

**PHASE II ENVIRONMENTAL SITE  
ASSESSMENT REPORT  
3761 NORTH STEPHANIE STREET  
PARCEL NO. 028-251-18  
PAHRUMP, NEVADA**

**PREPARED FOR:**  
Nye County  
1510 East Basin Avenue, Suite 2  
Pahrump, Nevada 89060

**PREPARED BY:**  
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Las Vegas, Nevada 89119

January 22, 2009  
Project No. 302556002

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Ms. Pamela Webster  
Assistant Nye County Manager  
Nye County  
1510 East Basin Avenue, Suite 2  
Pahrump, Nevada 89060

Subject: Phase II Environmental Site Assessment Report  
3761 North Stephanie Street  
Parcel No. 028-251-18  
Pahrump, Nevada

Dear Ms. Webster:

We are pleased to present the results of our Phase II Environmental Site Assessment (ESA) for the property located at 3761 North Stephanie Street in Pahrump, Nye County, Nevada. The study was performed under Brownfields hazardous substances assessment grant Cooperative Agreement number BF-96953701, between the United States Environmental Protection Agency and Nye County, dated September 22, 2005, and in general accordance with the approved Sampling and Analysis Plan (SAP) dated October 17, 2008.

Ninyo & Moore performed a Phase I ESA for the subject site and reported the results in a report dated May 27, 2008. The Phase I ESA noted the historical presence of a methamphetamine manufacturing facility on the subject site. Ninyo & Moore concluded that the historical presence of this facility constituted a recognized environmental condition (REC) for the subject site. Based on the historical usage of the subject site for the manufacture of methamphetamine, Ninyo & Moore concluded that the presence on the subject site of a septic system and an open well casing, which may constitute a direct pathway to groundwater, constituted RECs for the subject site.

Based on the presence of these RECs, hazardous substance contamination of site soil and/or groundwater was judged to be a potential concern and a Phase II ESA was recommended. The

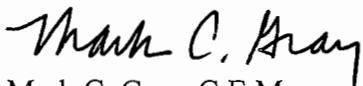
objective of this assessment was to further evaluate RECs noted in the Phase I ESA. Assessment activities included the collection of water samples from the site water well and surface wipe samples of the interior of the site trailer for the presence of chemicals characteristic of methamphetamine production.

Ninyo & Moore was retained by Nye County under a community-wide Brownfields hazardous substances assessment grant to perform a Phase II ESA. The Phase II ESA activities were performed in accordance with the approved SAP, dated October 17, 2008.

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.

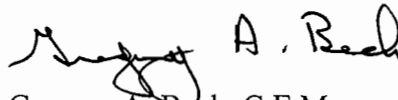
*I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all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

Sincerely,  
**NINYO & MOORE**



Mark C. Gray, C.E.M.  
Senior Environmental Geologist  
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## EXECUTIVE SUMMARY

Ninyo & Moore was retained by Nye County under a community-wide Brownfields hazardous substances assessment grant to perform a Phase II Environmental Site Assessment (ESA) for the property located at 3761 North Stephanie Street in Pahrump, Nye County, Nevada. The subject property consists of one parcel, comprising approximately 5.0 acres of land and designated by the Nye County Tax Assessor as parcel 028-251-18. The funding for this Phase II ESA has been approved by Nye County and by the United States Environmental Protection Agency, Region 9 (EPA) program for Brownfields Projects.

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

- Surface wipe samples were collected from the interior of the on-site residential trailer and submitted to Datachem in Salt Lake City, Utah for analysis of methamphetamine, lead, and iodine.
- An attempt was made to collect a liquid or sediment sample from the septic system located to the south of the trailer. However, the cleanout vent pipe was obstructed approximately 3 feet below the surface and no liquid or sediment sample was collected. Vapor concentrations from the site septic system cleanout vent pipe were screened with a photoionization detector (PID) and found to be below the detection limit of the PID.
- A groundwater sample was collected from the site water well and submitted to ESC in Mt. Juliet, Tennessee for analysis of volatile organic compounds (VOC), ignitability/flash point, corrosivity, and reactivity.

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

- Reported methamphetamine, iodine, and lead concentrations from the surface wipe samples collected from the interior of site residential trailer were below applicable laboratory detection limits in each of the samples collected, with the exception of one sample (KTN1-SWP-10M) collected in the kitchen area.
- Sample KTN1-SWP-10M was collected between the top of the stove and the kitchen exhaust vent hood. The concentration of methamphetamine detected in sample KTN1-SWP-10M was 0.45 micrograms ( $\mu\text{g}$ ) per sample or 0.0045  $\mu\text{g}$  per 100 square centimeters ( $\mu\text{g}/100\text{ cm}^2$ ). This concentration does not exceed the Colorado Department of Public Health and Environment clean up concentration of 0.5  $\mu\text{g}/100\text{ cm}^2$  established as the clean up standard for methamphetamine for this assessment.

- The depth to groundwater in the site well was measured on November 6, 2008 at a depth of 59.50 feet at top of casing or approximately 58.30 feet below ground surface.
- Reported VOC concentrations in the groundwater sample collected from the site well did not exceed applicable laboratory detection limits.
- Reported reactive cyanide and reactive sulfide concentrations in the groundwater sample collected from the site well did not exceed applicable laboratory detection limits.
- Reported corrosivity (pH) in groundwater was 7.4, which is within the acceptable secondary drinking water standard range of greater than 6.5 and less than 8.5 in the groundwater sample collected from the site water well.
- Reported ignitability in groundwater exceeded 170 degrees Fahrenheit in the groundwater sample collected from the site water well.

Based on the reported conclusions of the Phase II ESA, Ninyo & Moore makes no recommendations for further assessment of the subject site at this time.

## **1. INTRODUCTION**

Ninyo & Moore was authorized by Nye County, under a community-wide Brownfields hazardous substances assessment grant, to perform a Phase II Environmental Site Assessment (ESA) at the subject property, which consists of one parcel located at 3761 North Stephanie Street in Pahrump, Nye County, Nevada. The ESA activities were performed in accordance with the approved revised Sampling and Analysis Plan (SAP) for the Phase II ESA, dated October 17, 2008.

## **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, and discussions with persons familiar with the site.

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

The subject property consists of one parcel, comprising approximately 5.0 acres of land and designated by the Nye County Tax Assessor as parcel 028-251-18. Property use is residential. The subject site is located in Section 25, Township 19 South, Range 52 East, Last Chance Quadrangle, Nye County, Nevada and is zoned "RH-4.5," with current land use listed as Single Family, Personal Property Manufactured Home on Unsecured Roll. The subject site location is presented on Figure 1.

### **2.2. Site History**

Based on a review of historical sources, subject parcel 028-251-18 was undeveloped land until developed as single-family residential property at some point after 1994. According to readily available information in the Phase I ESA report for the property, prepared by Ninyo & Moore and dated May 27, 2008, the site was used as a methamphetamine manufacturing facility circa 1999.



### **2.3. Previous Work**

In the Phase I ESA report, Ninyo & Moore noted the historical presence of a methamphetamine manufacturing facility on the subject site. Ninyo & Moore concluded that the historical presence of this facility constituted a recognized environmental condition (REC) for the subject site. Based on the historical usage of the subject site for the manufacture of methamphetamine, Ninyo & Moore concluded that the presence of an open well casing, which may constitute a direct pathway to groundwater, and a septic system on the subject site constituted RECs for the subject site. Ninyo & Moore recommended that a limited subsurface contamination assessment be performed on the subject site to evaluate whether chemicals utilized in the manufacture of methamphetamines have contaminated groundwater beneath the subject site.

### **2.4. Geology**

The site is located in the Pahrump Valley, which is a structural basin of late Mesozoic and Tertiary age block faulting origin (beginning approximately 100 million years ago). Deposits in the Pahrump Valley are mainly Tertiary age (from 67 to 2 million years old) and Quaternary Age (from 2 million years old to present) unconsolidated sediments derived from the surrounding uplifted mountain ranges, which are composed of sedimentary and igneous rocks. The mountains to the north, east, and west are mostly sedimentary rocks, predominantly carbonates (limestone and dolomite) of Paleozoic and Mesozoic age (between 586 and 67 million years old). The southern and southeastern ranges are generally composed of volcanic rocks, primarily Tertiary and andesite lava flows.

### **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**

The groundwater aquifer system within Pahrump Valley is complex, consisting of coarse-grained alluvial sand and gravel, inter-bedded with fine-grained valley fill deposits. In general, two principal separate aquifers exist in Pahrump Valley: a series of deep, confined (artesian) water-bearing zones, and a shallow, relatively unconfined aquifer (non-artesian water table). The majority of the groundwater withdrawn in the valley is from the deeper aquifer zones and is generally located at depths estimated up to 200 feet for valley locations. Ninyo & Moore's representatives did not observe any seeps or springs at the subject site during reconnaissance.

Review of the Nevada Division of Water Resources well log database indicated that the static water level may occur approximately 50 to 180 feet below grade in the vicinity of the subject property and measurement of the water level in the site water well indicated that the depth to groundwater was approximately 58 feet below ground surface. Based on topography, groundwater flow direction in the vicinity of the subject property is assumed to be toward the southeast.

## **3. SCOPE OF WORK**

The following sections describe the methods that were used to meet the objectives of the 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 approved SAP except where noted.

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

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

### **3.2. Surface Wipe Sampling**

On November 6, 2008, Ninyo & Moore conducted surface wipe sampling in the interior of the residential trailer located on the site. Four surface wipe samples were collected from surfaces in the kitchen and bathroom of the site trailer. Two samples were collected in the bathroom and two samples were collected in the kitchen.

Each sample area was approximately 100 square centimeters (cm<sup>2</sup>). Sampling media for methamphetamine and iodine analysis consisted of dry gauze fabric wipes provided by the laboratory and wetted with isopropyl alcohol prior to sampling. Sampling media for lead analysis consisted of cellulose gauze wipes, designated as “ghost wipes” that are specifically designed for lead sampling and pre-moistened with a neutral wiping agent.

After delineating the area to be sampled with masking tape, the sample media was pressed firmly onto the area to be sampled. Wiping was done starting at the outside edge of the sample area and progressed toward the center of the sample area by wiping in concentric squares of decreasing size. Without allowing the sample media to come into contact with any other surface, the sample media was then folded with the sampled side in. The same method was then be used to repeat the sampling of the same area. The sample media was then folded over again so that the sampled side was folded in. The sample media was then placed into a sample container, capped, and numbered. Each sample was placed into labeled, laboratory provided sample containers, sealed, and placed into a secure, chilled ice chest. Since laboratory analysis for methamphetamine, lead, and iodine requires separate wipes, three discreet wipes were collected at each sample location. Sample location identifiers were appended with “M”, “L”, or “I” for methamphetamine, lead, or iodine analysis, respectively.

Sample containers were shipped to Datachem Laboratories located in Salt Lake City, Utah. A summary of the field sampling information presented in Table 1 provides the location identification, corresponding sample designation, and sample matrix for each of the surface wipe samples collected during this assessment.

### **3.3. Septic System Sampling**

The cleanout vent pipe associated with the septic system located to the south of the trailer was field screened for volatile organic vapors using a photoionization detector (PID) on November 6, 2008. Vapor concentrations from the cleanout vent pipe were found to be below the detection limit of the PID.

An attempt was made to collect a liquid or sediment sample from the septic system. However, the cleanout vent pipe was obstructed approximately 3 feet below the surface and no liquid or sediment sample was collected. The area surrounding the septic system vent pipe was explored with a shovel in order to locate any manhole covers associated with the septic system. No manhole covers or other access points were found.

### **3.4. Groundwater Sampling**

According to information obtained from the State of Nevada Division of Water Resources Well Driller's Report for the site water well, the well was constructed to a depth of approximately 140 feet with 8-inch diameter pipe. The well casing is factory perforated from a depth of 140 feet to 100 feet below the ground surface (bgs) and the well is gravel packed from the bottom to approximately 50 feet bgs. A concrete seal extends from the surface to a depth of 50 feet bgs. The top of the casing is currently open and does not have a cover or locking cap. The site water well location is indicated on Figure 2.

Prior to obtaining groundwater samples for analysis, the static water level was measured in the site water well. Due to the depth of the well and the anticipated volume of water in the well, casing volumes of water were not purged from the well. Instead, approximately 3 gallons of water was purged using a disposable bailer and collected in a measured bucket to record the purge volume. In order to obtain a representative sample from the well, purging continued until stable water quality parameter (temperature, pH, and specific conductance) measurements indicated representative sampling were obtained. Water quality was considered stable if for three consecutive readings:

- Temperature range was no more than +/- 1°C,
- pH varied by no more than 0.2 pH units, and

- Specific conductance readings were within 10% of the average.

Purging criteria was met for the well. A copy of the groundwater sampling field data sheet is included in Appendix B.

A new, disposable polyethylene bailer was used to collect a groundwater sample from the well for analysis for volatile organic compounds (VOC), reactivity, corrosivity, and ignitability. In accordance with the approved SAP, sample containers were labeled with the well number, matrix type, and sample number (e.g. WW1-GW-1). The sample was placed into labeled, laboratory-provided sample containers, and placed into a secure, chilled ice chest. The sample was recorded on an EPA-approved chain-of-custody form for transport to the Environmental Science Corporation (ESC) laboratory in Mt. Juliet, Tennessee. A summary of the field sampling information presented in Table 1 provides the monitoring well identification and corresponding sample designation and sample matrix for each of the groundwater samples collected during this assessment.

### **3.5. Field Quality Control Sampling**

Table 1 provides the sample location identification and corresponding sample designation and sample matrix for each of the quality control samples collected during this assessment.

#### **3.5.1. Field Blanks**

In accordance with the approved SAP, a surface wipe field blank was collected for methamphetamine, iodine, and lead to evaluate whether contaminants have been introduced into the wipe samples during the sampling due to ambient conditions or from sample containers. The surface wipe field blank samples were obtained by folding an unused surface wipe field blank sample media in the same manner as an actual sample without allowing the media to come into contact with any surface. The field blanks collected were analyzed for methamphetamine, iodine, and lead. The field blanks were preserved, packaged, and sealed in the manner described in the environmental samples. A separate sample number was assigned to the samples and submitted blind to the laboratory.

### **3.5.2. Equipment Blanks**

No equipment blanks were collected during sediment sampling due to the fact that sediment sampling was not conducted. No reusable equipment was utilized to collect either surface wipe or groundwater samples and therefore no equipment blanks were collected.

### **3.5.3. Laboratory Quality Control Samples**

In accordance with the approved SAP, a laboratory quality control (QC) groundwater sample was designated for WW1-GW-1. For the water sample, a double volume of the sample was supplied to the laboratory. Two sets of water sample containers were filled and the containers were labeled. Water sample WW1-GW-1 was designated as a laboratory QC sample by a notation on the chain-of-custody record.

### **3.5.4. Duplicate Samples**

In accordance with the approved SAP, a duplicate groundwater sample was collected from the site water well. In order to preserve the “blind” nature of the sample, the groundwater duplicate sample submitted to ESC was labeled as WW7-GW-1. The duplicate groundwater sample was analyzed for VOC, reactivity, corrosivity, and ignitability.

## **4. RESULTS**

### **4.1. Surface Wipe Analytical Results**

Surface wipe samples collected during this assessment were analyzed by Datachem Laboratories in Salt Lake City, Utah. Surface wipe samples were analyzed for methamphetamine by method National Institute for Occupational Safety (NIOSH) Manual of Analytical Methods (NMAM) 9111, lead by NIOSH Method 7082, and iodine by NIOSH Method 6005. The results of the laboratory analyses are summarized in Table 2, which provides sample locations along with sample identification, sample matrix, and test results for the targeted chemical

compounds of this assessment. Copies of the laboratory reports and chain-of-custody records are included in Appendix C.

#### **4.2. Groundwater Analytical Results**

Groundwater samples collected during this assessment were analyzed by ESC in Mt. Juliet, Tennessee. Groundwater samples were analyzed for VOC by EPA Method 8260B, reactivity by EPA Method 9012B/9034, corrosivity by EPA Method 9040C, and ignitability by EPA Method 1010A. The results of the laboratory analyses are summarized in Table 3, which provides sample locations along with sample identification, sample matrix, and test results for the targeted chemical compounds of this assessment. Copies of the laboratory reports and chain-of-custody records are included in Appendix C.

### **5. DATA VALIDATION**

A Tier 1A 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 generally 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 D.

### **6. CONCLUSIONS**

The following sections present a discussion of the results of the fieldwork and analytical program for the Phase II ESA.

#### **6.1. Residual Surface Contamination**

- Reported methamphetamine, iodine, and lead concentrations in surface wipe samples collected from the interior of the residential trailer were below applicable laboratory detection limits in each of the samples collected, with the exception of one sample (KTN1-SWP-10M) collected in the kitchen area.

- Sample KTN1-SWP-10M was collected between the top of the stove and the kitchen exhaust vent hood. The concentration of methamphetamine detected in sample KTN1-SWP-10M was 0.45 micrograms ( $\mu\text{g}$ ) per sample or 0.0045  $\mu\text{g}$  per 100 square centimeters ( $\mu\text{g}/100\text{ cm}^2$ ). This concentration does not exceed the Colorado Department of Public Health and Environment clean up concentration of 0.5  $\mu\text{g}/100\text{ cm}^2$  established as the clean up standard for methamphetamine for this assessment.

## 6.2. Septic System Sampling

- Although no liquid or sediment samples were collected from the septic system, based on the results of the surface and groundwater sampling, Ninyo & Moore does not believe that additional efforts to sample the septic system are warranted.

## 6.3. Groundwater

- The depth to groundwater was measured on November 6, 2008 at a depth of 59.50 feet at top of casing or approximately 58.30 feet bgs.
- Reported VOC, reactive cyanide, and reactive sulfide concentrations in the groundwater sample collected from the site well did not exceed applicable laboratory detection limits.
- Reported corrosivity (pH) in groundwater was 7.4, which is within the acceptable secondary drinking water standard range of greater than 6.5 and less than 8.5 in the groundwater sample collected from the site water well.
- Reported ignitability in groundwater exceeded 170 degrees Fahrenheit in the groundwater sample collected from the site water well.

## 7. RECOMMENDATIONS

Based on the results of this Phase II ESA, Ninyo & Moore makes no recommendations for further assessment activity at the subject site at this time.

## 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.

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 site. The testing and analyses have been conducted by an independent laboratory, which is 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 could change with time as a result of natural processes or the activities of man at the subject site 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 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.

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.

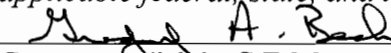
## 9. CERTIFICATIONS

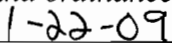
In accordance with NDEP Bureau of Corrective Actions guidelines requiring that all submittals that incorporate laboratory data generated after May 8, 2005 include a statement by a Nevada Certified Environmental Manager (C.E.M.), the following language is included:

*I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*

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, 2010

  
\_\_\_\_\_  
Date

## 10. REFERENCES

Ninyo & Moore, 2008a, Phase I Environmental Site Assessment Report, 3761 North Stephanie Street, Parcel No. 028-251-18, Pahrump, Nevada, dated May 27.

Ninyo & Moore, 2008b, Sampling and Analysis Plan, Phase II Site Investigation, 3761 North Stephanie Street, Parcel No. 028-251-18, Pahrump, Nevada, dated October 17.

United States Geological Survey, 1968, Last Chance Range Quadrangle: 7.5-minute series (topographic), Scale 1:24,000.

## TABLES

**Table 1 - Summary of Field Sampling**

Sample Location	Sample Identification		Sample Matrix	Field Duplicate	Equipment Blank	Field Blank	Laboratory QC
	Field	Laboratory					
BATHROOM	BTR1-SWP-1M	8316025001	Surface Wipe				
BATHROOM	BTR1-SWP-2L	8316025010	Surface Wipe				
BATHROOM	BTR1-SWP-3I	8316025006	Surface Wipe				
BATHROOM	BTR1-SWP-4M	8316025002	Surface Wipe				
BATHROOM	BTR1-SWP-5L	8316025011	Surface Wipe				
BATHROOM	BTR1-SWP-6I	8316025007	Surface Wipe				
KITCHEN	KTN1-SWP-7M	8316025003	Surface Wipe				
KITCHEN	KTN1-SWP-8I	8316025008	Surface Wipe				
KITCHEN	KTN1-SWP-9L	8316025012	Surface Wipe				
KITCHEN	KTN1-SWP-10M	8316025004	Surface Wipe				
KITCHEN	KTN1-SWP-11I	8316025009	Surface Wipe				
KITCHEN	KTN1-SWP-12L	8316025013	Surface Wipe				
--	KTN1-SWP-13M	8316025005	Surface Wipe			X	
--	KTN1-SWP-14I	8316025015	Surface Wipe			X	
--	KTN1-SWP-15L	8316025014	Surface Wipe			X	
WATER WELL	WW1-GW-1	L373794-01&02	Water				X
WATER WELL	WW7-GW-1	L373794-03&04	Water	X			

-- Not Applicable

M - methamphetamine

L - lead

I - iodine

**Table 2 - Surface Wipe Analytical Results**

Sample Location	Sample Designation	Sample Collection Date	Analyte			Notes
			Methamphetamine	Iodine	Lead	
<b>Cleanup Level Surface Wipe Samples*</b>			<b>0.5</b>	<b>22</b>	<b>0.043</b>	
BATHROOM	BTR1-SWP-1M	11/6/08	<0.001	--	--	
BATHROOM	BTR1-SWP-2L	11/6/08	--	--	<0.025	
BATHROOM	BTR1-SWP-3I	11/6/08	--	<0.18	--	
BATHROOM	BTR1-SWP-4M	11/6/08	<0.001	--	--	
BATHROOM	BTR1-SWP-5L	11/6/08	--	--	<0.025	
BATHROOM	BTR1-SWP-6I	11/6/08	--	<0.18	--	
KITCHEN	KTN1-SWP-7M	11/6/08	<0.001	--	--	
KITCHEN	KTN1-SWP-8I	11/6/08	--	<0.18	--	
KITCHEN	KTN1-SWP-9L	11/6/08	--	--	<0.025	
KITCHEN	KTN1-SWP-10M	11/6/08	0.0045	--	--	
KITCHEN	KTN1-SWP-11I	11/6/08	--	<0.18	--	
KITCHEN	KTN1-SWP-12L	11/6/08	--	--	<0.025	
Field Blank	KTN1-SWP-13M	11/6/08	<0.001	--	--	Field Blank
Field Blank	KTN1-SWP-14I	11/6/08	--	<0.18	--	Field Blank
Field Blank	KTN1-SWP-15L	11/6/08	--	--	<0.025	Field Blank

Concentrations expressed in micrograms per 100 square centimeters ( $\mu\text{g}/100\text{cm}^2$ )

\*Colorado Department of Public Health and Environment 6 CCR 1014-3 State Board of Health, Regulations Pertaining to Cleanup of Methamphetamine Laboratories

-- Not Applicable

M - methamphetamine

L - lead

I - iodine

**Table 3 - Groundwater Analytical Results**

Sample Location	Sample Designation	Sample Collection Date	Volatile Organic Compounds				Wet Chemistry				Notes
			Acetone	Benzene	Toluene	Xylenes	Reactive Cyanide	Reactive Sulfide	Ignitability	Corrosivity (pH)	
<b>Action Level</b>			<b>22000<sup>1</sup></b>	<b>5</b>	<b>1,000</b>	<b>10,000</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>&lt;6.5 or &gt;8.5<sup>4</sup></b>	
Water Well	WW1-GW-1	11/6/08	<50	<1	<5	<3	<0.000125	<0.025	DNF at 170°F <sup>3</sup>	7.4	Quality Control
Water Well	WW7-GW-1 <sup>2</sup>	11/6/08	<50	<1	<5	<3	<0.000125	<0.025	DNF at 170°F <sup>3</sup>	7.7	WW-1-GW-1 Duplicate

Concentrations expressed in micrograms per liter (µg/l)

Action Level = National Primary Drinking Water Standards, Maximum Contaminant Level (MCL), unless otherwise noted.

NE - No action level established

<sup>1</sup>EPA Region 9 Preliminary Remediation Goal (PRG)

<sup>2</sup>Field duplicate

<sup>3</sup>Did Not Flash at 170 degrees Fahrenheit

<sup>4</sup>National Secondary Drinking Water Standard for pH

**FIGURES**





REFERENCE: Google Earth, 2008.



NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE.

**Ninyo & Moore**

**SITE LOCATION**

FIGURE

PROJECT NO.

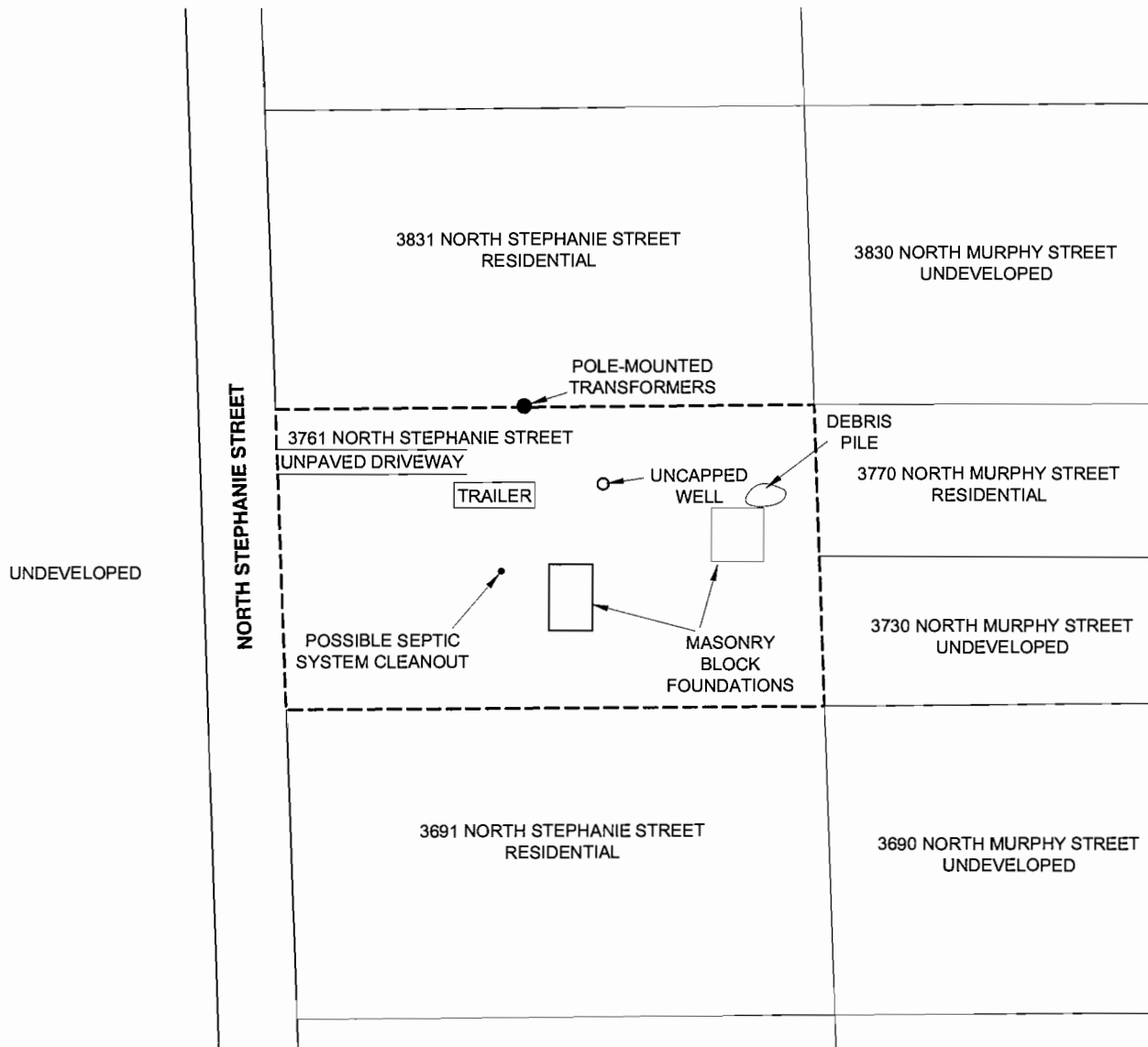
DATE

3761 NORTH STEPHANIE STREET  
PAHRUMP, NEVADA

302556002

09/08

**1**



SCALE IN FEET



**LEGEND**

--- Subject site.

REFERENCE: Nye County Assessor Web Site, 2008.

NOTE: Dimensions, directions, and locations are approximate.

**Ninyo & Moore**

**SITE PLAN**

FIGURE

PROJECT NO.

DATE

3761 NORTH STEPHANIE STREET  
PAHRUMP, NEVADA

302556002

1/09

**2**

**APPENDIX A**  
**SITE PHOTOGRAPHS**



**Photograph 1: View of surface wipe sample locations BTR1-SWP-1M, BTR1-SWP-2L, and BTR1-SWP-3I in bathroom.**



**Photograph 2: View of surface wipe sample locations BTR1-SWP-4M, BTR1-SWP-5L, and BTR1-SWP-6I in bathroom.**



**Photograph 3: View of surface wipe sampling locations in kitchen.**



**Photograph 4: View of surface wipe sample locations KTN1-SWP-7M, KTN1-SWP-8I, and KTN1-SWP-9L in kitchen.**



**Photograph 5: View of surface wipe sample locations KTN1-SWP-10M, KTN1-SWP-11I, and KTN1-SWP-12L in kitchen.**



**Photograph 6: View of site water well with open casing.**



**Photograph 7: View of disposable bailer placed in vent pipe associated with septic system.**

**APPENDIX B**  
**GROUNDWATER SAMPLING FIELD DATA SHEET**



Project Name: Nye County Date: 11/6/08 By: Mark Gray  
 Project No.: 302556002 Weather/Site Conditions: clear - sunny  
 Monitoring Well ID: WW-1 Site Location: 3761 Stephanie St

Casing Diameter:  2"  4"  6"  Other 8" Casing Material  SCH 40-PVC  Other:  Steel  
 Total Depth (ft-TOC): (A) blocked @ 77' LNAPL Observed  Yes  No DNAPL Observed  Yes  No  
 Total Depth (ft-TOC): (B) 59.50' LNAPL Thickness \_\_\_\_\_ DNAPL Thickness steel  
 $2\frac{7}{8}" = 0.78 \text{ g/ft} = (D)$   
 $4\frac{7}{8}" = 1.33 \text{ G/FT} = (D)$   
 $4\frac{7}{8}" = 1.19 \text{ G/FT} = (D)$   
 $4\frac{7}{10}" = 1.51 \text{ G/FT} = (D)$  x 1.5 = (E) Approx. Min. Purge Vol. (gallons)  
 A - B = C  
 Water Column Height (feet) (C) \_\_\_\_\_  
 Distance between TOC and ground surface = (+/-) \_\_\_\_\_ (1 borehole volume) \_\_\_\_\_ (1.5 borehole volume) \_\_\_\_\_ (gallons)

Water Level Measurement Equip.:  Heron H. 01L 150'  Water Line  Heron Dipper T Cleaned  
 Purging Method/Equipment:  xp-100 Pump  Quickie Bailer  Hand Bailer Cleaned

Sampling Equipment: Bailer  PVC  SS  Low Flow  Pumps  Dedicated/Non-dedicated  Peristaltic Pump

Sampling Method/Equipment:	PARAMETER	USEPA METHOD	CONTAINERS/VOLUME/TYPE (VOA/Glass/Plastic)	PRESERVATIVES
Bailer Rope <u>New</u> or cleaned?:	VOC	8260	6/40ml	HCL
Sampled By: <u>MCG</u>	reactivity	9028/ 9034	3/1LT	None
Sample Time: <u>14:15 + 14:30</u>	corrosivity	9040C		
Sample ID: <u>WW1-GW-1 + WW1-GW-1</u>	ignitability	1010A		

Time (24 hr)	PURGE VOL. (gallons)	pH	COND. (µ/cm)	TEMP. (µS/cm)	DO	Comments (color, odor, sheen, etc.)
14:00	1.0	7.01	1750	20.5	-	clear
14:05	1.0	7.02	1719	20.5	-	clear
14:10	1.0	7.01	1720	20.5	-	clear
						No odor

Depth to Water After Purging (ft) = (F) \_\_\_\_\_

Total Vol. Purged (gal): ≈ 3.0 gal Max. Drawdown: (J) \_\_\_\_\_  
 Time Finished Purging: \_\_\_\_\_

$A - B = C; G_x - B = H_x; F - B = J; \frac{H_x}{r} - 1 \times 100 = I_x; \frac{I_x - I_1}{T_x - T_1} \times 120 = \% \text{ recovery in 2 hrs.}$

Laboratory: ESC  
 Sample Container Lot Number: L373794-01-02, -03, -04  
 Shipping Arrangements: Fedex overnight

**APPENDIX C**  
**LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS**



# Environmental Science Corporation

## Mt. Juliet, TN

**For: Ninyo and Moore - Las Vegas**  
**Project: 302556002 3761 N. Stephanie St**  
**L373794**

**SDG: L373794**

**November 17, 2008**

---

### **Sample Receiving and Handling**

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

### **Corrosivity by Method 9040C**

#### **Laboratory Control Sample**

Samples L373794-03 and 04 were analyzed in analytical batch WG392860. The laboratory control sample associated with these samples was within the laboratory control limits.

#### **Sample Duplicate Analysis**

For analytical batch WG392860 sample duplicate analysis was performed on sample L373794-03. The relative percent difference was within the method limits.

#### **Matrix Spike/Matrix Spike Duplicate**

Precision for batch WG392860 was evaluated using the LCS / LCSD. The RPDs were within method limits.

#### **Blank Analysis**

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

### **Flashpoint by Method D93/1010A**

#### **Laboratory Control Sample**

Samples L373794-04 and 03 were analyzed in analytical batch WG393357. The laboratory control sample associated with these samples was within the laboratory control limits.

#### **Sample Duplicate Analysis**

For analytical batch WG393357 sample duplicate analysis was performed on sample L373445-01. The relative percent difference was within the method limits.

#### **Matrix Spike/Matrix Spike Duplicate**

Precision for batch WG393357 was evaluated using the LCS / LCSD. The RPDs were within method limits.

#### **Blank Analysis**

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

### **Reactive Sulf.(SW846 7.3.4.1) by Method 9034/9030B**

#### **Laboratory Control Sample**

Samples L373794-04 and 03 were analyzed in analytical batch WG393783. The laboratory control sample associated with these samples was within the laboratory control limits.

#### **Sample Duplicate Analysis**

For analytical batch WG393783 sample duplicate analysis was performed on sample L373794-03. The relative percent difference was within the method limits.



# Environmental Science Corporation

## Mt. Juliet, TN

**For: Ninyo and Moore - Las Vegas**  
**Project: 302556002 3761 N. Stephanie St**  
**L373794**

**SDG: L373794**

**November 17, 2008**

---

### **Matrix Spike/Matrix Spike Duplicate**

Precision for batch WG393783 was evaluated using the LCS / LCSD. The RPDs were within method limits.

### **Blank Analysis**

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

### **Reactive CN (SW846 7.3.3.2) by Method 9012B**

#### **Laboratory Control Sample**

Samples L373794-03 and 04 were analyzed in analytical batch WG393785. The laboratory control sample associated with these samples was within the laboratory control limits.

### **Sample Duplicate Analysis**

For analytical batch WG393785 sample duplicate analysis was performed on sample L373794-03. The relative percent difference was within the method limits.

### **Blank Analysis**

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

### **Volatile Organic Compounds by Method 8260B**

#### **Laboratory Control Sample**

Samples L373794-01 and 02 were analyzed in analytical batch WG392914. The laboratory control sample associated with these samples had all target compounds within method limits except for Acrolein.

Sample L373794-01 was analyzed in analytical batch WG392986. The laboratory control sample associated with this sample was within the laboratory control limits for all compounds.

### **Matrix Spike/Matrix Spike Duplicate**

For analytical batch WG392914 matrix spike/matrix spike duplicate analysis was performed on sample L373782-06. The matrix spike recoveries were within laboratory control limits for all target analytes. The relative percent difference exceeded laboratory limits for 2-Chloroethyl vinyl ether.

For analytical batch WG392986 matrix spike/matrix spike duplicate analysis was performed on sample L373779-27. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes.

### **Blank Analysis**

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Nancy F. Winters  
ESC Representative  
Environmental Science Corporation



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Est. 1970

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E

Las Vegas, NV 89119

Report Summary

Monday January 12, 2009

Report Number: L373794

Samples Received: 11/07/08

Client Project: 302556002

Description: 302556002 3761 N. Stephanie St

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Debra R. Richards*  
Debra Richards, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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in laboratory standard operating procedures: 060302, 060303, and 060304.



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**REPORT OF ANALYSIS**

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

January 12, 2009

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St  
Sample ID : WW1-GW-1  
Collected By : Mark Gray  
Collection Date : 11/06/08 14:15

ESC Sample # : L373794-01

Site ID : 3761 N STEPHANIE ST

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
<b>Volatile Organics</b>						
Acetone	BDL	0.050	mg/l	8260B	11/08/08	1
Acrolein	BDL	0.050	mg/l	8260B	11/08/08	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/08/08	1
Benzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromoform	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/08/08	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/08/08	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/08/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/08/08	1
Chloroform	BDL	0.0050	mg/l	8260B	11/08/08	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/08/08	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/08/08	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/08/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/08/08	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/08/08	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)



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**REPORT OF ANALYSIS**

January 12, 2009

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St  
Sample ID : WW1-GW-1  
Collected By : Mark Gray  
Collection Date : 11/06/08 14:15

ESC Sample # : L373794-01

Site ID : 3761 N STEPHANIE ST

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/08/08	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/08/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/08/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/08/08	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/08/08	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Styrene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	11/08/08	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	11/10/08	1
Toluene	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Trichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/08/08	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/08/08	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	11/08/08	1
Dibromofluoromethane	107.		% Rec.	8260B	11/08/08	1
4-Bromofluorobenzene	109.		% Rec.	8260B	11/08/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/14/08 13:27 Revised: 01/12/09 13:44



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REPORT OF ANALYSIS

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

January 12, 2009

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St

ESC Sample # : L373794-02

Sample ID : WW7-GW-1

Site ID : 3761 N STEPHANIE ST

Collected By : Mark Gray  
Collection Date : 11/06/08 14:30

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
<b>Volatile Organics</b>						
Acetone	BDL	0.050	mg/l	8260B	11/08/08	1
Acrolein	BDL	0.050	mg/l	8260B	11/08/08	1
Acrylonitrile	BDL	0.010	mg/l	8260B	11/08/08	1
Benzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromoform	BDL	0.0010	mg/l	8260B	11/08/08	1
Bromomethane	BDL	0.0050	mg/l	8260B	11/08/08	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	11/08/08	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Chloroethane	BDL	0.0050	mg/l	8260B	11/08/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	11/08/08	1
Chloroform	BDL	0.0050	mg/l	8260B	11/08/08	1
Chloromethane	BDL	0.0025	mg/l	8260B	11/08/08	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/08/08	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Dibromomethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	11/08/08	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	11/08/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/l	8260B	11/08/08	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	11/08/08	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit (PQL)





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Est. 1970

**REPORT OF ANALYSIS**

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

January 12, 2009

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St  
Sample ID : WW7-GW-1  
Collected By : Mark Gray  
Collection Date : 11/06/08 14:30

ESC Sample # : L373794-02

Site ID : 3761 N STEPHANIE ST

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	11/08/08	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	11/08/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	11/08/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	11/08/08	1
Naphthalene	BDL	0.0050	mg/l	8260B	11/08/08	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Styrene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	11/08/08	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
Toluene	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	11/08/08	1
Trichloroethene	BDL	0.0010	mg/l	8260B	11/08/08	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	11/08/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	11/08/08	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	11/08/08	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	11/08/08	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	11/08/08	1
Dibromofluoromethane	105.		% Rec.	8260B	11/08/08	1
4-Bromofluorobenzene	103.		% Rec.	8260B	11/08/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/14/08 13:27 Revised: 01/12/09 13:44



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Est. 1970

REPORT OF ANALYSIS

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

January 12, 2009

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St  
Sample ID : WW1-GW-1  
Collected By : Mark Gray  
Collection Date : 11/06/08 14:15

ESC Sample # : L373794-03

Site ID : 3761 N STEPHANIE ST

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	7.4			9040C	11/10/08	1
Flashpoint	See Footnote		deg F	D93/1010A	11/13/08	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/l	9012B	11/14/08	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/l	9034/9030B	11/14/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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L373794-03 (FLASHPOINT) - Did Not Flash @ 170f



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Est. 1970

REPORT OF ANALYSIS

Mark Gray  
Ninyo and Moore - Las Vegas  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

January 12, 2009

Date Received : November 07, 2008  
Description : 302556002 3761 N. Stephanie St  
Sample ID : WW7-GW-1  
Collected By : Mark Gray  
Collection Date : 11/06/08 14:30

ESC Sample # : L373794-04

Site ID : 3761 N STEPHANIE ST

Project # : 302556002

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity	7.7			9040C	11/10/08	1
Flashpoint	See Footnote		deg F	D93/1010A	11/13/08	1
Reactive CN (SW846 7.3.3.2)	BDL	0.125	mg/l	9012B	11/14/08	1
Reactive Sulf. (SW846 7.3.4.1)	BDL	25.	mg/l	9034/9030B	11/14/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 11/14/08 13:27 Revised: 01/12/09 13:44  
L373794-04 (FLASHPOINT) - Did Not Flash @ 170f

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L373794-01	WG392914	SAMP	Acrolein	R530489	J4
L373794-02	WG392914	SAMP	Acrolein	R530489	J4
L373794-03	WG392860	SAMP	Corrosivity	R531165	T8
	WG393783	SAMP	Reactive Sulf. (SW846 7.3.4.1)	R534490	Q
L373794-04	WG392860	SAMP	Corrosivity	R531165	T8
	WG393783	SAMP	Reactive Sulf. (SW846 7.3.4.1)	R534490	Q

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.
Q	(ESC) Sample held beyond the accepted holding time.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
01/12/09 at 13:44:04

TSR Signing Reports: 288  
R5 - Desired TAT

Sample: L373794-01 Account: NINYOLNV Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/14/08 13:27  
MS/MSD this sample  
Sample: L373794-02 Account: NINYOLNV Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/14/08 13:27  
Sample: L373794-03 Account: NINYOLNV Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/14/08 13:27  
Sample: L373794-04 Account: NINYOLNV Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/14/08 13:27



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

L373794

Test: Corrosivity by Method 9040C

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-03, -04

Sample Date: 11/6/2008

Extraction Date: 11/8/2008

Analysis Date: 11/10/2008 4:13:00 PM

Instrument ID: ACCUMET AB

Analyst: 183

Analytic Batch: WG392860

EPA ID: TN00003

### Method Blank

Analyte	CAS	PQL
Corrosivity		7.20

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Corrosivity	7.42	7.40	99.7	97.19 - 102.8	

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Corrosivity	7.42	7.50	101	97.19 - 102.8	



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Corrosivity by Method 9040C

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-03, -04

Sample Date: 11/6/2008

Extraction Date: 11/8/2008

Analysis Date: 11/10/2008 4:13:00 PM

Instrument ID: ACCUMET AB

Analyst: 183

Analytic Batch: WG392860

EPA ID: TN00003

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Corrosivity	7.42	7.40	99.7	7.50	101	97.19-102.8	1.3	20	

### Sample Duplicate

L373794-03

Name	Sample Results	Results Duplicate	%RPD	Limit	Qualifiers
Corrosivity	7.40	7.60	2.7	20	





# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Flashpoint by Method D93/1010A

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-04, -03

Sample Date: 11/6/2008

Extraction Date: 11/11/2008

Analysis Date: 11/13/2008 10:30:00 AM

Instrument ID: KOEHLER

Analyst: 352

Analytic Batch: WG393357

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Flashpoint	82.0	81.0	98.8	96 - 103	

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Flashpoint	82.0	83.0	101	96 - 103	



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Flashpoint by Method D93/1010A

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-04, -03

Sample Date: 11/6/2008

Extraction Date: 11/11/2008

Analysis Date: 11/13/2008 10:30:00 AM

Instrument ID: KOEHLER

Analyst: 352

Analytic Batch: WG393357

EPA ID: TN00003

#### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Qualifier
Flashpoint	82.0	81.0	98.8	83.0	101	96-103	2.4	7	

#### Sample Duplicate

L373445-01

Name	Sample Results	Results Duplicate	%RPD	Limit	Qualifiers
Flashpoint	0.0000	0.0000			



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Reactive CN (SW846 7.3.3.2) by Method 9012B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-03, -04

Sample Date: 11/6/2008

Extraction Date: 11/13/2008

Analysis Date: 11/14/2008 11:33:00 AM

Instrument ID: LACHAT4

Analyst:

Analytic Batch: WG393785

EPA ID: TN00003

---

#### Sample Duplicate

L373794-03

Name	Sample Results	Results Duplicate	%RPD	Limit	Qualifiers
Reactive CN (SW846)	0.0000	0.0000			



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Reactive Sulf.(SW846 7.3.4.1) by Method 9034/9030B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-04, -03

Sample Date: 11/6/2008

Extraction Date: 11/13/2008

Analysis Date: 11/14/2008 10:00:00 AM

Instrument ID: NONE

Analyst: 352

Analytic Batch: WG393783

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL
Reactive Sulf.(SW846 7.3.4.1)		<25.0

#### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Reactive Sulf.(SW846 7.3.4.1)	100	96.0	96.0	70 - 130	

#### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Reactive Sulf.(SW846 7.3.4.1)	100	96.0	96.0	70 - 130	



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Reactive Sulf.(SW846 7.3.4.1) by Method 9034/9030B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-04, -03

Sample Date: 11/6/2008

Extraction Date: 11/13/2008

Analysis Date: 11/14/2008 10:00:00 AM

Instrument ID: NONE

Analyst: 352

Analytic Batch: WG393783

EPA ID: TN00003

#### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Reactive Sulf.(SW846	100	96.0	96.0	96.0	96.0	70-130	0.0	20	

#### Sample Duplicate

L373794-03

Name	Sample Results	Results Duplicate	%RPD	Limit	Qualifiers
Reactive Sulf.(SW846	0.0000	0.0000			



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL
Dichlorodifluoromethane	75-71-8	<0.0050
Chloromethane	74-87-3	<0.0025
Vinyl chloride	75-01-4	<0.0010
Bromomethane	74-83-9	<0.0050
Chloroethane	75-00-3	<0.0050
Trichlorofluoromethane	75-69-4	<0.0050
Acrolein	107-02-8	<0.0500
1,1-Dichloroethene	75-35-4	<0.0010
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	<0.0010
Acetone	67-64-1	<0.0500
Methylene Chloride	75-09-2	<0.0050
Acrylonitrile	107-13-1	<0.0100
trans-1,2-Dichloroethene	156-60-5	<0.0010
Methyl tert-butyl ether	1634-04-4	<0.0010
1,1-Dichloroethane	75-34-3	<0.0010
Di-isopropyl ether	108-20-3	<0.0010
2,2-Dichloropropane	594-20-7	<0.0010
cis-1,2-Dichloroethene	156-59-2	<0.0010
2-Butanone (MEK)	78-93-3	<0.0100
Chloroform	67-66-3	<0.0050
1,1,1-Trichloroethane	71-55-6	<0.0010
Carbon tetrachloride	56-23-5	<0.0010
1,1-Dichloropropene	563-58-6	<0.0010
Benzene	71-43-2	<0.0010
1,2-Dichloroethane	107-06-2	<0.0010
Trichloroethene	79-01-6	<0.0010
1,2-Dichloropropane	78-87-5	<0.0010
Dibromomethane	74-95-3	<0.0010
Bromodichloromethane	75-27-4	<0.0010
2-Chloroethyl vinyl ether	110-75-8	<0.0500
cis-1,3-Dichloropropene	10061-01-5	<0.0010
4-Methyl-2-pentanone (MIBK)	108-10-1	<0.0100
Toluene	108-88-3	<0.0050
trans-1,3-Dichloropropene	10061-02-6	<0.0010
1,1,2-Trichloroethane	79-00-5	<0.0010



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

#### Method Blank

Analyte	CAS	PQL
Tetrachloroethene	127-18-4	<0.0010
1,3-Dichloropropane	142-28-9	<0.0010
Chlorodibromomethane	124-48-1	<0.0010
1,2-Dibromoethane	106-93-4	<0.0010
Chlorobenzene	108-90-7	<0.0010
1,1,1,2-Tetrachloroethane	630-20-6	<0.0010
Ethylbenzene	100-41-4	<0.0010
m&p-Xylene	1330-20-7	<0.0030
o-Xylene	1330-20-7	<0.0030
Styrene	100-42-5	<0.0010
Bromoform	75-25-2	<0.0010
Isopropylbenzene	98-82-8	<0.0010
Bromobenzene	108-86-1	<0.0010
1,1,2,2-Tetrachloroethane	79-34-5	<0.0010
1,2,3-Trichloropropane	96-18-4	<0.0010
n-Propylbenzene	103-65-1	<0.0010
2-Chlorotoluene	95-49-8	<0.0010
4-Chlorotoluene	106-43-4	<0.0010
1,3,5-Trimethylbenzene	108-67-8	<0.0010
tert-Butylbenzene	98-06-6	<0.0010
1,2,4-Trimethylbenzene	95-63-6	<0.0010
sec-Butylbenzene	135-98-8	<0.0010
1,3-Dichlorobenzene	541-73-1	<0.0010
p-Isopropyltoluene	99-87-6	<0.0010
1,4-Dichlorobenzene	106-46-7	<0.0010
1,2,3-Trimethylbenzene	526-73-8	<0.0010
1,2-Dichlorobenzene	95-50-1	<0.0010
n-Butylbenzene	104-51-8	<0.0010
1,2-Dibromo-3-Chloropropane	96-12-8	<0.0050
1,2,4-Trichlorobenzene	120-82-1	<0.0010
Hexachloro-1,3-butadiene	87-68-3	<0.0010
Naphthalene	91-20-3	<0.0050
1,2,3-Trichlorobenzene	87-61-6	<0.0010



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01

Sample Date: 11/6/2008

Analysis Date: 11/10/2008

Instrument ID: VOCGCMS5

Analyst: 366

Analytic Batch: WG392986

EPA ID: TN00003

### Method Blank

Analyte	CAS	PQL
Tetrachloroethene	127-18-4	<0.0010

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Tetrachloroethene	0.0500	0.0523	105	67 - 135	

### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Tetrachloroethene	0.0500	0.0505	101	67 - 135	





# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0500	0.0564	113	39 - 189	
Chloromethane	0.0500	0.0576	115	45 - 152	
Vinyl chloride	0.0500	0.0614	123	55 - 153	
Bromomethane	0.0500	0.0605	121	45 - 175	
Chloroethane	0.0500	0.0578	116	49 - 155	
Trichlorofluoromethane	0.0500	0.0559	112	54 - 156	
Acrolein	0.250	0.466	186	6 - 182	J4
1,1-Dichloroethene	0.0500	0.0544	109	60 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0651	130	51 - 149	
Acetone	0.250	0.237	94.8	48 - 134	
Methylene Chloride	0.0500	0.0560	112	64 - 125	
Acrylonitrile	0.250	0.304	122	60 - 140	
trans-1,2-Dichloroethene	0.0500	0.0581	116	67 - 129	
Methyl tert-butyl ether	0.0500	0.0577	115	51 - 142	
1,1-Dichloroethane	0.0500	0.0570	114	67 - 133	
Di-isopropyl ether	0.0500	0.0606	121	63 - 139	
2,2-Dichloropropane	0.0500	0.0644	129	46 - 151	
cis-1,2-Dichloroethene	0.0500	0.0625	125	72 - 128	
2-Butanone (MEK)	0.250	0.276	111	53 - 132	
Chloroform	0.0500	0.0564	113	66 - 126	
1,1,1-Trichloroethane	0.0500	0.0562	112	67 - 137	
Carbon tetrachloride	0.0500	0.0520	104	64 - 141	
1,1-Dichloropropene	0.0500	0.0575	115	68 - 132	
Benzene	0.0500	0.0580	116	67 - 126	
1,2-Dichloroethane	0.0500	0.0549	110	63 - 137	
Trichloroethene	0.0500	0.0587	117	74 - 126	
1,2-Dichloropropane	0.0500	0.0590	118	74 - 122	
Dibromomethane	0.0500	0.0541	108	73 - 125	
Bromodichloromethane	0.0500	0.0570	114	68 - 133	
2-Chloroethyl vinyl ether	0.250	0.209	83.6	0 - 171	
cis-1,3-Dichloropropene	0.0500	0.0556	111	73 - 131	
4-Methyl-2-pentanone (MIBK)	0.250	0.262	105	60 - 142	
Toluene	0.0500	0.0524	105	72 - 122	
trans-1,3-Dichloropropene	0.0500	0.0469	93.9	66 - 137	
1,1,2-Trichloroethane	0.0500	0.0508	102	79 - 123	



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

#### Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Tetrachloroethene	0.0500	0.0518	104	67 - 135	
1,3-Dichloropropane	0.0500	0.0540	108	77 - 119	
Chlorodibromomethane	0.0500	0.0543	109	73 - 138	
1,2-Dibromoethane	0.0500	0.0547	109	75 - 126	
Chlorobenzene	0.0500	0.0548	110	77 - 125	
1,1,1,2-Tetrachloroethane	0.0500	0.0556	111	75 - 134	
Ethylbenzene	0.0500	0.0557	111	76 - 129	
m&p-Xylene	0.100	0.106	106	74 - 128	
o-Xylene	0.0500	0.0560	112	78 - 128	
Styrene	0.0500	0.0581	116	78 - 130	
Bromoform	0.0500	0.0568	114	60 - 139	
Isopropylbenzene	0.0500	0.0526	105	73 - 132	
Bromobenzene	0.0500	0.0518	104	76 - 123	
1,1,2,2-Tetrachloroethane	0.0500	0.0504	101	72 - 128	
1,2,3-Trichloropropane	0.0500	0.0495	99.0	68 - 130	
n-Propylbenzene	0.0500	0.0510	102	71 - 132	
2-Chlorotoluene	0.0500	0.0527	105	74 - 128	
4-Chlorotoluene	0.0500	0.0519	104	74 - 130	
1,3,5-Trimethylbenzene	0.0500	0.0532	106	73 - 134	
tert-Butylbenzene	0.0500	0.0527	105	72 - 134	
1,2,4-Trimethylbenzene	0.0500	0.0526	105	72 - 135	
sec-Butylbenzene	0.0500	0.0525	105	70 - 135	
1,3-Dichlorobenzene	0.0500	0.0532	106	73 - 131	
p-Isopropyltoluene	0.0500	0.0537	107	68 - 138	
1,4-Dichlorobenzene	0.0500	0.0480	96.1	70 - 121	
1,2,3-Trimethylbenzene	0.0500	0.0489	97.8	70 - 127	
1,2-Dichlorobenzene	0.0500	0.0500	99.9	75 - 122	
n-Butylbenzene	0.0500	0.0457	91.5	63 - 142	
1,2-Dibromo-3-Chloropropane	0.0500	0.0483	96.5	55 - 134	
1,2,4-Trichlorobenzene	0.0500	0.0480	96.1	65 - 137	
Hexachloro-1,3-butadiene	0.0500	0.0496	99.1	67 - 135	
Naphthalene	0.0500	0.0485	97.0	56 - 145	
1,2,3-Trichlorobenzene	0.0500	0.0482	96.4	63 - 138	



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

#### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Dichlorodifluoromethane	0.0500	0.0533	107	39 - 189	
Chloromethane	0.0500	0.0547	109	45 - 152	
Vinyl chloride	0.0500	0.0581	116	55 - 153	
Bromomethane	0.0500	0.0585	117	45 - 175	
Chloroethane	0.0500	0.0562	112	49 - 155	
Trichlorofluoromethane	0.0500	0.0546	109	54 - 156	
Acrolein	0.250	0.486	194	6 - 182	J4
1,1-Dichloroethene	0.0500	0.0536	107	60 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0500	0.0636	127	51 - 149	
Acetone	0.250	0.235	94.2	48 - 134	
Methylene Chloride	0.0500	0.0538	108	64 - 125	
Acrylonitrile	0.250	0.303	121	60 - 140	
trans-1,2-Dichloroethene	0.0500	0.0575	115	67 - 129	
Methyl tert-butyl ether	0.0500	0.0570	114	51 - 142	
1,1-Dichloroethane	0.0500	0.0569	114	67 - 133	
Di-isopropyl ether	0.0500	0.0611	122	63 - 139	
2,2-Dichloropropane	0.0500	0.0646	129	46 - 151	
cis-1,2-Dichloroethene	0.0500	0.0619	124	72 - 128	
2-Butanone (MEK)	0.250	0.278	111	53 - 132	
Chloroform	0.0500	0.0555	111	66 - 126	
1,1,1-Trichloroethane	0.0500	0.0552	110	67 - 137	
Carbon tetrachloride	0.0500	0.0509	102	64 - 141	
1,1-Dichloropropene	0.0500	0.0567	113	68 - 132	
Benzene	0.0500	0.0584	117	67 - 126	
1,2-Dichloroethane	0.0500	0.0548	110	63 - 137	
Trichloroethene	0.0500	0.0595	119	74 - 126	
1,2-Dichloropropane	0.0500	0.0586	117	74 - 122	
Dibromomethane	0.0500	0.0545	109	73 - 125	
Bromodichloromethane	0.0500	0.0576	115	68 - 133	
2-Chloroethyl vinyl ether	0.250	0.220	88.1	0 - 171	
cis-1,3-Dichloropropene	0.0500	0.0577	115	73 - 131	
4-Methyl-2-pentanone (MIBK)	0.250	0.272	109	60 - 142	
Toluene	0.0500	0.0546	109	72 - 122	
trans-1,3-Dichloropropene	0.0500	0.0487	97.4	66 - 137	
1,1,2-Trichloroethane	0.0500	0.0502	100	79 - 123	



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

#### Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Tetrachloroethene	0.0500	0.0503	101	67 - 135	
1,3-Dichloropropane	0.0500	0.0545	109	77 - 119	
Chlorodibromomethane	0.0500	0.0539	108	73 - 138	
1,2-Dibromoethane	0.0500	0.0534	107	75 - 126	
Chlorobenzene	0.0500	0.0540	108	77 - 125	
1,1,1,2-Tetrachloroethane	0.0500	0.0531	106	75 - 134	
Ethylbenzene	0.0500	0.0547	109	76 - 129	
m&p-Xylene	0.100	0.104	104	74 - 128	
o-Xylene	0.0500	0.0549	110	78 - 128	
Styrene	0.0500	0.0577	115	78 - 130	
Bromoform	0.0500	0.0545	109	60 - 139	
Isopropylbenzene	0.0500	0.0514	103	73 - 132	
Bromobenzene	0.0500	0.0500	100	76 - 123	
1,1,2,2-Tetrachloroethane	0.0500	0.0501	100	72 - 128	
1,2,3-Trichloropropane	0.0500	0.0484	96.7	68 - 130	
n-Propylbenzene	0.0500	0.0503	101	71 - 132	
2-Chlorotoluene	0.0500	0.0517	103	74 - 128	
4-Chlorotoluene	0.0500	0.0507	101	74 - 130	
1,3,5-Trimethylbenzene	0.0500	0.0516	103	73 - 134	
tert-Butylbenzene	0.0500	0.0517	103	72 - 134	
1,2,4-Trimethylbenzene	0.0500	0.0507	101	72 - 135	
sec-Butylbenzene	0.0500	0.0502	100	70 - 135	
1,3-Dichlorobenzene	0.0500	0.0518	104	73 - 131	
p-Isopropyltoluene	0.0500	0.0521	104	68 - 138	
1,4-Dichlorobenzene	0.0500	0.0484	96.7	70 - 121	
1,2,3-Trimethylbenzene	0.0500	0.0492	98.4	70 - 127	
1,2-Dichlorobenzene	0.0500	0.0504	101	75 - 122	
n-Butylbenzene	0.0500	0.0468	93.7	63 - 142	
1,2-Dibromo-3-Chloropropane	0.0500	0.0481	96.3	55 - 134	
1,2,4-Trichlorobenzene	0.0500	0.0478	95.6	65 - 137	
Hexachloro-1,3-butadiene	0.0500	0.0491	98.3	67 - 135	
Naphthalene	0.0500	0.0494	98.8	56 - 145	
1,2,3-Trichlorobenzene	0.0500	0.0492	98.4	63 - 138	



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

### Surrogate Summary

Laboratory Sample ID	Dibromofluoromethane		Toluene-d8		4-Bromofluorobenzene		Alternate Surrogate a,a,a-Trifluorotoluene	
	ppb	% Rec	ppb	% Rec	ppb	% Rec	ppb	% Rec
LCS WG392914	42.2	106	40.1	100	41.7	104	40.6	102
LCSD WG392914	41.1	103	40.7	102	41.0	102	41.6	104
MS WG392914	41.9	105	40.8	102	39.7	99.3	41.6	104
MSD WG392914	41.7	104	40.4	101	41.4	104	40.8	102
Blank WG392914	40.8	102	40.9	102	43.2	108	41.8	105
L373794-01	43.0	107	41.1	103	43.5	109	43.1	108
L373794-02	42.1	105	40.4	101	41.2	103	41.0	103

Dibromofluoromethane	40 ppb	79 - 125
Toluene - d8	40 ppb	87 - 114
4-Bromofluorobenzene	40 ppb	75 - 128
<b>Alternate Surrogate</b>		
a,a,a-Trifluorotoluene	40 ppb	84 - 114



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01

Sample Date: 11/6/2008

Analysis Date: 11/10/2008

Instrument ID: VOCGCMS5

Analyst: 366

Analytic Batch: WG392986

EPA ID: TN00003

### Surrogate Summary

Laboratory Sample ID	Dibromofluoromethane		Toluene-d8		4-Bromofluorobenzene		Alternate Surrogate a,a,a-Trifluorotoluene	
	ppb	% Rec	ppb	% Rec	ppb	% Rec	ppb	% Rec
LCS WG392986	39.9	99.9	38.4	95.9	40.2	101	40.2	100
LCSD WG392986	39.3	98.3	36.4	91.1	39.6	99.1	39.2	98.0
MS WG392986	40.5	101	38.0	95.0	40.5	101	39.7	99.3
MSD WG392986	40.2	100	36.7	91.8	37.0	92.5	40.0	100.0
Blank WG392986	37.9	94.8	38.9	97.2	39.3	98.2	40.2	100
L373794-01	38.8	97.0	38.7	96.6	39.5	98.6	39.7	99.2

Dibromofluoromethane	40 ppb	79 - 125
Toluene - d8	40 ppb	87 - 114
4-Bromofluorobenzene	40 ppb	75 - 128
<b>Alternate Surrogate</b>		
a,a,a-Trifluorotoluene	40 ppb	84 - 114



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Analysis Date: 11/8/2008

EPA ID: TN00003

Instrument ID: VOCMS20

Analytic Batch: WG392914

#### Matrix Spike/Matrix Spike Duplicate

L373782-06

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Dichlorodifluoromethane	0.0500	0.0000	0.0600	120	0.0611	122	0-200	1.8	26	
Chloromethane	0.0500	0.0000	0.0614	123	0.0610	122	10-174	0.6	28	
Vinyl chloride	0.0500	0.0000	0.0667	133	0.0670	134	0-179	0.3	26	
Bromomethane	0.0500	0.0000	0.0614	123	0.0628	126	0-191	2.3	35	
Chloroethane	0.0500	0.0000	0.0610	122	0.0632	126	4-176	3.6	27	
Trichlorofluoromethane	0.0500	0.0000	0.0621	124	0.0621	124	10-177	0.1	24	
Acrolein	0.250	0.0000	0.404	162	0.384	154	0-179	5.0	39	
1,1-Dichloroethene	0.0500	0.0000	0.0579	116	0.0581	116	10-162	0.5	23	
1,1,2-Trichloro-1,2,2-Acetone	0.0500	0.0000	0.0702	140	0.0706	141	14-168	0.6	24	
Methylene Chloride	0.0500	0.0000	0.0549	110	0.0554	111	23-151	0.8	21	
Acrylonitrile	0.250	0.0000	0.315	126	0.316	126	37-162	0.3	24	
trans-1,2-Dichloroethene	0.0500	0.0000	0.0596	119	0.0603	121	11-160	1.2	23	
Methyl tert-butyl ether	0.0500	0.0000	0.0565	113	0.0568	114	24-167	0.6	22	
1,1-Dichloroethane	0.0500	0.0000	0.0587	117	0.0587	117	30-159	0.1	21	
Di-isopropyl ether	0.0500	0.0000	0.0602	120	0.0601	120	39-160	0.2	21	
2,2-Dichloropropane	0.0500	0.0000	0.0715	143	0.0713	143	14-158	0.4	23	
cis-1,2-Dichloroethene	0.0500	0.0000	0.0643	129	0.0642	128	29-156	0.1	22	
2-Butanone (MEK)	0.250	0.0000	0.292	117	0.296	118	32-151	1.3	26	
Chloroform	0.0500	0.0000	0.0568	114	0.0567	113	37-147	0.2	21	
1,1,1-Trichloroethane	0.0500	0.0000	0.0585	117	0.0594	119	31-161	1.5	23	
Carbon tetrachloride	0.0500	0.0000	0.0557	111	0.0550	110	22-168	1.3	24	
1,1-Dichloropropene	0.0500	0.0000	0.0598	120	0.0609	122	14-162	1.8	23	
Benzene	0.0500	0.0000	0.0598	120	0.0602	120	16-158	0.6	21	
1,2-Dichloroethane	0.0500	0.0000	0.0545	109	0.0543	109	29-167	0.3	21	
Trichloroethene	0.0500	0.0000	0.0595	119	0.0604	121	18-163	1.5	21	
1,2-Dichloropropane	0.0500	0.0000	0.0613	123	0.0606	121	39-148	1.2	20	
Dibromomethane	0.0500	0.0000	0.0548	110	0.0544	109	36-152	0.6	20	
Bromodichloromethane	0.0500	0.0000	0.0580	116	0.0576	115	45-147	0.8	20	
2-Chloroethyl vinyl ether	0.250	0.0000	0.0970	38.8	0.0167	6.7	0-175	141	75	J3
cis-1,3-Dichloropropene	0.0500	0.0000	0.0589	118	0.0579	116	35-148	1.7	21	
4-Methyl-2-pentanone	0.250	0.0000	0.285	114	0.278	111	40-160	2.6	28	
Toluene	0.0500	0.0003	0.0553	110	0.0557	111	22-152	0.6	22	
trans-1,3-Dichloropropene	0.0500	0.0005	0.0494	98.0	0.0491	97.3	33-153	0.7	22	
1,1,2-Trichloroethane	0.0500	0.0000	0.0481	96.1	0.0517	103	46-145	7.3	20	
Tetrachloroethene	0.0500	0.0000	0.0527	105	0.0548	110	13-157	3.9	24	
1,3-Dichloropropane	0.0500	0.0000	0.0513	103	0.0531	106	44-142	3.5	20	



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Analysis Date: 11/8/2008

EPA ID: TN00003

Instrument ID: VOCMS20

Analytic Batch: WG392914

### Matrix Spike/Matrix Spike Duplicate

L373782-06

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Chlorodibromomethane	0.0500	0.0000	0.0511	102	0.0532	106	48-151	4.0	21	
1,2-Dibromoethane	0.0500	0.0000	0.0523	105	0.0548	110	41-149	4.6	21	
Chlorobenzene	0.0500	0.0000	0.0533	107	0.0559	112	33-148	4.7	22	
1,1,1,2-Tetrachloroethane	0.0500	0.0000	0.0520	104	0.0542	108	45-152	4.2	21	
Ethylbenzene	0.0500	0.0000	0.0540	108	0.0577	115	29-150	6.6	24	
m&p-Xylene	0.100	0.0000	0.106	106	0.111	111	24-151	4.1	23	
o-Xylene	0.0500	0.0000	0.0554	111	0.0576	115	32-151	4.0	23	
Styrene	0.0500	0.0000	0.0576	115	0.0595	119	38-149	3.2	23	
Bromoform	0.0500	0.0000	0.0538	108	0.0558	112	38-152	3.6	20	
Isopropylbenzene	0.0500	0.0000	0.0525	105	0.0556	111	35-147	5.7	25	
Bromobenzene	0.0500	0.0000	0.0489	97.8	0.0517	103	37-147	5.6	23	
1,1,2,2-Tetrachloroethane	0.0500	0.0000	0.0514	103	0.0543	109	49-149	5.5	22	
1,2,3-Trichloropropane	0.0500	0.0000	0.0465	93.0	0.0497	99.4	48-148	6.6	23	
n-Propylbenzene	0.0500	0.0000	0.0518	104	0.0548	110	26-150	5.8	25	
2-Chlorotoluene	0.0500	0.0000	0.0516	103	0.0547	109	35-147	6.0	24	
4-Chlorotoluene	0.0500	0.0000	0.0514	103	0.0534	107	33-147	3.8	25	
1,3,5-Trimethylbenzene	0.0500	0.0000	0.0522	104	0.0552	110	33-149	5.7	26	
tert-Butylbenzene	0.0500	0.0000	0.0536	107	0.0564	113	36-149	5.1	26	
1,2,4-Trimethylbenzene	0.0500	0.0000	0.0505	101	0.0542	108	29-153	7.2	27	
sec-Butylbenzene	0.0500	0.0000	0.0521	104	0.0551	110	32-149	5.7	26	
1,3-Dichlorobenzene	0.0500	0.0000	0.0529	106	0.0553	111	32-148	4.4	24	
p-Isopropyltoluene	0.0500	0.0000	0.0539	108	0.0572	114	28-151	5.8	27	
1,4-Dichlorobenzene	0.0500	0.0000	0.0504	101	0.0510	102	32-136	1.1	23	
1,2,3-Trimethylbenzene	0.0500	0.0000	0.0498	99.6	0.0502	100	36-141	0.7	25	
1,2-Dichlorobenzene	0.0500	0.0000	0.0510	102	0.0517	103	40-139	1.2	23	
n-Butylbenzene	0.0500	0.0000	0.0511	102	0.0514	103	22-151	0.7	29	
1,2-Dibromo-3-Chloropropane	0.0500	0.0000	0.0503	101	0.0499	99.7	37-148	0.8	27	
1,2,4-Trichlorobenzene	0.0500	0.0000	0.0533	107	0.0528	106	27-142	1.1	30	
Hexachloro-1,3-butadiene	0.0500	0.0000	0.0532	106	0.0532	106	28-144	0.0	33	
Naphthalene	0.0500	0.0000	0.0500	100	0.0518	104	24-160	3.4	37	
1,2,3-Trichlorobenzene	0.0500	0.0000	0.0508	102	0.0524	105	32-143	3.0	33	





# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Analysis Date: 11/8/2008

EPA ID: TN00003

Instrument ID: VOCMS20

Analytic Batch: WG392914

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Dichlorodifluoromethane	0.0500	0.0564	113	0.0533	107	39-189		5.7	24
Chloromethane	0.0500	0.0576	115	0.0547	109	45-152		5.2	20
Vinyl chloride	0.0500	0.0614	123	0.0581	116	55-153		5.6	20
Bromomethane	0.0500	0.0605	121	0.0585	117	45-175		3.3	20
Chloroethane	0.0500	0.0578	116	0.0562	112	49-155		2.8	20
Trichlorofluoromethane	0.0500	0.0559	112	0.0546	109	54-156		2.4	20
Acrolein	0.250	0.466	186	0.486	194	6-182	J4	4.2	39
1,1-Dichloroethene	0.0500	0.0544	109	0.0536	107	60-130		1.5	20
1,1,2-Trichloro-1,2,2-Acetone	0.0500	0.0651	130	0.0636	127	51-149		2.3	20
Acetone	0.250	0.237	94.8	0.235	94.2	48-134		0.7	20
Methylene Chloride	0.0500	0.0560	112	0.0538	108	64-125		4.0	20
Acrylonitrile	0.250	0.304	122	0.303	121	60-140		0.4	20
trans-1,2-Dichloroethene	0.0500	0.0581	116	0.0575	115	67-129		1.0	20
Methyl tert-butyl ether	0.0500	0.0577	115	0.0570	114	51-142		1.3	20
1,1-Dichloroethane	0.0500	0.0570	114	0.0569	114	67-133		0.2	20
Di-isopropyl ether	0.0500	0.0606	121	0.0611	122	63-139		0.9	20
2,2-Dichloropropane	0.0500	0.0644	129	0.0646	129	46-151		0.3	20
cis-1,2-Dichloroethene	0.0500	0.0625	125	0.0619	124	72-128		0.9	20
2-Butanone (MEK)	0.250	0.276	111	0.278	111	53-132		0.4	20
Chloroform	0.0500	0.0564	113	0.0555	111	66-126		1.6	20
1,1,1-Trichloroethane	0.0500	0.0562	112	0.0552	110	67-137		1.9	20
Carbon tetrachloride	0.0500	0.0520	104	0.0509	102	64-141		2.2	20
1,1-Dichloropropene	0.0500	0.0575	115	0.0567	113	68-132		1.3	20
Benzene	0.0500	0.0580	116	0.0584	117	67-126		0.7	20
1,2-Dichloroethane	0.0500	0.0549	110	0.0548	110	63-137		0.3	20
Trichloroethene	0.0500	0.0587	117	0.0595	119	74-126		1.3	20
1,2-Dichloropropane	0.0500	0.0590	118	0.0586	117	74-122		0.6	20
Dibromomethane	0.0500	0.0541	108	0.0545	109	73-125		0.8	20
Bromodichloromethane	0.0500	0.0570	114	0.0576	115	68-133		1.2	20
2-Chloroethyl vinyl ether	0.250	0.209	83.6	0.220	88.1	0-171		5.2	27
cis-1,3-Dichloropropene	0.0500	0.0556	111	0.0577	115	73-131		3.7	20
4-Methyl-2-pentanone	0.250	0.262	105	0.272	109	60-142		4.0	20
Toluene	0.0500	0.0524	105	0.0546	109	72-122		4.1	20
trans-1,3-Dichloropropene	0.0500	0.0469	93.9	0.0487	97.4	66-137		3.7	20
1,1,2-Trichloroethane	0.0500	0.0508	102	0.0502	100	79-123		1.2	20



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01, -02

Analysis Date: 11/8/2008

EPA ID: TN00003

Instrument ID: VOCMS20

Analytic Batch: WG392914

#### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Tetrachloroethene	0.0500	0.0518	104	0.0503	101	67-135	2.9	20	
1,3-Dichloropropane	0.0500	0.0540	108	0.0545	109	77-119	0.9	20	
Chlorodibromomethane	0.0500	0.0543	109	0.0539	108	73-138	0.7	20	
1,2-Dibromoethane	0.0500	0.0547	109	0.0534	107	75-126	2.3	20	
Chlorobenzene	0.0500	0.0548	110	0.0540	108	77-125	1.4	20	
1,1,1,2-Tetrachloroethane	0.0500	0.0556	111	0.0531	106	75-134	4.6	20	
Ethylbenzene	0.0500	0.0557	111	0.0547	109	76-129	1.9	20	
m&p-Xylene	0.100	0.106	106	0.104	104	74-128	1.5	20	
o-Xylene	0.0500	0.0560	112	0.0549	110	78-128	1.9	20	
Styrene	0.0500	0.0581	116	0.0577	115	78-130	0.7	20	
Bromoform	0.0500	0.0568	114	0.0545	109	60-139	4.1	20	
Isopropylbenzene	0.0500	0.0526	105	0.0514	103	73-132	2.3	20	
Bromobenzene	0.0500	0.0518	104	0.0500	100	76-123	3.6	20	
1,1,2,2-Tetrachloroethane	0.0500	0.0504	101	0.0501	100	72-128	0.7	20	
1,2,3-Trichloropropane	0.0500	0.0495	99.0	0.0484	96.7	68-130	2.3	20	
n-Propylbenzene	0.0500	0.0510	102	0.0503	101	71-132	1.5	20	
2-Chlorotoluene	0.0500	0.0527	105	0.0517	103	74-128	2.0	20	
4-Chlorotoluene	0.0500	0.0519	104	0.0507	101	74-130	2.3	20	
1,3,5-Trimethylbenzene	0.0500	0.0532	106	0.0516	103	73-134	3.0	20	
tert-Butylbenzene	0.0500	0.0527	105	0.0517	103	72-134	2.0	20	
1,2,4-Trimethylbenzene	0.0500	0.0526	105	0.0507	101	72-135	3.6	20	
sec-Butylbenzene	0.0500	0.0525	105	0.0502	100	70-135	4.5	20	
1,3-Dichlorobenzene	0.0500	0.0532	106	0.0518	104	73-131	2.7	20	
p-Isopropyltoluene	0.0500	0.0537	107	0.0521	104	68-138	3.1	20	
1,4-Dichlorobenzene	0.0500	0.0480	96.1	0.0484	96.7	70-121	0.6	20	
1,2,3-Trimethylbenzene	0.0500	0.0489	97.8	0.0492	98.4	70-127	0.5	20	
1,2-Dichlorobenzene	0.0500	0.0500	99.9	0.0504	101	75-122	0.9	20	
n-Butylbenzene	0.0500	0.0457	91.5	0.0468	93.7	63-142	2.4	20	
1,2-Dibromo-3-Chloropropane	0.0500	0.0483	96.5	0.0481	96.3	55-134	0.3	20	
1,2,4-Trichlorobenzene	0.0500	0.0480	96.1	0.0478	95.6	65-137	0.5	20	
Hexachloro-1,3-butadiene	0.0500	0.0496	99.1	0.0491	98.3	67-135	0.9	20	
Naphthalene	0.0500	0.0485	97.0	0.0494	98.8	56-145	1.8	20	
1,2,3-Trichlorobenzene	0.0500	0.0482	96.4	0.0492	98.4	63-138	2.1	20	



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Number: L373794-01

Analysis Date: 11/10/2008

EPA ID: TN00003

Instrument ID: VOCGCMS5

Analytic Batch: WG392986

### Laboratory Control Sample/ Laboratory Control Sample Duplicate

Analyte	Spike	LCS	% Rec	LCSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Tetrachloroethene	0.0500	0.0523	105	0.0505	101	67-135	3.5	20	

### Matrix Spike/Matrix Spike Duplicate

L373779-27

Analyte	Spike Value	Sample	MS	% Rec	MSD	% Rec	Control Limits	Qualifier RPD	% Control Limits	Control Qualifier
Tetrachloroethene	0.0500	0.0000	0.0363	72.7	0.0357	71.5	13-157	1.7	24	



# Environmental Science Corporation

## Quality Control Summary Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Date: 11/6/2008

Analysis Date: 11/8/2008

Instrument ID: VOCMS20

Analyst: 126

Analytic Batch: WG392914

EPA ID: TN00003

### Internal Standard Response and Retention Time Summary

FileID: 1108\_02.D

Date: 11/8/2008

Time: 3:56 PM

	IS1		IS2		IS3		IS4	
	Response	RT	Response	RT	Response	RT	Response	RT
12 Hour Std	401354	5.95	623220	6.43	84751	8.68	379450	12.16
Upper Limit	802708	6.45	1246440	6.93	169502	9.18	758900	12.66
Lower Limit	200677	5.45	311610	5.93	42375.5	8.18	189725	11.66

Sample ID	Response	RT	Response	RT	Response	RT	Response	RT
Blank WG392914	374708	5.96	591435	6.43	78075	8.68	364709	12.16
L373794-01	344694	5.96	542758	6.43	72786	8.68	345321	12.16
L373794-02	340600	5.96	541253	6.43	73047	8.69	338772	12.16
LCS WG392914	398190	5.96	629677	6.43	83887	8.68	394061	12.16
LCSD WG392914	401072	5.96	624351	6.43	87059	8.69	390723	12.16
MS WG392914	397023	5.96	617147	6.43	88156	8.68	386631	12.16
MSD WG392914	386953	5.96	605100	6.43	82307	8.68	377401	12.16



# Environmental Science Corporation

## Quality Control Summary

### Ninyo and Moore - Las Vegas

Test: Volatile Organic Compounds by Method 8260B

L373794

Matrix: Water - mg/L

Project: 302556002 3761 N. Stephanie St

Project No: 302556002

Login No: L373794

Sample Date: 11/6/2008

Analysis Date: 11/10/2008

Instrument ID: VOCGCMS5

Analyst: 366

Analytic Batch: WG392986

EPA ID: TN00003

#### Internal Standard Response and Retention Time Summary

FileID: 1109\_31.D

Date: 11/9/2008

Time: 9:05 PM

	IS1		IS2		IS3		IS4	
	Response	RT	Response	RT	Response	RT	Response	RT
12 Hour Std	369527	5.38	582616	5.84	284762	7.52	166985	10.99
Upper Limit	739054	5.88	1165232	6.34	569524	8.02	333970	11.49
Lower Limit	184763.5	4.88	291308	5.34	142381	7.02	83492.5	10.49

Sample ID	Response	RT	Response	RT	Response	RT	Response	RT
Blank WG392986	319274	5.37	486966	5.83	243391	7.52	149602	10.99
L373794-01	325377	5.37	500515	5.83	250597	7.53	151871	11
LCS WG392986	358122	5.38	552830	5.84	265007	7.52	160222	10.99
LCSD WG392986	367006	5.37	581598	5.83	280828	7.53	166993	11
MS WG392986	367116	5.37	578459	5.84	270936	7.53	171175	11
MSD WG392986	336199	5.37	530723	5.84	258370	7.52	153805	11



**ENVIRONMENTAL  
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Est. 1970

Ninyo and Moore - Las Vegas  
Mark Gray  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

Quality Assurance Report  
Level II  
L373794

January 12, 2009

Analyte	Result	Laboratory Units	Blank % Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1,1-Trichloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1,2-Trichloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1-Dichloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,1-Dichloroethene	< .001	mg/l			WG392914	11/08/08 18:44
1,1-Dichloropropene	< .001	mg/l			WG392914	11/08/08 18:44
1,2,3-Trichlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,2,3-Trichloropropane	< .001	mg/l			WG392914	11/08/08 18:44
1,2,3-Trimethylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,2,4-Trichlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,2,4-Trimethylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG392914	11/08/08 18:44
1,2-Dibromoethane	< .001	mg/l			WG392914	11/08/08 18:44
1,2-Dichlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,2-Dichloroethane	< .001	mg/l			WG392914	11/08/08 18:44
1,2-Dichloropropane	< .001	mg/l			WG392914	11/08/08 18:44
1,3,5-Trimethylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,3-Dichlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
1,3-Dichloropropane	< .001	mg/l			WG392914	11/08/08 18:44
1,4-Dichlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
2,2-Dichloropropane	< .001	mg/l			WG392914	11/08/08 18:44
2-Butanone (MEK)	< .01	mg/l			WG392914	11/08/08 18:44
2-Chloroethyl vinyl ether	< .001	mg/l			WG392914	11/08/08 18:44
2-Chlorotoluene	< .001	mg/l			WG392914	11/08/08 18:44
4-Chlorotoluene	< .001	mg/l			WG392914	11/08/08 18:44
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG392914	11/08/08 18:44
Acetone	< .05	mg/l			WG392914	11/08/08 18:44
Acrolein	< .05	mg/l			WG392914	11/08/08 18:44
Acrylonitrile	< .01	mg/l			WG392914	11/08/08 18:44
Benzene	< .001	mg/l			WG392914	11/08/08 18:44
Bromobenzene	< .001	mg/l			WG392914	11/08/08 18:44
Bromodichloromethane	< .001	mg/l			WG392914	11/08/08 18:44
Bromoform	< .001	mg/l			WG392914	11/08/08 18:44
Bromomethane	< .005	mg/l			WG392914	11/08/08 18:44
Carbon tetrachloride	< .001	mg/l			WG392914	11/08/08 18:44
Chlorobenzene	< .001	mg/l			WG392914	11/08/08 18:44
Chlorodibromomethane	< .001	mg/l			WG392914	11/08/08 18:44
Chloroethane	< .001	mg/l			WG392914	11/08/08 18:44
Chloroform	< .005	mg/l			WG392914	11/08/08 18:44
Chloromethane	< .001	mg/l			WG392914	11/08/08 18:44
cis-1,2-Dichloroethene	< .001	mg/l			WG392914	11/08/08 18:44
cis-1,3-Dichloropropene	< .001	mg/l			WG392914	11/08/08 18:44
Di-isopropyl ether	< .001	mg/l			WG392914	11/08/08 18:44
Dibromomethane	< .001	mg/l			WG392914	11/08/08 18:44
Dichlorodifluoromethane	< .005	mg/l			WG392914	11/08/08 18:44
Ethylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
Hexachloro-1,3-butadiene	< .001	mg/l			WG392914	11/08/08 18:44
Isopropylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
Methyl tert-butyl ether	< .001	mg/l			WG392914	11/08/08 18:44
Methylene Chloride	< .005	mg/l			WG392914	11/08/08 18:44
n-Butylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
n-Propylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
Naphthalene	< .005	mg/l			WG392914	11/08/08 18:44
p-Isopropyltoluene	< .001	mg/l			WG392914	11/08/08 18:44
sec-Butylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
Styrene	< .001	mg/l			WG392914	11/08/08 18:44

\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



**ENVIRONMENTAL  
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Est. 1970

Ninyo and Moore - Las Vegas  
Mark Gray  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

Quality Assurance Report  
Level II  
L373794

January 12, 2009

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
tert-Butylbenzene	< .001	mg/l			WG392914	11/08/08 18:44
Tetrachloroethene	< .001	mg/l			WG392914	11/08/08 18:44
Toluene	< .005	mg/l			WG392914	11/08/08 18:44
trans-1,2-Dichloroethene	< .001	mg/l			WG392914	11/08/08 18:44
trans-1,3-Dichloropropene	< .001	mg/l			WG392914	11/08/08 18:44
Trichloroethene	< .001	mg/l			WG392914	11/08/08 18:44
Trichlorofluoromethane	< .005	mg/l			WG392914	11/08/08 18:44
Vinyl chloride	< .001	mg/l			WG392914	11/08/08 18:44
Xylenes, Total	< .003	mg/l			WG392914	11/08/08 18:44
4-Bromofluorobenzene		% Rec.	107.9	75-128	WG392914	11/08/08 18:44
Dibromofluoromethane		% Rec.	102.0	79-125	WG392914	11/08/08 18:44
Toluene-d8		% Rec.	102.4	87-114	WG392914	11/08/08 18:44
a,a,a-Trifluorotoluene		% Rec.	104.6	84-114	WG392914	11/08/08 18:44
Tetrachloroethene	< .001	mg/l			WG392986	11/10/08 00:00
4-Bromofluorobenzene		% Rec.	98.20	75-128	WG392986	11/10/08 00:00
Dibromofluoromethane		% Rec.	94.83	79-125	WG392986	11/10/08 00:00
Toluene-d8		% Rec.	97.15	87-114	WG392986	11/10/08 00:00
a,a,a-Trifluorotoluene		% Rec.	100.4	84-114	WG392986	11/10/08 00:00
Corrosivity	7.20				WG392860	11/10/08 16:13
Reactive Sulf. (SW846 7.3.4.1)	< 25	mg/l			WG393783	11/14/08 10:00

Analyte	Units	Duplicate			Limit	Ref Samp	Batch
		Result	Duplicate	RPD			
Corrosivity		7.60	7.40	2.67	20	L373794-03	WG392860
Flashpoint	deg F	0.00	0.00	0.00	20	L373445-01	WG393357
Reactive CN (SW846 7.3.3.2)	mg/l	0.00	0.00	0.00	20	L373794-03	WG393785
Reactive Sulf. (SW846 7.3.4.1)	mg/l	0.00	0.00	0.00	20	L373794-03	WG393783

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,1,2-Tetrachloroethane	mg/l	.05	0.0556	111.	75-134	WG392914
1,1,1-Trichloroethane	mg/l	.05	0.0562	112.	67-137	WG392914
1,1,2,2-Tetrachloroethane	mg/l	.05	0.0504	101.	72-128	WG392914
1,1,2-Trichloroethane	mg/l	.05	0.0508	102.	79-123	WG392914
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.05	0.0651	130.	51-149	WG392914
1,1-Dichloroethane	mg/l	.05	0.0570	114.	67-133	WG392914
1,1-Dichloroethene	mg/l	.05	0.0544	109.	60-130	WG392914
1,1-Dichloropropene	mg/l	.05	0.0575	115.	68-132	WG392914
1,2,3-Trichlorobenzene	mg/l	.05	0.0482	96.4	63-138	WG392914
1,2,3-Trichloropropane	mg/l	.05	0.0495	99.0	68-130	WG392914
1,2,3-Trimethylbenzene	mg/l	.05	0.0489	97.8	70-127	WG392914
1,2,4-Trichlorobenzene	mg/l	.05	0.0480	96.1	65-137	WG392914
1,2,4-Trimethylbenzene	mg/l	.05	0.0526	105.	72-135	WG392914
1,2-Dibromo-3-Chloropropane	mg/l	.05	0.0483	96.5	55-134	WG392914

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Tax I.D. 62-0814289

Est. 1970

Ninyo and Moore - Las Vegas  
Mark Gray  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

**Quality Assurance Report  
Level II**

January 12, 2009

L373794

Analyte	Laboratory Control		Sample Result	% Rec	Limit	Batch
	Units	Known Val				
1,2-Dibromoethane	mg/l	.05	0.0547	109.	75-126	WG392914
1,2-Dichlorobenzene	mg/l	.05	0.0500	99.9	75-122	WG392914
1,2-Dichloroethane	mg/l	.05	0.0549	110.	63-137	WG392914
1,2-Dichloropropane	mg/l	.05	0.0590	118.	74-122	WG392914
1,3,5-Trimethylbenzene	mg/l	.05	0.0532	106.	73-134	WG392914
1,3-Dichlorobenzene	mg/l	.05	0.0532	106.	73-131	WG392914
1,3-Dichloropropane	mg/l	.05	0.0540	108.	77-119	WG392914
1,4-Dichlorobenzene	mg/l	.05	0.0480	96.1	70-121	WG392914
2,2-Dichloropropane	mg/l	.05	0.0644	129.	46-151	WG392914
2-Butanone (MEK)	mg/l	.25	0.276	111.	53-132	WG392914
2-Chloroethyl vinyl ether	mg/l	.25	0.209	83.6	0-171	WG392914
2-Chlorotoluene	mg/l	.05	0.0527	105.	74-128	WG392914
4-Chlorotoluene	mg/l	.05	0.0519	104.	74-130	WG392914
4-Methyl-2-pentanone (MIBK)	mg/l	.25	0.262	105.	60-142	WG392914
Acetone	mg/l	.25	0.237	94.8	48-134	WG392914
Acrolein	mg/l	.25	0.466	186.*	6-182	WG392914
Acrylonitrile	mg/l	.25	0.304	122.	60-140	WG392914
Benzene	mg/l	.05	0.0580	116.	67-126	WG392914
Bromobenzene	mg/l	.05	0.0518	104.	76-123	WG392914
Bromodichloromethane	mg/l	.05	0.0570	114.	68-133	WG392914
Bromoform	mg/l	.05	0.0568	114.	60-139	WG392914
Bromomethane	mg/l	.05	0.0605	121.	45-175	WG392914
Carbon tetrachloride	mg/l	.05	0.0520	104.	64-141	WG392914
Chlorobenzene	mg/l	.05	0.0548	110.	77-125	WG392914
Chlorodibromomethane	mg/l	.05	0.0543	109.	73-138	WG392914
Chloroethane	mg/l	.05	0.0578	116.	49-155	WG392914
Chloroform	mg/l	.05	0.0564	113.	66-126	WG392914
Chloromethane	mg/l	.05	0.0576	115.	45-152	WG392914
cis-1,2-Dichloroethene	mg/l	.05	0.0625	125.	72-128	WG392914
cis-1,3-Dichloropropene	mg/l	.05	0.0556	111.	73-131	WG392914
Di-isopropyl ether	mg/l	.05	0.0606	121.	63-139	WG392914
Dibromomethane	mg/l	.05	0.0541	108.	73-125	WG392914
Dichlorodifluoromethane	mg/l	.05	0.0564	113.	39-189	WG392914
Ethylbenzene	mg/l	.05	0.0557	111.	76-129	WG392914
Hexachloro-1,3-butadiene	mg/l	.05	0.0496	99.1	67-135	WG392914
Isopropylbenzene	mg/l	.05	0.0526	105.	73-132	WG392914
Methyl tert-butyl ether	mg/l	.05	0.0577	115.	51-142	WG392914
Methylene Chloride	mg/l	.05	0.0560	112.	64-125	WG392914
n-Butylbenzene	mg/l	.05	0.0457	91.5	63-142	WG392914
n-Propylbenzene	mg/l	.05	0.0510	102.	71-132	WG392914
Naphthalene	mg/l	.05	0.0485	97.0	56-145	WG392914
p-Isopropyltoluene	mg/l	.05	0.0537	107.	68-138	WG392914
sec-Butylbenzene	mg/l	.05	0.0525	105.	70-135	WG392914
Styrene	mg/l	.05	0.0581	116.	78-130	WG392914
tert-Butylbenzene	mg/l	.05	0.0527	105.	72-134	WG392914
Tetrachloroethene	mg/l	.05	0.0518	104.	67-135	WG392914
Toluene	mg/l	.05	0.0524	105.	72-122	WG392914
trans-1,2-Dichloroethene	mg/l	.05	0.0581	116.	67-129	WG392914
trans-1,3-Dichloropropene	mg/l	.05	0.0469	93.9	66-137	WG392914
Trichloroethene	mg/l	.05	0.0587	117.	74-126	WG392914
Trichlorofluoromethane	mg/l	.05	0.0559	112.	54-156	WG392914
Vinyl chloride	mg/l	.05	0.0614	123.	55-153	WG392914
Xylenes, Total	mg/l	.15	0.162	108.	75-128	WG392914
4-Bromofluorobenzene				104.1	75-128	WG392914
Dibromofluoromethane				105.5	79-125	WG392914
Toluene-d8				100.3	87-114	WG392914
a,a,a-Trifluorotoluene				101.6	84-114	WG392914

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Quality Assurance Report  
Level II  
L373794

January 12, 2009

Analyte	Laboratory Control		Sample Result	% Rec	Limit	Batch
	Units	Known Val				
Tetrachloroethene	mg/l	.05	0.0523	105.	67-135	WG392986
4-Bromofluorobenzene				100.6	75-128	WG392986
Dibromofluoromethane				99.85	79-125	WG392986
Toluene-d8				95.88	87-114	WG392986
a,a,a-Trifluorotoluene				100.5	84-114	WG392986
Corrosivity		7.42	7.40	99.7	97.19-102	WG392860
Flashpoint	deg F	82	81.0	98.8	96-103	WG393357
Reactive Sulf.(SW846 7.3.4.1)	mg/l	100	96.0	96.0	70-130	WG393783

Analyte	Laboratory Control		Sample Duplicate	%Rec	Limit	RPD	Limit	Batch
	Units	Result Ref						
1,1,1,2-Tetrachloroethane	mg/l	0.053	0.055	106.	75-134	4.58	20	WG392914
1,1,1-Trichloroethane	mg/l	0.055	0.056	110.	67-137	1.89	20	WG392914
1,1,2,2-Tetrachloroethane	mg/l	0.050	0.050	100.	72-128	0.673	20	WG392914
1,1,2-Trichloroethane	mg/l	0.050	0.050	100.	79-123	1.22	20	WG392914
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.063	0.065	127.	51-149	2.32	20	WG392914
1,1-Dichloroethane	mg/l	0.056	0.057	114.	67-133	0.199	20	WG392914
1,1-Dichloroethene	mg/l	0.053	0.054	107.	60-130	1.48	20	WG392914
1,1-Dichloropropene	mg/l	0.056	0.057	113.	68-132	1.26	20	WG392914
1,2,3-Trichlorobenzene	mg/l	0.049	0.048	98.0	63-138	2.05	20	WG392914
1,2,3-Trichloropropane	mg/l	0.048	0.049	97.0	68-130	2.28	20	WG392914
1,2,3-Trimethylbenzene	mg/l	0.049	0.048	98.0	70-127	0.521	20	WG392914
1,2,4-Trichlorobenzene	mg/l	0.047	0.048	96.0	65-137	0.519	20	WG392914
1,2,4-Trimethylbenzene	mg/l	0.050	0.052	101.	72-135	3.64	20	WG392914
1,2-Dibromo-3-Chloropropane	mg/l	0.048	0.048	96.0	55-134	0.275	20	WG392914
1,2-Dibromoethane	mg/l	0.053	0.054	107.	75-126	2.34	20	WG392914
1,2-Dichlorobenzene	mg/l	0.050	0.050	101.	75-122	0.930	20	WG392914
1,2-Dichloroethane	mg/l	0.054	0.054	110.	63-137	0.262	20	WG392914
1,2-Dichloropropane	mg/l	0.058	0.059	117.	74-122	0.594	20	WG392914
1,3,5-Trimethylbenzene	mg/l	0.051	0.053	103.	73-134	2.95	20	WG392914
1,3-Dichlorobenzene	mg/l	0.051	0.053	104.	73-131	2.66	20	WG392914
1,3-Dichloropropane	mg/l	0.054	0.054	109.	77-119	0.946	20	WG392914
1,4-Dichlorobenzene	mg/l	0.048	0.048	97.0	70-121	0.639	20	WG392914
2,2-Dichloropropane	mg/l	0.064	0.064	129.	46-151	0.256	20	WG392914
2-Butanone (MEK)	mg/l	0.278	0.276	111.	53-132	0.416	20	WG392914
2-Chloroethyl vinyl ether	mg/l	0.220	0.209	88.0	0-171	5.22	27	WG392914
2-Chlorotoluene	mg/l	0.051	0.052	103.	74-128	1.95	20	WG392914
4-Chlorotoluene	mg/l	0.050	0.051	101.	74-130	2.27	20	WG392914
4-Methyl-2-pentanone (MIBK)	mg/l	0.272	0.262	109.	60-142	3.99	20	WG392914
Acetone	mg/l	0.235	0.237	94.0	48-134	0.667	20	WG392914
Acrolein	mg/l	0.486	0.466	194*	6-182	4.20	39	WG392914
Acrylonitrile	mg/l	0.303	0.304	121.	60-140	0.401	20	WG392914
Benzene	mg/l	0.058	0.058	117.	67-126	0.667	20	WG392914
Bromobenzene	mg/l	0.050	0.051	100.	76-123	3.59	20	WG392914
Bromodichloromethane	mg/l	0.057	0.057	115.	68-133	1.18	20	WG392914
Bromoform	mg/l	0.054	0.056	109.	60-139	4.14	20	WG392914
Bromomethane	mg/l	0.058	0.060	117.	45-175	3.31	20	WG392914
Carbon tetrachloride	mg/l	0.050	0.052	102.	64-141	2.16	20	WG392914
Chlorobenzene	mg/l	0.054	0.054	108.	77-125	1.40	20	WG392914
Chlorodibromomethane	mg/l	0.053	0.054	108.	73-138	0.733	20	WG392914

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**Quality Assurance Report  
Level II**

L373794

January 12, 2009

Analyte	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
	Units	Result	Ref	%Rec				
Chloroethane	mg/l	0.056	0.057	112.	49-155	2.81	20	WG392914
Chloroform	mg/l	0.055	0.056	111.	66-126	1.55	20	WG392914
Chloromethane	mg/l	0.054	0.057	109.	45-152	5.19	20	WG392914
cis-1,2-Dichloroethene	mg/l	0.061	0.062	124.	72-128	0.932	20	WG392914
cis-1,3-Dichloropropene	mg/l	0.057	0.055	115.	73-131	3.71	20	WG392914
Di-isopropyl ether	mg/l	0.061	0.060	122.	63-139	0.855	20	WG392914
Dibromomethane	mg/l	0.054	0.054	109.	73-125	0.821	20	WG392914
Dichlorodifluoromethane	mg/l	0.053	0.056	107.	39-189	5.66	24	WG392914
Ethylbenzene	mg/l	0.054	0.055	109.	76-129	1.86	20	WG392914
Hexachloro-1,3-butadiene	mg/l	0.049	0.049	98.0	67-135	0.858	20	WG392914
Isopropylbenzene	mg/l	0.051	0.052	103.	73-132	2.27	20	WG392914
Methyl tert-butyl ether	mg/l	0.057	0.057	114.	51-142	1.31	20	WG392914
Methylene Chloride	mg/l	0.053	0.056	108.	64-125	3.96	20	WG392914
n-Butylbenzene	mg/l	0.046	0.045	94.0	63-142	2.40	20	WG392914
n-Propylbenzene	mg/l	0.050	0.051	101.	71-132	1.47	20	WG392914
Naphthalene	mg/l	0.049	0.048	99.0	56-145	1.83	20	WG392914
p-Isopropyltoluene	mg/l	0.052	0.053	104.	68-138	3.14	20	WG392914
sec-Butylbenzene	mg/l	0.050	0.052	100.	70-135	4.53	20	WG392914
Styrene	mg/l	0.057	0.058	115.	78-130	0.710	20	WG392914
tert-Butylbenzene	mg/l	0.051	0.052	103.	72-134	1.98	20	WG392914
Tetrachloroethene	mg/l	0.050	0.051	101.	67-135	2.94	20	WG392914
Toluene	mg/l	0.054	0.052	109.	72-122	4.08	20	WG392914
trans-1,2-Dichloroethene	mg/l	0.057	0.058	115.	67-129	0.997	20	WG392914
trans-1,3-Dichloropropene	mg/l	0.048	0.046	97.0	66-137	3.65	20	WG392914
Trichloroethene	mg/l	0.059	0.058	119.	74-126	1.28	20	WG392914
Trichlorofluoromethane	mg/l	0.054	0.055	109.	54-156	2.39	20	WG392914
Vinyl chloride	mg/l	0.058	0.061	116.	55-153	5.55	20	WG392914
Xylenes, Total	mg/l	0.159	0.162	106.	75-128	1.63	20	WG392914
4-Bromofluorobenzene				102.5	75-128			WG392914
Dibromofluoromethane				102.6	79-125			WG392914
Toluene-d8				101.7	87-114			WG392914
a,a,a-Trifluorotoluene				103.9	84-114			WG392914
Tetrachloroethene	mg/l	0.050	0.052	101.	67-135	3.46	20	WG392986
4-Bromofluorobenzene				99.05	75-128			WG392986
Dibromofluoromethane				98.35	79-125			WG392986
Toluene-d8				91.07	87-114			WG392986
a,a,a-Trifluorotoluene				98.00	84-114			WG392986
Corrosivity		7.50	7.40	101.	97.19-1	1.34	20	WG392860
Flashpoint	deg F	83.0	81.0	101.	96-103	2.44	7	WG393357
Reactive Sulf. (SW846 7.3.4.1)	mg/l	96.0	96.0	96.0	70-130	0.00	20	WG393783

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
1,1,1,2-Tetrachloroethane	mg/l	0.052	0.00	.05	104.	45-152	L373782-06	WG392914
1,1,1-Trichloroethane	mg/l	0.058	0.00	.05	117.	31-161	L373782-06	WG392914
1,1,2,2-Tetrachloroethane	mg/l	0.051	0.00	.05	103.	49-149	L373782-06	WG392914
1,1,2-Trichloroethane	mg/l	0.048	0.00	.05	96.1	46-145	L373782-06	WG392914
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.070	0.00	.05	140.	14-168	L373782-06	WG392914
1,1-Dichloroethane	mg/l	0.058	0.00	.05	117.	30-159	L373782-06	WG392914

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**Quality Assurance Report  
Level II**

Las Vegas, NV 89119

L373794

January 12, 2009

Analyte	Units	Matrix Spike			% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res	TV				
1,1-Dichloroethene	mg/l	0.057	0.00	.05	116.	10-162	L373782-06	WG392914
1,1-Dichloropropene	mg/l	0.059	0.00	.05	120.	14-162	L373782-06	WG392914
1,2,3-Trichlorobenzene	mg/l	0.050	0.00	.05	102.	32-143	L373782-06	WG392914
1,2,3-Trichloropropane	mg/l	0.046	0.00	.05	93.0	48-148	L373782-06	WG392914
1,2,3-Trimethylbenzene	mg/l	0.049	0.00	.05	99.6	36-141	L373782-06	WG392914
1,2,4-Trichlorobenzene	mg/l	0.053	0.00	.05	107.	27-142	L373782-06	WG392914
1,2,4-Trimethylbenzene	mg/l	0.050	0.00	.05	101.	29-153	L373782-06	WG392914
1,2-Dibromo-3-Chloropropane	mg/l	0.050	0.00	.05	101.	37-148	L373782-06	WG392914
1,2-Dibromoethane	mg/l	0.052	0.00	.05	105.	41-149	L373782-06	WG392914
1,2-Dichlorobenzene	mg/l	0.051	0.00	.05	102.	40-139	L373782-06	WG392914
1,2-Dichloroethane	mg/l	0.054	0.00	.05	109.	29-167	L373782-06	WG392914
1,2-Dichloropropane	mg/l	0.061	0.00	.05	123.	39-148	L373782-06	WG392914
1,3,5-Trimethylbenzene	mg/l	0.052	0.00	.05	104.	33-149	L373782-06	WG392914
1,3-Dichlorobenzene	mg/l	0.052	0.00	.05	106.	32-148	L373782-06	WG392914
1,3-Dichloropropane	mg/l	0.051	0.00	.05	103.	44-142	L373782-06	WG392914
1,4-Dichlorobenzene	mg/l	0.050	0.00	.05	101.	32-136	L373782-06	WG392914
2,2-Dichloropropane	mg/l	0.071	0.00	.05	143.	14-158	L373782-06	WG392914
2-Butanone (MEK)	mg/l	0.292	0.00	.25	117.	32-151	L373782-06	WG392914
2-Chloroethyl vinyl ether	mg/l	0.097	0.00	.25	38.8	0-175	L373782-06	WG392914
2-Chlorotoluene	mg/l	0.051	0.00	.05	103.	35-147	L373782-06	WG392914
4-Chlorotoluene	mg/l	0.051	0.00	.05	103.	33-147	L373782-06	WG392914
4-Methyl-2-pentanone (MIBK)	mg/l	0.285	0.00	.25	114.	40-160	L373782-06	WG392914
Acetone	mg/l	0.240	0.003	.25	94.7	25-157	L373782-06	WG392914
Acrolein	mg/l	0.404	0.00	.25	162.	0-179	L373782-06	WG392914
Acrylonitrile	mg/l	0.315	0.00	.25	126.	37-162	L373782-06	WG392914
Benzene	mg/l	0.059	0.00	.05	120.	16-158	L373782-06	WG392914
Bromobenzene	mg/l	0.048	0.00	.05	97.8	37-147	L373782-06	WG392914
Bromodichloromethane	mg/l	0.058	0.00	.05	116.	45-147	L373782-06	WG392914
Bromoform	mg/l	0.053	0.00	.05	108.	38-152	L373782-06	WG392914
Bromomethane	mg/l	0.061	0.00	.05	123.	0-191	L373782-06	WG392914
Carbon tetrachloride	mg/l	0.055	0.00	.05	111.	22-168	L373782-06	WG392914
Chlorobenzene	mg/l	0.053	0.00	.05	107.	33-148	L373782-06	WG392914
Chlorodibromomethane	mg/l	0.051	0.00	.05	102.	48-151	L373782-06	WG392914
Chloroethane	mg/l	0.061	0.00	.05	122.	4-176	L373782-06	WG392914
Chloroform	mg/l	0.056	0.00	.05	114.	37-147	L373782-06	WG392914
Chloromethane	mg/l	0.061	0.00	.05	123.	10-174	L373782-06	WG392914
cis-1,2-Dichloroethene	mg/l	0.064	0.00	.05	129.	29-156	L373782-06	WG392914
cis-1,3-Dichloropropene	mg/l	0.058	0.00	.05	118.	35-148	L373782-06	WG392914
Di-isopropyl ether	mg/l	0.060	0.00	.05	120.	39-160	L373782-06	WG392914
Dibromomethane	mg/l	0.054	0.00	.05	110.	36-152	L373782-06	WG392914
Dichlorodifluoromethane	mg/l	0.060	0.00	.05	120.	0-200	L373782-06	WG392914
Ethylbenzene	mg/l	0.054	0.00	.05	108.	29-150	L373782-06	WG392914
Hexachloro-1,3-butadiene	mg/l	0.053	0.00	.05	106.	28-144	L373782-06	WG392914
Isopropylbenzene	mg/l	0.052	0.00	.05	105.	35-147	L373782-06	WG392914
Methyl tert-butyl ether	mg/l	0.056	0.00	.05	113.	24-167	L373782-06	WG392914
Methylene Chloride	mg/l	0.054	0.00	.05	110.	23-151	L373782-06	WG392914
n-Butylbenzene	mg/l	0.051	0.00	.05	102.	22-151	L373782-06	WG392914
n-Propylbenzene	mg/l	0.051	0.00	.05	104.	26-150	L373782-06	WG392914
Napthalene	mg/l	0.050	0.00	.05	100.	24-160	L373782-06	WG392914
p-Isopropyltoluene	mg/l	0.053	0.00	.05	108.	28-151	L373782-06	WG392914
sec-Butylbenzene	mg/l	0.052	0.00	.05	104.	32-149	L373782-06	WG392914
Styrene	mg/l	0.057	0.00	.05	115.	38-149	L373782-06	WG392914
tert-Butylbenzene	mg/l	0.053	0.00	.05	107.	36-149	L373782-06	WG392914
Tetrachloroethene	mg/l	0.052	0.00	.05	105.	13-157	L373782-06	WG392914
Toluene	mg/l	0.055	0.00	.05	111.	22-152	L373782-06	WG392914
trans-1,2-Dichloroethene	mg/l	0.059	0.00	.05	119.	11-160	L373782-06	WG392914
trans-1,3-Dichloropropene	mg/l	0.049	0.000	.05	98.0	33-153	L373782-06	WG392914
Trichloroethene	mg/l	0.059	0.00	.05	119.	18-163	L373782-06	WG392914

\* Performance of this Analyte is outside of established criteria.  
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Mark Gray  
6700 Paradise Rd., Suite E  
Las Vegas, NV 89119

Quality Assurance Report  
Level II  
L373794

January 12, 2009

Analyte	Matrix Spike						Limit	Ref Samp	Batch
	Units	MS Res	Ref Res	TV	% Rec				
Trichlorofluoromethane	mg/l	0.062	0.00	.05	124.	10-177	L373782-06	WG392914	
Vinyl chloride	mg/l	0.066	0.00	.05	133.	0-179	L373782-06	WG392914	
Xylenes, Total	mg/l	0.162	0.00	.15	108.	27-151	L373782-06	WG392914	
4-Bromofluorobenzene					99.30	75-128		WG392914	
Dibromofluoromethane					104.7	79-125		WG392914	
Toluene-d8					101.9	87-114		WG392914	
a,a,a-Trifluorotoluene					103.9	84-114		WG392914	
Tetrachloroethene	mg/l	0.036	0.00	.05	72.7	13-157	L373779-27	WG392986	
4-Bromofluorobenzene					101.2	75-128		WG392986	
Dibromofluoromethane					101.4	79-125		WG392986	
Toluene-d8					94.98	87-114		WG392986	
a,a,a-Trifluorotoluene					99.28	84-114		WG392986	

Analyte	Matrix Spike Duplicate						Limit	Ref Samp	Batch
	Units	MSD	Ref	%Rec	Limit	RPD			
1,1,1,2-Tetrachloroethane	mg/l	0.05	0.05	108.	45-152	4.19	21	L373782-06	WG392914
1,1,1-Trichloroethane	mg/l	0.05	0.05	119.	31-161	1.45	23	L373782-06	WG392914
1,1,1,2-Tetrachloroethane	mg/l	0.05	0.05	109.	49-149	5.45	22	L373782-06	WG392914
1,1,2-Trichloroethane	mg/l	0.05	0.04	103.	46-145	7.26	20	L373782-06	WG392914
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.07	0.07	141.	14-168	0.57	24	L373782-06	WG392914
1,1-Dichloroethane	mg/l	0.05	0.05	117.	30-159	0.08	21	L373782-06	WG392914
1,1-Dichloroethene	mg/l	0.05	0.05	116.	10-162	0.46	23	L373782-06	WG392914
1,1-Dichloropropene	mg/l	0.06	0.05	122.	14-162	1.85	23	L373782-06	WG392914
1,2,3-Trichlorobenzene	mg/l	0.05	0.05	105.	32-143	3.03	33	L373782-06	WG392914
1,2,3-Trichloropropane	mg/l	0.04	0.04	99.4	48-148	6.65	23	L373782-06	WG392914
1,2,3-Trimethylbenzene	mg/l	0.05	0.04	100.	36-141	0.71	25	L373782-06	WG392914
1,2,4-Trichlorobenzene	mg/l	0.05	0.05	106.	27-142	1.07	30	L373782-06	WG392914
1,2,4-Trimethylbenzene	mg/l	0.05	0.05	108.	29-153	7.21	27	L373782-06	WG392914
1,2-Dibromo-3-Chloropropane	mg/l	0.04	0.05	99.7	37-148	0.77	27	L373782-06	WG392914
1,2-Dibromoethane	mg/l	0.05	0.05	110.	41-149	4.64	21	L373782-06	WG392914
1,2-Dichlorobenzene	mg/l	0.05	0.05	103.	40-139	1.22	23	L373782-06	WG392914
1,2-Dichloroethane	mg/l	0.05	0.05	109.	29-167	0.26	21	L373782-06	WG392914
1,2-Dichloropropane	mg/l	0.06	0.06	121.	39-148	1.16	20	L373782-06	WG392914
1,3,5-Trimethylbenzene	mg/l	0.05	0.05	110.	33-149	5.74	26	L373782-06	WG392914
1,3-Dichlorobenzene	mg/l	0.05	0.05	111.	32-148	4.43	24	L373782-06	WG392914
1,3-Dichloropropane	mg/l	0.05	0.05	106.	44-142	3.53	20	L373782-06	WG392914
1,4-Dichlorobenzene	mg/l	0.05	0.05	102.	32-136	1.13	23	L373782-06	WG392914
2,2-Dichloropropane	mg/l	0.07	0.07	143.	14-158	0.36	23	L373782-06	WG392914
2-Butanone (MEK)	mg/l	0.29	0.29	118.	32-151	1.34	26	L373782-06	WG392914
2-Chloroethyl vinyl ether	mg/l	0.01	0.09	6.66	0-175	141.*	75	L373782-06	WG392914
2-Chlorotoluene	mg/l	0.05	0.05	109.	35-147	5.95	24	L373782-06	WG392914
4-Chlorotoluene	mg/l	0.05	0.05	107.	33-147	3.80	25	L373782-06	WG392914
4-Methyl-2-pentanone (MIBK)	mg/l	0.27	0.28	111.	40-160	2.56	28	L373782-06	WG392914
Acetone	mg/l	0.23	0.24	91.7	25-157	3.09	26	L373782-06	WG392914
Acrolein	mg/l	0.38	0.40	154.	0-179	5.01	39	L373782-06	WG392914
Acrylonitrile	mg/l	0.31	0.31	126.	37-162	0.28	24	L373782-06	WG392914
Benzene	mg/l	0.06	0.05	120.	16-158	0.59	21	L373782-06	WG392914
Bromobenzene	mg/l	0.05	0.04	103.	37-147	5.58	23	L373782-06	WG392914
Bromodichloromethane	mg/l	0.05	0.05	115.	45-147	0.81	20	L373782-06	WG392914
Bromoform	mg/l	0.05	0.05	112.	38-152	3.64	20	L373782-06	WG392914
Bromomethane	mg/l	0.06	0.06	126.	0-191	2.31	35	L373782-06	WG392914
Carbon tetrachloride	mg/l	0.05	0.05	110.	22-168	1.32	24	L373782-06	WG392914
Chlorobenzene	mg/l	0.05	0.05	112.	33-148	4.74	22	L373782-06	WG392914
Chlorodibromomethane	mg/l	0.05	0.05	106.	48-151	4.02	21	L373782-06	WG392914
Chloroethane	mg/l	0.06	0.06	126.	4-176	3.57	27	L373782-06	WG392914

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Quality Assurance Report  
Level II  
L373794

January 12, 2009

Analyte	Units	Matrix Spike Duplicate			RPD	Limit	Ref	Samp	Batch
		MSD	Ref	%Rec					
Chloroform	mg/l	0.05	0.05	113.	37-147	0.16	21	L373782-06	WG392914
Chloromethane	mg/l	0.06	0.06	122.	10-174	0.63	28	L373782-06	WG392914
cis-1,2-Dichloroethene	mg/l	0.06	0.06	128.	29-156	0.06	22	L373782-06	WG392914
cis-1,3-Dichloropropene	mg/l	0.05	0.05	116.	35-148	1.67	21	L373782-06	WG392914
Di-isopropyl ether	mg/l	0.06	0.06	120.	39-160	0.18	21	L373782-06	WG392914
Dibromomethane	mg/l	0.05	0.05	109.	36-152	0.64	20	L373782-06	WG392914
Dichlorodifluoromethane	mg/l	0.06	0.06	122.	0-200	1.78	26	L373782-06	WG392914
Ethylbenzene	mg/l	0.05	0.05	115.	29-150	6.59	24	L373782-06	WG392914
Hexachloro-1,3-butadiene	mg/l	0.05	0.05	106.	28-144	0.01	33	L373782-06	WG392914
Isopropylbenzene	mg/l	0.05	0.05	111.	35-147	5.73	25	L373782-06	WG392914
Methyl tert-butyl ether	mg/l	0.05	0.05	114.	24-167	0.57	22	L373782-06	WG392914
Methylene Chloride	mg/l	0.05	0.05	111.	23-151	0.84	21	L373782-06	WG392914
n-Butylbenzene	mg/l	0.05	0.05	103.	22-151	0.69	29	L373782-06	WG392914
n-Propylbenzene	mg/l	0.05	0.05	110.	26-150	5.75	25	L373782-06	WG392914
Naphthalene	mg/l	0.05	0.05	104.	24-160	3.39	37	L373782-06	WG392914
p-Isopropyltoluene	mg/l	0.05	0.05	114.	28-151	5.82	27	L373782-06	WG392914
sec-Butylbenzene	mg/l	0.05	0.05	110.	32-149	5.65	26	L373782-06	WG392914
Styrene	mg/l	0.05	0.05	119.	38-149	3.22	23	L373782-06	WG392914
tert-Butylbenzene	mg/l	0.05	0.05	113.	36-149	5.15	26	L373782-06	WG392914
Tetrachloroethene	mg/l	0.05	0.05	110.	13-157	3.88	24	L373782-06	WG392914
Toluene	mg/l	0.05	0.05	111.	22-152	0.58	22	L373782-06	WG392914
trans-1,2-Dichloroethene	mg/l	0.06	0.05	121.	11-160	1.22	23	L373782-06	WG392914
trans-1,3-Dichloropropene	mg/l	0.04	0.04	97.3	33-153	0.71	22	L373782-06	WG392914
Trichloroethene	mg/l	0.06	0.05	121.	18-163	1.52	21	L373782-06	WG392914
Trichlorofluoromethane	mg/l	0.06	0.06	124.	10-177	0.10	24	L373782-06	WG392914
Vinyl chloride	mg/l	0.06	0.06	134.	0-179	0.34	26	L373782-06	WG392914
Xylenes, Total	mg/l	0.16	0.16	112.	27-151	4.08	23	L373782-06	WG392914
4-Bromofluorobenzene				103.5	75-128				WG392914
Dibromofluoromethane				104.2	79-125				WG392914
Toluene-d8				100.9	87-114				WG392914
a,a,a-Trifluorotoluene				102.1	84-114				WG392914
Tetrachloroethene	mg/l	0.03	0.03	71.5	13-157	1.72	24	L373779-27	WG392986
4-Bromofluorobenzene				92.4	75-128				WG392986
Dibromofluoromethane				100.5	79-125				WG392986
Toluene-d8				91.8	87-114				WG392986
a,a,a-Trifluorotoluene				99.9	84-114				WG392986

Batch number /Run number / Sample number cross reference

WG392914: R530489: L373794-01 02  
 WG392986: R531145: L373794-01  
 WG392860: R531165: L373794-03 04  
 WG393357: R533325: L373794-03 04  
 WG393785: R534434: L373794-03 04  
 WG393783: R534490: L373794-03 04

\* \* Calculations are performed prior to rounding of reported values .  
 \* Performance of this Analyte is outside of established criteria.  
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Quality Assurance Report  
Level II

Las Vegas, NV 89119

L373794

January 12, 2009

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

**Ninyo and Moore - Las Vegas**  
 6700 Paradise Rd., Suite E  
 Las Vegas, NV 89119

Report to: **Mark Gray** Email: **mgray@ninyoandmoore.com**

Project Description: **302556002** City/State Collected: **NV**

Phone: (702) 433-0330 Client Project #: **3761 N. Stephanie St.**

FAX: (702) 433-0707 Lab Project #: **302556002**

Collected by (print): **MARK GRAY** Site/Facility ID#: **3761 N. Stephanie St.**

Collected by (signature): *[Signature]* Rush? (Lab MUST Be Notified)

Immediately Packed on Ice N    Y    X

Alternate billing information:  
 Date Results Needed: **302556002**

Matrix\* Depth Date Time

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cn/Is	Remarks/Contaminant	Sample # (lab only)
WW1-GW-1	Gb	GW		11/6/08	14:15	4	L26 QC (includes)	376191-01
WW7-GW-1	Gb	GW			14:30	2		
		GW				2		
		GW				2		
		GW				2		
		GW				2		
Temp blank	OT	GW			15:00	1	Temp blank	
WW1-GW-1	Gb	GW			14:15	2		
WW7-GW-1	Gb	GW			14:30	1		

Matrix:  SS - Soil  GW - Groundwater  WW - Waste Water  DW - Drinking Water  OT - Other

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Remarks: **WW1-GW-1 includes add. for L26 QC.**

9637 6255 2107

Samples returned via:  UPS  FedEx  Courier

Received by (Signature): *[Signature]* Date: 11/6/08 15:00

Received by (Signature): *[Signature]* Date: 11/7/08 0900

Received by (Signature): *[Signature]* Date: 11/7/08 0900

Chain of Custody  
 Page 1 of 1

C044

Prepared by:  
**ENVIRONMENTAL SCIENCE CORP.**  
 12065 Lebanon Road  
 Mt. Juliet, TN 37122  
 Phone (800) 767-5859  
 FAX (615) 758-5859

Account: **01ENV** (lab use only)  
 Telephone: **615-758-5859**  
 Cooler: **313 P262906**  
 Shipper: **EXPRESS**

Analysis/Container/Preservative	Condition	(lab use only)
V8260 20ZCr-NOPres		
V8260 40mlAmb-HCl		
Wetchem II Cr-NOPres		



# ANALYTICAL REPORT

Report Date: November 17, 2008

Mark Gray  
Ninyo & Moore  
6700 Paradise Road  
Suite E  
Las Vegas, NV 89119

Phone: 702-433-0330

E-mail: [mgray@ninyoandmoore.com](mailto:mgray@ninyoandmoore.com)

Client Project ID: **Ninyo & Moore 111108**  
DCL Workorder: **8316025**  
DCL Project Manager: Frank Smith

## Analytical Results

Sample ID: <b><u>BTR1-SWP-1M</u></b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025001	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: Illicit Drugs by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/13/2008
Analyte	ug/sample	RL (ug/sample)
Methamphetamine	<0.10	0.10

Sample ID: <b><u>BTR1-SWP-4M</u></b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025002	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: Illicit Drugs by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/13/2008
Analyte	ug/sample	RL (ug/sample)
Methamphetamine	<0.10	0.10

Sample ID: <b><u>KTN1-SWP-7M</u></b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025003	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: Illicit Drugs by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/13/2008
Analyte	ug/sample	RL (ug/sample)
Methamphetamine	<0.10	0.10

Sample ID: <b><u>KTN1-SWP-10M</u></b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025004	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: Illicit Drugs by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/13/2008
Analyte	ug/sample	RL (ug/sample)
Methamphetamine	<b>0.45</b>	0.10

Sample ID: <b><u>KTN1-SWP-13M</u></b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025005	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: Illicit Drugs by LC/MS	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/13/2008
Analyte	ug/sample	RL (ug/sample)
Methamphetamine	<0.10	0.10





# ANALYTICAL REPORT

Client Project ID: **Ninyo & Moore 111108**

DCL Workorder: **8316025**

DCL Project Manager: Frank Smith

## Analytical Results

Sample ID: <b>BTR1-SWP-3I</b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025006	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 6005	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/15/2008
Analyte	ug/sample	RL (ug/sample)
Iodine	<18	18

Sample ID: <b>BTR1-SWP-6I</b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025007	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 6005	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/15/2008
Analyte	ug/sample	RL (ug/sample)
Iodine	<18	18

Sample ID: <b>KTN1-SWP-8I</b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025008	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 6005	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/15/2008
Analyte	ug/sample	RL (ug/sample)
Iodine	<18	18

Sample ID: <b>KTN1-SWP-11I</b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025009	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 6005	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/15/2008
Analyte	ug/sample	RL (ug/sample)
Iodine	<18	18

Sample ID: <b>BTR1-SWP-2L</b>	Media: Ghost Wipe	Collected: 11/6/2008
Lab ID: 8316025010	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 7082	Sampling Parameter: Area 100 cm <sup>2</sup>	Prepared: 11/12/2008 Analyzed: 11/17/2008
Analyte	ug/sample	RL (ug/sample)
Lead	<2.5	2.5

Sample ID: <b>BTR1-SWP-5L</b>	Media: Ghost Wipe	Collected: 11/6/2008
Lab ID: 8316025011	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 7082	Sampling Parameter: Area 100 cm <sup>2</sup>	Prepared: 11/12/2008 Analyzed: 11/17/2008
Analyte	ug/sample	RL (ug/sample)
Lead	<2.5	2.5



# ANALYTICAL REPORT

Client Project ID: **Ninyo & Moore 111108**  
DCL Workorder: **8316025**  
DCL Project Manager: Frank Smith

## Analytical Results

Sample ID: <b>KTN1-SWP-9L</b>	Media: Ghost Wipe	Collected: 11/6/2008
Lab ID: 8316025012	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 7082	Sampling Parameter: Area 100 cm <sup>2</sup>	Prepared: 11/12/2008
		Analyzed: 11/17/2008
Analyte	ug/sample	RL (ug/sample)
Lead	<2.5	2.5

Sample ID: <b>KTN1-SWP-12L</b>	Media: Ghost Wipe	Collected: 11/6/2008
Lab ID: 8316025013	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 7082	Sampling Parameter: Area 100 cm <sup>2</sup>	Prepared: 11/12/2008
		Analyzed: 11/17/2008
Analyte	ug/sample	RL (ug/sample)
Lead	<2.5	2.5

Sample ID: <b>KTN1-SWP-15L</b>	Media: Ghost Wipe	Collected: 11/6/2008
Lab ID: 8316025014	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 7082	Sampling Parameter: Area 100 cm <sup>2</sup>	Prepared: 11/12/2008
		Analyzed: 11/17/2008
Analyte	ug/sample	RL (ug/sample)
Lead	<2.5	2.5

Sample ID: <b>KTN1-SWP-14I</b>	Media: Wipe	Collected: 11/6/2008
Lab ID: 8316025015	Sampling Location: 3761 N. Stephanie	Received: 11/11/2008

Method: NIOSH 6005	Sampling Parameter: Area 100 cm <sup>2</sup>	Analyzed: 11/15/2008
Analyte	ug/sample	RL (ug/sample)
Iodine	<18	18

## Report Authorization

Method: Illicit Drugs by LC/MS	
<u>Thomas Bosch</u> Analyst	<u>Thomas T. McKay</u> Peer Review

Method: NIOSH 6005	
<u>Laurie K. Jones</u> Analyst	<u>Thomas T. McKay</u> Peer Review



## ANALYTICAL REPORT

Client Project ID: **Ninyo & Moore 111108**  
DCL Workorder: **8316025**  
DCL Project Manager: Frank Smith

### Report Authorization

Method: NIOSH 7082	
<u>Rosemary Hanks</u> Analyst	<u>Kyle Kuwitzky</u> Peer Review

### Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

\*\* No result could be reported, see sample comments for details.

< This testing result is less than the numerical value.

( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

### General Lab Comments

The results provided in this report relate only to the items tested.

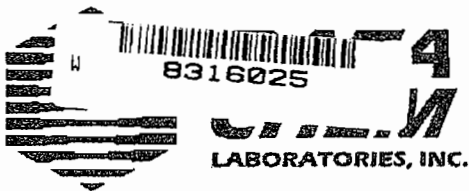
Samples were received in acceptable condition unless otherwise noted.

Samples have not been blank corrected unless otherwise noted.

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DataChem Laboratories, Inc. is accredited by AIHA for specific fields of testing as documented in its current scope of accreditation (ID#101574) which is available on request by contacting your project manager or view on the internet at <http://www.aiha.org>. The quality systems implemented in the laboratory apply to all methods performed by DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods, and methods applied to matrices not listed in the methods.

DataChem Laboratories, Inc. provides professional analytical services for all samples submitted. DataChem Laboratories, Inc. is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.



# ANALYTICAL REQUEST FORM

8316025  
23634/3757 ↓

1.  REGULAR Status  
 RUSH Status Requested - ADDITIONAL CHARGE  
 RESULTS REQUIRED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 11/6/08 Purchase Order No. 302556002 4. Quote No. \_\_\_\_\_  
 3. Company Name Ninyo & Moore DCL Project Manager \_\_\_\_\_  
 Address 6700 Paradise Rd, suite E  
L25 Vegas, NV 89119 5. Sample Collection  
 Person to Contact Mark Gray Sampling Site 3761 N. Stephanie  
 Telephone (702) 433-0330 Industrial Process \_\_\_\_\_  
 Fax Telephone (702) 433-0707 Date of Collection 11/6/08  
 E-mail Address mgray@ninyoandmoore.com Time Collected 13:00 - 13:20  
 Billing Address (if different from above) Date of Shipment 11/7/08  
 Chain of Custody No. 01  
 6. How did you first learn about DataChem? \_\_\_\_\_

### 7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	BTRI-SWP-1A	gauze	100 cm <sup>2</sup>	meth NMAM 9111 1	ug/cm <sup>2</sup>
	BTRI-SWP-2L	ghost wipe		lead NMAM 9100 3	
	BTRI-SWP-3I	gauze		iodine NMAM 6005 2	
	BTRI-SWP-4M	gauze		meth NMAM 9111 1	
	BTRI-SWP-5L	ghost wipe		lead NMAM 9100 3	
	BTRI-SWP-6I	gauze		iodine NMAM 6005 2	
	KTNL-SWP-7M	gauze		meth NMAM 9111 1	
	KTNL-SWP-8I	gauze		iodine NMAM 6005 3	
	KTNL-SWP-9L	ghost wipe		lead NMAM 9100 2	
	KTNL-SWP-10M	gauze		meth NMAM 9111 1	
	KTNL-SWP-11I	gauze		iodine NMAM 6005 3	
	KTNL-SWP-12L	ghost wipe		lead NMAM 9100 2	
	KTNL-SWP-13M	gauze		meth NMAM 9111 1	
	KTNL-SWP-14I	gauze	✓	iodine NMAM 6005 3	↓

\* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other  
 \*\* 1. µg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. µg/m<sup>3</sup> 6. X (other) Please indicate one or more units in the column entitled Units\*\*  
 Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

### 7. Chain of Custody (Optional)

Relinquished by	<u>Mark C. Gray</u>	Date/Time	<u>11/7/08 11:00</u>
Received by	<u>[Signature]</u>	Date/Time	<u>11/11/08 9:50</u>
Relinquished by	_____	Date/Time	_____
Received by	_____	Date/Time	_____



**DATA  
CHEM**  
LABORATORIES, INC.

**ANALYTICAL REQUEST FORM**

1.  REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY \_\_\_\_\_  
DATE \_\_\_\_\_

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 11/6/08 Purchase Order No. 302556002

4. Quote No. \_\_\_\_\_

3. Company Name Ninyo & Moore

DCL Project Manager \_\_\_\_\_

Address 6700 Paradise Ra., Suite E  
Las Vegas, NV 89119

5. Sample Collection

Person to Contact Mark Gray

Sampling Site 3761 X/ Stephanie

Telephone (702) 433-0330

Industrial Process \_\_\_\_\_

Fax Telephone (702) 433-0707

Date of Collection 11/6/08

E-mail Address mgray@ninyoandmoore.com

Time Collected 13:20

Billing Address (if different from above) \_\_\_\_\_

Date of Shipment 11/7/08

Chain of Custody No. 02

6. How did you first learn about DataChem? \_\_\_\_\_

**7. REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	<u>KTN1-SWP-15L</u>	<u>ghost wipe</u>	<u>100 cm<sup>2</sup></u>	<u>lead NMAM <sup>7053</sup> 6005</u>	<u>Z ug/cm<sup>2</sup></u>

\* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other  
 \*\* 1. µg/sample 2. mg/m<sup>3</sup> 3. ppm 4. % 5. µg/m<sup>3</sup> 6.  (other) Please indicate one or more units in the column entitled Units\*\*

Comments \_\_\_\_\_

Possible Contamination and/or Chemical Hazards \_\_\_\_\_

**7. Chain of Custody (Optional)**

Relinquished by	<u>Mark C Gray</u>	Date/Time	<u>11/7/08 11:00</u>
Received by	<u>[Signature]</u>	Date/Time	<u>11/11/08 9:5</u>
Relinquished by	_____	Date/Time	_____
Received by	_____	Date/Time	_____

**APPENDIX D**  
**DATA VALIDATION REPORT**

TO: Greg Beck, Ninyo & Moore

January 22, 2009

FROM: Donna Breaux, DataVal, Inc.

Ninyo & Moore Project No. 302556002

**DATA REVIEW SUMMARY REPORT FOR 3761 NORTH STEPHANIE STREET,  
PAHRUMP, NV**

**LABORATORY: Environmental Science Corporation, Mt. Juliet, TN**

**SAMPLING DATE: November 6, 2008**

Data review of a Level II laboratory data package was performed according to the guidelines outlined in the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999 and the U. S. Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004.

The data were reviewed for holding times, surrogate recoveries, laboratory method blanks, laboratory control samples, matrix spikes and matrix spike duplicates, laboratory duplicates and field QC samples.

**The following paragraphs highlight the essential findings of the data review effort:**

**I. Volatile Organic Compounds (VOCs) by GC/MS (8260B)**

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. Surrogate Recoveries

Surrogate spike recoveries met QC acceptance criteria for all project samples.

C. Blanks

Target analytes were not observed in any laboratory method blanks associated with the project samples.

D. Laboratory Control Samples

All QC criteria were met for the laboratory control samples associated with the project samples, with the following exception:

1. The percent recoveries for acrolein were outside the 6% - 182% laboratory acceptance criteria in QC samples WG392914 LCS / LCSD at 186% / 194%. The associated project samples were non-detect for acrolein, and qualification was not required. (QC Batch WG392914)

E. Matrix Spike/Matrix Spike Duplicate

All QC criteria were met for the matrix spikes and matrix spike duplicates associated with the project samples, with the following exception:

1. The relative percent difference (RPD) for 2-chloroethyl vinyl ether was outside the 75% laboratory acceptance criteria in QC samples L373782-06 MS/MSD. The parent sample was from a site unrelated to the project site, and qualification of project samples was not required. (QC Batch WG392914)

II. Various General Chemistry Methods

Overall, the data are usable as reported with any added qualifiers. Qualification was required for the reason noted in Section A.

A. Holding Times

Technical holding time criteria were met for all project samples, with the following exceptions:

1. Samples WW1-GW-1 (L373794-03) and WW7-GW-1 (L373794-04) were analyzed 4 days after sampling for pH analysis. It is recommended that samples be analyzed for pH immediately upon sampling. The results for pH in these samples were qualified as estimated (J).
2. Samples WW1-GW-1 (L373794-03) and WW7-GW-1 (L373794-04) were analyzed 1 day past the 7-day analysis holding time for reactive sulfide. The non-detect results for reactive sulfide in these samples were qualified as estimated (UJ).

See Table 2 of this report for a summary of samples qualified for missed analysis holding time.

B. Blanks

Target analytes were not observed in any laboratory method 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

Matrix spike/matrix spike duplicates were not analyzed with the project samples for general chemistry analyses.

E. Laboratory Duplicate Samples

All QC criteria were met for the laboratory duplicate samples associated with the project samples.



**FIELD DUPLICATES**

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 an RPD less than or equal to 50 percent, or the absolute difference of the two results must be less than the reporting limit for those analytes that were at or near the detection limit. One sample was collected in duplicate for this sampling event.

Project Sample Primary ID	Laboratory Sample ID	Project Sample Duplicate ID	Laboratory Sample ID
WW1-GW-1	L373794-01	WW7-GW-1	L373794-02
WW1-GW-1	L373794-03	WW7-GW-1	L373794-04

The attached Table 3 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.

**SUMMARY**

The attached Table 1 lists the samples and analyses included in the data review effort. The attached Table 2 summarizes the data qualifications required for the project samples included in the data packages.

**USABILITY**

The quality control criteria were reviewed, and other than those discussed above, all criteria were met and the data are considered acceptable. Estimated sample results (J/UJ) are usable only for limited purposes. Based upon the cursory data review, all other results are considered valid and usable for all purposes.

**VALIDATION QUALIFIERS IDENTIFICATION**

The definitions of the following qualifiers are prepared in accordance with the document "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," October 2004.

- U The analyte was analyzed for, but was not detected above the level of the reported value. The reported value is either the sample quantitation limit or the sample detection limit for all the analytes except Cyanide (CN) and Mercury (Hg).
- J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.
- R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte can not be verified.
- UJ A combination of the "U" and the "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.

**Table 1**  
**Sample Summary**  
**3761 North Stephanie Street**  
**Pahrump, Nevada**

<b>Site Sample ID</b>	<b>Laboratory Sample ID</b>	<b>Date Sampled</b>	<b>Analyses</b>	<b>Sample Type</b>
WW1-GW-1	L373794-01	6-Nov-08	Volatile Organic Compounds (8260B)	Water (1)
WW7-GW-1	L373794-02	6-Nov-08	Volatile Organic Compounds (8260B)	FD (1)
WW1-GW-1	L373794-03	6-Nov-08	General Chemistry Parameters (1, 2, 3, 4)	Water (2)
WW7-GW-1	L373794-04	6-Nov-08	General Chemistry Parameters (1, 2, 3, 4)	FD (2)

**FD:** Field duplicate of previous numbered sample, (1), (2), etc.

**General Chemistry Parameters**

- (1) Corrosivity (9040C)
- (2) Flashpoint (D93/D1010A)
- (3) Reactive Cyanide (9012B)
- (4) Reactive Sulfide (9034/9030B)

**Table 2**  
**Qualified Data Summary**  
**3761 North Stephanie Street**  
**Pahrump, Nevada**

Sample ID	Laboratory ID	Analysis Method	Analyte	Qualifier	Reason
WW1-GW-1	L373794-03	9040C	pH	J	Missed analysis holding time
WW1-GW-1	L373794-03	9034/9030B	Reactive sulfide	UJ	Missed analysis holding time
WW7-GW-1	L373794-04	9040C	pH	J	Missed analysis holding time
WW7-GW-1	L373794-04	9034/9030B	Reactive sulfide	UJ	Missed analysis holding time

**Table 3**  
**Summary of Field Duplicates**  
**3761 North Stephanie Street**  
**Pahrump, Nevada**

Original Sample ID	Laboratory ID	Matrix	Analyte	Original Results*	Duplicate Sample ID	Laboratory ID	Duplicate Results*	RPD
WW1-GW-1	L373794-01	Water	All VOCs	ND	WW7-GW-1	L373794-02	ND	NA
WW1-GW-1	L373794-03	Water	Corrosivity	7.4	WW7-GW-1	L373794-04	7.7	-4.0%
WW1-GW-1	L373794-03	Water	Flashpoint	ND	WW7-GW-1	L373794-04	ND	NA
WW1-GW-1	L373794-03	Water	Reactive cyanide	ND	WW7-GW-1	L373794-04	ND	NA
WW1-GW-1	L373794-03	Water	Reactive sulfide	ND	WW7-GW-1	L373794-04	ND	NA

\*Units for flashpoint analysis are degrees fahrenheit. Units do not apply for corrosivity analysis. Units for all other analyses are mg/L.

ND: Not detected

NA: Not applicable. Calculation of the relative percent difference between the sample result and the duplicate sample result is not applicable.

RPD: Relative percent difference