



**Reno**  
815 Maestro Drive  
Reno, Nevada 89511  
Ph: 775.829.2245

**Las Vegas**  
1915 N. Green Valley Parkway  
Suite 200  
Henderson, Nevada 89074  
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# LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

**DEW DROP INN  
MAIN STREET  
APN 002-053-04  
SILVER PEAK  
ESMERALDA COUNTY  
NEVADA**

*Contract DEP14-008  
Task Number M20-17*

*Prepared for:*

*State of Nevada  
Department of Conservation & Natural Resources  
Division of Environmental Protection  
901 South Stewart Street, Suite 3005  
Carson City, Nevada 89701*

*ATTN:  
Mr. David Friedman*

*August 24, 2017*

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## 1. INTRODUCTION

McGinley & Associates (MGA) conducted a Limited Phase II Environmental Site Assessment (ESA) at the subject property located on Main Street in Silver Peak, NV. These assessment activities were conducted on behalf of Nye County and the Rural Desert Southwest Brownfields Coalition (RDSBC) for the Nevada Division of Environmental Protection (NDEP) utilizing funding provided by the State of Nevada Brownfields Program (NBP), Contract DEP14-008, Task Number M20-17. MGA conducted this investigation for the purpose of investigating previously identified *recognized environmental conditions* (RECs) on the subject property. The site location is indicated in Figure 1.

## 2. BACKGROUND

A Phase I ESA of the Subject Property was conducted by BEC Environmental, Inc. for NDEP on behalf of Nye County and the RDSBC and dated December 22, 2016. The Phase I ESA report concluded that the assessment revealed no evidence of recognized environmental conditions (REC) or conditional recognized environmental conditions (CREC) in connection with the property except for the following:

1. *Based on the historic and current mining activity in the vicinity of Silver Peak and the presence of a mine access in the cellar of the Dew Drop Inn, the potential exists for vapor intrusion from the subsurface into the building.*
2. *Based on the presence of one closed, buried 55-gallon drum and one open 55-gallon drum with an access to a larger space below ground surface, the potential exists for unidentified hazardous chemicals stored on site.*
3. *A possible vent-pipe was observed on the northwest exterior of the Dew Drop Inn building, potentially indicative of an underground storage tank (UST) on the subject site.*
4. *A tar-like, highly viscous substance was observed seeping from beneath a wooden pallet on the subject site, indicative of the potential release of petroleum hydrocarbons on the subject site.*
5. *Based on the age of the buildings, the potential exists for asbestos-containing materials in the Dew Drop Inn, the Shifting Sands Bar, and in two piles of drywall and shingles on the exterior portion of the subject site.*

## 3. OBJECTIVES

The objectives of the ESA activities were to address the RECs identified during in the previous Phase I ESA (Section 2) and to assess for the presence of regulated, hazardous, or potentially hazardous chemical constituents in the soils located on the subject property. As required by the State of Nevada Administrative Code (NAC) 459, all MGA services were supervised and reviewed by a Nevada Certified Environmental Manager (CEM).

## 4. SCOPE OF SERVICES

The field activities performed by MGA for the limited Phase II ESA were conducted in accordance with EPA and MGA Standard Operating Procedures (SOP) and the site-specific Health and Safety Plan (HASP). On site activities consisted of the following:

- Trenching in two areas onsite (near two abandoned 55-gallon drums and next to an open metal pipe end extruding from the ground);
- Collecting one soil sample and one liquid sample;
- Conducting an air survey in the basement of the Dew Drop Inn using a photoionizing detector (PID)
- Analytical testing of the soil and liquid sample; and
- Preparing a technical report complete with findings and recommendations.

## 5. ENVIRONMENTAL INVESTIGATION

Limited Phase II ESA field activities were performed by MGA on June 20, 2017. At the time of the assessment, the wood pallet with a tar-like substance, as characterized as a REC in the Phase I ESA, appeared to be de minimis in nature. Therefore, this REC was not investigated as part of this assessment.

### 5.1 Trenching

In order to assess two of the RECs identified in Section 2, trenches were excavated with a backhoe in the vicinity of the two 55-gallon drums and proximal to a four-inch steel pipe extruding from the ground.

#### 5.1.1 55-Gallon Drum Area

Upon examination of the semi-buried 55-gallon drums (REC #2), it was determined that the pit below the drum openings (as seen through the top of the drums) appeared to be consistent with a former grease trap or otherwise analogous waste liquid storage vessel.

Due to overhead wires, a tree growing in the vicinity, the building close by, and an effort to limit damage to, or potential leakage of, the underground storage vessel, the excavator dug one trench (T-1) to the west of the 55-gallon barrels and just north of the former Shifting Sands Bar to characterize the soil adjacent to the drums.

Due to the existing site conditions, approximately two, one-foot wide bucket loads were removed from this area and one representative soil sample was collected. This soil sample was collected directly from the trench and subsequently placed into laboratory provided glass jars. Additionally, a liquid sample was collected from the water-sludge mixture contained within the pit below one of the drum openings. The purpose of collecting the liquid sample for analysis was to provide a contaminant profile for future removal and disposal. The sample locations are shown on Figure 2.

#### 5.1.2 Extruding Pipe Area

The “vent pipe” described in the Phase I ESA as a vent for a possible underground storage tank (REC #3) was observed to be constructed of plastic and appeared to be associated with a freezer room located within the former Shifting Sands Bar. Based on these observations, it was determined that this pipe did not appear to be a vent pipe associated with an UST. However, a separate four-inch steel vent pipe located on the northwest side of the Dew Drop Inn building

was discovered. Due to the pipe being constructed of steel and open to the air above the roof-line of the building, a possibility existed that the pipe was associated with an UST or a tunnel. Therefore, a trench (T-2) was excavated in this location between the former Dew Drop Inn and Shifting Sands Bar buildings and proximal to the pipe. The trench uncovered an underground tunnel trending north-south and it appeared that the tunnel was constructed as if it was an underground mine shaft. The purpose of the tunnel is unknown. Based on these findings, it appeared that the four-inch steel pipe was possibly an air pipe for the tunnel. No soil samples were collected for environmental analysis.

## 5.2 Air Survey

A photoionization detector (PID) was used to determine if the “mine access tunnel” in the cellar of the Dew Drop Inn was a potential source of volatile organic compounds (VOCs). Upon inspection of the cellar and based on an interview with the property owner, it was determined that the “mine access tunnel” is an 80-foot deep hand-dug well that is no longer in use. Although it did not appear that a mine tunnel existed within the cellar, the PID was used for several minutes and there was no indication of the presence of VOCs in the cellar.

## 5.3 Analytical Testing

The soil sample was delivered under chain-of-custody protocol to Asset Laboratories located in Las Vegas, Nevada. The soil sample was analyzed for volatile organic compounds (VOC) by EPA Method 8260, polycyclic aromatic hydrocarbons (PAH) via EPA Method 8270CSIM, total petroleum hydrocarbons (TPH) in the diesel range (DRO), oil range (ORO), and gasoline range (GRO) by EPA Method 8015B, and total metals including lead, cadmium, and chromium by EPA Method 6010B.

The liquid sample (“Sludge”) was a characterization sample to determine hazardous/non-hazardous status and was analyzed for pH by EPA Method 9040B, ignitability by EPA Method 1020A, VOCs by EPA Method 8260B, GRO by EPA Method 8015B, and RCRA 8 Metals by EPA 6010B for arsenic, barium, cadmium, chromium, lead, selenium, and silver, and EPA Method 7470A for total mercury by cold vapor technique. A copy of the chain-of-custody records for the soil and liquid samples are provided in Appendix A.

## 5.4 Analytical results

The analytical results for the soil sample are presented in Table 1A and summarized below:

- No detectable concentrations of TPH in the gasoline range (GRO), VOCs, or total cadmium were reported above laboratory reporting limits;
- The concentration of TPH in the diesel range (DRO) was reported to be 12 mg/kg;
- The concentration of TPH in the oil range (ORO) was reported to be 29 mg/kg;
- The chrysene concentration was reported to be 7.0 mg/kg;
- The fluoranthene concentration was reported to be 6.5 mg/kg;
- The pyrene concentration was reported to be 6.5 mg/kg;
- The chromium concentration was reported to be 14.0 mg/kg; and
- The lead concentration was reported to be 110 mg/kg.

The analytical results for the liquid sample is presented in Table 1B and summarized below:

- The pH of the liquid was reported to be 8.4
- No detectable concentrations of TPH, VOCs, PAHs, or cadmium were reported for the

sample.

- The ignitability of the sample was reported to be greater than 212 degrees Fahrenheit;
- The arsenic concentration was reported to be 0.055 mg/L;
- The barium concentration was reported to be 0.11 mg/L;
- The chromium concentration was reported to be 0.0062 mg/L; and
- The lead concentration was reported to be 0.0055 mg/L.

## 6. DATA QUALITY

### 6.1 Soil Sampling

The soil sample was collected in accordance with EPA and MGA SOPs. Care was taken to minimize sample disturbance. Soil and liquid samples were preserved in a cooler and transported under proper chain-of-custody protocol until they were received by the laboratory (see chain-of-custody records provided in Appendix A).

### 6.2 Laboratory Analytical Data

The laboratory analytical data for the soil sample was in compliance with the data quality objectives established in the laboratory's SOP.

## 7. SUMMARY OF FIELD ACTIVITIES

- Two trenches were excavated by the property owner using a backhoe. One trench was located proximal to two uncovered 55-gallon drums and one trench was located proximal to a four-inch steel pipe extruding from the ground and extending above the roof-line of the Dew Drop Inn;
- One soil sample was collected at 1.0 feet bgs within the trench located proximal to the two 55-gallon drums;
- One liquid sample was collected from the pit located below one of the two 55-gallon drums. The purpose of the liquid sample was to characterize the liquid for future removal and disposal;
- An investigation of the possible underground storage tank (UST) near the former Shifting Sands Bar concluded that a potential vent pipe did not appear to be associated with a UST. The vent pipe was plastic and appeared to lead to a freezer room located within the Shifting Sands structure. Therefore, it was concluded that no environmental hazards appeared to exist and no soil samples were collected proximal to the plastic pipe extruding from the ground.
- An investigation into the steel four-inch pipe extruding from the ground proximal to the Dew Drop Inn structure was conducted by trenching adjacent to the pipe and towards the Shifting Sands structure. The trench discovered an underground tunnel running in a north-south direction and it was determined that the steel pipe appeared to be used for supplying air to the tunnel. Therefore, no soil samples were collected from this trench or the area proximal to the extruding steel pipe; and
- An air survey using a PID instrument was conducted within the cellar of the Dew Drop Inn proximal to a large opening that was determined to be an 80-foot deep hand-dug well.

## 8. FINDINGS AND CONCLUSIONS

McGinley & Associates (MGA) performed a Limited Phase II ESA of the former Dew Drop Inn property located on Main Street in Silver Peak, NV. These assessment activities were conducted on behalf of Nye County and the RDSBC for the Nevada Division of Environmental Protection (NDEP). MGA conducted this investigation for the purpose of investigating previously identified *recognized environmental conditions* (RECs) on the subject property. The following are findings from the assessment:

- None of the constituents analyzed for in the soil sample were reported to have concentrations greater than EPA Region 9 RSLs or State of Nevada Reportable Concentrations.
- No VOCs were discovered emanating from the 80-foot deep hand-dug well.
- The liquid sample collected from the pit beneath one of the 55-gallon drums is non-hazardous.

## 9. RECOMMENDATIONS

Based on the results of the assessment activities, the following recommendations are provided:

- Based on the analytical laboratory data for the collected soil sample and the determination that heating oil tanks are likely not present on the property, MGA is of the opinion that no further assessment for the Subject Property, with regards to potential surface soil contamination, is warranted at this time.
- Based on the results reported for the liquid sample collected from the pit located below one of the two 55-gallon drums, it appears that the liquid can be characterized as non-hazardous. The liquid should be disposed of as such in accordance with local, state, and federal regulations. It is recommended that this be conducted prior to removing the below ground appurtenances. Upon removal of the below ground appurtenances, it is recommended that additional assessment of the soil below the grease trap be assessed at that time.

## 10. LIMITATIONS

The conclusions presented herein are based on analytical data and observations. MGA makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The results reported herein are applicable to the time the sampling occurred. Changes in site conditions may occur as a result of illegal dumping practices, prevailing winds, rainfall, or other factors.

It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact science. Judgments and opinions leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. Additional information not found or unavailable to MGA at the time of writing this report may result in a modification to the conclusions and recommendations contained herein.

This report is not a legal opinion. The services performed by MGA have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession

currently practicing under similar conditions. No other warranty, expressed or implied, is made.

The use of the word "certify" in this document constitutes an expression of professional opinion regarding those facts or findings which are the subject of the certification and does not constitute a warranty or guarantee, either expressed or implied.

## 11. CLOSING

Should you have any questions regarding this report please contact Brett Bottenberg at (702) 260-4961 or via email at bbottenberg@mcgin.com.

Respectfully submitted,  
**McGinley and Associates, Inc.**



Jonathan T. Payne  
Staff Geologist

Reviewed by:

*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.*



Brett C. Bottenberg, C.E.M. #1690, Exp. 10/07/17  
Senior Project Manager

## **12. REFERENCES**

BEC Environmental, “Phase I Environmental Site Assessment”, December 2016.

MGA, “Standard Operating Procedures”, March 1, 2001.

US EPA, “Soil Sampling Standard Operating Procedure”, August 19

Table 1A. Summary of Soil Analytical Results

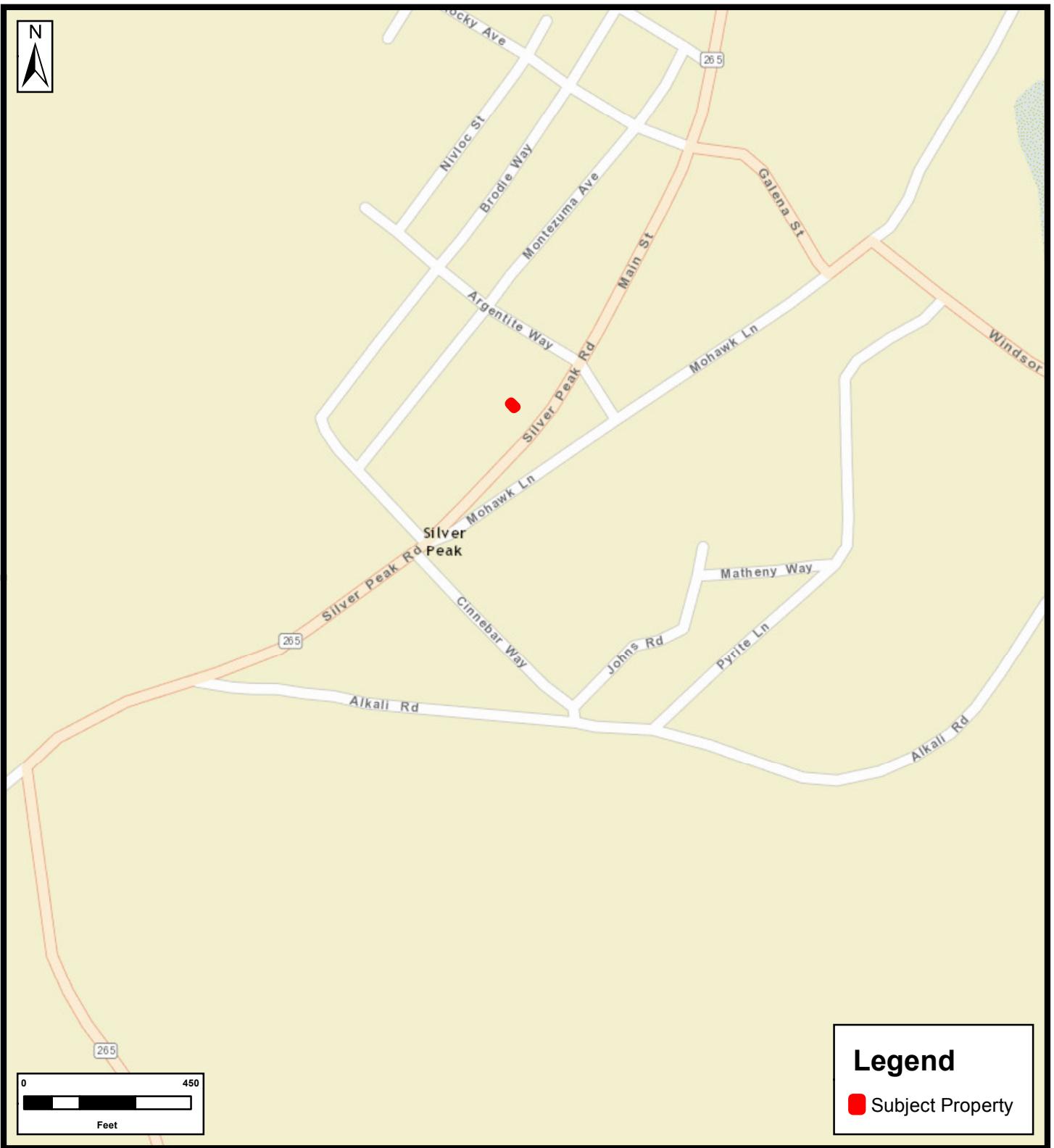
Sample ID	Location	Depth (ft/bs)	Date	TPH (mg/kg)				PAH-SIM (mg/kg)				RCRA Metals (mg/kg)				VOCs (mg/kg)
				GRO (TPHP-P)	DRO	ORO	TPH-E	Chrysene	Fluoranthene	Pyrene	Cadmium	Chromium	Lead	None Detected		
SS-12	Trench	1.0	20-Jun-17	ND	12	29	41	7.0	6.5	6.5	ND	14	110	-	-	
	Screening Level*			100	100	100	100	2,100	30,000	23,000	8	38	800	-	-	

\* EPA Region 9 RSL - Industrial - ([blue text](#))\* State of Nevada Reportable Concentration ([red text](#)) - if EPA RSL not available

Table B. Summary of Liquid Analytical Results

Sample ID	Location	Depth (ft <sub>ss</sub> )	Date	TPH-P (mg/L)		Ignitability	pH	RCRA Metals (mg/L)				VOCs (mg/L)	PAHs (mg/L)
				GRO	deg. F			Arsenic	Barium	Cadmium	Chromium		
SLUDGE-1	Pit	1.5	20-Jun-17	ND	>212	8.4	0.055	0.11	ND	0.0062	0.0055	ND	ND

\* EPA Region 9 RSL - Industrial - ([blue text](#))\* State of Nevada Reportable Concentration ([red text](#)) - if EPA RSL not available



**FIGURE 1**

TITLE:

**PROJECT LOCATION MAP  
-SHOWING-  
EXTENT OF EXCAVATION  
SAMPLE LOCATIONS  
SILVER PEAK, NV**

JOB NO.:  
**BRN041**

DATE:  
**7/3/2017**



FILE:  
**Fig 1 - Project Location Map**

COORDINATE SYSTEM:  
**NAD 1983 UTM Zone 11N**

REF	DESIGNED	HC	CHECKED	JP	REVISION:
	DRAWN	HC	APPROVED	JP	-



**FIGURE 2**

TITLE:

SITE MAP  
SHOWING-  
EXTENT OF EXCAVATION  
SAMPLE LOCATIONS  
SILVER PEAK, NV

JOB NO.:  
**BRN041**

DATE:  
**7/3/2017**

**McGinley & Associates**  
Environmental Engineering and Science  
RENO | LAS VEGAS | [www.mcgin.com](http://www.mcgin.com)

FILE:  
**Fig 2 - Site Map**

COORDINATE SYSTEM:  
**NAD 1983 UTM Zone 11N**

REF	DESIGNED	HC	CHECKED	JP	REVISION:
	DRAWN	HC	APPROVED	JP	-

## **APPENDIX A**

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Chain-of-Custody Records and Laboratory Reports for Soil Samples

July 03, 2017

Brett Bottenberg  
Mc.Ginley and Associates  
6280 S. Valley View Blvd. Suite 604  
Las Vegas, NV 89118  
TEL: (702) 260-4961  
FAX: (702) 260-4968

Workorder No.: N024683

RE: SILVER PEAK SOIL, BRN041

Attention: Brett Bottenberg

Enclosed are the results for sample(s) received on June 21, 2017 by ASSET Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

*Mary Liberator*

Puri Romualdo  
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories - Las Vegas.



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11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
ELAP Cert 2921  
EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

**CLIENT:** Mc.Ginley and Associates  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab Order:** N024683

**CASE NARRATIVE****SAMPLE RECEIVING/GENERAL COMMENTS:**

Samples were received intact with proper chain of custody documentation.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Samples were analyzed within method holding time.

**Analytical Comments for EPA 6010B (Soil):**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Lead possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical Comments for EPA 8270C\_SIM (Soil):**

Some analytes were reported non-detect (ND) with dilution on sample N024683-001 due to associated internal standard not meeting method criteria possibly due to matrix interference. Sample was analyzed with dilution and internal standard met method criteria. Affected analyte for this failed internal standard was reported at dilution that meet internal standard recovery limit.

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for Benzo(k)fluoranthene; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

**Analytical Comments for EPA 8260B (Soil):**

RPD for Matrix Spike (MS)/Matrix Spike Duplicate (MSD) is outside criteria for 1,1,2,2-Tetrachloroethane; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

**Analytical Comments for EPA 8260B (Water):**

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EPA ID CA01638

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**CLIENT:** Mc.Ginley and Associates  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab Order:** N024683

## CASE NARRATIVE

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Dilution was necessary due to matrix.



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EPA ID CA01638

NEVADA | P:702.307.2691 F:702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

# ASSET Laboratories

Date: 03-Jul-17

**CLIENT:** Mc.Ginley and Associates  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab Order:** N024683

## Work Order Sample Summary

**Contract No:**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N024683-001A	SS-12	Soil	6/20/2017 11:15:00 AM	6/21/2017	6/30/2017
N024683-001B	SS-12	Soil	6/20/2017 11:15:00 AM	6/21/2017	6/30/2017
N024683-002A	SLUDGE-1	Water	6/20/2017 11:00:00 AM	6/21/2017	6/30/2017
N024683-002B	SLUDGE-1	Water	6/20/2017 11:00:00 AM	6/21/2017	6/30/2017
N024683-002C	SLUDGE-1	Water	6/20/2017 11:00:00 AM	6/21/2017	6/30/2017
N024683-002D	SLUDGE-1	Water	6/20/2017 11:00:00 AM	6/21/2017	6/30/2017



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NEVADA | Page 10 of 31 | P:702.307.2659 F:702.307.2691  
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ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

**ASSET Laboratories****ANALYTICAL RESULTS**

Print Date: 03-Jul-17

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-001

**Client Sample ID:** SS-12  
**Collection Date:** 6/20/2017 11:15:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM</b>						
<b>EPA 3546</b>					<b>EPA 8270CSIM</b>	
RunID: NV00922-MS9_170625A	QC Batch:	62632			PrepDate	6/23/2017 Analyst: JJS
1-Methylnaphthalene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
2-Methylnaphthalene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Acenaphthene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Acenaphthylene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Anthracene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Benzo(a)anthracene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Benzo(a)pyrene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Benzo(b)fluoranthene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Benzo(g,h,i)perylene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Benzo(k)fluoranthene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Chrysene	7.0	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Dibenz(a,h)anthracene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Fluoranthene	6.5	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Fluorene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Indeno(1,2,3-cd)pyrene	ND	50	µg/Kg	10	6/26/2017 04:19 AM	
Naphthalene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Phenanthrene	ND	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Pyrene	6.5	5.0	µg/Kg	1	6/26/2017 06:12 AM	
Surr: 1,2-Dichlorobenzene-d4	61.0	25-130	%REC	1	6/26/2017 06:12 AM	
Surr: 2-Fluorobiphenyl	82.0	23-130	%REC	1	6/26/2017 06:12 AM	
Surr: 4-Terphenyl-d14	95.0	24-130	%REC	1	6/26/2017 06:12 AM	
Surr: Nitrobenzene-d5	91.0	22-130	%REC	1	6/26/2017 06:12 AM	
<b>VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 8260B</b>						
RunID: NV00922-MS5_170623A	QC Batch:	P17VS072			PrepDate	Analyst: RB
1,1,1,2-Tetrachloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1,1-Trichloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1,2,2-Tetrachloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1,2-Trichloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1-Dichloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1-Dichloroethene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,1-Dichloropropene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,2,3-Trichlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,2,3-Trichloropropane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,2,4-Trichlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
1,2,4-Trimethylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out

E Value above quantitation range

ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified



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3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-001

**Client Sample ID:** SS-12  
**Collection Date:** 6/20/2017 11:15:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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## VOLATILE ORGANIC COMPOUNDS BY GC/MS

## EPA 8260B

RunID: NV00922-MS5_170623A	QC Batch: P17VS072			PrepDate	Analyst: RB
1,2-Dibromo-3-chloropropane	ND	10	µg/Kg	1	6/24/2017 03:01 AM
1,2-Dibromoethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,2-Dichlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,2-Dichloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,2-Dichloropropane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,3,5-Trimethylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,3-Dichlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,3-Dichloropropane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
1,4-Dichlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
2,2-Dichloropropane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
2-Butanone	ND	50	µg/Kg	1	6/24/2017 03:01 AM
2-Chlorotoluene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
4-Chlorotoluene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
4-Isopropyltoluene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Benzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Bromobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Bromodichloromethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Bromoform	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Bromomethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Carbon tetrachloride	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Chlorobenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Chloroethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Chloroform	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Chloromethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
cis-1,2-Dichloroethene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
cis-1,3-Dichloropropene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Dibromochloromethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Dibromomethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Dichlorodifluoromethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Ethylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Freon-113	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Hexachlorobutadiene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
Isopropylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
m,p-Xylene	ND	10	µg/Kg	1	6/24/2017 03:01 AM
Methylene chloride	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM
MTBE	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out

E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**ASSET Laboratories****ANALYTICAL RESULTS**

Print Date: 03-Jul-17

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-001

**Client Sample ID:** SS-12  
**Collection Date:** 6/20/2017 11:15:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 8260B</b>						
RunID: NV00922-MS5_170623A	QC Batch:	P17VS072		PrepDate		Analyst: <b>RB</b>
n-Butylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
n-Propylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Naphthalene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
o-Xylene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
sec-Butylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Styrene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
tert-Butylbenzene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Tetrachloroethene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Toluene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
trans-1,2-Dichloroethene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Trichloroethene	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Trichlorofluoromethane	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Vinyl chloride	ND	5.0	µg/Kg	1	6/24/2017 03:01 AM	
Surr: 1,2-Dichloroethane-d4	123	71-154	%REC	1	6/24/2017 03:01 AM	
Surr: 4-Bromofluorobenzene	102	80-125	%REC	1	6/24/2017 03:01 AM	
Surr: Dibromofluoromethane	110	80-128	%REC	1	6/24/2017 03:01 AM	
Surr: Toluene-d8	102	80-120	%REC	1	6/24/2017 03:01 AM	
<b>DIESEL &amp; MOTOR OIL RANGE ORGANICS BY GC/FID</b>						
<b>EPA 3550B</b>						
RunID: NV00922-GC1_170627A	QC Batch:	62664		PrepDate	6/27/2017	Analyst: <b>QCE</b>
DRO	12	10	mg/Kg	1	6/27/2017 02:07 PM	
ORO	29	10	mg/Kg	1	6/27/2017 02:07 PM	
Surr: p-Terphenyl	74.8	38-152	%REC	1	6/27/2017 02:07 PM	
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
<b>EPA 8015B</b>						
RunID: NV00922-GC4_170623A	QC Batch:	E17VS110		PrepDate		Analyst: <b>RB</b>
GRO	ND	1.0	mg/Kg	1	6/23/2017 04:55 PM	
Surr: Chlorobenzene - d5	134	46-157	%REC	1	6/23/2017 04:55 PM	
<b>TOTAL METALS BY ICP</b>						
<b>EPA 3050B</b>						
RunID: NV00922-ICP2_170623D	QC Batch:	62615		PrepDate	6/22/2017	Analyst: <b>CEI</b>
Cadmium	ND	1.0	mg/Kg	1	6/23/2017 06:43 PM	
Chromium	14	1.0	mg/Kg	1	6/23/2017 06:43 PM	
Lead	110	1.0	mg/Kg	1	6/23/2017 06:43 PM	

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-002

**Client Sample ID:** SLUDGE-1**Collection Date:** 6/20/2017 11:00:00 AM**Matrix:** WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PH</b>						
<b>EPA 9040B</b>						
RunID: NV00922-WC_170621C	QC Batch: R115907			PrepDate		
pH	8.4	0.10	pH Units	1	6/21/2017 04:20 PM	
Temp. at time of pH Analysis	26	0	°C	1	6/21/2017 04:20 PM	
<b>IGNITABILITY BY SETAFLASH CLOSED-CUP</b>						
<b>EPA 1020A</b>						
RunID: NV00922-WC_170625A	QC Batch: R115948			PrepDate		
Ignitability	>212	0	DEG F	1	6/25/2017	
<b>VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>						
<b>EPA 8260B</b>						
RunID: NV00922-MS5_170622B	QC Batch: P17VW102			PrepDate		
1,1,1,2-Tetrachloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1,1-Trichloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1,2-Trichloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1-Dichloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1-Dichloroethene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,1-Dichloropropene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2,3-Trichlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2,3-Trichloropropane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2,4-Trichlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2,4-Trimethylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2-Dibromo-3-chloropropane	ND	5.0	µg/L	5	6/23/2017 06:43 AM	
1,2-Dibromoethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2-Dichlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2-Dichloroethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,2-Dichloropropane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,3,5-Trimethylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,3-Dichlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,3-Dichloropropane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
1,4-Dichlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
2,2-Dichloropropane	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
2-Butanone	ND	25	µg/L	5	6/23/2017 06:43 AM	
2-Chlorotoluene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
4-Chlorotoluene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
4-Isopropyltoluene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	
Benzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM	

**Qualifiers:** B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference  
 DO Surrogate Diluted Out

E Value above quantitation range  
 ND Not Detected at the Reporting Limit  
 Results are wet unless otherwise specified



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**ASSET Laboratories****ANALYTICAL RESULTS**

Print Date: 03-Jul-17

**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-002

**Client Sample ID:** SLUDGE-1  
**Collection Date:** 6/20/2017 11:00:00 AM  
**Matrix:** WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS****EPA 8260B**

RunID: NV00922-MS5_170622B	QC Batch: P17VW102			PrepDate	Analyst: RB
Bromobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Bromodichloromethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Bromoform	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Bromomethane	ND	5.0	µg/L	5	6/23/2017 06:43 AM
Carbon tetrachloride	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Chlorobenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Chloroethane	ND	5.0	µg/L	5	6/23/2017 06:43 AM
Chloroform	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Chloromethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
cis-1,2-Dichloroethene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
cis-1,3-Dichloropropene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Dibromochloromethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Dibromomethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Dichlorodifluoromethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Ethylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Freon-113	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Hexachlorobutadiene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Isopropylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
m,p-Xylene	ND	5.0	µg/L	5	6/23/2017 06:43 AM
Methylene chloride	ND	10	µg/L	5	6/23/2017 06:43 AM
MTBE	ND	2.5	µg/L	5	6/23/2017 06:43 AM
n-Butylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
n-Propylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Naphthalene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
o-Xylene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
sec-Butylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Styrene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
tert-Butylbenzene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Tetrachloroethene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Toluene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
trans-1,2-Dichloroethene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Trichloroethene	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Trichlorofluoromethane	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Vinyl chloride	ND	2.5	µg/L	5	6/23/2017 06:43 AM
Sur: 1,2-Dichloroethane-d4	91.9	73-127	%REC	5	6/23/2017 06:43 AM
Sur: 4-Bromofluorobenzene	91.9	80-120	%REC	5	6/23/2017 06:43 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out

E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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**CLIENT:** Mc.Ginley and Associates  
**Lab Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041  
**Lab ID:** N024683-002

**Client Sample ID:** SLUDGE-1  
**Collection Date:** 6/20/2017 11:00:00 AM  
**Matrix:** WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**VOLATILE ORGANIC COMPOUNDS BY GC/MS****EPA 8260B**

RunID: NV00922-MS5_170622B	QC Batch:	P17VW102	PrepDate	Analyst: RB	
Surr: Dibromofluoromethane	93.8	80-121	%REC	5	6/23/2017 06:43 AM
Surr: Toluene-d8	99.7	80-120	%REC	5	6/23/2017 06:43 AM

**GASOLINE RANGE ORGANICS BY GC/FID****EPA 8015B**

RunID: NV00922-GC4_170626A	QC Batch:	E17VW059	PrepDate	Analyst: QBM	
GRO	ND	0.050	mg/L	1	6/26/2017 02:59 PM
Surr: Chlorobenzene - d5	113	72-143	%REC	1	6/26/2017 02:59 PM

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE****EPA 7470A**

RunID: NV00922-AA1_170623C	QC Batch:	62626	PrepDate	6/23/2017 Analyst: CEI	
Mercury	ND	0.20	µg/L	1	6/23/2017 11:59 AM

**TOTAL METALS BY ICP****EPA 3010A****EPA 6010B**

RunID: NV00922-ICP2_170624A	QC Batch:	62625	PrepDate	6/23/2017 Analyst: CEI	
Arsenic	0.055	0.010	mg/L	1	6/24/2017 10:38 AM
Barium	0.11	0.0030	mg/L	1	6/23/2017 04:08 PM
Cadmium	ND	0.0030	mg/L	1	6/23/2017 04:08 PM
Chromium	0.0062	0.0030	mg/L	1	6/24/2017 10:38 AM
Lead	0.0055	0.0050	mg/L	1	6/23/2017 04:08 PM
Selenium	ND	0.010	mg/L	1	6/23/2017 04:08 PM
Silver	ND	0.0030	mg/L	1	6/23/2017 04:08 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference  
DO Surrogate Diluted Out

E Value above quantitation range  
ND Not Detected at the Reporting Limit  
Results are wet unless otherwise specified



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ORELAP/NELAP Cert 4046

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

**ANALYTICAL QC SUMMARY REPORT****TestCode: 1020a**

Sample ID	LCS-R115948	SampType:	LCS	TestCode:	1020a	Units:	DEG F	Prep Date:		RunNo:	115948
Client ID:	LCSW	Batch ID:	R115948	TestNo:	EPA 1020A	Analysis Date:	6/25/2017		SeqNo:	2674030	
<b>Analyte</b>											
Ignitability		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
	81.000		0	81.00	0	100	85	115			Qual
Sample ID	LCSD-R115948	SampType:	LCSD	TestCode:	1020a	Units:	DEG F	Prep Date:		RunNo:	115948
Client ID:	LCSS02	Batch ID:	R115948	TestNo:	EPA 1020A	Analysis Date:	6/25/2017		SeqNo:	2674031	
<b>Analyte</b>											
Ignitability		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
	81.000		0	81.00	0	100	85	115	81.00	0	10
Sample ID	N024683-002C-DUP	SampType:	DUP	TestCode:	1020a	Units:	DEG F	Prep Date:		RunNo:	115948
Client ID:	ZZZZZZ	Batch ID:	R115948	TestNo:	EPA 1020A	Analysis Date:	6/25/2017		SeqNo:	2674033	
<b>Analyte</b>											
Ignitability		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
	>212		0							0	0
Sample ID	N024705-001C-DUP	SampType:	DUP	TestCode:	1020a	Units:	DEG F	Prep Date:		RunNo:	115948
Client ID:	ZZZZZZ	Batch ID:	R115948	TestNo:	EPA 1020A	Analysis Date:	6/25/2017		SeqNo:	2674035	
<b>Analyte</b>											
Ignitability		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
	>212		0							0	0
Sample ID	N024709-001C-DUP	SampType:	DUP	TestCode:	1020a	Units:	DEG F	Prep Date:		RunNo:	115948
Client ID:	ZZZZZZ	Batch ID:	R115948	TestNo:	EPA 1020A	Analysis Date:	6/25/2017		SeqNo:	2674037	
<b>Analyte</b>											
Ignitability		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
	>212		0							0	0

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID <b>MB-62615</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/22/2017</b>	RunNo: <b>115938</b>
Client ID: <b>PBS</b>	Batch ID: <b>62615</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3050B</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673384</b>
<b>Analyte</b>					
Arsenic	ND	1.0			
Barium	ND	1.0			
Cadmium	ND	1.0			
Chromium	ND	1.0			
Lead	ND	1.0			
Selenium	ND	1.0			
Silver	ND	1.0			
Sample ID <b>LCS-62615</b>	SampType: <b>LCS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/22/2017</b>	RunNo: <b>115938</b>
Client ID: <b>LCSS</b>	Batch ID: <b>62615</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3050B</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673385</b>
<b>Analyte</b>					
Arsenic	25.010	1.0	25.00	0	100 80 120
Barium	25.252	1.0	25.00	0	101 80 120
Cadmium	25.232	1.0	25.00	0	101 80 120
Chromium	25.177	1.0	25.00	0	101 80 120
Lead	25.310	1.0	25.00	0	101 80 120
Selenium	24.690	1.0	25.00	0	98.8 80 120
Silver	25.723	1.0	25.00	0	103 80 120
Sample ID <b>N024682-001B-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/22/2017</b>	RunNo: <b>115938</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>62615</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3050B</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673397</b>
<b>Analyte</b>					
Barium	133.166	1.0	24.89	96.07	149 75 125 S
Cadmium	22.593	1.0	24.89	0.9476	87.0 75 125
Chromium	30.892	1.0	24.89	11.35	78.5 75 125
Lead	148.699	1.0	24.89	110.9	152 75 125 S
Selenium	20.378	1.0	24.89	0	81.9 75 125
Silver	20.879	1.0	24.89	0.8104	80.6 75 125

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_S**

Sample ID	N024682-001B-MSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	6/22/2017	RunNo:	115938	
Client ID:	ZZZZZZ	Batch ID:	62615	TestNo:	EPA 6010B	EPA 3050B		Analysis Date:	6/23/2017	SeqNo:	2673398	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium		134.075	1.0	24.99	96.07	152	75	125	133.2	0.680	20	S
Cadmium		22.764	1.0	24.99	0.9476	87.3	75	125	22.59	0.754	20	
Chromium		31.115	1.0	24.99	11.35	79.1	75	125	30.89	0.719	20	
Lead		150.120	1.0	24.99	110.9	157	75	125	148.7	0.951	20	S
Selenium		20.259	1.0	24.99	0	81.1	75	125	20.38	0.589	20	
Silver		21.053	1.0	24.99	0.8104	81.0	75	125	20.88	0.829	20	
Sample ID	N024682-001B-MS	SampType:	MS	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	6/22/2017	RunNo:	115938	
Client ID:	ZZZZZZ	Batch ID:	62615	TestNo:	EPA 6010B	EPA 3050B		Analysis Date:	6/23/2017	SeqNo:	2673705	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		65.149	1.0	24.89	32.00	133	75	125				S
Sample ID	N024682-001B-MSD	SampType:	MSD	TestCode:	6010_S	Units:	mg/Kg	Prep Date:	6/22/2017	RunNo:	115938	
Client ID:	ZZZZZZ	Batch ID:	62615	TestNo:	EPA 6010B	EPA 3050B		Analysis Date:	6/23/2017	SeqNo:	2673706	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic		65.478	1.0	24.99	32.00	134	75	125	65.15	0.504	20	S

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

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H Holding times for preparation or analysis exceeded

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_W**

Sample ID <b>MB-62625</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_W</b>	Units: <b>mg/L</b>	Prep Date: <b>6/23/2017</b>	RunNo: <b>115936</b>
Client ID: <b>PBW</b>	Batch ID: <b>62625</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3010A</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673174</b>
Analyte					
Arsenic	ND	0.010			
Barium	0.00015	0.0030			
Cadmium	ND	0.0030			
Chromium	0.000536	0.0030			
Lead	ND	0.0050			
Selenium	ND	0.010			
Silver	ND	0.0030			

Sample ID <b>LCS-62625</b>	SampType: <b>LCS</b>	TestCode: <b>6010_W</b>	Units: <b>mg/L</b>	Prep Date: <b>6/23/2017</b>	RunNo: <b>115936</b>
Client ID: <b>LCSW</b>	Batch ID: <b>62625</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3010A</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673175</b>
Analyte					
Arsenic	0.505	0.010	0.5000	0	101
Barium	0.506	0.0030	0.5000	0	101
Cadmium	0.507	0.0030	0.5000	0	101
Chromium	0.504	0.0030	0.5000	0	101
Lead	0.510	0.0050	0.5000	0	102
Selenium	0.508	0.010	0.5000	0	102
Silver	0.514	0.0030	0.5000	0	103

Sample ID <b>N024683-002D-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_W</b>	Units: <b>mg/L</b>	Prep Date: <b>6/23/2017</b>	RunNo: <b>115936</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>62625</b>	TestNo: <b>EPA 6010B</b>	<b>EPA 3010A</b>	Analysis Date: <b>6/23/2017</b>	SeqNo: <b>2673179</b>
Analyte					

Barium	0.532	0.0030	0.5000	0.1116	84.2	75	125
Cadmium	0.495	0.0030	0.5000	0.0006799	98.9	75	125
Lead	0.409	0.0050	0.5000	0.005466	80.7	75	125
Selenium	0.448	0.010	0.5000	0	89.6	75	125
Silver	0.409	0.0030	0.5000	0.001121	81.6	75	125

### Qualifiers:

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 6010\_W**

Sample ID	N024683-002D-MSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	6/23/2017	RunNo:	115936
Client ID:	ZZZZZZ	Batch ID:	62625	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	6/23/2017	SeqNo:	2673180
<b>Analyte</b>											
Barium	0.533	PQL	0.0030	SPK value	0.5000	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Cadmium	0.495		0.0030		0.5000	0.0006799	84.2	75	125	0.4951	0.0244
Lead	0.407		0.0050		0.5000	0.005466	98.9	75	125	0.4092	0.587
Selenium	0.450		0.010		0.5000	0	80.3	75	125	0.4480	0.494
Silver	0.409		0.0030		0.5000	0.001121	81.7	75	125	0.4091	0.0689
Sample ID	N024683-002D-MS	SampType:	MS	TestCode:	6010_W	Units:	mg/L	Prep Date:	6/23/2017	RunNo:	115936
Client ID:	ZZZZZZ	Batch ID:	62625	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	6/23/2017	SeqNo:	2673511
<b>Analyte</b>											
Arsenic	0.508	PQL	0.010	SPK value	0.5000	SPK Ref Val	%REC	90.6	75	125	
Chromium	0.424		0.0030		0.5000	0.006232	83.5	75	125		
Sample ID	N024683-002D-MSD	SampType:	MSD	TestCode:	6010_W	Units:	mg/L	Prep Date:	6/23/2017	RunNo:	115936
Client ID:	ZZZZZZ	Batch ID:	62625	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	6/23/2017	SeqNo:	2673512
<b>Analyte</b>											
Arsenic	0.505	PQL	0.010	SPK value	0.5000	SPK Ref Val	%REC	90.0	75	125	0.5084
Chromium	0.424		0.0030		0.5000	0.006232	83.6	75	125	0.4237	0.606
											20
											0.157
											20

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

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H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 7470\_W

Sample ID	MB-62626	SampType	MBLK	TestCode	7470_W	Units	µg/L	Prep Date	6/23/2017	RunNo	115929		
Client ID	PBW	Batch ID	62626	TestNo	EPA 7470A				Analysis Date	6/23/2017	SeqNo	2672980	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND		0.20									
Sample ID	LCS-62626	SampType	LCS	TestCode	7470_W	Units	µg/L	Prep Date	6/23/2017	RunNo	115929		
Client ID	LCSW <th>Batch ID</th> <td>62626</td> <th>TestNo</th> <td>EPA 7470A</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date</th> <td>6/23/2017</td> <th>SeqNo</th> <td>2672981</td>	Batch ID	62626	TestNo	EPA 7470A				Analysis Date	6/23/2017	SeqNo	2672981	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		4.834	0.20	5.000	0	96.7	85	115					
Sample ID	N024691-003G-MS	SampType	MS	TestCode	7470_W	Units	µg/L	Prep Date	6/23/2017	RunNo	115929		
Client ID	ZZZZZZ <th>Batch ID</th> <td>62626<th>TestNo</th><td>EPA 7470A<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th><th>Analysis Date</th><td>6/23/2017</td><th>SeqNo</th><td>2672982</td></td></td>	Batch ID	62626 <th>TestNo</th> <td>EPA 7470A<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th><th>Analysis Date</th><td>6/23/2017</td><th>SeqNo</th><td>2672982</td></td>	TestNo	EPA 7470A <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date</th> <td>6/23/2017</td> <th>SeqNo</th> <td>2672982</td>				Analysis Date	6/23/2017	SeqNo	2672982	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		4.790	0.20	5.000	0	95.8	75	125					
Sample ID	N024691-003G-MSD	SampType	MSD	TestCode	7470_W	Units	µg/L	Prep Date	6/23/2017	RunNo	115929		
Client ID	ZZZZZZ <th>Batch ID</th> <td>62626<th>TestNo</th><td>EPA 7470A<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th><th>Analysis Date</th><td>6/23/2017</td><th>SeqNo</th><td>2672983</td></td></td>	Batch ID	62626 <th>TestNo</th> <td>EPA 7470A<th data-cs="3" data-kind="parent"></th><th data-kind="ghost"></th><th data-kind="ghost"></th><th>Analysis Date</th><td>6/23/2017</td><th>SeqNo</th><td>2672983</td></td>	TestNo	EPA 7470A <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th>Analysis Date</th> <td>6/23/2017</td> <th>SeqNo</th> <td>2672983</td>				Analysis Date	6/23/2017	SeqNo	2672983	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		4.718	0.20	5.000	0	94.4	75	125	4.790	1.51	20		

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015\_S\_DM H**

Sample ID <b>LCS-62664</b>	SampType: <b>LCS</b>	TestCode: <b>8015_S_DM</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2017</b>	RunNo: <b>115995</b>
Client ID: <b>LCSS</b>	Batch ID: <b>62664</b>	TestNo: <b>EPA 8015B</b>	<b>EPA 3550B</b>	Analysis Date: <b>6/27/2017</b>	SeqNo: <b>2677457</b>
<b>Analyte</b>					
DRO	918.878	10	1000	0	91.9      67      119
Sur: p-Terphenyl	60.932		80.00		76.2      38      152
Sample ID <b>MB-62664</b>	SampType: <b>MBLK</b>	TestCode: <b>8015_S_DM</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2017</b>	RunNo: <b>115995</b>
Client ID: <b>PBS</b>	Batch ID: <b>62664</b>	TestNo: <b>EPA 8015B</b>	<b>EPA 3550B</b>	Analysis Date: <b>6/27/2017</b>	SeqNo: <b>2677458</b>
<b>Analyte</b>					
DRO	ND	10			
ORO	7.336	10			
Sur: p-Terphenyl	60.343		80.00	75.4	38      152
Sample ID <b>N024684-001B-MS</b>	SampType: <b>MS</b>	TestCode: <b>8015_S_DM</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2017</b>	RunNo: <b>115995</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>62664</b>	TestNo: <b>EPA 8015B</b>	<b>EPA 3550B</b>	Analysis Date: <b>6/27/2017</b>	SeqNo: <b>2677563</b>
<b>Analyte</b>					
DRO	880.716	10	999.0	7.549	87.4      46      143
Sur: p-Terphenyl	58.211		79.92		72.8      38      152
Sample ID <b>N024684-001B-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015_S_DM</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2017</b>	RunNo: <b>115995</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>62664</b>	TestNo: <b>EPA 8015B</b>	<b>EPA 3550B</b>	Analysis Date: <b>6/27/2017</b>	SeqNo: <b>2677564</b>
<b>Analyte</b>					
DRO	900.005	10	999.0	7.549	89.3      46      143      880.7      2.17      20
Sur: p-Terphenyl	63.114		79.92		79.0      38      152      0

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015GAS\_S

Sample ID	E170623LCS	SampType:	LCS	TestCode:	8015GAS_S	Units:	mg/Kg	Prep Date:		RunNo:	115949
Client ID:	LCSS	Batch ID:	E17VS110	TestNo:	EPA 8015B			Analysis Date:	6/23/2017	SeqNo:	2674038
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
GRO		6.347	1.0	5.000	0	127	74	127			
Surr: Chlorobenzene - d5		112.297		100.0		112	46	157			
Sample ID	E170623MB1	SampType:	MBLK	TestCode:	8015GAS_S	Units:	mg/Kg	Prep Date:		RunNo:	115949
Client ID:	PBS	Batch ID:	E17VS110	TestNo:	EPA 8015B			Analysis Date:	6/23/2017	SeqNo:	2674039
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
GRO		0.068	1.0			124	46	157			
Surr: Chlorobenzene - d5		124.356		100.0							
Sample ID	N024682-006AMS	SampType:	MS	TestCode:	8015GAS_S	Units:	mg/Kg	Prep Date:		RunNo:	115949
Client ID:	ZZZZZZ	Batch ID:	E17VS110	TestNo:	EPA 8015B			Analysis Date:	6/23/2017	SeqNo:	2674041
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
GRO		5.626	1.0	5.000	0.06300	111	27	144			
Surr: Chlorobenzene - d5		118.208		100.0		118	46	157			
Sample ID	N024682-006AMSD	SampType:	MSD	TestCode:	8015GAS_S	Units:	mg/Kg	Prep Date:		RunNo:	115949
Client ID:	ZZZZZZ	Batch ID:	E17VS110	TestNo:	EPA 8015B			Analysis Date:	6/23/2017	SeqNo:	2674042
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
GRO		5.986	1.0	5.000	0.06300	118	27	144	5.626	6.20	20
Surr: Chlorobenzene - d5		107.265		100.0		107	46	157		0	

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8015GAS\_WP

Sample ID	E170626LCS	SampType:	LCS	TestCode:	8015GAS_W	Units:	mg/L	Prep Date:		RunNo:	115977	
Client ID:	LCSW	Batch ID:	E17VW059	TestNo:	EPA 8015B			Analysis Date:	6/26/2017	SeqNo:	2675094	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		1.223	0.050	1.000	0	122	74	133				
Surrogate: Chlorobenzene - d5		59.304		50.00		119	72	143				
Sample ID	E170626MB1	SampType:	MBLK	TestCode:	8015GAS_W	Units:	mg/L	Prep Date:		RunNo:	115977	
Client ID:	PBW	Batch ID:	E17VW059	TestNo:	EPA 8015B			Analysis Date:	6/26/2017	SeqNo:	2675095	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		ND	0.050									
Surrogate: Chlorobenzene - d5		60.263		50.00		121	72	143				
Sample ID	N024728-001AMS	SampType:	MS	TestCode:	8015GAS_W	Units:	mg/L	Prep Date:		RunNo:	115977	
Client ID:	ZZZZZZ	Batch ID:	E17VW059	TestNo:	EPA 8015B			Analysis Date:	6/26/2017	SeqNo:	2675103	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		1.010	0.050	1.000	0	101	74	133				
Surrogate: Chlorobenzene - d5		46.609		50.00		93.2	72	143				
Sample ID	N024728-001AMSD	SampType:	MSD	TestCode:	8015GAS_W	Units:	mg/L	Prep Date:		RunNo:	115977	
Client ID:	ZZZZZZ	Batch ID:	E17VW059	TestNo:	EPA 8015B			Analysis Date:	6/26/2017	SeqNo:	2675104	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO		1.045	0.050	1.000	0	104	74	133	1.010	3.41	30	
Surrogate: Chlorobenzene - d5		50.290		50.00		101	72	143		0		

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	P170623LCS	SampType:	LCS	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944			
Client ID:	LCSS	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date: 6/24/2017			SeqNo: 2674429		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1,2-Tetrachloroethane		37.810		5.0	40.00	0	94.5	79	123					
1,1,1-Trichloroethane		36.890		5.0	40.00	0	92.2	77	126					
1,1,2,2-Tetrachloroethane		36.740		5.0	40.00	0	91.9	75	127					
1,1,2-Trichloroethane		33.820		5.0	40.00	0	84.6	78	116					
1,1-Dichloroethane		35.380		5.0	40.00	0	88.4	60	134					
1,1-Dichloroethene		35.760		5.0	40.00	0	89.4	67	129					
1,1-Dichloropropene		37.620		5.0	40.00	0	94.1	84	132					
1,2,3-Trichlorobenzene		38.350		5.0	40.00	0	95.9	77	127					
1,2,3-Trichloropropane		35.220		5.0	40.00	0	88.0	72	125					
1,2,4-Trichlorobenzene		38.470		5.0	40.00	0	96.2	72	128					
1,2,4-Trimethylbenzene		37.410		5.0	40.00	0	93.5	87	130					
1,2-Dibromo-3-chloropropane		34.090		10	40.00	0	85.2	70	128					
1,2-Dibromoethane		34.680		5.0	40.00	0	86.7	81	121					
1,2-Dichlorobenzene		37.420		5.0	40.00	0	93.6	83	126					
1,2-Dichloroethane		36.050		5.0	40.00	0	90.1	78	119					
1,2-Dichloropropane		36.540		5.0	40.00	0	91.4	81	120					
1,3,5-Trimethylbenzene		38.050		5.0	40.00	0	95.1	89	129					
1,3-Dichlorobenzene		36.360		5.0	40.00	0	90.9	83	124					
1,3-Dichloropropane		39.040		5.0	40.00	0	97.6	83	123					
1,4-Dichlorobenzene		37.090		5.0	40.00	0	92.7	80	125					
2,2-Dichloropropane		33.690		5.0	40.00	0	84.2	64	135					
2-Butanone		338.020		50	400.0	0	84.5	20	168					
2-Chlorotoluene		36.730		5.0	40.00	0	91.8	83	123					
4-Chlorotoluene		37.440		5.0	40.00	0	93.6	84	128					
4-Isopropyltoluene		38.000		5.0	40.00	0	95.0	86	136					
Benzene		35.680		5.0	40.00	0	89.2	83	120					
Bromobenzene		35.730		5.0	40.00	0	89.3	81	120					
Bromodichloromethane		36.930		5.0	40.00	0	92.3	81	120					
Bromoform		35.480		5.0	40.00	0	88.7	72	129					
Bromomethane		39.480		5.0	40.00	0	98.7	32	152					

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	P170623LCS	SampType:	LCS	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944			
Client ID:	LCSS	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date: 6/24/2017			SeqNo: 2674429		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon tetrachloride		37.650		5.0	40.00	0	94.1	74	135					
Chlorobenzene		37.570		5.0	40.00	0	93.9	84	123					
Chloroethane		41.780		5.0	40.00	0	104	69	153					
Chloroform		35.670		5.0	40.00	0	89.2	76	116					
Chloromethane		39.310		5.0	40.00	0	98.3	47	135					
cis-1,2-Dichloroethene		35.990		5.0	40.00	0	90.0	80	119					
cis-1,3-Dichloropropene		38.230		5.0	40.00	0	95.6	82	127					
Dibromochloromethane		37.420		5.0	40.00	0	93.6	81	127					
Dibromomethane		36.450		5.0	40.00	0	91.1	79	117					
Dichlorodifluoromethane		38.140		5.0	40.00	0	95.4	26	188					
Ethylbenzene		36.740		5.0	40.00	0	91.9	84	123					
Freon-113		32.090		5.0	40.00	0	80.2	48	130					
Hexachlorobutadiene		37.490		5.0	40.00	0	93.7	77	134					
Isopropylbenzene		31.450		5.0	40.00	0	78.6	66	129					
m,p-Xylene		75.850		10	80.00	0	94.8	86	126					
Methylene chloride		36.850		5.0	40.00	0	92.1	65	131					
MTBE		35.530		5.0	40.00	0	88.8	70	114					
n-Butylbenzene		37.200		5.0	40.00	0	93.0	79	138					
n-Propylbenzene		38.290		5.0	40.00	0	95.7	86	132					
Naphthalene		39.860		5.0	40.00	0	99.7	69	124					
o-Xylene		38.680		5.0	40.00	0	96.7	87	127					
sec-Butylbenzene		37.770		5.0	40.00	0	94.4	87	134					
Styrene		36.880		5.0	40.00	0	92.2	88	124					
tert-Butylbenzene		38.390		5.0	40.00	0	96.0	87	134					
Tetrachloroethene		36.710		5.0	40.00	0	91.8	82	127					
Toluene		33.930		5.0	40.00	0	84.8	78	118					
trans-1,2-Dichloroethene		36.630		5.0	40.00	0	91.6	74	124					
Trichloroethene		36.500		5.0	40.00	0	91.2	82	123					
Trichlorofluoromethane		38.970		5.0	40.00	0	97.4	68	148					
Vinyl chloride		41.650		5.0	40.00	0	104	61	137					

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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ORELAP/NELAP Cert 4046

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260SOIL**

Sample ID <b>P170623LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>115944</b>
Client ID: <b>LCSS</b>	Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/24/2017</b>	SeqNo: <b>2674429</b>
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Surr: 1,2-Dichloroethane-d4	48.570		50.00		97.1
Surr: 4-Bromofluorobenzene	51.410		50.00		103
Surr: Dibromofluoromethane	52.060		50.00		104
Surr: Toluene-d8	50.880		50.00		102
<hr/>					
Sample ID <b>P170623MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>115944</b>
Client ID: <b>PBS</b>	Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/24/2017</b>	SeqNo: <b>2674430</b>
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
1,1,1,2-Tetrachloroethane	ND	5.0			
1,1,1-Trichloroethane	ND	5.0			
1,1,2,2-Tetrachloroethane	ND	5.0			
1,1,2-Trichloroethane	ND	5.0			
1,1-Dichloroethane	ND	5.0			
1,1-Dichloroethene	ND	5.0			
1,1-Dichloropropene	ND	5.0			
1,2,3-Trichlorobenzene	ND	5.0			
1,2,3-Trichloropropane	ND	5.0			
1,2,4-Trichlorobenzene	ND	5.0			
1,2,4-Trimethylbenzene	ND	5.0			
1,2-Dibromo-3-chloropropane	ND	10			
1,2-Dibromoethane	ND	5.0			
1,2-Dichlorobenzene	ND	5.0			
1,2-Dichloroethane	ND	5.0			
1,2-Dichloropropene	ND	5.0			
1,3,5-Trimethylbenzene	ND	5.0			
1,3-Dichlorobenzene	ND	5.0			
1,3-Dichloropropene	ND	5.0			
1,4-Dichlorobenzene	ND	5.0			
2,2-Dichloropropene	ND	5.0			

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**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	P170623MB3	SampType:	MBLK	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:		RunNo:	115944
Client ID:	PBS	Batch ID:	P17VS072	TestNo:	EPA 8260B			Analysis Date:	6/24/2017	SeqNo:	2674430
<hr/>											
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
2-Butanone		ND		50							
2-Chlorotoluene		ND		5.0							
4-Chlorotoluene		ND		5.0							
4-Isopropyltoluene		ND		5.0							
Benzene		ND		5.0							
Bromobenzene		ND		5.0							
Bromodichloromethane		ND		5.0							
Bromoform		ND		5.0							
Bromomethane		ND		5.0							
Carbon tetrachloride		ND		5.0							
Chlorobenzene		ND		5.0							
Chloroethane		ND		5.0							
Chloroform		ND		5.0							
Chloromethane		ND		5.0							
cis-1,2-Dichloroethene		ND		5.0							
cis-1,3-Dichloropropene		ND		5.0							
Dibromochloromethane		ND		5.0							
Dibromomethane		ND		5.0							
Dichlorodifluoromethane		ND		5.0							
Ethylbenzene		ND		5.0							
Freon-113		ND		5.0							
Hexachlorobutadiene		ND		5.0							
Isopropylbenzene		ND		5.0							
m,p-Xylene		ND		10							
Methylene chloride		ND		5.0							
MTBE		ND		5.0							
n-Butylbenzene		ND		5.0							
n-Propylbenzene		ND		5.0							
Naphthalene		ND		5.0							
o-Xylene		ND		5.0							

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260SOIL**

Sample ID <b>P170623MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>115944</b>
Client ID: <b>PBS</b>	Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/24/2017</b>	SeqNo: <b>2674430</b>
<b>Analyte</b> <b>Result</b> <b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>RPD Ref Val</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>					

sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									
Surr: 1,2-Dichloroethane-d4	53.010	50.00		106	71	154					
Surr: 4-Bromofluorobenzene	51.320	50.00		103	80	125					
Surr: Dibromofluoromethane	54.970	50.00		110	80	128					
Surr: Toluene-d8	52.510	50.00		105	80	120					

Sample ID <b>N024685-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>115944</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/24/2017</b>	SeqNo: <b>2674441</b>
<b>Analyte</b> <b>Result</b> <b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>RPD Ref Val</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>					

1,1,1,2-Tetrachloroethane	29.330	5.0	40.00	0	73.3	51	129				
1,1,1-Trichloroethane	32.450	5.0	40.00	0	81.1	56	128				
1,1,2,2-Tetrachloroethane	30.750	5.0	40.00	0	76.9	35	170				
1,1,2-Trichloroethane	33.580	5.0	40.00	0	84.0	63	134				
1,1-Dichloroethane	30.590	5.0	40.00	0	76.5	50	123				
1,1-Dichloroethene	35.170	5.0	40.00	0	87.9	54	126				
1,1-Dichloropropene	33.670	5.0	40.00	0	84.2	63	131				
1,2,3-Trichlorobenzene	24.390	5.0	40.00	0	61.0	13	147				
1,2,3-Trichloropropane	34.650	5.0	40.00	0	86.6	51	158				
1,2,4-Trichlorobenzene	22.070	5.0	40.00	0	55.2	19	134				
1,2,4-Trimethylbenzene	26.130	5.0	40.00	0	65.3	40	145				
1,2-Dibromo-3-chloropropane	38.240	10	40.00	0	95.6	52	171				

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	N024685-001AMS	SampType:	MS	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944			
Client ID:	ZZZZZZ	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date: 6/24/2017			SeqNo: 2674441		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2-Dibromoethane		35.820		5.0	40.00	0	89.6	65	145					
1,2-Dichlorobenzene		26.210		5.0	40.00	0	65.5	44	134					
1,2-Dichloroethane		32.600		5.0	40.00	0	81.5	62	129					
1,2-Dichloropropane		30.770		5.0	40.00	0	76.9	58	126					
1,3,5-Trimethylbenzene		26.650		5.0	40.00	0	66.6	44	142					
1,3-Dichlorobenzene		25.010		5.0	40.00	0	62.5	41	130					
1,3-Dichloropropane		35.300		5.0	40.00	0	88.2	64	142					
1,4-Dichlorobenzene		25.320		5.0	40.00	0	63.3	42	128					
2,2-Dichloropropane		29.130		5.0	40.00	0	72.8	45	136					
2-Butanone		659.840		50	400.0	0	165	3	227					
2-Chlorotoluene		25.940		5.0	40.00	0	64.9	42	132					
4-Chlorotoluene		26.280		5.0	40.00	0	65.7	43	135					
4-Isopropyltoluene		26.600		5.0	40.00	0	66.5	43	144					
Benzene		31.030		5.0	40.00	0	77.6	58	122					
Bromobenzene		27.220		5.0	40.00	0	68.0	44	130					
Bromo dichloromethane		31.890		5.0	40.00	0	79.7	58	125					
Bromoform		32.830		5.0	40.00	0	82.1	50	154					
Bromomethane		36.360		5.0	40.00	0	90.9	40	120					
Carbon tetrachloride		32.740		5.0	40.00	0	81.8	56	131					
Chlorobenzene		28.980		5.0	40.00	0	72.4	56	123					
Chloroethane		39.590		5.0	40.00	0	99.0	30	146					
Chloroform		30.730		5.0	40.00	0	76.8	56	119					
Chloromethane		35.680		5.0	40.00	0	89.2	39	131					
cis-1,2-Dichloroethene		31.250		5.0	40.00	0	78.1	34	141					
cis-1,3-Dichloropropene		31.570		5.0	40.00	0	78.9	53	139					
Dibromo dichloromethane		31.810		5.0	40.00	0	79.5	59	140					
Dibromomethane		34.500		5.0	40.00	0	86.2	64	134					
Dichlorodifluoromethane		37.440		5.0	40.00	0	93.6	12	200					
Ethylbenzene		28.560		5.0	40.00	0	71.4	54	125					
Freon-113		31.390		5.0	40.00	0	78.5	34	128					

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	N024685-001AMS	SampType:	MS	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944			
Client ID:	ZZZZZZ	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date: 6/24/2017			SeqNo: 2674441		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Hexachlorobutadiene		24.150	5.0	40.00	0	60.4	33	127						
Isopropylbenzene		23.690	5.0	40.00	0	59.2	25	141						
m,p-Xylene		57.210	10	80.00	0	71.5	52	130						
Methylene chloride		32.560	5.0	40.00	0	81.4	53	123						
MTBE		34.990	5.0	40.00	0	87.5	59	128						
n-Butylbenzene		24.730	5.0	40.00	0	61.8	31	142						
n-Propylbenzene		28.180	5.0	40.00	0	70.4	47	138						
Naphthalene		30.370	5.0	40.00	0	75.9	30	154						
o-Xylene		28.940	5.0	40.00	0	72.4	54	130						
sec-Butylbenzene		28.150	5.0	40.00	0	70.4	49	139						
Styrene		27.650	5.0	40.00	0	69.1	50	127						
tert-Butylbenzene		28.480	5.0	40.00	0	71.2	48	140						
Tetrachloroethene		29.840	5.0	40.00	0	74.6	56	125						
Toluene		28.080	5.0	40.00	0	70.2	54	119						
trans-1,2-Dichloroethene		32.120	5.0	40.00	0	80.3	60	116						
Trichloroethene		34.930	5.0	40.00	0	87.3	33	153						
Trichlorofluoromethane		38.520	5.0	40.00	0	96.3	30	161						
Vinyl chloride		40.990	5.0	40.00	0	102	43	140						
Surrogate: 1,2-Dichloroethane-d4		62.780		50.00		126	71	154						
Surrogate: 4-Bromofluorobenzene		52.830		50.00		106	80	125						
Surrogate: Dibromofluoromethane		55.890		50.00		112	80	128						
Surrogate: Toluene-d8		51.890		50.00		104	80	120						

Sample ID	N024685-001AMSD	SampType:	MSD	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944			
Client ID:	ZZZZZZ	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date: 6/24/2017			SeqNo: 2674442		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1,1,2-Tetrachloroethane		26.940	5.0	40.00	0	67.4	51	129	29.33	8.49	20			
1,1,1-Trichloroethane		31.710	5.0	40.00	0	79.3	56	128	32.45	2.31	20			
1,1,2,2-Tetrachloroethane		23.980	5.0	40.00	0	60.0	35	170	30.75	24.7	20	R		

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID	N024685-001AMSD	SampType:	MSD	TestCode:	8260SOIL	Units:	µg/Kg	Prep Date:			RunNo: 115944		
Client ID:	ZZZZZZ	Batch ID:	P17VS072	TestNo:	EPA 8260B				Analysis Date:	6/24/2017	SeqNo: 2674442		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane		29.850		5.0	40.00	0	74.6	63	134	33.58	11.8	20	
1,1-Dichloroethane		29.830		5.0	40.00	0	74.6	50	123	30.59	2.52	20	
1,1-Dichloroethene		34.190		5.0	40.00	0	85.5	54	126	35.17	2.83	20	
1,1-Dichloropropene		32.220		5.0	40.00	0	80.6	63	131	33.67	4.40	20	
1,2,3-Trichlorobenzene		24.220		5.0	40.00	0	60.6	13	147	24.39	0.699	20	
1,2,3-Trichloropropane		31.100		5.0	40.00	0	77.8	51	158	34.65	10.8	20	
1,2,4-Trichlorobenzene		22.380		5.0	40.00	0	56.0	19	134	22.07	1.39	20	
1,2,4-Trimethylbenzene		25.230		5.0	40.00	0	63.1	40	145	26.13	3.50	20	
1,2-Dibromo-3-chloropropane		34.570		10	40.00	0	86.4	52	171	38.24	10.1	20	
1,2-Dibromoethane		31.710		5.0	40.00	0	79.3	65	145	35.82	12.2	20	
1,2-Dichlorobenzene		26.420		5.0	40.00	0	66.1	44	134	26.21	0.798	20	
1,2-Dichloroethane		30.650		5.0	40.00	0	76.6	62	129	32.60	6.17	20	
1,2-Dichloropropane		29.800		5.0	40.00	0	74.5	58	126	30.77	3.20	20	
1,3,5-Trimethylbenzene		25.800		5.0	40.00	0	64.5	44	142	26.65	3.24	20	
1,3-Dichlorobenzene		24.360		5.0	40.00	0	60.9	41	130	25.01	2.63	20	
1,3-Dichloropropane		31.910		5.0	40.00	0	79.8	64	142	35.30	10.1	20	
1,4-Dichlorobenzene		24.980		5.0	40.00	0	62.4	42	128	25.32	1.35	20	
2,2-Dichloropropane		29.520		5.0	40.00	0	73.8	45	136	29.13	1.33	20	
2-Butanone		594.870		50	400.0	0	149	3	227	659.8	10.4	20	
2-Chlorotoluene		25.350		5.0	40.00	0	63.4	42	132	25.94	2.30	20	
4-Chlorotoluene		25.370		5.0	40.00	0	63.4	43	135	26.28	3.52	20	
4-Isopropyltoluene		25.930		5.0	40.00	0	64.8	43	144	26.60	2.55	20	
Benzene		28.560		5.0	40.00	0	71.4	58	122	31.03	8.29	20	
Bromobenzene		25.470		5.0	40.00	0	63.7	44	130	27.22	6.64	20	
Bromodichloromethane		29.410		5.0	40.00	0	73.5	58	125	31.89	8.09	20	
Bromoform		30.030		5.0	40.00	0	75.1	50	154	32.83	8.91	20	
Bromomethane		35.580		5.0	40.00	0	89.0	40	120	36.36	2.17	20	
Carbon tetrachloride		31.150		5.0	40.00	0	77.9	56	131	32.74	4.98	20	
Chlorobenzene		26.920		5.0	40.00	0	67.3	56	123	28.98	7.37	20	
Chloroethane		38.290		5.0	40.00	0	95.7	30	146	39.59	3.34	20	

**Qualifiers:**

B Analyte detected in the associated Method Blank  
ND Not Detected at the Reporting Limit  
DO Surrogate Diluted Out

E Value above quantitation range  
R RPD outside accepted recovery limits  
Calculations are based on raw values

H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID <b>N024685-001AMSD</b>		SampType: <b>MSD</b>	TestCode: <b>8260SOIL</b>		Units: <b>µg/Kg</b>		Prep Date:				RunNo: <b>115944</b>		
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>				Analysis Date: <b>6/24/2017</b>			SeqNo: <b>2674442</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloroform	29.140	5.0	40.00	0	72.9	56	119	30.73	5.31	20			
Chloromethane	35.510	5.0	40.00	0	88.8	39	131	35.68	0.478	20			
cis-1,2-Dichloroethene	29.160	5.0	40.00	0	72.9	34	141	31.25	6.92	20			
cis-1,3-Dichloropropene	28.750	5.0	40.00	0	71.9	53	139	31.57	9.35	20			
Dibromochloromethane	28.460	5.0	40.00	0	71.2	59	140	31.81	11.1	20			
Dibromomethane	31.150	5.0	40.00	0	77.9	64	134	34.50	10.2	20			
Dichlorodifluoromethane	37.350	5.0	40.00	0	93.4	12	200	37.44	0.241	20			
Ethylbenzene	26.840	5.0	40.00	0	67.1	54	125	28.56	6.21	20			
Freon-113	29.800	5.0	40.00	0	74.5	34	128	31.39	5.20	20			
Hexachlorobutadiene	24.090	5.0	40.00	0	60.2	33	127	24.15	0.249	20			
Isopropylbenzene	22.320	5.0	40.00	0	55.8	25	141	23.69	5.96	20			
m,p-Xylene	52.770	10	80.00	0	66.0	52	130	57.21	8.07	20			
Methylene chloride	31.450	5.0	40.00	0	78.6	53	123	32.56	3.47	20			
MTBE	32.370	5.0	40.00	0	80.9	59	128	34.99	7.78	20			
n-Butylbenzene	24.780	5.0	40.00	0	62.0	31	142	24.73	0.202	20			
n-Propylbenzene	27.180	5.0	40.00	0	68.0	47	138	28.18	3.61	20			
Naphthalene	31.720	5.0	40.00	0	79.3	30	154	30.37	4.35	20			
o-Xylene	27.140	5.0	40.00	0	67.8	54	130	28.94	6.42	20			
sec-Butylbenzene	27.090	5.0	40.00	0	67.7	49	139	28.15	3.84	20			
Styrene	25.890	5.0	40.00	0	64.7	50	127	27.65	6.57	20			
tert-Butylbenzene	27.390	5.0	40.00	0	68.5	48	140	28.48	3.90	20			
Tetrachloroethene	27.590	5.0	40.00	0	69.0	56	125	29.84	7.84	20			
Toluene	26.290	5.0	40.00	0	65.7	54	119	28.08	6.58	20			
trans-1,2-Dichloroethene	31.080	5.0	40.00	0	77.7	60	116	32.12	3.29	20			
Trichloroethene	36.080	5.0	40.00	0	90.2	33	153	34.93	3.24	20			
Trichlorofluoromethane	37.860	5.0	40.00	0	94.6	30	161	38.52	1.73	20			
Vinyl chloride	39.890	5.0	40.00	0	99.7	43	140	40.99	2.72	20			
Surrogate: 1,2-Dichloroethane-d4	62.130		50.00		124	71	154		0				
Surrogate: 4-Bromofluorobenzene	52.000		50.00		104	80	125		0				
Surrogate: Dibromofluoromethane	56.490		50.00		113	80	128		0				

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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 3151 W. Post Rd., Las Vegas, NV 89118  
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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260SOIL

Sample ID: <b>N024685-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260SOIL</b>	Units: <b>µg/Kg</b>	Prep Date:	RunNo: <b>115944</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>P17VS072</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/24/2017</b>	SeqNo: <b>2674442</b>
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Surr: Toluene-d8	50.980		50.00		102
				80	120
					0

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**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260WATERP

Sample ID	P170622LCS	SampType:	LCS	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	LCSW	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672387		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1,1,2-Tetrachloroethane		18.940	0.50	20.00	0	94.7	80	122						
1,1,1-Trichloroethane		17.750	0.50	20.00	0	88.8	80	125						
1,1,2,2-Tetrachloroethane		19.540	0.50	20.00	0	97.7	76	124						
1,1,2-Trichloroethane		19.870	0.50	20.00	0	99.4	80	120						
1,1-Dichloroethane		17.020	0.50	20.00	0	85.1	67	128						
1,1-Dichloroethene		21.960	0.50	20.00	0	110	66	131						
1,1-Dichloropropene		19.660	0.50	20.00	0	98.3	80	132						
1,2,3-Trichlorobenzene		20.440	0.50	20.00	0	102	76	122						
1,2,3-Trichloropropane		19.210	0.50	20.00	0	96.0	75	121						
1,2,4-Trichlorobenzene		20.510	0.50	20.00	0	103	73	121						
1,2,4-Trimethylbenzene		19.880	0.50	20.00	0	99.4	80	125						
1,2-Dibromo-3-chloropropane		17.500	1.0	20.00	0	87.5	66	129						
1,2-Dibromoethane		19.500	0.50	20.00	0	97.5	80	120						
1,2-Dichlorobenzene		20.370	0.50	20.00	0	102	80	120						
1,2-Dichloroethane		17.790	0.50	20.00	0	89.0	80	120						
1,2-Dichloropropane		17.960	0.50	20.00	0	89.8	80	120						
1,3,5-Trimethylbenzene		19.380	0.50	20.00	0	96.9	80	128						
1,3-Dichlorobenzene		20.090	0.50	20.00	0	100	80	120						
1,3-Dichloropropane		19.170	0.50	20.00	0	95.9	80	120						
1,4-Dichlorobenzene		20.590	0.50	20.00	0	103	80	120						
2,2-Dichloropropane		17.220	0.50	20.00	0	86.1	69	136						
2-Butanone		146.430	5.0	200.0	0	73.2	10	171						
2-Chlorotoluene		18.840	0.50	20.00	0	94.2	80	120						
4-Chlorotoluene		19.430	0.50	20.00	0	97.2	80	122						
4-Isopropyltoluene		20.140	0.50	20.00	0	101	80	133						
Benzene		19.240	0.50	20.00	0	96.2	80	120						
Bromobenzene		20.350	0.50	20.00	0	102	80	120						
Bromodichloromethane		17.890	0.50	20.00	0	89.4	80	120						
Bromoform		16.210	0.50	20.00	0	81.0	67	130						
Bromomethane		23.960	1.0	20.00	0	120	21	148						

**Qualifiers:**

B Analyte detected in the associated Method Blank  
ND Not Detected at the Reporting Limit  
DO Surrogate Diluted Out

E Value above quantitation range  
R RPD outside accepted recovery limits  
Calculations are based on raw values

H Holding times for preparation or analysis exceeded  
S Spike/Surrogate outside of limits due to matrix interference



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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260WATERP**

Sample ID	P170622LCS	SampType:	LCS	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	LCSW	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672387		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Carbon tetrachloride		18.210		0.50	20.00	0	91.1	76	138					
Chlorobenzene		20.090		0.50	20.00	0	100	80	120					
Chloroethane		21.750		1.0	20.00	0	109	67	155					
Chloroform		16.980		0.50	20.00	0	84.9	79	120					
Chloromethane		18.110		0.50	20.00	0	90.6	33	145					
cis-1,2-Dichloroethene		18.290		0.50	20.00	0	91.4	80	120					
cis-1,3-Dichloropropene		18.200		0.50	20.00	0	91.0	80	121					
Dibromochloromethane		18.250		0.50	20.00	0	91.2	77	131					
Dibromomethane		18.150		0.50	20.00	0	90.8	80	120					
Dichlorodifluoromethane		28.180		0.50	20.00	0	141	40	169					
Ethylbenzene		19.240		0.50	20.00	0	96.2	80	121					
Freon-113		18.770		0.50	20.00	0	93.8	47	132					
Hexachlorobutadiene		19.670		0.50	20.00	0	98.4	80	132					
Isopropylbenzene		16.710		0.50	20.00	0	83.6	59	128					
m,p-Xylene		38.880		1.0	40.00	0	97.2	80	124					
Methylene chloride		14.700		2.0	20.00	0	73.5	68	126					
MTBE		16.420		0.50	20.00	0	82.1	65	120					
n-Butylbenzene		20.090		0.50	20.00	0	100	74	139					
n-Propylbenzene		19.900		0.50	20.00	0	99.5	80	129					
Naphthalene		19.880		0.50	20.00	0	99.4	67	123					
o-Xylene		19.390		0.50	20.00	0	97.0	80	123					
sec-Butylbenzene		19.900		0.50	20.00	0	99.5	80	133					
Styrene		19.310		0.50	20.00	0	96.6	80	122					
tert-Butylbenzene		19.980		0.50	20.00	0	99.9	80	130					
Tetrachloroethene		19.690		0.50	20.00	0	98.4	80	129					
Toluene		19.360		0.50	20.00	0	96.8	80	120					
trans-1,2-Dichloroethene		18.060		0.50	20.00	0	90.3	75	122					
Trichloroethene		20.270		0.50	20.00	0	101	80	120					
Trichlorofluoromethane		24.510		0.50	20.00	0	123	71	149					
Vinyl chloride		21.550		0.50	20.00	0	108	53	146					

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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3151 W. Post Rd., Las Vegas, NV 89118  
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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260WATERP**

Sample ID <b>P170622LCS</b>	SampType: <b>LCS</b>	TestCode: <b>8260WATER</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>115920</b>
Client ID: <b>LCSW</b>	Batch ID: <b>P17VW102</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/22/2017</b>	SeqNo: <b>2672387</b>
<b>Analyte</b>					
Surr: 1,2-Dichloroethane-d4	21.060	25.00	84.2	73	127
Surr: 4-Bromofluorobenzene	23.300	25.00	93.2	80	120
Surr: Dibromofluoromethane	23.460	25.00	93.8	80	121
Surr: Toluene-d8	23.560	25.00	94.2	80	120
<b>Analyte</b>					
1,1,1,2-Tetrachloroethane	ND	0.50			
1,1,1-Trichloroethane	ND	0.50			
1,1,2,2-Tetrachloroethane	ND	0.50			
1,1,2-Trichloroethane	ND	0.50			
1,1-Dichloroethane	ND	0.50			
1,1-Dichloroethene	ND	0.50			
1,1-Dichloropropene	ND	0.50			
1,2,3-Trichlorobenzene	ND	0.50			
1,2,3-Trichloropropane	ND	0.50			
1,2,4-Trichlorobenzene	ND	0.50			
1,2,4-Trimethylbenzene	ND	0.50			
1,2-Dibromo-3-chloropropane	ND	1.0			
1,2-Dibromoethane	ND	0.50			
1,2-Dichlorobenzene	ND	0.50			
1,2-Dichloroethane	ND	0.50			
1,2-Dichloropropane	ND	0.50			
1,3,5-Trimethylbenzene	ND	0.50			
1,3-Dichlorobenzene	ND	0.50			
1,3-Dichloropropane	ND	0.50			
1,4-Dichlorobenzene	ND	0.50			
2,2-Dichloropropane	ND	0.50			

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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 ORELAP/NELAP Cert 4046

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260WATERP

Sample ID	P170622MB3	SampType:	MBLK	TestCode:	8260WATER	Units:	µg/L	Prep Date:		RunNo:	115920
Client ID:	PBW	Batch ID:	P17VW102	TestNo:	EPA 8260B			Analysis Date:	6/22/2017	SeqNo:	2672390
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
2-Butanone		ND		5.0							
2-Chlorotoluene		ND		0.50							
4-Chlorotoluene		ND		0.50							
4-Isopropyltoluene		ND		0.50							
Benzene		ND		0.50							
Bromobenzene		ND		0.50							
Bromodichloromethane		ND		0.50							
Bromoform		ND		0.50							
Bromomethane		ND		1.0							
Carbon tetrachloride		ND		0.50							
Chlorobenzene		ND		0.50							
Chloroethane		ND		1.0							
Chloroform		ND		0.50							
Chloromethane		ND		0.50							
cis-1,2-Dichloroethene		ND		0.50							
cis-1,3-Dichloropropene		ND		0.50							
Dibromochloromethane		ND		0.50							
Dibromomethane		ND		0.50							
Dichlorodifluoromethane		ND		0.50							
Ethylbenzene		ND		0.50							
Freon-113		ND		0.50							
Hexachlorobutadiene		ND		0.50							
Isopropylbenzene		ND		0.50							
m,p-Xylene		ND		1.0							
Methylene chloride		ND		2.0							
MTBE		ND		0.50							
n-Butylbenzene		ND		0.50							
n-Propylbenzene		ND		0.50							
Naphthalene		ND		0.50							
o-Xylene		ND		0.50							

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260WATERP**

Sample ID <b>P170622MB3</b>	SampType: <b>MBLK</b>	TestCode: <b>8260WATER</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>115920</b>
Client ID: <b>PBW</b>	Batch ID: <b>P17VW102</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/22/2017</b>	SeqNo: <b>2672390</b>
<b>Analyte</b>					
sec-Butylbenzene	Result	PQL	SPK value	SPK Ref Val	%REC
Styrene	ND	0.50			
tert-Butylbenzene	ND	0.50			
Tetrachloroethene	ND	0.50			
Toluene	ND	0.50			
trans-1,2-Dichloroethene	ND	0.50			
Trichloroethene	ND	0.50			
Trichlorofluoromethane	ND	0.50			
Vinyl chloride	ND	0.50			
Surr: 1,2-Dichloroethane-d4	20.970	25.00		83.9	73
Surr: 4-Bromofluorobenzene	23.160	25.00		92.6	80
Surr: Dibromofluoromethane	22.760	25.00		91.0	80
Surr: Toluene-d8	23.910	25.00		95.6	80
<b>Sample ID N024637-001AMS</b>					
Client ID: <b>ZZZZZZ</b>	SampType: <b>MS</b>	TestCode: <b>8260WATER</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>115920</b>
Batch ID: <b>P17VW102</b>	TestNo: <b>EPA 8260B</b>			Analysis Date: <b>6/22/2017</b>	SeqNo: <b>2672393</b>
<b>Analyte</b>					
1,1,1,2-Tetrachloroethane	18.490	0.50	20.00	0	92.5
1,1,1-Trichloroethane	18.430	0.50	20.00	0	92.2
1,1,2,2-Tetrachloroethane	19.610	0.50	20.00	0	98.0
1,1,2-Trichloroethane	18.760	0.50	20.00	0	93.8
1,1-Dichloroethane	16.740	0.50	20.00	0	83.7
1,1-Dichloroethene	24.360	0.50	20.00	0	122
1,1-Dichloropropene	20.800	0.50	20.00	0	104
1,2,3-Trichlorobenzene	19.090	0.50	20.00	0	95.4
1,2,3-Trichloropropane	18.860	0.50	20.00	0	94.3
1,2,4-Trichlorobenzene	19.850	0.50	20.00	0	99.2
1,2,4-Trimethylbenzene	20.410	0.50	20.00	0	102
1,2-Dibromo-3-chloropropane	16.220	1.0	20.00	0	81.1

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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3151 W. Post Rd., Las Vegas, NV 89118  
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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260WATERP

Sample ID	N024637-001AMS	SampType:	MS	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	ZZZZZZ	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672393		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,2-Dibromoethane		18.670		0.50	20.00	0	93.4	78	120					
1,2-Dichlorobenzene		20.320		0.50	20.00	0	102	80	120					
1,2-Dichloroethane		17.610		0.50	20.00	0	88.0	78	120					
1,2-Dichloropropane		18.020		0.50	20.00	0	90.1	79	120					
1,3,5-Trimethylbenzene		20.040		0.50	20.00	0	100	57	154					
1,3-Dichlorobenzene		20.200		0.50	20.00	0	101	80	120					
1,3-Dichloropropane		18.810		0.50	20.00	0	94.1	80	120					
1,4-Dichlorobenzene		20.550		0.50	20.00	0	103	80	120					
2,2-Dichloropropane		18.120		0.50	20.00	0	90.6	61	144					
2-Butanone		131.950		5.0	200.0	0	66.0	9	120					
2-Chlorotoluene		19.520		0.50	20.00	0	97.6	78	126					
4-Chlorotoluene		19.490		0.50	20.00	0	97.5	80	128					
4-Isopropyltoluene		20.940		0.50	20.00	0	105	78	142					
Benzene		19.910		0.50	20.00	0	99.6	56	145					
Bromobenzene		20.320		0.50	20.00	0	102	80	120					
Bromodichloromethane		17.830		0.50	20.00	0	89.2	80	120					
Bromoform		15.730		0.50	20.00	0	78.7	64	126					
Bromomethane		28.940		1.0	20.00	0	145	13	157					
Carbon tetrachloride		19.580		0.50	20.00	0	97.9	72	143					
Chlorobenzene		20.140		0.50	20.00	0	101	80	120					
Chloroethane		23.230		1.0	20.00	0	116	62	172					
Chloroform		16.930		0.50	20.00	0	84.6	73	120					
Chloromethane		18.430		0.50	20.00	0	92.2	33	146					
cis-1,2-Dichloroethylene		18.550		0.50	20.00	0	92.8	74	124					
cis-1,3-Dichloropropene		17.900		0.50	20.00	0	89.5	80	123					
Dibromochloromethane		17.820		0.50	20.00	0	89.1	75	126					
Dibromomethane		17.740		0.50	20.00	0	88.7	79	120					
Dichlorodifluoromethane		31.640		0.50	20.00	0	158	29	184					
Ethylbenzene		19.750		0.50	20.00	0	98.8	80	126					
Freon-113		20.940		0.50	20.00	0	105	49	135					

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260WATERP**

Sample ID	N024637-001AMS	SampType:	MS	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	ZZZZZZ	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672393		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Hexachlorobutadiene		20.340	0.50	20.00	0	102	76	136						
Isopropylbenzene		17.840	0.50	20.00	0	89.2	56	135						
m,p-Xylene		38.880	1.0	40.00	0	97.2	80	130						
Methylene chloride		14.060	2.0	20.00	0	70.3	0	187						
MTBE		15.920	0.50	20.00	0	79.6	61	120						
n-Butylbenzene		20.710	0.50	20.00	0	104	67	148						
n-Propylbenzene		20.740	0.50	20.00	0	104	80	139						
Naphthalene		18.150	0.50	20.00	0	90.8	54	125						
o-Xylene		19.410	0.50	20.00	0	97.0	80	129						
sec-Butylbenzene		20.920	0.50	20.00	0	105	80	144						
Styrene		18.830	0.50	20.00	0	94.2	33	153						
tert-Butylbenzene		20.940	0.50	20.00	0	105	80	140						
Tetrachloroethene		20.570	0.50	20.00	0	103	69	146						
Toluene		19.920	0.50	20.00	0.3700	97.8	76	120						
trans-1,2-Dichloroethene		19.210	0.50	20.00	0	96.0	69	128						
Trichloroethene		21.150	0.50	20.00	0	106	72	132						
Trichlorofluoromethane		26.650	0.50	20.00	0	133	66	160						
Vinyl chloride		24.080	0.50	20.00	0	120	44	159						
Surrogate: 1,2-Dichloroethane-d4		21.590		25.00		86.4	73	127						
Surrogate: 4-Bromofluorobenzene		23.000		25.00		92.0	80	120						
Surrogate: Dibromofluoromethane		23.200		25.00		92.8	80	121						
Surrogate: Toluene-d8		24.110		25.00		96.4	80	120						

Sample ID	N024637-001AMSD	SampType:	MSD	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	ZZZZZZ	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672394		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
1,1,1,2-Tetrachloroethane		19.030	0.50	20.00	0	95.2	79	123	18.49	2.88	20			
1,1,1-Trichloroethane		18.410	0.50	20.00	0	92.0	76	133	18.43	0.109	20			
1,1,2,2-Tetrachloroethane		19.650	0.50	20.00	0	98.2	72	124	19.61	0.204	20			

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260WATERP

Sample ID	N024637-001AMSD	SampType:	MSD	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920		
Client ID:	ZZZZZZ	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date:	6/22/2017	SeqNo: 2672394		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane		19.650		0.50	20.00	0	98.2	76	120	18.76	4.63	20	
1,1-Dichloroethane		17.250		0.50	20.00	0	86.2	67	130	16.74	3.00	20	
1,1-Dichloroethene		23.810		0.50	20.00	0	119	63	135	24.36	2.28	20	
1,1-Dichloropropene		20.420		0.50	20.00	0	102	80	139	20.80	1.84	20	
1,2,3-Trichlorobenzene		20.360		0.50	20.00	0	102	71	122	19.09	6.44	20	
1,2,3-Trichloropropane		19.120		0.50	20.00	0	95.6	69	120	18.86	1.37	20	
1,2,4-Trichlorobenzene		20.400		0.50	20.00	0	102	66	125	19.85	2.73	20	
1,2,4-Trimethylbenzene		20.520		0.50	20.00	0	103	67	139	20.41	0.538	20	
1,2-Dibromo-3-chloropropane		16.760	1.0	20.00	0	83.8	65	120	16.22	3.27	20		
1,2-Dibromoethane		19.940		0.50	20.00	0	99.7	78	120	18.67	6.58	20	
1,2-Dichlorobenzene		20.710		0.50	20.00	0	104	80	120	20.32	1.90	20	
1,2-Dichloroethane		17.740		0.50	20.00	0	88.7	78	120	17.61	0.736	20	
1,2-Dichloropropane		18.440		0.50	20.00	0	92.2	79	120	18.02	2.30	20	
1,3,5-Trimethylbenzene		20.060		0.50	20.00	0	100	57	154	20.04	0.0998	20	
1,3-Dichlorobenzene		20.390		0.50	20.00	0	102	80	120	20.20	0.936	20	
1,3-Dichloropropane		20.070		0.50	20.00	0	100	80	120	18.81	6.48	20	
1,4-Dichlorobenzene		21.030		0.50	20.00	0	105	80	120	20.55	2.31	20	
2,2-Dichloropropane		17.540		0.50	20.00	0	87.7	61	144	18.12	3.25	20	
2-Butanone		140.370	5.0	200.0	0	70.2	9	120	132.0	6.18	20		
2-Chlorotoluene		19.530		0.50	20.00	0	97.6	78	126	19.52	0.0512	20	
4-Chlorotoluene		19.800		0.50	20.00	0	99.0	80	128	19.49	1.58	20	
4-Isopropyltoluene		20.800		0.50	20.00	0	104	78	142	20.94	0.671	20	
Benzene		19.800		0.50	20.00	0	99.0	56	145	19.91	0.554	20	
Bromobenzene		20.260		0.50	20.00	0	101	80	120	20.32	0.296	20	
Bromodichloromethane		18.200		0.50	20.00	0	91.0	80	120	17.83	2.05	20	
Bromoform		16.230		0.50	20.00	0	81.2	64	126	15.73	3.13	20	
Bromomethane		27.320	1.0	20.00	0	137	13	157	28.94	5.76	20		
Carbon tetrachloride		19.780		0.50	20.00	0	98.9	72	143	19.58	1.02	20	
Chlorobenzene		20.420		0.50	20.00	0	102	80	120	20.14	1.38	20	
Chloroethane		21.810	1.0	20.00	0	109	62	172	23.23	6.31	20		

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260WATERP**

Sample ID	N024637-001AMSD	SampType:	MSD	TestCode:	8260WATER	Units:	µg/L	Prep Date:			RunNo: 115920			
Client ID:	ZZZZZZ	Batch ID:	P17VW102	TestNo:	EPA 8260B				Analysis Date: 6/22/2017			SeqNo: 2672394		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloroform		17.200	0.50	20.00	0	86.0	73	120	16.93	1.58	20			
Chloromethane		18.790	0.50	20.00	0	94.0	33	146	18.43	1.93	20			
cis-1,2-Dichloroethene		19.110	0.50	20.00	0	95.6	74	124	18.55	2.97	20			
cis-1,3-Dichloropropene		18.730	0.50	20.00	0	93.6	80	123	17.90	4.53	20			
Dibromochloromethane		18.150	0.50	20.00	0	90.8	75	126	17.82	1.83	20			
Dibromomethane		18.680	0.50	20.00	0	93.4	79	120	17.74	5.16	20			
Dichlorodifluoromethane		29.790	0.50	20.00	0	149	29	184	31.64	6.02	20			
Ethylbenzene		19.840	0.50	20.00	0	99.2	80	126	19.75	0.455	20			
Freon-113		20.330	0.50	20.00	0	102	49	135	20.94	2.96	20			
Hexachlorobutadiene		20.590	0.50	20.00	0	103	76	136	20.34	1.22	20			
Isopropylbenzene		17.400	0.50	20.00	0	87.0	56	135	17.84	2.50	20			
m,p-Xylene		40.200	1.0	40.00	0	101	80	130	38.88	3.34	20			
Methylene chloride		14.380	2.0	20.00	0	71.9	0	187	14.06	2.25	20			
MTBE		16.570	0.50	20.00	0	82.8	61	120	15.92	4.00	20			
n-Butylbenzene		20.660	0.50	20.00	0	103	67	148	20.71	0.242	20			
n-Propylbenzene		20.640	0.50	20.00	0	103	80	139	20.74	0.483	20			
Naphthalene		19.730	0.50	20.00	0	98.6	54	125	18.15	8.34	20			
o-Xylene		19.790	0.50	20.00	0	99.0	80	129	19.41	1.94	20			
sec-Butylbenzene		20.710	0.50	20.00	0	104	80	144	20.92	1.01	20			
Styrene		18.870	0.50	20.00	0	94.4	33	153	18.83	0.212	20			
tert-Butylbenzene		20.400	0.50	20.00	0	102	80	140	20.94	2.61	20			
Tetrachloroethene		21.250	0.50	20.00	0	106	69	146	20.57	3.25	20			
Toluene		19.720	0.50	20.00	0.3700	96.8	76	120	19.92	1.01	20			
trans-1,2-Dichloroethene		18.890	0.50	20.00	0	94.4	69	128	19.21	1.68	20			
Trichloroethene		21.080	0.50	20.00	0	105	72	132	21.15	0.332	20			
Trichlorofluoromethane		25.860	0.50	20.00	0	129	66	160	26.65	3.01	20			
Vinyl chloride		23.450	0.50	20.00	0	117	44	159	24.08	2.65	20			
Sur: 1,2-Dichloroethane-d4		21.930		25.00		87.7	73	127		0				
Sur: 4-Bromofluorobenzene		23.380		25.00		93.5	80	120		0				
Sur: Dibromofluoromethane		23.350		25.00		93.4	80	121		0				

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8260WATERP

Sample ID: <b>N024637-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8260WATER</b>	Units: <b>µg/L</b>	Prep Date:	RunNo: <b>115920</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>P17VW102</b>	TestNo: <b>EPA 8260B</b>		Analysis Date: <b>6/22/2017</b>	SeqNo: <b>2672394</b>
<hr/>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Surr: Toluene-d8	24.280		25.00		97.1
				80	120
					0

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**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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DO Surrogate Diluted Out

Calculations are based on raw values



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8270SOILSIM\_M

Sample ID	LCS-62632	SampType	LCS	TestCode:	8270SOILSIM	Units:	µg/Kg	Prep Date:	6/23/2017	RunNo:	115963		
Client ID:	LCSS	Batch ID:	62632	TestNo:	EPA 8270CSI	EPA 3546		Analysis Date:	6/25/2017	SeqNo:	2674419		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene		34.000		5.0	50.00	0	68.0	44	109				
2-Methylnaphthalene		35.000		5.0	50.00	0	70.0	42	117				
Acenaphthene		34.000		5.0	50.00	0	68.0	46	109				
Acenaphthylene		34.500		5.0	50.00	0	69.0	45	114				
Anthracene		35.500		5.0	50.00	0	71.0	45	101				
Benzo(a)anthracene		35.000		5.0	50.00	0	70.0	38	119				
Benzo(a)pyrene		35.000		5.0	50.00	0	70.0	43	103				
Benzo(b)fluoranthene		29.500		5.0	50.00	0	59.0	31	126				
Benzo(g,h,i)perylene		45.500		5.0	50.00	0	91.0	26	118				
Benzo(k)fluoranthene		33.000		5.0	50.00	0	66.0	42	123				
Chrysene		33.000		5.0	50.00	0	66.0	45	109				
Dibenz(a,h)anthracene		41.000		5.0	50.00	0	82.0	33	118				
Fluoranthene		35.000		5.0	50.00	0	70.0	48	111				
Fluorene		35.000		5.0	50.00	0	70.0	47	112				
Indeno(1,2,3-cd)pyrene		41.500		5.0	50.00	0	83.0	31	119				
Naphthalene		34.000		5.0	50.00	0	68.0	43	109				
Phenanthrene		34.500		5.0	50.00	0	69.0	39	114				
Pyrene		35.000		5.0	50.00	0	70.0	48	113				
Surr: 1,2-Dichlorobenzene-d4		27.500			50.00		55.0	25	130				
Surr: 2-Fluorobiphenyl		38.000			50.00		76.0	23	130				
Surr: 4-Terphenyl-d14		39.500			50.00		79.0	24	130				
Surr: Nitrobenzene-d5		39.500			50.00		79.0	22	130				

Sample ID	MB-62632	SampType	MBLK	TestCode:	8270SOILSIM	Units:	µg/Kg	Prep Date:	6/23/2017	RunNo:	115963		
Client ID:	PBS	Batch ID:	62632	TestNo:	EPA 8270CSI	EPA 3546		Analysis Date:	6/25/2017	SeqNo:	2674420		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1-Methylnaphthalene		ND		5.0									
2-Methylnaphthalene		ND		5.0									
Acenaphthene		ND		5.0									

**Qualifiers:**

B Analyte detected in the associated Method Blank

E Value above quantitation range

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike/Surrogate outside of limits due to matrix interference

DO Surrogate Diluted Out

Calculations are based on raw values



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"Servina Clients with Passion and Professionalism"

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8270SOILSIM\_M

Sample ID	<b>MB-62632</b>	SampType:	<b>MBLK</b>	TestCode:	<b>8270SOILSIM</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>6/23/2017</b>	RunNo:	<b>115963</b>
Client ID:	<b>PBS</b>	Batch ID:	<b>62632</b>	TestNo:	<b>EPA 8270CSI</b>	<b>EPA 3546</b>		Analysis Date:	<b>6/25/2017</b>	SeqNo:	<b>2674420</b>
<hr/>											
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD

Acenaphthylene	ND	5.0									
Anthracene	ND	5.0									
Benzo(a)anthracene	ND	5.0									
Benzo(a)pyrene	ND	5.0									
Benzo(b)fluoranthene	ND	5.0									
Benzo(g,h,i)perylene	ND	5.0									
Benzo(k)fluoranthene	ND	5.0									
Chrysene	ND	5.0									
Dibenz(a,h)anthracene	ND	5.0									
Fluoranthene	ND	5.0									
Fluorene	ND	5.0									
Indeno(1,2,3-cd)pyrene	ND	5.0									
Naphthalene	ND	5.0									
Phenanthrene	ND	5.0									
Pyrene	ND	5.0									
Surr: 1,2-Dichlorobenzene-d4	27.000		50.00		54.0		25	130			
Surr: 2-Fluorobiphenyl	37.500		50.00		75.0		23	130			
Surr: 4-Terphenyl-d14	38.500		50.00		77.0		24	130			
Surr: Nitrobenzene-d5	38.500		50.00		77.0		22	130			

Sample ID	<b>N024682-001B-MS</b>	SampType:	<b>MS</b>	TestCode:	<b>8270SOILSIM</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>6/23/2017</b>	RunNo:	<b>115963</b>
Client ID:	<b>ZZZZZZ</b>	Batch ID:	<b>62632</b>	TestNo:	<b>EPA 8270CSI</b>	<b>EPA 3546</b>		Analysis Date:	<b>6/25/2017</b>	SeqNo:	<b>2674422</b>
<hr/>											
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD

1-Methylnaphthalene	105.606	5.0	200.2	1.493	52.0		44	109			
2-Methylnaphthalene	114.615	5.0	200.2	2.489	56.0		42	117			
Acenaphthene	111.111	5.0	200.2	0	55.5		46	109			
Acenaphthylene	113.614	5.0	200.2	0	56.8		45	114			
Anthracene	119.620	5.0	200.2	0	59.8		45	101			
Benzo(a)anthracene	128.629	5.0	200.2	1.493	63.5		38	119			

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 8270SOILSIM\_M

Sample ID	N024682-001B-MS	SampType:	MS	TestCode:	8270SOILSIM	Units:	µg/Kg	Prep Date:	6/23/2017	RunNo:	115963
Client ID:	ZZZZZZ	Batch ID:	62632	TestNo:	EPA 8270CSI	EPA 3546		Analysis Date:	6/25/2017	SeqNo:	2674422
<b>Analyte</b> <b>Result</b> <b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>RPD Ref Val</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											

Benzo(a)pyrene	127.127	5.0	200.2	0	63.5	43	103
Benzo(b)fluoranthene	144.144	5.0	200.2	1.991	71.0	31	126
Benzo(g,h,i)perylene	97.598	5.0	200.2	15.93	40.8	26	118
Benzo(k)fluoranthene	112.613	5.0	200.2	0	56.3	42	123
Chrysene	117.117	5.0	200.2	0	58.5	45	109
Dibenz(a,h)anthracene	99.600	5.0	200.2	0	49.8	33	118
Fluoranthene	128.128	5.0	200.2	1.493	63.3	48	111
Fluorene	122.623	5.0	200.2	0	61.3	47	112
Indeno(1,2,3-cd)pyrene	98.599	5.0	200.2	1.493	48.5	31	119
Naphthalene	103.103	5.0	200.2	1.493	50.8	43	109
Phenanthrene	113.113	5.0	200.2	0.9955	56.0	39	114
Pyrene	128.128	5.0	200.2	1.493	63.3	48	113
Surr: 1,2-Dichlorobenzene-d4	20.521		50.05		41.0	25	130
Surr: 2-Fluorobiphenyl	31.031		50.05		62.0	23	130
Surr: 4-Terphenyl-d14	35.035		50.05		70.0	24	130
Surr: Nitrobenzene-d5	29.530		50.05		59.0	22	130

Sample ID	N024682-001B-MSD	SampType:	MSD	TestCode:	8270SOILSIM	Units:	µg/Kg	Prep Date:	6/23/2017	RunNo:	115963
Client ID:	ZZZZZZ	Batch ID:	62632	TestNo:	EPA 8270CSI	EPA 3546		Analysis Date:	6/25/2017	SeqNo:	2674423
<b>Analyte</b> <b>Result</b> <b>PQL</b> <b>SPK value</b> <b>SPK Ref Val</b> <b>%REC</b> <b>LowLimit</b> <b>HighLimit</b> <b>RPD Ref Val</b> <b>%RPD</b> <b>RPDLimit</b> <b>Qual</b>											
1-Methylnaphthalene	118.408	5.0	199.0	1.493	58.7	44	109	105.6	11.4	20	
2-Methylnaphthalene	122.886	5.0	199.0	2.489	60.5	42	117	114.6	6.97	20	
Acenaphthene	119.403	5.0	199.0	0	60.0	46	109	111.1	7.19	20	
Acenaphthylene	114.428	5.0	199.0	0	57.5	45	114	113.6	0.714	20	
Anthracene	125.871	5.0	199.0	0	63.3	45	101	119.6	5.09	20	
Benzo(a)anthracene	136.816	5.0	199.0	1.493	68.0	38	119	128.6	6.17	20	
Benzo(a)pyrene	136.318	5.0	199.0	0	68.5	43	103	127.1	6.98	20	
Benzo(b)fluoranthene	154.229	5.0	199.0	1.991	76.5	31	126	144.1	6.76	20	
Benzo(g,h,i)perylene	97.512	5.0	199.0	15.93	41.0	26	118	97.60	0.0873	20	

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270SOILSIM\_M**

Sample ID	N024682-001B-MSD	SampType:	MSD	TestCode:	8270SOILSIM	Units:	µg/Kg	Prep Date:	6/23/2017	RunNo:	115963
Client ID:	ZZZZZZ	Batch ID:	62632	TestNo:	EPA 8270CSI	EPA 3546		Analysis Date:	6/25/2017	SeqNo:	2674423
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	161.692	5.0	199.0	0	81.2	42	123	112.6	35.8	20	R
Chrysene	123.881	5.0	199.0	0	62.3	45	109	117.1	5.61	20	
Dibenz(a,h)anthracene	100.000	5.0	199.0	0	50.3	33	118	99.60	0.401	20	
Fluoranthene	126.368	5.0	199.0	1.493	62.7	48	111	128.1	1.38	20	
Fluorene	131.841	5.0	199.0	0	66.3	47	112	122.6	7.25	20	
Indeno(1,2,3-cd)pyrene	97.512	5.0	199.0	1.493	48.2	31	119	98.60	1.11	20	
Naphthalene	114.428	5.0	199.0	1.493	56.7	43	109	103.1	10.4	20	
Phenanthrene	122.388	5.0	199.0	0.9955	61.0	39	114	113.1	7.88	20	
Pyrene	126.866	5.0	199.0	1.493	63.0	48	113	128.1	0.990	20	
Surr: 1,2-Dichlorobenzene-d4	24.378		49.75		49.0	25	130		0		
Surr: 2-Fluorobiphenyl	34.826		49.75		70.0	23	130		0		
Surr: 4-Terphenyl-d14	34.328		49.75		69.0	24	130		0		
Surr: Nitrobenzene-d5	37.313		49.75		75.0	22	130		0		

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

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**CLIENT:** Mc.Ginley and Associates  
**Work Order:** N024683  
**Project:** SILVER PEAK SOIL, BRN041

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 9040\_W

Sample ID	N024683-002CDUP	SampType:	DUP	TestCode:	9040_W	Units:	pH Units	Prep Date:		RunNo:	115907	
Client ID:	ZZZZZZ	Batch ID:	R115907	TestNo:	EPA 9040B			Analysis Date:	6/21/2017	SeqNo:	2671914	
<hr/>												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		8.420	0.10						8.380	0.476	10	
Temp. at time of pH Analysis		25.900	0						25.90	0	0	

---

**Qualifiers:**

B Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

DO Surrogate Diluted Out

E Value above quantitation range

R RPD outside accepted recovery limits

Calculations are based on raw values

H Holding times for preparation or analysis exceeded

S Spike/Surrogate outside of limits due to matrix interference



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CALIFORNIA | P:562.219.7435 F:562.219.7436  
11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
ELAP Cert 2921  
EPA ID CA01638

NEVADA | P:702.307.2659 F:702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046



# CHAIN OF CUSTODY RECORD

Contact us:  
 Nevada: 3151 W. Post Road, Las Vegas, NV 89118  
 P: 702.307.2659 F: 702.307.2691  
 California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703  
 P: 562.219.7435 F: 562.219.7436  
[www.assetlaboratories.com](http://www.assetlaboratories.com)

Client: <b>McGinley + Associates</b>		Report to: <b>BRETT BOTTENBERG</b>	Bill to:				EDD Requirement	QA/QC	Sample Receipt Condition									
Address: <b>1015 N. Green Valley Pkwy</b>		Company: <b>MGA</b>	Address:				Excel EDD <input type="checkbox"/>	RTNE <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>									
Address: <b>Suite 200</b>		Email: <b>BOTTENBERG@MAIL.COM</b>					Geotracker <input type="checkbox"/>	RWQCB <input type="checkbox"/>	1. Chilled <input checked="" type="checkbox"/> <input type="checkbox"/>									
Phone: <b>702-260-4961</b> Fax: <b>702-260-4968</b>		Address:					Labspec <input type="checkbox"/>	CalTrans <input type="checkbox"/>	2. Headspace <input type="checkbox"/> <input type="checkbox"/>									
Submitted By: <b>JT PAYNE</b>		Address:					Others <input type="checkbox"/>	Level III <input type="checkbox"/>	3. Container Intact <input checked="" type="checkbox"/> <input type="checkbox"/>									
Title: <b>Staff Geologist</b>		Address:					PO# <b>BRN</b>	Specify: <b>LV257</b>	LEVEL IV <input type="checkbox"/> 4. Seal Present <input type="checkbox"/> <input type="checkbox"/>									
Signature:		Date: <b>6/20/17</b>	Address:				Phone:	Fax:	Regulatory <input type="checkbox"/> 5. IR number <b>1</b>									
I hereby authorize ASSET Labs to perform the tests indicated below:			Address:				Global ID:		Specify State: <input type="checkbox"/> 6. Method of Cooling <b>ice</b>									
Project Name: <b>SILVER PEAK Soil</b>			Address:						Sample Temp: <b>2.7°C</b>									
Project Number: <b>BRN 041</b>			Address:															
Item No.	Laboratory Work Order No.	Sample ID/Location	Date	Time	Water	Solid	Others	Matrix		Analyses Requested		Turn Around Time	No. of container	Container Type	PRESERVATION	Courier:	Tracking No.	Remarks
								TPH - Full	VOC's	PAH - SIM	PB, Cd, Cr							
1	N024683 - 01	SS-12	6/20/17	11:15	X			X	X	X								
2	- 02	SLUDGE - 1	6/20/17	11:00	X			X	X	X	X	X	X					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
Relinquished by (Signature and Printed Name):		Date / Time: <b>6/21/17 11:44</b>	Received by (Signature and Printed Name): <b>FEMW DEMP</b>		Date / Time: <b>6/21/17 11:44</b>			Turn Around Time (TAT)		Special Instruction:								
Relinquished by (Signature and Printed Name):		Date / Time	Received by (Signature and Printed Name):		Date / Time			<input type="checkbox"/> A < 24 Hrs or Same Day TAT <input type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input checked="" type="checkbox"/> E = Routine 5-7 Workdays <small>TAT Starts at 8 AM the following day if samples received after 3:00 PM.</small>										
Relinquished by (Signature and Printed Name):		Date / Time	Received by (Signature and Printed Name):		Date / Time													
Terms: 1. All samples will be disposed in 45 days upon receipt and records will be destroyed in 5 years upon submission of final report. 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis <small>Less than 24 Hrs = 200% Next Day = 100% 2 Workdays = 50% 3 Workdays = 35% 4 Workdays = 20%</small> 3. Custom EDD formats will be an additional 3% of the total project price.												Preservatives:		Container Type:				
												H = HCl    I = HNO <sub>3</sub> S = H <sub>2</sub> SO <sub>4</sub> C = 4°C    T = Tube    V = VOA    P = Pint	Z = Zn(Ac) <sub>2</sub> O = NaOH    T = Na <sub>2</sub> SeO <sub>3</sub> J = Jar    B = Teflon    G = Glass					

5. Trip Blanks and Equipment Blanks are billable sample.  
 6. ASSET Laboratories is not responsible for samples collected using incorrect methodology.  
 7. Terms are net 30 Days.  
 8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.  
 9. For subcontract analysis, TAT and Surcharge will vary.

## ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 6/21/2017 Workorder: N024683  
Rep sample Temp (Deg C): 2.7 IR Gun ID: 1  
Temp Blank:  Yes  No  
Carrier name: Walk-In  
Last 4 digits of Tracking No.: NA Packing Material Used: None  
Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

### Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
2. Custody seals intact, signed, dated on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
3. Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
4. Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
5. Sampler's name present in COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
6. Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
7. Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
8. Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
9. Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
10. Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
11. All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
13. Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
15. Did the bottle labels indicate correct preservatives used?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
16. Were there Non-Conformance issues at login? Was Client notified?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	

Comments: Sample for Metals was received @ pH 8 and adjusted to pH < 2 with HNO3.  
See Correspondence.

For:  
Checklist Completed By: FR YR 6/27/2017

Reviewed By: MBC 6/27/2017

# ASSET Laboratories

## WORK ORDER Summary

03-Jul-17

**WorkOrder:** N024683

**Client ID:** MCGAS01

**Project:** SILVER PEAK SOIL, BRN041

**QC Level:** RTNE

**Date Received:** 6/21/2017

**Comments:**

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N024683-001A	SS-12	6/20/2017 11:15:00 AM	6/28/2017	Soil	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
			6/28/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RB
N024683-001B		6/28/2017		EPA 3050B	SOPREP TOTAL METALS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
		6/28/2017		EPA 3546	Microwave Extraction		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
		6/28/2017		EPA 6010B	TOTAL METALS BY ICP		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
		6/28/2017		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
		6/28/2017		EPA 8270CSIM	SEMICVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
		6/28/2017		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N024683-002A	SLUDGE-1	6/20/2017 11:00:00 AM	6/28/2017	Water	EPA 8015B	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
			6/28/2017		EPA 8260B	VOLATILE ORGANIC COMPOUNDS BY GC/MS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VW
N024683-002B		6/28/2017		EPA 3510C	SEPARATORY FUNNEL EXTRACTION: EXTRACTABLE FUELS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
					EPA 3510C	SEPARATORY FUNNEL EXTRACTION: 8270C - SIM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
		6/28/2017		EPA 8015B	DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
		6/28/2017		EPA 8270CSIM	SEMICVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N024683-002C		6/28/2017		EPA 1020A	IGNITABILITY BY SETAFLASH CLOSED-CUP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
					EPA 9040B	pH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N024683-002D		6/28/2017		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
					EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW

# ASSET Laboratories

## WORK ORDER Summary

03-Jul-17

WorkOrder: N024683

Client ID: MCGAS01

Project: SILVER PEAK SOIL, BRN041

QC Level: RTNE

Date Received: 6/21/2017

### Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N024683-002D	SLUDGE-1	6/20/2017 11:00:00 AM	6/28/2017	Water		MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
			6/28/2017		EPA 7470A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WW
N024683-003A	FOLDER	6/28/2017	6/28/2017	Folder	Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			6/28/2017		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

## Yoandra Rodriguez

---

**From:** Brett Bottenberg [bbottenberg@mcgin.com]  
**Sent:** Thursday, June 22, 2017 8:28 AM  
**To:** Yoandra Rodriguez  
**Cc:** Marlon B. Cartin; Quennie Manimtim; Fernando Rivera; Sonny. Lorenzo; Andreafe. Gallardo  
**Subject:** Re: SILVER PEAR SOIL, BRN041 (Asset Labs No, N024683)

Hi Yoandra,

Please run the TPH gas, VOCs, pH, Ignitability and Metals.....

thank you,  
Brett

**Brett Bottenberg, CEM**  
*Operations Manager - Las Vegas Office*  
D 702.260.4961 ext. 201  
C 702.232.5247  
E [bbottenberg@mcgin.com](mailto:bbottenberg@mcgin.com)

McGinley & Associates, Inc.  
1915 N. Green Valley Parkway, Suite 200  
Henderson, NV 89074

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On Wed, Jun 21, 2017 at 6:23 PM, Yoandra Rodriguez <[yoandra@assetlaboratories.com](mailto:yoandra@assetlaboratories.com)> wrote:

Hello Brett,

We received 3 VOAs and two 4 oz jars for sample "Slugde-1" (water). There's no enough volumen to run all the test requested on COC.

TPH gas, VOCs, pH, Ignitability and Metals could be performed but we need more sample (at least 1 L) for TPH DM and PAHs.

Please kindly advise which tests to prioritize.

Thanks,

Yoandra Rodriguez  
Sample Control Officer  
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 I P:  
[562.219.7435](tel:562.219.7435) I F: [562.219.7436](tel:562.219.7436)  
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 I P: [702.307.2659](tel:702.307.2659) Ext. 411  
I F: [702.307.2691](tel:702.307.2691) I  
[www.assetlaboratories.com](http://www.assetlaboratories.com)

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**Subject:** Re: Silver Pear Soil, BRN042 (Asset Labs No. N024682)  
**From:** Brett Bottenberg <bbottenberg@mcgin.com>  
**Date:** 07/03/17 7:32 AM  
**To:** Reports ASSET Laboratories <reports.lv@assetlaboratories.com>  
**CC:** "Marlon B. Cartin" <marlon@assetlaboratories.com>

Fern,

Can you please change the project to "Silver Peak" from Silver Pear? Please do this for all reports and invoices and please make sure the date stays the same.

Thank you,  
Brett

**Brett Bottenberg, CEM**  
*Operations Manager - Las Vegas Office*  
D 702.260.4961 ext. 201  
C 702.232.5247  
E [bbottenberg@mcgin.com](mailto:bbottenberg@mcgin.com)

**McGinley & Associates, Inc.**  
1915 N. Green Valley Parkway, Suite 200  
Henderson, NV 89074

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On Fri, Jun 30, 2017 at 10:37 PM, Reports ASSET Laboratories <[reports.lv@assetlaboratories.com](mailto:reports.lv@assetlaboratories.com)> wrote:

Enclosed is the final report for the above project.

Thanks,

Fern Rivera

Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: [702.307.2659](tel:702.307.2659) | F: [702.307.2691](tel:702.307.2691) |

California: 11110 Artesia Blvd., Ste. C, Cerritos, CA 90703 | P: [562.219.7435](tel:562.219.7435) | F: [562.219.7436](tel:562.219.7436)

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