICAL RESULTS

### Ordered By

Advanced Technology Laboratories  
 3275 Walnut Street  
 Signal Hill, CA 90809-

Telephone: (562)989-4045

Attn: Rachelle Arada

Page: 5

Project ID: 080874

AETL Job Number	Submitted	Client
35750	12/23/2005	ATL

Method: (HMU-900), Organic Lead

### QUALITY CONTROL REPORT

QC Batch No: 122805 Sample Spiked: 35750.01 QC Prepared: 12/28/2005 QC Analyzed: 12/30/2005 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead, Organic	0.003	1.00	0.92	92	1.00	0.92	92	<1	80-120	<15

QC Batch No: 122805 Sample Spiked: 35750.01 QC Prepared: 12/28/2005 QC Analyzed: 12/30/2005 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Lead, Organic	1.00	0.94	94	80-120						





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## ANALYTICAL RESULTS

### Ordered By

Advanced Technology Laboratories  
 3275 Walnut Street  
 Signal Hill, CA 90809-

Telephone: (562)989-4045

Attn: Rachele Arada

Page: 6

Project ID: 080874

AETL Job Number	Submitted	Client
35750	12/23/2005	ATL

Method: (HMU-900), Organic Lead  
**QUALITY CONTROL REPORT**

QC Batch No: 122805-1 Sample Spiked: 35750.22 QC Prepared: 12/28/2005 QC Analyzed: 12/30/2005 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead, Organic	0.006	1.00	0.94	93	1.00	0.94	93	<1	80-120	<15

QC Batch No: 122805-1 Sample Spiked: 35750.22 QC Prepared: 12/28/2005 QC Analyzed: 12/30/2005 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit					
Lead, Organic	1.00	0.95	95	80-120					



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • [www.aetlab.com](http://www.aetlab.com)

### Data Qualifiers and Descriptors

- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference
-

# Advanced Technology Laboratories

3275 Walnut Avenue  
Signal Hill, CA 90755-5225  
(562) 989-4045

# CHAIN-OF-CUSTODY RECORD

**Subcontractor:**

AETL  
2834 North Naomi Street  
Burbank, CA 91504

QClevel: RTNE

TEL: (818) 845-8200  
FAX: (818) 845-8840

Job # 35750

Acct #:

23-Dec-05

Sample ID	Matrix	Collection Date	Bottle Type	ORG	PB	Requested Tests	
080874-001E \ B-11-S-6-15	Soil	12/19/05 9:45:00 AM	4OZG	1			35750-01
080874-002E \ B12-S-6-16	Soil	12/19/05 10:20:00 AM	4OZG	1			35750-02
080874-003E \ B-14-S-6-18	Soil	12/19/05 11:00:00 AM	4OZG	1			35750-03
080874-004E \ B15-S-15-19	Soil	12/19/05 12:45:00 PM	4OZG	1			35750-04
080874-005E \ B16-S-10-60	Soil	12/19/05 1:40:00 PM	4OZG	1			35750-05
080874-006E \ B16-S-10-20	Soil	12/19/05 1:30:00 PM	4OZG	1			35750-06
080874-007E \ B17-S-10-21	Soil	12/19/05 2:20:00 PM	4OZG	1			35750-07
080874-008E \ B17-S15-22	Soil	12/19/05 2:35:00 PM	4OZG	1			35750-08
080874-009E \ B18-S-10-23	Soil	12/19/05 3:30:00 PM	4OZG	1			35750-09
080874-010E \ B18-S-15-24	Soil	12/19/05 3:40:00 PM	4OZG	1			35750-10
080874-011E \ B31-S-3-39	Soil	12/20/05 9:00:00 AM	4OZG	1			35750-11
080874-012E \ B29-S-9-37	Soil	12/20/05 9:45:00 AM	4OZG	1			35750-12
080874-013E \ B29-S-9-61	Soil	12/20/05 10:00:00 AM	4OZG	1			35750-13
080874-014E \ B30-S-6-38	Soil	12/20/05 10:00:00 AM	4OZG	1			35750-14

**Comments:** Please use PO#: SC00273 Please fax results by: Normal TAT  
USE SAMPLE 080874-22E AS QC. Send report to Rachelle Arada.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>af</i>	12/23/05 0950	<i>af</i>	12/23/05 1140
<i>af</i>	12/23/05 1550	<i>af</i>	12/23/05 1550

# Advanced Technology Laboratories

3275 Walnut Avenue  
Signal Hill, CA 90755-5225  
(562) 989-4045

# CHAIN-OF-CUSTODY RECORD

**Subcontractor:**

AETL  
2834 North Naomi Street  
Burbank, CA 91504

QClevel: RTNE

TEL: (818) 845-8200  
FAX: (818) 845-8840

Acct #:

*Job # 35750*

23-Dec-05

Sample ID	Matrix	Collection Date	Bottle Type	ORG	PB	Requested Tests
080874-015E \ B32-S-6-40	Soil	12/20/05	4OZG	1		35750.15
080874-016E \ B36-S-5-47	Soil	12/20/05 11:20:00 AM	4OZG	1		35750.16
080874-017E \ B36-S-10-48	Soil	12/20/05 11:30:00 AM	4OZG	1		35750.17
080874-018E \ B34-S-10-44	Soil	12/20/05 12:10:00 PM	4OZG	1		35750.18
080874-019E \ B-34-S-5-43	Soil	12/20/05 12:00:00 PM	4OZG	1		35750.19
080874-020E \ B33-S-10-41	Soil	12/20/05 12:50:00 PM	4OZG	1		35750.20
080874-021E \ B-13-S-9-17	Soil	12/19/05 11:20:00 PM	4OZG	1		35750.21
080874-022E \ B-33-S-15-42	Soil	12/20/05 1:00:00 PM	4OZG	1		35750.22
080874-023E \ B-35-S-10-45	Soil	12/20/05 1:45:00 PM	4OZG	1		35750.23
080874-025D \ Water-1	Water	12/20/05 2:00:00 PM	16OZP	1		35750.24

**Comments:** Please use PO#: SC00273 Please fax results by: Normal TAT  
USE SAMPLE 080874-22E AS QC. Send report to Rachelle Arada.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>[Signature]</i>	12/23/05 0750	<i>[Signature]</i>	12/23/05 1140
<i>[Signature]</i>	12/23/05 1550	<i>[Signature]</i>	12/23/05 1550

TAAF

# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories**  
 3275 Walnut Avenue  
 Signal Hill, CA 90755  
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: \_\_\_\_\_  
 Logged By: f Date: 12/22/05

Method of Transport  
 Client  
 ATL  
 CA OverN  
 FEDEX  
 Other:

Sample Condition Upon Receipt:  
 1. CHILLED  2. SEALED  3. N  4. Y  5. N   
 2. HEADSPACE (VOA)  3. N  4. # OF SPLS MATCH COC  5. Y  6. N   
 3. CONTAINER INTACT  4. N  5. PRESERVED  6. Y  7. N

Client: N+M Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attn: Andrew Stewart City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Project Name: TAAF Sampler: Andrew Stewart (Printed Name)  
 Relinquished by: [Signature] (Signature) Date: 12/22/05 Time: 12:00  
 Received by: [Signature] (Signature) Date: 12/21/05 Time: 9:34  
 Relinquished by: [Signature] (Signature) Date: 12/21/05 Time: 9:34  
 Received by: [Signature] (Signature) Date: 12/22/05 Time: 9:00

Special Instructions/Comments:  
 Bill To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Send Report To:  
 Attn: Andrew Stewart  
 Co: N+M  
 Address: 6700 Parkside  
 City: LA State: CA Zip: 90405

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch # / Lab No.	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		RESERVATION	QA/QC RTNE <input type="checkbox"/> CT <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER <input type="checkbox"/>	REMARKS
				Container(s)	TAT # Type			
080874-001	B-11-5-6-15	12/19	9:45	X	801A (Pesticides)	X		
-002	B12-5-6-16	12/19	10:20	X	802 (PCB)	X		
-003	B-14-5-6-18		1:00	X	8250C (Volatiles)	X		
-004	B15-5-15-19		10:45	X	8015B (GRD) / 8020 (BTEX)	X		
-005	B16-5-10-60		13:40	X	8015C (Total Metal)	X		
-00C	B16-5-10-20		13:30	X	8015A (GRD) / 8020 (BTEX)	X		
-007	B17-5-10-21		14:30	X	8015B (GRD) / 8020 (BTEX)	X		
-00Y	B17-5-15-22		14:35	X	8015C (Total Metal)	X		
-009	B18-5-10-23		15:30	X	8015B (GRD) / 8020 (BTEX)	X		
-010	B18-5-15-24		15:30	X	8015C (Total Metal)	X		

Preservatives:  
 H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(Ac)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

TAT: A= ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays  
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tealjar G=Glass P=Plastic M=Metal

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.



# CHAIN OF CUSTODY RECORD

## FOR LABORATORY USE ONLY:

**Advanced Technology Laboratories**  
 3275 Walnut Avenue  
 Signal Hill, CA 90755  
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: \_\_\_\_\_  
 Logged By: W/26/05  
 Date: 12/21/05

Method of Transport: Client  ATL  CA OverN  FEDEX  Other: \_\_\_\_\_  
 Sample Condition Upon Receipt: 1. CHILLED  2. HEADSPACE (NOA)  3. CONTAINER INTACT  4. SEALED  5. # OF SPLS MATCH COC  6. PRESERVED

Client: WINDMILL  
 Attn: ANDREW SWARTZ  
 Project Name: TAAE  
 Project #: 300893003  
 Sampler: ANDREW SWARTZ  
 State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 City: \_\_\_\_\_

Received by (Signature and Printed Name): [Signature]  
 Date: 12/20/05 Time: 1:50  
 Received by (Signature and Printed Name): [Signature]  
 Date: 12/21/05 Time: 9:38  
 Received by (Signature and Printed Name): [Signature]  
 Date: 12/22/05 Time: 08:00

TEL: ( ) \_\_\_\_\_  
 FAX: ( ) \_\_\_\_\_

Bill To:  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Send Report To:  
 Attn: ANDREW SWARTZ  
 Co: NTW  
 Address: 6700 PARKWAY  
 City: LV State: NV Zip: 89149

Special Instructions/Comments: \_\_\_\_\_

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
080874-021	B-33-5-10-41	B-33-5-10-41		12:30	12:50
-022	B-33-5-15-42	B-33-5-15-42		↓	13:00
-023	B-35-5-10-45	B-35-5-10-45		↓	13:15
-024	B-10-5-5-14	B-10-5-5-14		↓	14:00
✓ -025	W4for-1	W4for-1		12:19	14:00

Circle or Add Analysis(es) Requested:  
 801A (particles)  802 (PCB)  8200 (Nalans)  8270C (GMA)  8010B (Total Metals)  8015B (GRO) 8020 (GTEX)  8015B (PRO)  8021 (GTEX)  TME 22 / CAM 17 (8010 / 7000)

SPECIFY APPROPRIATE MATRIX:  
 SOIL  WATER  GROUND WATER  WASTEWATER

Container(s): \_\_\_\_\_ TAT # Type: \_\_\_\_\_  
 E 5 G  
 ↓ 5 G  
 ↓ 5 G  
 ↓ 4 G  
 E 6 G P

QA/QC: RTNE  CT  SWRCB Logcode  OTHER \_\_\_\_\_ REMARKS: Regy Para

Preservatives: H=HCl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>SO<sub>3</sub>

TAT: A= Overnight ≤ 24 hr B= Next workday C= 2 Workdays D= 3 Workdays E= 7 Workdays  
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal



# CHAIN OF CUSTODY RECORD

Pg. 1 of 1

## FOR LABORATORY USE ONLY:

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 3275 Walnut Avenue  
 Signal Hill, CA 90755  
 (562) 989-4045 • Fax (562) 989-4040

P.O.#: \_\_\_\_\_  
 Logged By: \_\_\_\_\_ Date: \_\_\_\_\_

Method of Transport  
 Client  ATL  CA OverN  FEDEX  Other: \_\_\_\_\_

Sample Condition Upon Receipt  
 1. CHILLED Y  N  4. SEALED Y  N   
 2. HEADSPACE (VOL) Y  N  5. # OF SRLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Client: \_\_\_\_\_ Address: \_\_\_\_\_ TEL: ( ) \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ Project #: \_\_\_\_\_ Sampler: \_\_\_\_\_ (Signature)  
 Received by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: (Signature and Printed Name) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Special Instructions/Comments: \_\_\_\_\_

Bill To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Circle or Add Analysis(es) Requested:  
 6001 (Pb)  6002 (Pb)  6003 (Pb)  6004 (Pb)  6005 (Pb)  6006 (Pb)  6007 (Pb)  6008 (Pb)  6009 (Pb)  6010 (Pb)  6011 (Pb)  6012 (Pb)  6013 (Pb)  6014 (Pb)  6015 (Pb)  6016 (Pb)  6017 (Pb)  6018 (Pb)  6019 (Pb)  6020 (Pb)  6021 (Pb)  6022 (Pb)  6023 (Pb)  6024 (Pb)  6025 (Pb)  6026 (Pb)  6027 (Pb)  6028 (Pb)  6029 (Pb)  6030 (Pb)  6031 (Pb)  6032 (Pb)  6033 (Pb)  6034 (Pb)  6035 (Pb)  6036 (Pb)  6037 (Pb)  6038 (Pb)  6039 (Pb)  6040 (Pb)  6041 (Pb)  6042 (Pb)  6043 (Pb)  6044 (Pb)  6045 (Pb)  6046 (Pb)  6047 (Pb)  6048 (Pb)  6049 (Pb)  6050 (Pb)  6051 (Pb)  6052 (Pb)  6053 (Pb)  6054 (Pb)  6055 (Pb)  6056 (Pb)  6057 (Pb)  6058 (Pb)  6059 (Pb)  6060 (Pb)  6061 (Pb)  6062 (Pb)  6063 (Pb)  6064 (Pb)  6065 (Pb)  6066 (Pb)  6067 (Pb)  6068 (Pb)  6069 (Pb)  6070 (Pb)  6071 (Pb)  6072 (Pb)  6073 (Pb)  6074 (Pb)  6075 (Pb)  6076 (Pb)  6077 (Pb)  6078 (Pb)  6079 (Pb)  6080 (Pb)  6081 (Pb)  6082 (Pb)  6083 (Pb)  6084 (Pb)  6085 (Pb)  6086 (Pb)  6087 (Pb)  6088 (Pb)  6089 (Pb)  6090 (Pb)  6091 (Pb)  6092 (Pb)  6093 (Pb)  6094 (Pb)  6095 (Pb)  6096 (Pb)  6097 (Pb)  6098 (Pb)  6099 (Pb)  6100 (Pb)  6101 (Pb)  6102 (Pb)  6103 (Pb)  6104 (Pb)  6105 (Pb)  6106 (Pb)  6107 (Pb)  6108 (Pb)  6109 (Pb)  6110 (Pb)  6111 (Pb)  6112 (Pb)  6113 (Pb)  6114 (Pb)  6115 (Pb)  6116 (Pb)  6117 (Pb)  6118 (Pb)  6119 (Pb)  6120 (Pb)  6121 (Pb)  6122 (Pb)  6123 (Pb)  6124 (Pb)  6125 (Pb)  6126 (Pb)  6127 (Pb)  6128 (Pb)  6129 (Pb)  6130 (Pb)  6131 (Pb)  6132 (Pb)  6133 (Pb)  6134 (Pb)  6135 (Pb)  6136 (Pb)  6137 (Pb)  6138 (Pb)  6139 (Pb)  6140 (Pb)  6141 (Pb)  6142 (Pb)  6143 (Pb)  6144 (Pb)  6145 (Pb)  6146 (Pb)  6147 (Pb)  6148 (Pb)  6149 (Pb)  6150 (Pb)  6151 (Pb)  6152 (Pb)  6153 (Pb)  6154 (Pb)  6155 (Pb)  6156 (Pb)  6157 (Pb)  6158 (Pb)  6159 (Pb)  6160 (Pb)  6161 (Pb)  6162 (Pb)  6163 (Pb)  6164 (Pb)  6165 (Pb)  6166 (Pb)  6167 (Pb)  6168 (Pb)  6169 (Pb)  6170 (Pb)  6171 (Pb)  6172 (Pb)  6173 (Pb)  6174 (Pb)  6175 (Pb)  6176 (Pb)  6177 (Pb)  6178 (Pb)  6179 (Pb)  6180 (Pb)  6181 (Pb)  6182 (Pb) 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January 19, 2006

Andrew Stuart  
Ninyo & Moore  
6700 Paradise Road, Suite E  
Las Vegas, NV 89119  
TEL: (702) 433-0330  
FAX: 702-227-2051

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
CSDLAC No.: 10196

Workorder 080917

RE: TAAF, 300983003

Attention: Andrew Stuart

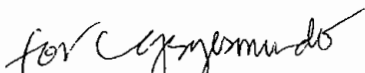
Enclosed are the results for sample(s) received on December 23, 2005 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

I hereby certify that all laboratory analysis requested were performed by Nevada Division of Environmental Protection-certified laboratory for the parameters and matrices reported herein.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

  
Eddie F. Rodriguez  
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore **Client Sample ID:** B9-S-5-13  
**Lab Order:** 080917  
**Project:** TAAF, 300983003 **Collection Date:** 12/20/2005 3:10:00 PM  
**Lab ID:** 080917-001 **Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID  
(LUFT)**
**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038				PrepDate: 12/29/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/30/2005
Surr: p-Terphenyl	77.4	51-128		%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**
**EPA 8015B(M)**

RunID: GC1_051227A	QC Batch: D05VS210				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	1.2		mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	108	35-139		%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

Page 1 of 18

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-002

**Client Sample ID:** B8-S-5-12  
**Collection Date:** 12/20/2005 3:15:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	78.0	51-128	%REC	1	12/30/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.0	mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	39.4	35-139	%REC	1	12/27/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DO - Surrogate Diluted Out  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-003

**Client Sample ID:** B7-S-5-11  
**Collection Date:** 12/20/2005 3:30:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	78.9	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.96	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	109	35-139	%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-004

**Client Sample ID:** B6-S-5-10  
**Collection Date:** 12/20/2005 3:40:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	36	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	79.6	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.1	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	106	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-005

**Client Sample ID:** B1-S-5-1  
**Collection Date:** 12/21/2005 8:50:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

### EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	80.6	51-128	%REC	1	12/30/2005

## GASOLINE RANGE ORGANICS BY GC/FID

### EPA 8015B(M)

RunID: GC1_051227A	QC Batch: D05VS210	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.0	mg/Kg	1	12/27/2005
Surr: Bromofluorobenzene (FID)	109	35-139	%REC	1	12/27/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified







# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-007

**Client Sample ID:** B2-S-5-3  
**Collection Date:** 12/21/2005 9:30:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## DIESEL RANGE ORGANICS BY GC/FID (LUFT)

## EPA 8015B(M)

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	81.7	51-128	%REC	1	12/30/2005

## GASOLINE RANGE ORGANICS BY GC/FID

## EPA 8015B(M)

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.90	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	109	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DO - Surrogate Diluted Out  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-008

**Client Sample ID:** B2-S-15-4  
**Collection Date:** 12/21/2005 9:40:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID  
(LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	79.0	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.5	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	108	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-009

**Client Sample ID:** B3-S-15-57  
**Collection Date:** 12/21/2005 10:25:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	79.8	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.95	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	76.6	35-139	%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-010

**Client Sample ID:** B3-S-15-5  
**Collection Date:** 12/21/2005 10:20:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID  
(LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	82.3	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.0	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	108	35-139	%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-011

**Client Sample ID:** B4-S-5-6  
**Collection Date:** 12/21/2005 11:10:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID  
(LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	80.5	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.90	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	108	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-012

**Client Sample ID:** B4-S-15-7  
**Collection Date:** 12/21/2005 11:15:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	80.3	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.94	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	101	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-013

**Client Sample ID:** Water-2  
**Collection Date:** 12/20/2005 4:00:00 PM  
**Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## ICP METALS

(EPA 3010A)

EPA 6010B

RunID: ICP6_060103B	QC Batch: 26074				PrepDate: 12/30/2005	Analyst: RQ
Lead	ND	0.0050		mg/L	1	1/3/2006

## DIESEL RANGE ORGANICS BY GC/FID

(EPA 3510C)

EPA 8015B(M)

RunID: GC7_BACK_051228B	QC Batch: 25985				PrepDate: 12/27/2005	Analyst: EES
Diesel	ND	0.20		mg/L	1	12/28/2005
Surr: p-Terphenyl	56.4	33-123		%REC	1	12/28/2005

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC6_051230A	QC Batch: I05VW217				PrepDate:	Analyst: TT
GRO	ND	0.20		mg/L	1	12/30/2005
Surr: Bromofluorobenzene (FID)	96.0	77-127		%REC	1	12/30/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-014

**Client Sample ID:** Water-3  
**Collection Date:** 12/21/2005 12:00:00 PM  
**Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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## DIESEL RANGE ORGANICS BY GC/FID

(EPA 3510C)

EPA 8015B(M)

RunID: GC7_060103A	QC Batch: 26004	PrepDate: 12/28/2005	Analyst: EES		
Diesel	ND	0.20	mg/L	1	1/3/2006
Surr: p-Terphenyl	69.0	33-123	%REC	1	1/3/2006

## GASOLINE RANGE ORGANICS BY GC/FID

EPA 8015B(M)

RunID: GC6_051230A	QC Batch: I05VW217	PrepDate:	Analyst: TT		
GRO	ND	0.20	mg/L	1	12/30/2005
Surr: Bromofluorobenzene (FID)	97.3	77-127	%REC	1	12/30/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified





# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-015

**Client Sample ID:** B5-S-15-9  
**Collection Date:** 12/21/2005 12:00:00 PM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_051229A	QC Batch: 26038	PrepDate: 12/29/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/30/2005
Surr: p-Terphenyl	81.3	51-128	%REC	1	12/30/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	1.3	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	105	35-139	%REC	1	12/28/2005

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank      E - Value above quantitation range  
 DO - Surrogate Diluted Out      H-Samples exceeding holding time

Results are wet unless otherwise specified



# Advanced Technology Laboratories

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-016

**Client Sample ID:** B5-S-15-58  
**Collection Date:** 12/21/2005 11:55:00 AM  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_BACK_051231A	QC Batch: 26064	PrepDate: 12/30/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/31/2005
Surr: p-Terphenyl	87.2	51-128	%REC	1	12/31/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.94	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	111	35-139	%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

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Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-017

**Client Sample ID:** B5-S-8-8  
**Collection Date:**  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_BACK_051231A	QC Batch: 26064	PrepDate: 12/30/2005	Analyst: EES		
Diesel	ND	10	mg/Kg	1	12/31/2005
Surr: p-Terphenyl	86.4	51-128	%REC	1	12/31/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211	PrepDate: 12/20/2005	Analyst: TT		
GRO	ND	0.92	mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	110	35-139	%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

Results are wet unless otherwise specified



**Advanced Technology Laboratories**

Date: 19-Jan-06

**CLIENT:** Ninyo & Moore  
**Lab Order:** 080917  
**Project:** TAAF, 300983003  
**Lab ID:** 080917-018

**Client Sample ID:** B8-S-5-59  
**Collection Date:**  
**Matrix:** SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
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**DIESEL RANGE ORGANICS BY GC/FID (LUFT)**

**EPA 8015B(M)**

RunID: GC8_BACK_051231A	QC Batch: 26064				PrepDate: 12/30/2005	Analyst: EES
Diesel	ND	10		mg/Kg	1	12/31/2005
Surr: p-Terphenyl	87.1	51-128		%REC	1	12/31/2005

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: GC1_051228A	QC Batch: D05VS211				PrepDate: 12/20/2005	Analyst: TT
GRO	ND	1.0		mg/Kg	1	12/28/2005
Surr: Bromofluorobenzene (FID)	72.5	35-139		%REC	1	12/28/2005

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	H-Samples exceeding holding time

Results are wet unless otherwise specified





# Advanced Technology Laboratories

CLIENT: Ninyo & Moore  
Work Order: 080917  
Project: TAAF, 300983003

Date: 06-Jan-06

## ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_W

Sample ID: MB-26074	SampType: MBLK	TestCode: 6010_W	Units: mg/L	Prep Date: 12/30/2005	Run ID: ICP6_060103B						
Client ID: ZZZZZ	Batch ID: 26074	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 1/3/2006	SeqNo: 852934						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050									

Sample ID: LCS-26074	SampType: LCS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/30/2005	Run ID: ICP6_060103B						
Client ID: ZZZZZ	Batch ID: 26074	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 1/3/2006	SeqNo: 852935						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.98	0.0050	1	0	98	85	115	0	0	0	

Sample ID: 080984-094AMS	SampType: MS	TestCode: 6010_W	Units: mg/L	Prep Date: 12/30/2005	Run ID: ICP6_060103B						
Client ID: ZZZZZ	Batch ID: 26074	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 1/3/2006	SeqNo: 852939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.351	0.0050	2.5	0.005114	93.8	67	120	0	0	0	

Sample ID: 080984-094AMSD	SampType: MSD	TestCode: 6010_W	Units: mg/L	Prep Date: 12/30/2005	Run ID: ICP6_060103B						
Client ID: ZZZZZ	Batch ID: 26074	TestNo: EPA 6010B	(EPA 3010A)	Analysis Date: 1/3/2006	SeqNo: 852940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.115	0.0050	2.5	0.005114	84.4	67	120	2.351	10.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 R - RPD outside accepted recovery limits  
 DO- Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values



**CLIENT:** Nimyo & Moore  
**Work Order:** 080917  
**Project:** TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DSL H**

Sample ID: MB-26038	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852424						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	10									
Surr: p-Terphenyl	66.75	0	80	0	83.4	51	128	0	0	0	

Sample ID: MB-26064	SampType: MBLK	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/30/2005	Run ID: GC8_BACK_051231A						
Client ID: ZZZZZ	Batch ID: 26064	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/31/2005	SeqNo: 853170						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	10									
Surr: p-Terphenyl	77.64	0	80	0	97	51	128	0	0	0	

Sample ID: LCS-26038	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: ZZZZZ	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852425						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	919.1	10	1000	0	91.9	68	126	0	0	0	
Surr: p-Terphenyl	64.77	0	80	0	81	51	128	0	0	0	

Sample ID: LCS-26064	SampType: LCS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/30/2005	Run ID: GC8_BACK_051231A						
Client ID: ZZZZZ	Batch ID: 26064	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/31/2005	SeqNo: 853171						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1023	10	1000	0	102	68	126	0	0	0	
Surr: p-Terphenyl	73.34	0	80	0	91.7	51	128	0	0	0	

Sample ID: 080917-003DMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: B7-S-5-11	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	942.7	10	1000	0	94.3	49	139	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit      DO- Surrogate dilute out  
 J - Analyte detected below quantitation limits      S - Spike Recovery outside accepted recovery limits      H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits      B - Analyte detected in the associated Method Blank      Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080917  
**Project:** TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_S\_DSLH

Sample ID: 080917-003DMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: B7-S-5-11	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852426						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	66.17	0	80	0	82.7	51	128	0	0	0	

Sample ID: 080917-006DMS	SampType: MS	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/30/2005	Run ID: GC8_BACK_051231A						
Client ID: B1-S-10-2	Batch ID: 26064	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/31/2005	SeqNo: 853172						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1028	10	1000	0	103	49	139	0	0	0	
Surr: p-Terphenyl	72.82	0	80	0	91	51	128	0	0	0	

Sample ID: 080917-003DMSD	SampType: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/29/2005	Run ID: GC8_051229A						
Client ID: B7-S-5-11	Batch ID: 26038	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/29/2005	SeqNo: 852427						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	917.6	10	1000	0	91.8	49	139	942.7	2.70	30	
Surr: p-Terphenyl	63.48	0	80	0	79.4	51	128	0	0	0	

Sample ID: 080917-006DMSD	SampType: MSD	TestCode: 8015_S_DSL	Units: mg/Kg	Prep Date: 12/30/2005	Run ID: GC8_BACK_051231A						
Client ID: B1-S-10-2	Batch ID: 26064	TestNo: EPA 8015B(M (LUFT))		Analysis Date: 12/31/2005	SeqNo: 853173						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1035	10	1000	0	103	49	139	1028	0.587	30	
Surr: p-Terphenyl	72.46	0	80	0	90.6	51	128	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit DO- Surrogate dilute out  
 J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits H - Sample exceeded holding time  
 R - RPD outside accepted recovery limits B - Analyte detected in the associated Method Blank  
 Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080917  
**Project:** TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_S\_G\_5035P

Sample ID: D122705MB1	SampType: MBLK	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051227A						
Client ID: ZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850622						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	100.1	0	100	0	100	35	139	0	0	0	

Sample ID: D122805MB1	SampType: MBLK	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051228A						
Client ID: ZZZZ	Batch ID: D05VS211	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850686						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	1.0									
Surr: Bromofluorobenzene (FID)	100.8	0	100	0	101	35	139	0	0	0	

Sample ID: D122705LCS1	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051227A						
Client ID: ZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850638						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.262	1.0	5	0	105	79	117	0	0	0	
Surr: Bromofluorobenzene (FID)	111.8	0	100	0	112	35	139	0	0	0	

Sample ID: D122805LCS1	SampType: LCS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051228A						
Client ID: ZZZZ	Batch ID: D05VS211	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850702						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.338	1.0	5	0	107	79	117	0	0	0	
Surr: Bromofluorobenzene (FID)	116	0	100	0	116	35	139	0	0	0	

Sample ID: 080874-022AMS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date:	Run ID: GC1_051227A						
Client ID: ZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.036	1.0	5	0	101	35	134	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values





# ANALYTICAL QC SUMMARY REPORT

CLIENT: Ninyo & Moore  
Work Order: 080917  
Project: TAAF, 300983003

TestCode: 8015\_S\_G\_5035P

Sample ID: 080874-022AMS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date: 12/20/2005	Run ID: GC1_051227A						
Client ID: ZZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850643						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Bromofluorobenzene (FID)	113.5	0	100	0	114	35	139	0	0	0	0

Sample ID: 080917-006AMS	SampType: MS	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date: 12/20/2005	Run ID: GC1_051228A						
Client ID: B1-S-10-2	Batch ID: D05VS211	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850687						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	5.053	1.0	5	0	101	35	134	0	0	0	0
Surr: Bromofluorobenzene (FID)	117.9	0	100	0	118	35	139	0	0	0	0

Sample ID: 080874-022AMS	SampType: MSD	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date: 12/20/2005	Run ID: GC1_051227A						
Client ID: ZZZZZ	Batch ID: D05VS210	TestNo: EPA 8015B(M)		Analysis Date: 12/27/2005	SeqNo: 850644						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.998	1.0	5	0	100	35	134	5.036	0.757	30	30
Surr: Bromofluorobenzene (FID)	112.1	0	100	0	112	35	139	0	0	0	30

Sample ID: 080917-006AMS	SampType: MSD	TestCode: 8015_S_G_50	Units: mg/Kg	Prep Date: 12/20/2005	Run ID: GC1_051228A						
Client ID: B1-S-10-2	Batch ID: D05VS211	TestNo: EPA 8015B(M)		Analysis Date: 12/28/2005	SeqNo: 850688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	4.669	1.0	5	0	93.4	35	134	5.053	7.90	30	30
Surr: Bromofluorobenzene (FID)	112.4	0	100	0	112	35	139	0	0	0	30

Qualifiers: ND - Not Detected at the Reporting Limit  
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 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values



CLIENT: Ninyo & Moore

Work Order: 080917

Project: TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

TestCode: 8015\_W\_DSL H

Sample ID: MB-26004	SampType: MBLK	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_060103A						
Client ID: ZZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853819						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.20									
Surr: p-Terphenyl	0.04819	0	0.08	0	60.2	33	123	0	0	0	

Sample ID: MB-26004	SampType: MBLK	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_BACK_060103B						
Client ID: ZZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.20									
Surr: p-Terphenyl	0.05572	0	0.08	0	69.6	33	123	0	0	0	

Sample ID: MB-25985	SampType: MBLK	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.20									
Surr: p-Terphenyl	0.03935	0	0.08	0	49.2	33	123	0	0	0	

Sample ID: LCS-26004	SampType: LCS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_060103A						
Client ID: ZZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853820						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.007	0.20	1	0	101	62	127	0	0	0	
Surr: p-Terphenyl	0.05047	0	0.08	0	63.1	33	123	0	0	0	

Sample ID: LCS-26004	SampType: LCS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_BACK_060103B						
Client ID: ZZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.001	0.20	1	0	100	62	127	0	0	0	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	DO - Surrogate dilute out
	J - Analyte detected below quantitation limits	B - Analyte detected in the associated Method Blank	H - Sample exceeded holding time
	R - RPD outside accepted recovery limits	Calculations are based on raw values	



**CLIENT:** Ninyo & Moore  
**Work Order:** 080917  
**Project:** TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_W\_DSL\_H

Sample ID: LCS-26004	Sample Type: LCS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_BACK_060103B						
Client ID: ZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853826						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: p-Terphenyl	0.05933	0	0.08	0	74.2	33	123	0	0	0	

Sample ID: LCS-25985	Sample Type: LCS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8187	0.20	1	0	81.9	62	127	0	0		
Surr: p-Terphenyl	0.04485	0	0.08	0	56.1	33	123	0	0		

Sample ID: MB-26004MS	Sample Type: MS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_BACK_060103B						
Client ID: ZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853827						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	1.062	0.20	1	0	106	50	120	0	0		
Surr: p-Terphenyl	0.07312	0	0.08	0	91.4	33	123	0	0		

Sample ID: MB-25985MS	Sample Type: MS	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853831						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8167	0.20	1	0	81.7	50	120	0	0		
Surr: p-Terphenyl	0.03819	0	0.08	0	47.7	33	123	0	0		

Sample ID: MB-26004MSD	Sample Type: MSD	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/28/2005	Run ID: GC7_BACK_060103B						
Client ID: ZZZZ	Batch ID: 26004	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 1/3/2006	SeqNo: 853828						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.9742	0.20	1	0	97.4	50	120	0	0		
Surr: p-Terphenyl	0.06179	0	0.08	0	77.2	33	123	0	0		

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values



**CLIENT:** Ninyo & Moore  
**Work Order:** 080917  
**Project:** TAAF, 300983003

# ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015\_W\_DSL\_H

Sample ID: MB-25985MSD	SampleType: MSD	TestCode: 8015_W_DSL	Units: mg/L	Prep Date: 12/27/2005	Run ID: GC7_BACK_051228B						
Client ID: ZZZZ	Batch ID: 25985	TestNo: EPA 8015B(M (EPA 3510C)		Analysis Date: 12/28/2005	SeqNo: 853832						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8635	0.20	1	0	86.3	50	120	0.8167	5.57	30	
Surr: p-Terphenyl	0.03464	0	0.08	0	43.3	33	123	0	0	0	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 R - RPD outside accepted recovery limits  
 S - Spike Recovery outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 DO - Surrogate dilute out  
 H - Sample exceeded holding time  
 Calculations are based on raw values



JAN 20 2006

January 16, 2006



Andrew Stuart  
Ninyo & Moore  
6700 Paradise Road, Suite E  
Las Vegas, NV 89119  
TEL: (702) 433-0330  
FAX: 702-227-2051

ELAP No.: 1838  
NELAP No.: 02107CA  
NEVADA.: CA-401  
CSDLAC No.: 10196

Workorder No.: 080917

RE: TAAF, 300983003

Attention: Andrew Stuart

Enclosed are the results for sample(s) received on December 23, 2005 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

The attached report is the final hard copy pertaining to the subcontracted tests for the above project.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez  
Laboratory Director

This cover letter is an integral part of this analytical report.





## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Advanced Technology Laboratories  
3275 Walnut Street  
Signal Hill, CA 90809-

Telephone: (562) 989-4045  
Attention: Rachelle Arada

Number of Pages 2  
Date Received 01/05/2006  
Date Reported 01/05/2006

Job Number	Order Date	Client
35797	01/05/2006	ATL

Project ID: 080917

Enclosed please find results of analyses of 1 water sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Advanced Technology Laboratories  
 3275 Walnut Street  
 Signal Hill, CA 90809-

Telephone: (562)989-4045

Attn: Rachele Arada

Page: 2

Project ID: 080917

AETL Job Number	Submitted	Client
35797	01/05/2006	ATL

Method: HMU-900, Organic Lead

QC Batch No: 010506

Our Lab I.D.		Method Blank	35797.01		
Client Sample I.D.			080917-013D		
Date Sampled			12/20/2005		
Date Prepared		01/05/2006	01/05/2006		
Preparation Method		HMU-900	HMU-900		
Date Analyzed		01/05/2006	01/05/2006		
Matrix		Aqueous	Aqueous		
Units		mg/L	mg/L		
Dilution Factor		1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	
Lead, Organic	0.05	0.10	ND	ND	

## QUALITY CONTROL REPORT

QC Batch No: 010506 Sample Spiked: 35797.01 QC Prepared: 01/05/2006 QC Analyzed: 01/05/2006 Units: mg/L

Analytes	Sample Result	MS Concn	MS Recov	MS % REC	MS DUP Concn	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead, Organic	0.0	1.00	0.91	91	1.00	0.91	91	<1	80-120	<15

QC Batch No: 010506 Sample Spiked: 35797.01 QC Prepared: 01/05/2006 QC Analyzed: 01/05/2006 Units: mg/L

Analytes	LCS Concn	LCS Recov	LCS % REC	LCS/LCSD % Limit
Lead, Organic	1.00	0.94	94	80-120





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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.
- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference
-

# Advanced Technology Laboratories

3275 Walnut Avenue  
Signal Hill, CA 90755-5225  
(562) 989-4045

# CHAIN-OF-CUSTODY RECORD

AETL Job # 35797

**Subcontractor:**

AETL  
2834 North Naomi Street  
Burbank, CA 91504

QClevel: RTNE

TEL: (818) 845-8200  
FAX: (818) 845-8840

Acct #:

04-Jan-06

080917-013D \ Water-2 (35797.01)	Matrix Water	Collection Date 12/20/2005 4:00:00 PM	Bottle Type 16OZP	ORG_PB 1	Requested Tests
----------------------------------	-----------------	--	----------------------	-------------	-----------------

**Comments:** Please use PO#: SC00293 Please fax results by: 1/5/06.  
Please send report to Rachelle Arada.

Relinquished by:	Date/Time	Received by:	Date/Time
<i>RA</i>	1/4/06 4:40	<i>Lo Downing</i>	1/4/06
		<i>RA</i>	01/05/06 0800

# CHAIN OF CUSTODY RECORD

Pg \_\_\_\_\_ of \_\_\_\_\_

## FOR LABORATORY USE ONLY:

Sample Condition Upon Receipt  
 1. CHILLED  Y  N  4. SEALED  Y  N   
 2. HEADSPACE (VOA)  Y  N  5. # OF SPLS MATCH COC  Y  N   
 3. CONTAINER INTACT  Y  N  6. PRESERVED  Y  N

Method of Transport  
 Client  ATL  CA OverN  FEDEX  Other: \_\_\_\_\_

P.O.#: \_\_\_\_\_  
 Logged By: MLG Date: 11/23/05

**Advanced Technology Laboratories**  
 3275 Walnut Avenue  
 Signal Hill, CA 90755  
 (562) 989-4045 • Fax (562) 989-4040

Client: Neyo Storage Address: 6700 Pasadena State: CA City: LA Zip: 90045  
 Attn: Andrew Swartz Project #: 30084883003 Sampler: Andrew Swartz  
 Project Name: LAIF  
 Relinquished by: [Signature] Date: 12-22-05 Time: 11:10  
 Relinquished by: [Signature] Date: 12-22-05 Time: 13:45  
 Relinquished by: [Signature] Date: 12/23/05 Time: 08:05

Bill To: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Co: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Send Report To: \_\_\_\_\_  
 Attn: Andrew Swartz  
 Co: Neyo Storage  
 Address: 6700 Pasadena  
 City: LA State: CA Zip: 90045

I hereby authorize ATL to perform the work indicated below:  
 Project Mgr / Submitter: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
**Storage Fees (applies when storage is requested):**  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #:	Sample Description	Sample I.D. / Location		Date	Time
		Sample I.D.	Location		
08917-1		B9-5-5-13		12-20-05	15:10
2		B8-5-5-12		12-20-05	15:15
3		B7-5-5-11		12-20-05	15:30
4		B6-5-5-10		12-20-05	15:40
5		B1-5-5-1		12-21-05	18:50
6		B4-5-10-2		12-21-05	18:55
7		B2-5-5-3		12-21-05	19:30
8		B2-5-15-4		12-21-05	19:46
9		B3-5-15-57		12-21-05	10:35
10		B3-5-15-5		12-21-05	10:40

Special Instructions/Comments: \_\_\_\_\_  
 TAT: A= \_\_\_\_\_ B= \_\_\_\_\_ C= \_\_\_\_\_ D= \_\_\_\_\_ E= \_\_\_\_\_  
 Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal  
 Preservatives: H=Hcl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>SO<sub>3</sub>

SPECIFY APPROPRIATE MATRIX		CONTAINER(S)		QA/QC
WATER	GROUND WATER	WASTEWATER	OTHER	
SOIL				RTNE <input type="checkbox"/> CT <input type="checkbox"/>
				SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/>
				OTHER _____
				REMARKS
				Empty Drum
				LabQC
				LabQC

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

# CHAIN OF CUSTODY RECORD

Pg.      of     

**Advanced Technology Laboratories**  
 3275 Walnut Avenue  
 Signal Hill, CA 90755  
 (562) 989-4045 • Fax (562) 989-4040

**FOR LABORATORY USE ONLY:**

Method of Transport  
 Client  ATL  CA OverN  FEDEX  Other:     

Sample Condition Upon Receipt  
 1. CHILLED 3.0 Y  N  4. SEALED Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

1. CHILLED 3.0 Y  N  4. SEALED Y  N   
 2. HEADSPACE (VOA) Y  N  5. # OF SPLS MATCH COC Y  N   
 3. CONTAINER INTACT Y  N  6. PRESERVED Y  N

Client: Myno + more Address: 6700 Paradise State: NY Zip Code: 14330390  
 Attn: Andrew Schwartz City: L. 45 2858 State: NY Zip: 14330707  
 Project Name: TAAF Project #: 300903003 Sampler: Andrew Schwartz (Printed Name)  
 Relinquished by: TAAF Date: 12-22-05 Time: 11:00 Received by: Andrew Schwartz (Printed Name) Date: 12-22-05 Time: 12:00  
 Relinquished by: Andrew Schwartz Date: 12-22-05 Time: 11:00 Received by: Andrew Schwartz (Printed Name) Date: 12-22-05 Time: 12:00  
 Relinquished by: Andrew Schwartz Date: 12-22-05 Time: 11:00 Received by: Andrew Schwartz (Printed Name) Date: 12-22-05 Time: 12:00

Special Instructions/Comments:     

Bill To:      Attn:      Co:      Address:      City:      State:      Zip:     

Send Report To: Andrew Schwartz Attn: Andrew Schwartz Co: Myno + more Address: 6700 Paradise City: L. 45 2858 State: NY Zip: 14330707

I hereby authorize ATL to perform the work indicated below.  
 Project Mgr /Submitter:      Print Name:      Date:      Signature:

**Sample/Records - Archival & Disposal**  
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.  
 Storage Fees (applies when storage is requested):  
 • Sample : \$2.00 / sample / mo (after 45 days)  
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

LAB USE ONLY: Batch #: Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX										TAT	Type	CONTAINER(S)	REMARKS
					SOIL	GROUND WATER	WASTEWATER	PRECIPITATION	QA/QC	RTNE	CT	SWRCB Logcode	OTHER					
060917 - 11	B4-5-5-6	B4-5-5-6	12/21	1110														12/27 Run
12	B4-5-5-7	B4-5-5-7	12/21	1115														↓
13	Water-2	Water-2	12/20	1100														
14	Water-3	Water-3	12/21	1200														
15	B5-5-15-9	B5-5-15-9	12/21	1200														Pass Perm
16	B5-5-15-8	B5-5-15-8	12/21	1255														↓

Preservatives:  
 H=Hcl N=HNO<sub>3</sub> S=H<sub>2</sub>SO<sub>4</sub> C=4°C  
 Z=Zn(AC)<sub>2</sub> O=NaOH T=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

Container Types: T=Tube V=VOA L=Liter P=Plastic M=Metal  
 TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays  
 • TAT starts 8 a.m. following day if samples received after 3 p.m.

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

**Carmen Aguila**

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**From:** Gregory Beck [gbeck@ninyoandmoore.com]  
**Sent:** Tuesday, December 27, 2005 4:10 PM  
**To:** Carmen Aguila  
**Subject:** Confirmation

Carmen,

Per our phone conversation of today, please add the following soil samples to the chain-of-custody for the Tonopah Army Airfield project and analyze in a like manner as the other samples for the project:

B5-S-5-8

B8-S-5-59

Call me if you have any further questions. Thanks.

Gregory Beck

**Ninyo & Moore**

6700 Paradise Road, Suite E

Las Vegas, Nevada 89119

Phone: (702) 433-0330

Fax: (702) 433-0707

**Carmen Aguila**

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**From:** Andrew Stuart [astuart@ninyoandmoore.com]  
**Sent:** Friday, December 23, 2005 10:00 AM  
**To:** Carmen Aguila  
**Subject:** Lab QC

For QC samples for the TAAF Brownfield's project it is acceptable to use soil from the glass jar for your QC purposes.

Andrew D. Stuart, C.E.M.  
Project Environmental Scientist  
Ninyo & Moore Geotechnical & Environmental Sciences Consultants  
6700 Paradise Road, Suite E  
Las Vegas, Nevada 89119  
Phone: 702.433.0330  
FAX: 702.433.0707  
Mobile: 702.524.1454

**APPENDIX E**  
**Data Validation Report**



**TO:** Gregory Beck, Ninyo & Moore, Inc.  
**FROM:** Donna Breaux, DataVal, Inc.  
**DATE:** January 20, 2006  
**RE:** Ninyo & Moore Project No. 300983003

**DATA REVIEW SUMMARY REPORT FOR THE FORMER TONOPAH ARMY  
AIRFIELD SAMPLING EVENT, TONOPAH, NV**

**ADVANCED TECHNOLOGY LABORATORIES REPORT NOS. 080874 AND 080917**

**SAMPLING DATES: DECEMBER 19, 20 AND 21, 2005**

Data review of the attached Level II data packages was performed according to the following guidelines:

- *USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, December 1996*
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004*
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999*
- *State of California Leaking Underground Fuel Tank (LUFT) Field Manual: Guidelines for Site Assessment, Cleanup and Underground Storage Tank Closure, May 1988*

The data were reviewed for holding times, method blanks, laboratory control samples (LCS), matrix spikes/matrix spike duplicates (MS/MSD), surrogate recoveries, and field QC samples (equipment blanks and field duplicates).

The attached Table 1 summarizes the site samples, laboratory sample IDs, sampling dates, analysis methods and sample types.

**GENERAL COMMENTS:**

Sample chain-of-custody (COC) forms were reviewed for accuracy and completeness. The COCs were found to be generally legible, complete and accurate.

**The following paragraphs highlight the essential findings of the data review effort:**

**I. Total Petroleum Hydrocarbons as Gasoline (8015B)**

Overall, the data are usable as reported. Qualification was not required.

A. Holding Times

Technical holding time criteria were met for all project samples.

B. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in the equipment blanks associated with the project samples.

C. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

D. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

E. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples.

**II. Total Petroleum Hydrocarbons as Diesel (8015B)**

Overall, the data are usable as reported. Qualification was not required.

A. Holding Times

Technical holding time criteria were met for all project samples.

B. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in the equipment blanks associated with the project samples.

C. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples.

D. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

E. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples.

**III. Total Lead (6010B)**

Overall, the data are usable as reported. Qualification was not required.

- A. Holding Times  
Technical holding time criteria were met for all project samples.
- B. Blanks  
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in the equipment blanks associated with the project samples.
- C. Laboratory Control Samples  
All QC criteria were met for the laboratory control samples associated with the project samples.
- D. Matrix Spike/Matrix Spike Duplicate  
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

**IV. Organic Lead (CA DHS LUFT)**

Overall, the data are usable as reported. Qualification was not required.

- A. Holding Times  
Technical holding time criteria were met for all project samples.
- B. Blanks  
Target analytes were not observed in any laboratory method blanks associated with the project samples. Target analytes were not observed in the equipment blanks associated with the project samples.
- C. Laboratory Control Samples  
All QC criteria were met for the laboratory control samples associated with the project samples.
- D. Matrix Spike/Matrix Spike Duplicate  
All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples.

**FIELD QC**

The following paragraphs highlight the essential findings of the field duplicate samples:

Field duplicate precision was evaluated by calculating the relative percent difference (RPD) between detected results in the original sample and its associated duplicate. The control limit used for field duplicates was a relative percent difference less than or equal to 50 percent, or the absolute difference of the two results must be less than twice the reporting limit for those analytes that were at or near the detection limit. Five samples were collected in duplicate for this sampling event.

<b>Project Sample Primary ID</b>	<b>Laboratory Sample ID</b>	<b>Project Sample Duplicate ID</b>	<b>Laboratory Sample ID</b>
B16-S-10-60	080874-005	B16-S-10-20	080874-006
B29-S-9-37	080874-012	B29-S-9-61	080874-013
B8-S-5-12	080917-002	B3-S-15-57	080917-009
B3-S-15-5	080917-010	B5-S-15-58	080917-016
B5-S-8-8	080917-017	B8-S-5-59	080917-018

The attached Table 2 summarizes the field duplicate sample results. The detected results of the original sample and the associated duplicate sample were compared and the calculated RPDs reported. All RPDs met the 50 percent precision control limit requirement, with the following exception:

1. In field duplicates B16-S-10-60 and B16-S-10-20, the RPD between the detected results for total lead failed the 50% acceptance criteria at 65%.

The analysis of field duplicate samples is a measure of both field and analytical precision. The imprecision in the results in the field duplicate pair listed above may be due to the sample matrix, sample non-homogeneity, sampling or laboratory technique, or method defects. Since the effect on the quality of the data is not known, data is not qualified for field duplicate failure.

**SUMMARY**

The attached Table 1 summarizes the site samples, laboratory sample IDs, sampling dates, analysis methods and sample types. The attached Table 2 summarizes the data qualifications required for the project samples included in the data packages.

**USABILITY**

All quality control criteria were met and the data are considered acceptable. Based upon the data review, all other results are considered valid and usable for all purposes. The absence of qualified data indicates high usability.

**Table 1**  
**Sample Summary**  
**The Former Tonopah Army Airfield, Tonopah, NV**

<b>Project Sample ID</b>	<b>Laboratory Sample ID</b>	<b>Sampling Date</b>	<b>Analyses/Methods</b>	<b>Sample Type</b>
B11-S-6-15	080874-001	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B12-S-6-16	080874-002	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B14-S-6-18	080874-003	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B15-S-15-19	080874-004	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B16-S-10-60	080874-005	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil (1)
B16-S-10-20	080874-006	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	FD (1)
B17-S-10-21	080874-007	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B17-S-15-22	080874-008	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B18-S-10-23	080874-009	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B18-S-15-24	080874-010	19-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B31-S-3-39	080874-011	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B29-S-9-37	080874-012	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil (2)
B29-S-9-61	080874-013	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	FD (2)
B30-S-6-38	080874-014	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil

**Table 1**  
**Sample Summary**  
**The Former Tonopah Army Airfield, Tonopah, NV**

Project Sample ID	Laboratory Sample ID	Sampling Date	Analyses/Methods	Sample Type
B32-S-6-40	080874-015	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B36-S-5-47	080874-016	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B36-S-10-48	080874-017	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B34-S-10-44	080874-018	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B34-S-5-43	080874-019	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B33-S-10-41	080874-020	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B13-S-9-17	080874-021	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B33-S-15-42	080874-022	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B35-S-10-45	080874-023	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
B10-S-5-14	080874-024	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	Soil
Water 1	080874-025	19-Dec-05	TPH-Gasoline (8015B), Organic Lead (CA DHS LUFT)	EB
B9-S-5-13	080917-001	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B8-S-5-12	080917-002	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil (3)
B7-S-5-11	080917-003	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B6-S-5-10	080917-004	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B1-S-5-1	080917-005	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B1-S-10-2	080917-006	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil

**Table 1**  
**Sample Summary**  
**The Former Tonopah Army Airfield, Tonopah, NV**

Project Sample ID	Laboratory Sample ID	Sampling Date	Analyses/Methods	Sample Type
B2-S-5-3	080917-007	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B2-S-15-4	080917-008	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B3-S-15-57	080917-009	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	FD (3)
B3-S-15-5	080917-010	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil (4)
B4-S-5-6	080917-011	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B4-S-15-7	080917-012	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
Water 2	080917-013	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015), Total Lead (6010B), Organic Lead (CA DHS LUFT)	EB
Water 3	080917-014	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	EB
B5-S-15-9	080917-015	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil
B5-S-15-58	080917-016	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	FD (4)
B5-S-8-8	080917-017	21-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	Soil (5)
B8-S-5-59	080917-018	20-Dec-05	TPH-Gasoline (8015B), TPH-Diesel (8015)	FD (5)

TPH = Total Petroleum Hydrocarbons

FD = Field duplicate of sample with designated number (1), (2), etc.

EB = Equipment Blank

**Table 2**  
**Summary of Field Duplicates**  
**The Former Tonopah Army Airfield, Tonopah, NV**

Original Sample ID	Laboratory Sample ID	Matrix	Compound	Original Results (mg/kg)	Duplicate Sample ID	Laboratory Sample ID	Duplicate Results (mg/kg)	RPD
B16-S-10-60	080874-005	Soil	TPH - Gasoline	ND	B16-S-10-20	080874-006	ND	NA
B16-S-10-60	080874-005	Soil	TPH - Diesel	ND	B16-S-10-20	080874-006	ND	NA
B16-S-10-60	080874-005	Soil	Total Lead	7.3	B16-S-10-20	080874-006	3.7	65%
B16-S-10-60	080874-005	Soil	Organic Lead	ND	B16-S-10-20	080874-006	ND	NA
B29-S-9-37	080874-012	Soil	TPH - Gasoline	ND	B29-S-9-61	080874-013	ND	NA
B29-S-9-37	080874-012	Soil	TPH - Diesel	ND	B29-S-9-61	080874-013	ND	NA
B29-S-9-37	080874-012	Soil	Total Lead	2.9	B29-S-9-61	080874-013	3.4	-16%
B29-S-9-37	080874-012	Soil	Organic Lead	ND	B29-S-9-61	080874-013	ND	NA
B8-S-5-12	080917-002	Soil	TPH - Gasoline	ND	B3-S-15-57	080917-009	ND	NA
B8-S-5-12	080917-002	Soil	TPH - Diesel	ND	B3-S-15-57	080917-009	ND	NA
B3-S-15-5	080917-010	Soil	TPH - Gasoline	ND	B5-S-15-58	080917-016	ND	NA
B3-S-15-5	080917-010	Soil	TPH - Diesel	ND	B5-S-15-58	080917-016	ND	NA
B5-S-8-8	080917-017	Soil	TPH - Gasoline	ND	B8-S-5-59	080917-018	ND	NA
B5-S-8-8	080917-017	Soil	TPH - Diesel	ND	B8-S-5-59	080917-018	ND	NA

**RPD** = Relative Percent Difference