1 Laboratories

2520 N. San Fernando Road, Unit A, Los Angeles, CA 90065
323-254-7700 www.1labsinc.com cs@1labsinc.com

March 17 2025

1 Labs Workorder No: 2503036

Project Manager:
Project Name: Zachau Canyon
Project Number: [none]
Site Address:

Enclosed are the results of analyses for samples received by the laboratory on March 10, 2025. If you have any questions concerning this report, please feel free to contact us.

Checked By: Alyssa Stull

Alyssa Stull
Project Manager

Approved By: Joe Sevrean

Joe Sevrean
Laboratory Director

www.1labsinc.com

CHAIN OF CUSTODY

2520 N. San Fernando Road, Unit A, Los Angeles, CA 90065 PH: (323) 254-7700

cs@1labsinc.com

1 Laboratories

Customer Information:

Client Name:

Address:

City, State, Zip:

Project Manager:

Telephone No.:

Send Report via: [ ] e-mail (address)

Billing Information

Client Name:

Address:

City, State, Zip:

Contact

Telephone No.:

Send Invoice via: [ ] e-mail (address)

Turnaround Time

[X] Routine (5 to 7 business days)
[ ] 3 Business DAYS [ ] 2 Business DAYS
[ ] RUSH *(notify lab)
[ ] 24 Business HRS [ ] 8 Business HRS
[ ] 4 Business HRS

Report Type: [ ] Results Only [ ] Level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4 [ ] EDD

Project Name/Number: Zachau Canyon

Location:

PO No.:

WORK ORDER NUMBER: 2503036

Sampled by (PRINT):

Sampler Signature:

Sampler Phone No.:

#	Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types	Analysis Requested: TPH(D)	SVOC EPA 8270C	PAH EPA 8270C							Additional Notes
1	2503036-01	Soil Sample	3/9/25	1115	1	S	G	—	✓	✓	✓							
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

* Instructions on back

Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
			3/10/25 0910
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
			3/10/25 0945
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time

Comments:

Version 2.0

COOLER RECEIPT FORM

Client Name:

Project Name: Tachan Canyon Project No.:

1LABS Job Number: 2503036

Date Received: 3/10/25 Received by: JS

Carrier: ☑ 1LABS Courier ☐ Client ☐ GSL ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler ( ) ☐ Other (Specify):

Sample Container Temperature: 4 °C IR Gun S/N:

Type of sample containers: VOA, Glass bottles, Wide mouth jars, HDPE bottles, Metal sleeves, Acetate sleeves, 5035 Kit: 1LABS or Clint, Tedlar Bags, Summa Canister: 6L, 3L, 1L, Others (Specify): glass jar

Soil

How are samples preserved: ☑ None, ☐ Ice, ☐ Blue Ice, ☐ Dry Ice
☐ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✓			
2. Are Sample labels legible & indelible ink?	✓			
3. Do samples match the COC?	✓			
4. Are the required analyses clear?	✓			
5. Is there enough samples for required analysis?	✓			
6. Does cooler or samples have custody seal(s)?	✓	✓		
7. Are sample containers in good condition?	✓			
8. Are samples preserved?		✓		
9. Are samples preserved properly for the intended analysis?			✓	
10. Are the VOAs free of headspace? See footnote.			✓	
11. Are the jars free of headspace?			✓	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF 1LABS IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

CASE NARRATIVE

The sample and analytical summary section summarizes the samples received and the requested analyses as specified on the chain-of-custody.

The reported analytical results apply to:
1) The condition of the sample upon receipt
2)The requested analysis for each sample
3) The quality control associated with each sample.

Unless noted, results of soil and solid samples are based on wet weight.

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Samples and Analytical Summary

1 Laboratories received the following samples on 03/10/2025 with the following specifications

Client ID			Sample Date
Soil Sample			**03/9/2025 11:15**
Lab ID		**Matrix**	**Quantity of Containers**
2503036-01		**Soil**	**1**

Method	Analyte	Units	TAT
8270C	Semivolatile Organics by 8270C	mg/kg	5
8270C SIM PAH	PAHs by Method 8270	ug/kg	5
EPA 6010B	Chromium, Total	mg/kg	5
EPA 6010B	Antimony, Total	mg/kg	5
EPA 6010B	Selenium, Total	mg/kg	5
EPA 6010B	Molybdenum, Total	mg/kg	5
EPA 6010B	Cadmium, Total	mg/kg	5
EPA 6010B	Cobalt, Total	mg/kg	5
EPA 6010B	Beryllium, Total	mg/kg	5
EPA 6010B	Nickel, Total	mg/kg	5
EPA 6010B	Barium, Total	mg/kg	5
EPA 6010B	Copper, Total	mg/kg	5
EPA 6010B	Thallium, Total	mg/kg	5
EPA 6010B	Vanadium, Total	mg/kg	5
EPA 6010B	Zinc, Total	mg/kg	5
EPA 6010B	Lead, Total	mg/kg	5
EPA 6010B	Arsenic, Total	mg/kg	5
EPA 6010B	Silver, Total	mg/kg	5
EPA 7471A	Mercury, Total	mg/kg	5

Total Number of Samples received: 1

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Positive Hits Summary

Lab ID	Client ID				Sampled
2503036-01	Soil Sample				03/09/2025 11:15
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 7471A	**Mercury**	**0.0753**	**J**	**mg/kg**	**03/11/2025 13:56**
EPA 6010B	**Antimony**	**1.15**	**J**	**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Arsenic**	**4.65**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Barium Total**	**42.2**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Chromium**	**8.85**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Cobalt**	**6.40**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Copper**	**13.2**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Lead**	**8.05**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Molybdenum**	**1.20**	**J**	**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Nickel**	**4.95**	**J**	**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Selenium**	**18.4**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Vanadium**	**23.4**		**mg/kg**	**03/11/2025 10:05**
EPA 6010B	**Zinc**	**48.5**		**mg/kg**	**03/11/2025 10:05**

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Project Name: Zachau Canyon
Project Number: [none]
Project Manager:
Project Location:

1 Labs Workorder No: 2503036
Reported:
03/17/2025 14:24

Analytical Results

Client Sample ID: Soil Sample

Laboratory Sample ID: 2503036-01 (Solid)

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Total Mercury (CVAA)				Batch ID: BC50058			Prepared: 03/10/2025 12:05			
Mercury	**0.0753**	J	0.0208	0.200	mg/kg	1	7471A	03/11/2025 13:56	CBP	EPA 7471A
Total Metals by ICP				Batch ID: BC50054			Prepared: 03/10/2025 12:45			
Antimony	**1.15**	J	0.467	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Arsenic	**4.65**		0.780	2.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Barium Total	**42.2**		0.509	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Beryllium	ND		0.371	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Cadmium	ND		0.325	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Chromium	**8.85**		0.463	1.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Cobalt	**6.40**		0.432	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Copper	**13.2**		0.727	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Lead	**8.05**		0.442	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Molybdenum	**1.20**	J	0.509	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Nickel	**4.95**	J	0.423	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Selenium	**18.4**		3.21	7.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Silver	ND		0.270	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Thallium	ND		1.07	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Vanadium	**23.4**		0.555	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Zinc	**48.5**		0.846	5.00	mg/kg	1	EPA 3050B	03/11/2025 10:05	CBP	EPA 6010B
Semivolatile Organic Compounds				Batch ID: BC50046			Prepared: 03/11/2025 09:33			
Acenaphthene	ND		0.0132	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Aniline	ND		0.0140	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Acenaphthylene	ND		0.0108	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Anthracene	ND		0.0152	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Azobenzene	ND		0.0149	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benz(a)anthracene	ND		0.0127	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzo (a) pyrene	ND		0.0158	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzo (b) fluoranthene	ND		0.0188	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzo (g,h,i) perylene	ND		0.0197	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzo (k) fluoranthene	ND		0.0153	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzidine	ND		0.116	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzoic acid	ND		0.00570	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Benzyl alcohol	ND		0.0187	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Bis(2-chloroethoxy)methane	ND		0.00840	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Bis(2-chloroethyl) ether	ND		0.0117	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Bis(2-chloroisopropyl) ether	ND		0.0131	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Bis(2-ethylhexyl) adipate	ND		0.0175	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Bis(2-ethylhexyl) phthalate	ND		0.00890	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
4-Bromophenyl phenyl ether	ND		0.0137	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Butyl benzyl phthalate	ND		0.0177	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Carbazole	ND		0.0175	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Analytical Results

Client Sample ID: Soil Sample

Laboratory Sample ID: 2503036-01 (Solid)

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Semivolatile Organic Compounds				Batch ID:	BC50046		Prepared: 03/11/2025 09:33			
4-Chloro-3-methylphenol	ND		0.0244	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
4-Chloroaniline	ND		0.0248	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Chloronaphthalene	ND		0.0108	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Chlorophenol	ND		0.00990	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
4-Chlorophenyl phenyl ether	ND		0.0106	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Chrysene	ND		0.104	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Di-n-butyl phthalate	ND		0.0145	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Di-n-octyl phthalate	ND		0.0170	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Dibenz (a,h) anthracene	ND		0.0272	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Dibenzofuran	ND		0.0148	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,3-Dichlorobenzene	ND		0.00980	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,2-Dichlorobenzene	ND		0.00790	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,4-Dichlorobenzene	ND		0.00640	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
3,3'-Dichlorobenzidine	ND		0.114	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4-Dichlorophenol	ND		0.0281	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,6-Dichlorophenol	ND		0.0290	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Diethyl phthalate	ND		0.0142	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4-Dimethylphenol	ND		0.0242	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Dimethyl phthalate	ND		0.0121	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,2-Dinitrobenzene	ND		0.346	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,3-Dinitrobenzene	ND		0.0461	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,4-Dinitrobenzene	ND		0.0129	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4-Dinitrophenol	ND		0.00220	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4-Dinitrotoluene	ND		0.0210	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,6-Dinitrotoluene	ND		0.0166	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Diphenylamine	ND		0.0144	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Fluoranthene	ND		0.0134	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Fluorene	ND		0.0171	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Hexachlorobenzene	ND		0.0159	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Hexachlorobutadiene	ND		0.0120	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Hexachlorocyclopentadiene	ND		0.347	1.00	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Hexachloroethane	ND		0.0153	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Indeno (1,2,3-cd) pyrene	ND		0.0275	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Isophorone	ND		0.0126	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Methyl-4,6-dinitrophenol	ND		0.0100	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1-Methylnaphthalene	ND		0.0136	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Methylnaphthalene	ND		0.0176	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Methylphenol	ND		0.0645	0.330	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
3/4-Methylphenol	ND		0.0275	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
N-Nitroso-di-n-propylamine	ND		0.00220	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Analytical Results

Client Sample ID: Soil Sample

Laboratory Sample ID: 2503036-01 (Solid)

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
Semivolatile Organic Compounds				Batch ID: BC50046			Prepared: 03/11/2025 09:33			
N-Nitrosodimethylamine	ND		0.0272	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
N-Nitrosodiphenylamine	ND		0.0114	0.330	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Naphthalene	ND		0.00540	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Nitroaniline	ND		0.0177	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
3-Nitroaniline	ND		0.0603	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
4-Nitroaniline	ND		0.0909	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Nitrobenzene	ND		0.00960	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2-Nitrophenol	ND		0.0687	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
4-Nitrophenol	ND		0.380	1.00	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Pentachlorophenol	ND		0.0276	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Phenanthrene	ND		0.0134	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Phenol	ND		0.00790	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Pyrene	ND		0.0127	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
Pyridine	ND		0.0115	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,3,4,6-Tetrachlorophenol	ND		0.0191	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,3,5,6-Tetrachlorophenol	ND		0.0241	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
1,2,4-Trichlorobenzene	ND		0.0108	0.330	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4,5-Trichlorophenol	ND		0.0418	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
2,4,6-Trichlorophenol	ND		0.0132	0.500	mg/kg	1	3550B	03/12/2025 12:54	TTN	8270C
			% Recovery	Acceptance Limits						
Surrogate: 2-Fluorophenol			*94.3 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*
Surrogate: Phenol-d6			*116 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*
Surrogate: 2,4,6-Tribromophenol			*88.6 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*
Surrogate: Nitrobenzene-d5			*99.0 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*
Surrogate: 2-Fluorobiphenyl			*122 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*
Surrogate: Terphenyl-d14			*107 %*	*75-125*			3550B	03/12/2025 12:54	TTN	*8270C*

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Analytical Results

Client Sample ID: Soil Sample

Laboratory Sample ID: 2503036-01 (Solid)

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Prep Method	Analyzed	Analyst	Method
8270 PAH SIM				Batch ID:	BC50067		Prepared:	03/14/2025 10:12		
Acenaphthene	ND		1.38	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Acenaphthylene	ND		1.38	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Anthracene	ND		1.24	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Benzo(a)anthracene	ND		0.849	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Benzo[a]pyrene	ND		2.30	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Benzo[b]fluoranthene	ND		2.31	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Benzo(ghi)perylene	ND		5.00	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Benzo[k]fluoranthene	ND		2.43	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Chrysene	ND		1.42	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Dibenz(a,h)anthracene	ND		4.73	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Fluoranthene	ND		1.04	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Fluorene	ND		1.25	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Indeno (1,2,3-cd) pyrene	ND		4.42	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Naphthalene	ND		1.58	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Phenanthrene	ND		1.45	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
Pyrene	ND		1.03	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
2-Methylnaphthalene	ND		0.600	5.00	ug/kg	1	3550B	03/14/2025 17:31	TTN	8270C SIM PAH
			% Recovery	Acceptance Limits						
Surrogate: Nitrobenzene-d5		*S-04*	*10.3 %*	*25-130*			3550B	03/14/2025 17:31	TTN	*8270C SIM PAH*

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:			03/17/2025 14:24
Project Location:			

Total Mercury (CVAA) - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50058 - 7471A - EPA 7471A											
Blank (BC50058-BLK1)					Prepared & Analyzed: 03/11/202						
Mercury	ND	0.0208	0.200	mg/kg							
LCS (BC50058-BS1)					Prepared & Analyzed: 03/11/202						
Mercury	0.0875	0.0208	0.200	mg/kg	0.0833		105	80-120			J
LCS Dup (BC50058-BSD1)					Prepared & Analyzed: 03/11/202						
Mercury	0.0908	0.0208	0.200	mg/kg	0.0833		109	80-120	3.74	20	J
Duplicate (BC50058-DUP1)		**Source: 2503028-01**			Prepared & Analyzed: 03/11/202						
Mercury	0.0789	0.0208	0.200	mg/kg		0.0632			22.2	20	J

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Total Metals by ICP - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50054 - EPA 3050B - EPA 6010B											
Blank (BC50054-BLK1)				Prepared: 03/10/202 Analyzed: 03/11/202							
Antimony	1.00	0.467	5.00	mg/kg							J
Arsenic	ND	0.780	2.00	"							
Barium Total	ND	0.509	5.00	"							
Beryllium	ND	0.371	5.00	"							
Cadmium	1.50	0.325	5.00	"							J
Chromium	1.50	0.463	1.00	"							
Cobalt	ND	0.432	5.00	"							
Copper	3.00	0.727	5.00	"							J
Lead	3.45	0.442	5.00	"							J
Molybdenum	ND	0.509	5.00	"							
Nickel	1.15	0.423	5.00	"							J
Selenium	ND	3.21	7.00	"							
Silver	ND	0.270	5.00	"							
Thallium	ND	1.07	5.00	"							
Vanadium	ND	0.555	5.00	"							
Zinc	12.4	0.846	5.00	"							
LCS (BC50054-BS1)				Prepared: 03/10/202 Analyzed: 03/11/202							
Antimony	50.4	0.467	5.00	mg/kg	50.0		101	80-120			
Arsenic	49.4	0.780	2.00	"	50.0		98.9	80-120			
Barium Total	47.6	0.509	5.00	"	50.0		95.1	80-120			
Beryllium	49.3	0.371	5.00	"	50.0		98.6	80-120			
Cadmium	51.6	0.325	5.00	"	50.0		103	80-120			
Chromium	51.7	0.463	1.00	"	50.0		103	80-120			
Cobalt	51.1	0.432	5.00	"	50.0		102	80-120			
Copper	50.7	0.727	5.00	"	50.0		101	80-120			
Lead	50.4	0.442	5.00	"	50.0		101	80-120			
Molybdenum	52.2	0.509	5.00	"	50.0		104	80-120			
Nickel	52.2	0.423	5.00	"	50.0		104	80-120			
Selenium	49.9	3.21	7.00	"	50.0		99.8	80-120			
Silver	54.2	0.270	5.00	"	50.0		108	80-120			
Thallium	49.0	1.07	5.00	"	100		49.0	80-120			
Vanadium	52.6	0.555	5.00	"	50.0		105	80-120			
Zinc	53.3	0.846	5.00	"	50.0		107	80-120			

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Total Metals by ICP - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50054 - EPA 3050B - EPA 6010B											
LCS Dup (BC50054-BSD1)					Prepared: 03/10/202 Analyzed: 03/11/202						
Antimony	51.6	0.467	5.00	mg/kg	50.0		103	80-120	2.35	20	
Arsenic	49.9	0.780	2.00	"	50.0		99.8	80-120	0.906	20	
Barium Total	48.4	0.509	5.00	"	50.0		96.8	80-120	1.77	20	
Beryllium	49.2	0.371	5.00	"	50.0		98.4	80-120	0.203	20	
Cadmium	52.5	0.325	5.00	"	50.0		105	80-120	1.63	20	
Chromium	52.6	0.463	1.00	"	50.0		105	80-120	1.63	20	
Cobalt	51.6	0.432	5.00	"	50.0		103	80-120	1.07	20	
Copper	52.2	0.727	5.00	"	50.0		104	80-120	2.92	20	
Lead	50.8	0.442	5.00	"	50.0		102	80-120	0.791	20	
Molybdenum	52.4	0.509	5.00	"	50.0		105	80-120	0.287	20	
Nickel	53.2	0.423	5.00	"	50.0		106	80-120	2.09	20	
Selenium	49.0	3.21	7.00	"	50.0		98.1	80-120	1.72	20	
Silver	55.0	0.270	5.00	"	50.0		110	80-120	1.47	20	
Thallium	49.1	1.07	5.00	"	100		49.1	80-120	0.204	20	
Vanadium	53.4	0.555	5.00	"	50.0		107	80-120	1.41	20	
Zinc	54.8	0.846	5.00	"	50.0		110	80-120	2.68	20	
Duplicate (BC50054-DUP1)		**Source: 2503028-01**			Prepared: 03/10/202 Analyzed: 03/11/202						
Antimony	1.25	0.467	5.00	mg/kg		2.40			63.0	20	J
Arsenic	8.25	0.780	2.00	"		9.20			10.9	20	
Barium Total	93.4	0.509	5.00	"		103			9.39	20	
Beryllium	ND	0.371	5.00	"		ND				20	
Cadmium	0.800	0.325	5.00	"		1.10			31.6	20	J
Chromium	32.8	0.463	1.00	"		18.5			55.8	20	
Cobalt	7.85	0.432	5.00	"		7.95			1.27	20	
Copper	26.5	0.727	5.00	"		56.2			71.9	20	
Lead	8.20	0.442	5.00	"		10.4			23.2	20	
Molybdenum	3.15	0.509	5.00	"		3.05			3.23	20	J
Nickel	23.7	0.423	5.00	"		18.4			25.2	20	
Selenium	19.3	3.21	7.00	"		21.7			11.7	20	
Silver	ND	0.270	5.00	"		ND				20	
Thallium	ND	1.07	5.00	"		ND				20	
Vanadium	28.8	0.555	5.00	"		30.8			6.54	20	
Zinc	67.2	0.846	5.00	"		73.0			8.28	20	

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Blank (BC50046-BLK1)					Prepared: 03/11/202 Analyzed: 03/12/202						
Acenaphthene	ND	0.0132	0.500	mg/kg							
Aniline	ND	0.0140	0.500	"							
Acenaphthylene	ND	0.0108	0.500	"							
Anthracene	ND	0.0152	0.500	"							
Azobenzene	ND	0.0149	0.500	"							
Benz(a)anthracene	ND	0.0127	0.500	"							
Benzo (a) pyrene	ND	0.0158	0.500	"							
Benzo (b) fluoranthene	ND	0.0188	0.500	"							
Benzo (g,h,i) perylene	ND	0.0197	0.500	"							
Benzo (k) fluoranthene	ND	0.0153	0.500	"							
Benzidine	ND	0.116	0.500	"							
Benzoic acid	ND	0.00570	0.500	"							
Benzyl alcohol	ND	0.0187	0.500	"							
Bis(2-chloroethoxy)methane	ND	0.00840	0.500	"							
Bis(2-chloroethyl) ether	ND	0.0117	0.500	"							
Bis(2-chloroisopropyl) ether	ND	0.0131	0.500	"							
Bis(2-ethylhexyl) adipate	ND	0.0175	0.500	"							
Bis(2-ethylhexyl) phthalate	ND	0.00890	0.500	"							
4-Bromophenyl phenyl ether	ND	0.0137	0.500	"							
Butyl benzyl phthalate	ND	0.0177	0.500	"							
Carbazole	ND	0.0175	0.500	"							
4-Chloro-3-methylphenol	ND	0.0244	0.500	"							
4-Chloroaniline	ND	0.0248	0.500	"							
2-Chloronaphthalene	ND	0.0108	0.500	"							
2-Chlorophenol	ND	0.00990	0.500	"							
4-Chlorophenyl phenyl ether	ND	0.0106	0.500	"							
Chrysene	ND	0.104	0.500	"							
Di-n-butyl phthalate	ND	0.0145	0.500	"							
Di-n-octyl phthalate	ND	0.0170	0.500	"							
Dibenz (a,h) anthracene	ND	0.0272	0.500	"							
Dibenzofuran	ND	0.0148	0.500	"							
1,3-Dichlorobenzene	ND	0.00980	0.500	"							
1,2-Dichlorobenzene	ND	0.00790	0.500	"							
1,4-Dichlorobenzene	ND	0.00640	0.500	"							
3,3'-Dichlorobenzidine	ND	0.114	0.500	"							
2,4-Dichlorophenol	ND	0.0281	0.500	"							
2,6-Dichlorophenol	ND	0.0290	0.500	"							
Diethyl phthalate	ND	0.0142	0.500	"							
2,4-Dimethylphenol	ND	0.0242	0.500	"							
Dimethyl phthalate	ND	0.0121	0.500	"							
1,2-Dinitrobenzene	ND	0.346	0.500	"							
1,3-Dinitrobenzene	ND	0.0461	0.500	"							
1,4-Dinitrobenzene	ND	0.0129	0.500	"							
2,4-Dinitrophenol	ND	0.00220	0.500	"							
2,4-Dinitrotoluene	ND	0.0210	0.500	"							
2,6-Dinitrotoluene	ND	0.0166	0.500	"							

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Blank (BC50046-BLK1)					Prepared: 03/11/202 Analyzed: 03/12/202						
Diphenylamine	ND	0.0144	0.500	"							
Fluoranthene	ND	0.0134	0.500	"							
Fluorene	ND	0.0171	0.500	"							
Hexachlorobenzene	ND	0.0159	0.500	"							
Hexachlorobutadiene	ND	0.0120	0.500	"							
Hexachlorocyclopentadiene	ND	0.347	1.00	"							
Hexachloroethane	ND	0.0153	0.500	"							
Indeno (1,2,3-cd) pyrene	ND	0.0275	0.500	"							
Isophorone	ND	0.0126	0.500	"							
2-Methyl-4,6-dinitrophenol	ND	0.0100	0.500	"							
1-Methylnaphthalene	ND	0.0136	0.500	"							
2-Methylnaphthalene	ND	0.0176	0.500	"							
2-Methylphenol	ND	0.0645	0.330	"							
3/4-Methylphenol	ND	0.0275	0.500	"							
N-Nitroso-di-n-propylamine	ND	0.00220	0.500	"							
N-Nitrosodimethylamine	ND	0.0272	0.500	"							
N-Nitrosodiphenylamine	ND	0.0114	0.330	"							
Naphthalene	ND	0.00540	0.500	"							
2-Nitroaniline	ND	0.0177	0.500	"							
3-Nitroaniline	ND	0.0603	0.500	"							
4-Nitroaniline	ND	0.0909	0.500	"							
Nitrobenzene	ND	0.00960	0.500	"							
2-Nitrophenol	ND	0.0687	0.500	"							
4-Nitrophenol	ND	0.380	1.00	"							
Pentachlorophenol	ND	0.0276	0.500	"							
Phenanthrene	ND	0.0134	0.500	"							
Phenol	ND	0.00790	0.500	"							
Pyrene	ND	0.0127	0.500	"							
Pyridine	ND	0.0115	0.500	"							
2,3,4,6-Tetrachlorophenol	ND	0.0191	0.500	"							
2,3,5,6-Tetrachlorophenol	ND	0.0241	0.500	"							
1,2,4-Trichlorobenzene	ND	0.0108	0.330	"							
2,4,5-Trichlorophenol	ND	0.0418	0.500	"							
2,4,6-Trichlorophenol	ND	0.0132	0.500	"							
Surrogate: 2-Fluorophenol	*1.77*			"	*2.00*		*88.7*	*75-125*			
Surrogate: Phenol-d6	*2.24*			"	*2.00*		*112*	*75-125*			
Surrogate: 2,4,6-Tribromophenol	*2.03*			"	*2.00*		*101*	*75-125*			
Surrogate: Nitrobenzene-d5	*2.37*			"	*2.00*		*119*	*75-125*			
Surrogate: 2-Fluorobiphenyl	*1.64*			"	*2.00*		*82.0*	*75-125*			
Surrogate: Terphenyl-d14	*1.86*			"	*2.00*		*93.2*	*75-125*			

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
LCS (BC50046-BS1)					Prepared: 03/11/202 Analyzed: 03/12/202						
Acenaphthene	1.85	0.0132	0.500	mg/kg	2.00		92.6	30-130			
Aniline	2.00	0.0140	0.500	"	2.00		100	30-130			
Acenaphthylene	1.84	0.0108	0.500	"	2.00		92.2	30-130			
Anthracene	2.14	0.0152	0.500	"	2.00		107	30-130			
Azobenzene	2.50	0.0149	0.500	"	2.00		125	30-130			
Benz(a)anthracene	2.32	0.0127	0.500	"	2.00		116	30-130			
Benzo (a) pyrene	1.81	0.0158	0.500	"	2.00		90.4	30-130			
Benzo (b) fluoranthene	1.75	0.0188	0.500	"	2.00		87.3	30-130			
Benzo (g,h,i) perylene	1.98	0.0197	0.500	"	2.00		98.9	30-130			
Benzo (k) fluoranthene	1.59	0.0153	0.500	"	2.00		79.3	30-130			
Benzidine	2.01	0.116	0.500	"	2.00		101	30-130			
Benzoic acid	1.76	0.00570	0.500	"	2.00		88.1	30-130			
Benzyl alcohol	2.08	0.0187	0.500	"	2.00		104	30-130			
Bis(2-chloroethoxy)methane	2.42	0.00840	0.500	"	2.00		121	30-130			
Bis(2-chloroethyl) ether	1.88	0.0117	0.500	"	2.00		94.2	30-130			
Bis(2-chloroisopropyl) ether	2.04	0.0131	0.500	"	2.00		102	30-130			
Bis(2-ethylhexyl) adipate	0.688	0.0175	0.500	"	2.00		34.4	30-130			
Bis(2-ethylhexyl) phthalate	1.87	0.00890	0.500	"	2.00		93.4	30-130			
4-Bromophenyl phenyl ether	2.22	0.0137	0.500	"	2.00		111	30-130			
Butyl benzyl phthalate	2.22	0.0177	0.500	"	2.00		111	30-130			
Carbazole	2.08	0.0175	0.500	"	2.00		104	30-130			
4-Chloro-3-methylphenol	1.86	0.0244	0.500	"	2.00		92.9	30-130			
4-Chloroaniline	2.13	0.0248	0.500	"	2.00		106	30-130			
2-Chloronaphthalene	2.04	0.0108	0.500	"	2.00		102	30-130			
2-Chlorophenol	2.34	0.00990	0.500	"	2.00		117	30-130			
4-Chlorophenyl phenyl ether	1.97	0.0106	0.500	"	2.00		98.5	30-130			
Chrysene	2.13	0.104	0.500	"	2.00		107	30-130			
Di-n-butyl phthalate	2.28	0.0145	0.500	"	2.00		114	30-130			
Di-n-octyl phthalate	1.78	0.0170	0.500	"	2.00		89.0	30-130			
Dibenz (a,h) anthracene	1.82	0.0272	0.500	"	2.00		90.8	30-130			
Dibenzofuran	1.91	0.0148	0.500	"	2.00		95.6	30-130			
1,3-Dichlorobenzene	2.30	0.00980	0.500	"	2.00		115	30-130			
1,2-Dichlorobenzene	2.33	0.00790	0.500	"	2.00		116	30-130			
1,4-Dichlorobenzene	2.27	0.00640	0.500	"	2.00		113	30-130			
3,3'-Dichlorobenzidine	1.69	0.114	0.500	"	2.00		84.6	30-130			
2,4-Dichlorophenol	1.97	0.0281	0.500	"	2.00		98.3	30-130			
2,6-Dichlorophenol	1.77	0.0290	0.500	"	2.00		88.7	30-130			
Diethyl phthalate	2.12	0.0142	0.500	"	2.00		106	30-130			
2,4-Dimethylphenol	2.37	0.0242	0.500	"	2.00		118	30-130			
Dimethyl phthalate	2.16	0.0121	0.500	"	2.00		108	30-130			
1,2-Dinitrobenzene	1.17	0.346	0.500	"	2.00		58.7	30-130			
1,3-Dinitrobenzene	1.21	0.0461	0.500	"	2.00		60.4	30-130			
1,4-Dinitrobenzene	1.29	0.0129	0.500	"	2.00		64.3	30-130			
2,4-Dinitrophenol	2.18	0.00220	0.500	"	4.00		54.5	30-130			
2,4-Dinitrotoluene	2.21	0.0210	0.500	"	2.00		111	30-130			
2,6-Dinitrotoluene	2.31	0.0166	0.500	"	2.00		116	30-130			

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:			03/17/2025 14:24
Project Location:			

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
LCS (BC50046-BS1)					Prepared: 03/11/202 Analyzed: 03/12/202						
Diphenylamine	0.764	0.0144	0.500	"	2.00		38.2	30-130			
Fluoranthene	1.87	0.0134	0.500	"	2.00		93.7	30-130			
Fluorene	2.12	0.0171	0.500	"	2.00		106	30-130			
Hexachlorobenzene	2.13	0.0159	0.500	"	2.00		106	30-130			
Hexachlorobutadiene	2.36	0.0120	0.500	"	2.00		118	30-130			
Hexachlorocyclopentadiene	1.76	0.347	1.00	"	2.00		87.8	30-130			
Hexachloroethane	2.35	0.0153	0.500	"	2.00		117	30-130			
Indeno (1,2,3-cd) pyrene	2.30	0.0275	0.500	"	2.00		115	30-130			
Isophorone	2.13	0.0126	0.500	"	2.00		107	30-130			
2-Methyl-4,6-dinitrophenol	2.53	0.0100	0.500	"	2.00		126	30-130			
1-Methylnaphthalene	2.01	0.0136	0.500	"	2.00		101	30-130			
2-Methylnaphthalene	1.74	0.0176	0.500	"	2.00		86.9	30-130			
2-Methylphenol	2.09	0.0645	0.330	"	2.00		105	30-130			
3/4-Methylphenol	2.16	0.0275	0.500	"	2.00		108	30-130			
N-Nitroso-di-n-propylamine	2.40	0.00220	0.500	"	2.00		120	30-130			
N-Nitrosodimethylamine	2.13	0.0272	0.500	"	2.00		106	30-130			
N-Nitrosodiphenylamine	0.764	0.0114	0.330	"	2.00		38.2	30-130			
Naphthalene	2.39	0.00540	0.500	"	2.00		120	30-130			
2-Nitroaniline	2.42	0.0177	0.500	"	2.00		121	30-130			
3-Nitroaniline	2.29	0.0603	0.500	"	2.00		114	30-130			
4-Nitroaniline	2.03	0.0909	0.500	"	2.00		101	30-130			
Nitrobenzene	2.12	0.00960	0.500	"	2.00		106	30-130			
2-Nitrophenol	1.80	0.0687	0.500	"	2.00		90.1	30-130			
4-Nitrophenol	1.90	0.380	1.00	"	2.00		94.8	30-130			
Pentachlorophenol	1.85	0.0276	0.500	"	2.00		92.6	30-130			
Phenanthrene	2.19	0.0134	0.500	"	2.00		109	30-130			
Phenol	2.10	0.00790	0.500	"	2.00		105	30-130			
Pyrene	2.54	0.0127	0.500	"	2.00		127	30-130			
Pyridine	0.276	0.0115	0.500	"	2.00		13.8	30-130			J
2,3,4,6-Tetrachlorophenol	1.06	0.0191	0.500	"	2.00		53.2	30-130			
2,3,5,6-Tetrachlorophenol	1.03	0.0241	0.500	"	2.00		51.6	30-130			
1,2,4-Trichlorobenzene	2.05	0.0108	0.330	"	2.00		102	30-130			
2,4,5-Trichlorophenol	1.56	0.0418	0.500	"	2.00		78.1	30-130			
2,4,6-Trichlorophenol	1.84	0.0132	0.500	"	2.00		92.0	30-130			
Surrogate: 2-Fluorophenol	*2.01*			"	*2.00*		*100*	*75-125*			
Surrogate: Phenol-d6	*2.02*			"	*2.00*		*101*	*75-125*			
Surrogate: 2,4,6-Tribromophenol	*1.64*			"	*2.00*		*82.0*	*75-125*			
Surrogate: Nitrobenzene-d5	*2.43*			"	*2.00*		*121*	*75-125*			
Surrogate: 2-Fluorobiphenyl	*1.88*			"	*2.00*		*93.8*	*75-125*			
Surrogate: Terphenyl-d14	*2.45*			"	*2.00*		*123*	*75-125*			

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
Project Number:	[none]	**Reported:**
Project Manager:		03/17/2025 14:24
Project Location:		

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Matrix Spike (BC50046-MS1)		**Source: 2503028-02**			Prepared: 03/11/202 Analyzed: 03/12/202						
Acenaphthene	1.28	0.0660	2.50	mg/kg	2.00	ND	64.1	30-130			J
Aniline	1.06	0.0700	2.50	"	2.00	ND	52.9	30-130			J
Acenaphthylene	1.20	0.0540	2.50	"	2.00	ND	59.8	30-130			J
Anthracene	1.64	0.0760	2.50	"	2.00	ND	82.1	30-130			J
Azobenzene	1.80	0.0745	2.50	"	2.00	ND	89.8	30-130			J
Benz(a)anthracene	2.08	0.0635	2.50	"	2.00	ND	104	30-130			J
Benzo (a) pyrene	1.84	0.0790	2.50	"	2.00	ND	92.0	30-130			J
Benzo (b) fluoranthene	2.21	0.0940	2.50	"	2.00	ND	111	30-130			J
Benzo (g,h,i) perylene	1.62	0.0985	2.50	"	2.00	ND	81.0	30-130			J
Benzo (k) fluoranthene	1.07	0.0765	2.50	"	2.00	ND	53.5	30-130			J
Benzidine	ND	0.580	2.50	"	2.00	ND		30-130			QM-07
Benzoic acid	1.98	0.0285	2.50	"	2.00	ND	99.2	30-130			J
Benzyl alcohol	2.14	0.0935	2.50	"	2.00	ND	107	30-130			J
Bis(2-chloroethoxy)methane	1.72	0.0420	2.50	"	2.00	ND	86.0	30-130			J
Bis(2-chloroethyl) ether	1.48	0.0585	2.50	"	2.00	ND	74.0	30-130			J
Bis(2-chloroisopropyl) ether	1.78	0.0655	2.50	"	2.00	ND	88.8	30-130			J
Bis(2-ethylhexyl) adipate	ND	0.0875	2.50	"	2.00	ND		30-130			QM-07
Bis(2-ethylhexyl) phthalate	1.87	0.0445	2.50	"	2.00	ND	93.5	30-130			J
4-Bromophenyl phenyl ether	1.32	0.0685	2.50	"	2.00	ND	66.2	30-130			J
Butyl benzyl phthalate	1.85	0.0885	2.50	"	2.00	ND	92.5	30-130			J
Carbazole	1.59	0.0875	2.50	"	2.00	ND	79.6	30-130			J
4-Chloro-3-methylphenol	1.64	0.122	2.50	"	2.00	ND	81.8	30-130			J
4-Chloroaniline	1.67	0.124	2.50	"	2.00	ND	83.5	30-130			J
2-Chloronaphthalene	1.22	0.0540	2.50	"	2.00	ND	60.9	30-130			J
2-Chlorophenol	1.18	0.0495	2.50	"	2.00	ND	59.1	30-130			J
4-Chlorophenyl phenyl ether	2.04	0.0530	2.50	"	2.00	ND	102	30-130			J
Chrysene	1.68	0.520	2.50	"	2.00	ND	83.9	30-130			J
Di-n-butyl phthalate	1.83	0.0725	2.50	"	2.00	ND	91.5	30-130			J
Di-n-octyl phthalate	1.66	0.0850	2.50	"	2.00	ND	82.9	30-130			J
Dibenz (a,h) anthracene	1.86	0.136	2.50	"	2.00	ND	92.8	30-130			J
Dibenzofuran	1.30	0.0740	2.50	"	2.00	ND	65.2	30-130			J
1,3-Dichlorobenzene	1.07	0.0490	2.50	"	2.00	ND	53.6	30-130			J
1,2-Dichlorobenzene	1.08	0.0395	2.50	"	2.00	ND	53.9	30-130			J
1,4-Dichlorobenzene	1.06	0.0320	2.50	"	2.00	ND	53.0	30-130			J
3,3'-Dichlorobenzidine	2.24	0.570	2.50	"	2.00	ND	112	30-130			J
2,4-Dichlorophenol	1.82	0.140	2.50	"	2.00	ND	91.2	30-130			J
2,6-Dichlorophenol	1.60	0.145	2.50	"	2.00	ND	80.1	30-130			J
Diethyl phthalate	1.65	0.0710	2.50	"	2.00	ND	82.5	30-130			J
2,4-Dimethylphenol	1.57	0.121	2.50	"	2.00	ND	78.6	30-130			J
Dimethyl phthalate	1.64	0.0605	2.50	"	2.00	ND	82.0	30-130			J
1,2-Dinitrobenzene	ND	1.73	2.50	"	2.00	ND		30-130			QM-07
1,3-Dinitrobenzene	1.63	0.230	2.50	"	2.00	ND	81.6	30-130			J
1,4-Dinitrobenzene	1.90	0.0645	2.50	"	2.00	ND	94.9	30-130			J
2,4-Dinitrophenol	ND	0.0110	2.50	"	4.00	ND		30-130			QM-07
2,4-Dinitrotoluene	1.81	0.105	2.50	"	2.00	ND	90.4	30-130			J
2,6-Dinitrotoluene	1.43	0.0830	2.50	"	2.00	ND	71.4	30-130			J

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:			03/17/2025 14:24
Project Location:			

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Matrix Spike (BC50046-MS1)		**Source: 2503028-02**			Prepared: 03/11/202 Analyzed: 03/12/202						
Diphenylamine	0.205	0.0720	2.50	"	2.00	ND	10.2	30-130			QM-07, J
Fluoranthene	2.10	0.0670	2.50	"	2.00	ND	105	30-130			J
Fluorene	1.52	0.0855	2.50	"	2.00	ND	75.8	30-130			J
Hexachlorobenzene	1.39	0.0795	2.50	"	2.00	ND	69.6	30-130			J
Hexachlorobutadiene	1.99	0.0600	2.50	"	2.00	ND	99.6	30-130			J
Hexachlorocyclopentadiene	ND	1.74	5.00	"	2.00	ND		30-130			QM-07
Hexachloroethane	1.54	0.0765	2.50	"	2.00	ND	77.1	30-130			J
Indeno (1,2,3-cd) pyrene	2.18	0.138	2.50	"	2.00	ND	109	30-130			J
Isophorone	2.00	0.0630	2.50	"	2.00	ND	99.8	30-130			J
2-Methyl-4,6-dinitrophenol	2.10	0.0500	2.50	"	2.00	ND	105	30-130			J
1-Methylnaphthalene	1.07	0.0680	2.50	"	2.00	ND	53.4	30-130			J
2-Methylnaphthalene	1.48	0.0880	2.50	"	2.00	ND	74.2	30-130			J
2-Methylphenol	1.55	0.322	1.65	"	2.00	ND	77.4	30-130			J
3/4-Methylphenol	1.75	0.138	2.50	"	2.00	ND	87.4	30-130			J
N-Nitroso-di-n-propylamine	1.48	0.0110	2.50	"	2.00	ND	74.1	30-130			J
N-Nitrosodimethylamine	1.52	0.136	2.50	"	2.00	ND	75.8	30-130			J
N-Nitrosodiphenylamine	0.205	0.0570	1.65	"	2.00	ND	10.2	30-130			QM-07, J
Naphthalene	1.23	0.0270	2.50	"	2.00	ND	61.6	30-130			J
2-Nitroaniline	2.04	0.0885	2.50	"	2.00	ND	102	30-130			J
3-Nitroaniline	1.41	0.302	2.50	"	2.00	ND	70.4	30-130			J
4-Nitroaniline	2.05	0.454	2.50	"	2.00	ND	102	30-130			J
Nitrobenzene	1.64	0.0480	2.50	"	2.00	ND	82.2	30-130			J
2-Nitrophenol	2.41	0.344	2.50	"	2.00	ND	120	30-130			J
4-Nitrophenol	2.12	1.90	5.00	"	2.00	ND	106	30-130			J
Pentachlorophenol	1.82	0.138	2.50	"	2.00	ND	90.8	30-130			J
Phenanthrene	1.66	0.0670	2.50	"	2.00	ND	83.1	30-130			J
Phenol	1.62	0.0395	2.50	"	2.00	ND	81.0	30-130			J
Pyrene	2.02	0.0635	2.50	"	2.00	ND	101	30-130			J
Pyridine	ND	0.0575	2.50	"	2.00	ND		30-130			
2,3,4,6-Tetrachlorophenol	1.85	0.0955	2.50	"	2.00	ND	92.5	30-130			J
2,3,5,6-Tetrachlorophenol	1.71	0.120	2.50	"	2.00	ND	85.6	30-130			J
1,2,4-Trichlorobenzene	1.48	0.0540	1.65	"	2.00	ND	73.9	30-130			J
2,4,5-Trichlorophenol	1.99	0.209	2.50	"	2.00	ND	99.5	30-130			J
2,4,6-Trichlorophenol	1.91	0.0660	2.50	"	2.00	ND	95.4	30-130			J
Surrogate: 2-Fluorophenol	*1.61*			"	*2.00*		*80.5*	*75-125*			
Surrogate: Phenol-d6	*2.04*			"	*2.00*		*102*	*75-125*			
Surrogate: 2,4,6-Tribromophenol	*1.95*			"	*2.00*		*97.4*	*75-125*			
Surrogate: Nitrobenzene-d5	*1.90*			"	*2.00*		*94.8*	*75-125*			
Surrogate: 2-Fluorobiphenyl	*1.75*			"	*2.00*		*87.5*	*75-125*			
Surrogate: Terphenyl-d14	*1.36*			"	*2.00*		*68.0*	*75-125*			*S-08*

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Matrix Spike Dup (BC50046-MSD1)		**Source: 2503028-02**			Prepared: 03/11/202 Analyzed: 03/12/202						
Acenaphthene	1.29	0.0660	2.50	mg/kg	2.00	ND	64.5	30-130	0.583	20	J
Aniline	0.960	0.0700	2.50	"	2.00	ND	48.0	30-130	9.67	20	J
Acenaphthylene	1.19	0.0540	2.50	"	2.00	ND	59.4	30-130	0.630	20	J
Anthracene	1.65	0.0760	2.50	"	2.00	ND	82.4	30-130	0.304	20	J
Azobenzene	1.78	0.0745	2.50	"	2.00	ND	89.1	30-130	0.699	20	J
Benz(a)anthracene	1.66	0.0635	2.50	"	2.00	ND	83.1	30-130	22.3	20	QM-07, J
Benzo (a) pyrene	1.89	0.0790	2.50	"	2.00	ND	94.4	30-130	2.55	20	J
Benzo (b) fluoranthene	2.14	0.0940	2.50	"	2.00	ND	107	30-130	3.21	20	J
Benzo (g,h,i) perylene	1.50	0.0985	2.50	"	2.00	ND	75.1	30-130	7.53	20	J
Benzo (k) fluoranthene	1.12	0.0765	2.50	"	2.00	ND	55.9	30-130	4.34	20	J
Benzidine	ND	0.580	2.50	"	2.00	ND		30-130		20	QM-07
Benzoic acid	2.10	0.0285	2.50	"	2.00	ND	105	30-130	5.39	20	J
Benzyl alcohol	2.24	0.0935	2.50	"	2.00	ND	112	30-130	4.33	20	J
Bis(2-chloroethoxy)methane	1.68	0.0420	2.50	"	2.00	ND	84.1	30-130	2.20	20	J
Bis(2-chloroethyl) ether	1.36	0.0585	2.50	"	2.00	ND	67.9	30-130	8.63	20	J
Bis(2-chloroisopropyl) ether	1.75	0.0655	2.50	"	2.00	ND	87.4	30-130	1.56	20	J
Bis(2-ethylhexyl) adipate	ND	0.0875	2.50	"	2.00	ND		30-130		20	QM-07
Bis(2-ethylhexyl) phthalate	1.92	0.0445	2.50	"	2.00	ND	96.0	30-130	2.64	20	J
4-Bromophenyl phenyl ether	1.71	0.0685	2.50	"	2.00	ND	85.6	30-130	25.5	20	QM-07, J
Butyl benzyl phthalate	2.23	0.0885	2.50	"	2.00	ND	112	30-130	18.7	20	J
Carbazole	1.39	0.0875	2.50	"	2.00	ND	69.5	30-130	13.6	20	J
4-Chloro-3-methylphenol	2.18	0.122	2.50	"	2.00	ND	109	30-130	28.7	20	QM-07, J
4-Chloroaniline	1.64	0.124	2.50	"	2.00	ND	81.9	30-130	1.97	20	J
2-Chloronaphthalene	1.22	0.0540	2.50	"	2.00	ND	61.0	30-130	0.205	20	J
2-Chlorophenol	1.20	0.0495	2.50	"	2.00	ND	60.0	30-130	1.47	20	J
4-Chlorophenyl phenyl ether	2.00	0.0530	2.50	"	2.00	ND	100	30-130	1.61	20	J
Chrysene	1.73	0.520	2.50	"	2.00	ND	86.4	30-130	2.94	20	J
Di-n-butyl phthalate	1.86	0.0725	2.50	"	2.00	ND	92.8	30-130	1.36	20	J
Di-n-octyl phthalate	1.26	0.0850	2.50	"	2.00	ND	63.1	30-130	27.1	20	QM-07, J
Dibenz (a,h) anthracene	1.89	0.136	2.50	"	2.00	ND	94.6	30-130	2.00	20	J
Dibenzofuran	1.30	0.0740	2.50	"	2.00	ND	64.9	30-130	0.576	20	J
1,3-Dichlorobenzene	1.00	0.0490	2.50	"	2.00	ND	50.2	30-130	6.50	20	J
1,2-Dichlorobenzene	1.12	0.0395	2.50	"	2.00	ND	56.1	30-130	4.09	20	J
1,4-Dichlorobenzene	1.05	0.0320	2.50	"	2.00	ND	52.5	30-130	0.948	20	J
3,3'-Dichlorobenzidine	1.48	0.570	2.50	"	2.00	ND	74.2	30-130	40.6	20	QM-07, J
2,4-Dichlorophenol	1.74	0.140	2.50	"	2.00	ND	87.2	30-130	4.48	20	J
2,6-Dichlorophenol	1.59	0.145	2.50	"	2.00	ND	79.6	30-130	0.626	20	J
Diethyl phthalate	1.64	0.0710	2.50	"	2.00	ND	81.8	30-130	0.913	20	J
2,4-Dimethylphenol	1.48	0.121	2.50	"	2.00	ND	74.1	30-130	5.89	20	J
Dimethyl phthalate	1.63	0.0605	2.50	"	2.00	ND	81.5	30-130	0.612	20	J
1,2-Dinitrobenzene	ND	1.73	2.50	"	2.00	ND		30-130		20	QM-07
1,3-Dinitrobenzene	1.60	0.230	2.50	"	2.00	ND	80.0	30-130	2.01	20	J
1,4-Dinitrobenzene	1.90	0.0645	2.50	"	2.00	ND	95.1	30-130	0.263	20	J
2,4-Dinitrophenol	ND	0.0110	2.50	"	4.00	ND		30-130		20	QM-07
2,4-Dinitrotoluene	1.98	0.105	2.50	"	2.00	ND	98.9	30-130	8.98	20	J
2,6-Dinitrotoluene	1.39	0.0830	2.50	"	2.00	ND	69.4	30-130	2.84	20	J

1 Laboratories

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

Semivolatile Organic Compounds - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50046 - 3550B - 8270C											
Matrix Spike Dup (BC50046-MSD1)		**Source: 2503028-02**			Prepared: 03/11/202 Analyzed: 03/12/202						
Diphenylamine	0.452	0.0720	2.50	"	2.00	ND	22.6	30-130	75.3	20	QM-07, J
Fluoranthene	2.13	0.0670	2.50	"	2.00	ND	106	30-130	1.54	20	J
Fluorene	1.56	0.0855	2.50	"	2.00	ND	78.1	30-130	3.09	20	J
Hexachlorobenzene	1.12	0.0795	2.50	"	2.00	ND	56.2	30-130	21.3	20	QM-07, J
Hexachlorobutadiene	2.12	0.0600	2.50	"	2.00	ND	106	30-130	6.32	20	J
Hexachlorocyclopentadiene	ND	1.74	5.00	"	2.00	ND		30-130		20	QM-07
Hexachloroethane	1.61	0.0765	2.50	"	2.00	ND	80.6	30-130	4.44	20	J
Indeno (1,2,3-cd) pyrene	2.22	0.138	2.50	"	2.00	ND	111	30-130	1.93	20	J
Isophorone	1.90	0.0630	2.50	"	2.00	ND	95.1	30-130	4.75	20	J
2-Methyl-4,6-dinitrophenol	2.06	0.0500	2.50	"	2.00	ND	103	30-130	1.68	20	J
1-Methylnaphthalene	1.14	0.0680	2.50	"	2.00	ND	56.8	30-130	6.13	20	J
2-Methylnaphthalene	1.53	0.0880	2.50	"	2.00	ND	76.4	30-130	2.82	20	J
2-Methylphenol	1.57	0.322	1.65	"	2.00	ND	78.4	30-130	1.28	20	J
3/4-Methylphenol	1.83	0.138	2.50	"	2.00	ND	91.4	30-130	4.48	20	J
N-Nitroso-di-n-propylamine	2.20	0.0110	2.50	"	2.00	ND	110	30-130	38.9	20	QM-07, J
N-Nitrosodimethylamine	1.62	0.136	2.50	"	2.00	ND	80.8	30-130	6.39	20	J
N-Nitrosodiphenylamine	0.452	0.0570	1.65	"	2.00	ND	22.6	30-130	75.3	20	QM-07, J
Naphthalene	1.21	0.0270	2.50	"	2.00	ND	60.5	30-130	1.84	20	J
2-Nitroaniline	2.25	0.0885	2.50	"	2.00	ND	112	30-130	9.44	20	J
3-Nitroaniline	1.42	0.302	2.50	"	2.00	ND	70.9	30-130	0.708	20	J
4-Nitroaniline	2.18	0.454	2.50	"	2.00	ND	109	30-130	6.04	20	J
Nitrobenzene	1.74	0.0480	2.50	"	2.00	ND	87.2	30-130	5.90	20	J
2-Nitrophenol	2.30	0.344	2.50	"	2.00	ND	115	30-130	4.45	20	J
4-Nitrophenol	2.12	1.90	5.00	"	2.00	ND	106	30-130	0.00	20	J
Pentachlorophenol	2.16	0.138	2.50	"	2.00	ND	108	30-130	17.4	20	J
Phenanthrene	1.68	0.0670	2.50	"	2.00	ND	83.9	30-130	0.898	20	J
Phenol	1.64	0.0395	2.50	"	2.00	ND	82.2	30-130	1.53	20	J
Pyrene	2.09	0.0635	2.50	"	2.00	ND	105	30-130	3.53	20	J
Pyridine	ND	0.0575	2.50	"	2.00	ND		30-130		20	
2,3,4,6-Tetrachlorophenol	1.84	0.0955	2.50	"	2.00	ND	91.8	30-130	0.814	20	J
2,3,5,6-Tetrachlorophenol	1.68	0.120	2.50	"	2.00	ND	84.0	30-130	1.92	20	J
1,2,4-Trichlorobenzene	1.50	0.0540	1.65	"	2.00	ND	75.2	30-130	1.84	20	J
2,4,5-Trichlorophenol	2.12	0.209	2.50	"	2.00	ND	106	30-130	6.09	20	J
2,4,6-Trichlorophenol	2.16	0.0660	2.50	"	2.00	ND	108	30-130	12.3	20	J
Surrogate: 2-Fluorophenol	*1.50*			"	*2.00*		*74.9*	*75-125*			*S-08*
Surrogate: Phenol-d6	*2.05*			"	*2.00*		*102*	*75-125*			
Surrogate: 2,4,6-Tribromophenol	*1.72*			"	*2.00*		*85.9*	*75-125*			
Surrogate: Nitrobenzene-d5	*1.72*			"	*2.00*		*86.0*	*75-125*			
Surrogate: 2-Fluorobiphenyl	*1.82*			"	*2.00*		*90.9*	*75-125*			
Surrogate: Terphenyl-d14	*1.80*			"	*2.00*		*90.2*	*75-125*			

1 Laboratories

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	Project Name:	Zachau Canyon	1 Labs Workorder No: 2503036
	Project Number:	[none]	**Reported:**
	Project Manager:		03/17/2025 14:24
	Project Location:		

8270 PAH SIM - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50067 - 3550B - 8270C SIM PAH											
Blank (BC50067-BLK1)					Prepared & Analyzed: 03/14/202						
Acenaphthene	ND	1.38	5.00	ug/kg							
Acenaphthylene	ND	1.38	5.00	"							
Anthracene	ND	1.24	5.00	"							
Benzo(a)anthracene	ND	0.849	5.00	"							
Benzo[a]pyrene	ND	2.30	5.00	"							
Benzo[b]fluoranthene	ND	2.31	5.00	"							
Benzo(ghi)perylene	ND	5.00	5.00	"							
Benzo[k]fluoranthene	ND	2.43	5.00	"							
Chrysene	ND	1.42	5.00	"							
Dibenz(a,h)anthracene	ND	4.73	5.00	"							
Fluoranthene	ND	1.04	5.00	"							
Fluorene	ND	1.25	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	4.42	5.00	"							
Naphthalene	ND	1.58	5.00	"							
Phenanthrene	ND	1.45	5.00	"							
Pyrene	ND	1.03	5.00	"							
2-Methylnaphthalene	ND	0.600	5.00	"							
Surrogate: Nitrobenzene-d5	*509*			*"*	*5000*		*10.2*	*25-130*			*S-04*
LCS (BC50067-BS1)					Prepared & Analyzed: 03/14/202						
Acenaphthene	184	1.38	5.00	ug/kg	250		73.4	43-160			
Acenaphthylene	249	1.38	5.00	"	250		99.5	43-160			
Anthracene	249	1.24	5.00	"	250		99.7	43-160			
Benzo(a)anthracene	327	0.849	5.00	"	250		131	43-160			
Benzo[a]pyrene	213	2.30	5.00	"	250		85.4	43-160			
Benzo[b]fluoranthene	205	2.31	5.00	"	250		82.1	43-160			
Benzo(ghi)perylene	188	5.00	5.00	"	250		75.3	43-160			
Benzo[k]fluoranthene	219	2.43	5.00	"	250		87.6	43-160			
Chrysene	268	1.42	5.00	"	250		107	43-160			
Dibenz(a,h)anthracene	193	4.73	5.00	"	250		77.1	43-160			
Fluoranthene	332	1.04	5.00	"	250		133	43-160			
Fluorene	177	1.25	5.00	"	250		70.8	43-160			
Indeno (1,2,3-cd) pyrene	188	4.42	5.00	"	250		75.1	43-160			
Naphthalene	335	1.58	5.00	"	250		134	43-160			
Phenanthrene	173	1.45	5.00	"	250		69.3	43-160			QM-11
Pyrene	153	1.03	5.00	"	250		61.2	43-160			
2-Methylnaphthalene	331	0.600	5.00	"	250		132	43-160			
Surrogate: Nitrobenzene-d5	*462*			*"*	*250*		*185*	*25-130*			*S-08*

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

8270 PAH SIM - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50067 - 3550B - 8270C SIM PAH											
LCS Dup (BC50067-BSD1)				Prepared & Analyzed: 03/14/202							
Acenaphthene	127	1.38	5.00	ug/kg	250		50.8	43-160	36.3	30	QM-11
Acenaphthylene	222	1.38	5.00	"	250		88.9	43-160	11.2	30	
Anthracene	254	1.24	5.00	"	250		102	43-160	2.03	30	
Benzo(a)anthracene	333	0.849	5.00	"	250		133	43-160	1.68	30	
Benzo[a]pyrene	224	2.30	5.00	"	250		89.7	43-160	4.91	30	
Benzo[b]fluoranthene	200	2.31	5.00	"	250		80.1	43-160	2.37	30	
Benzo(ghi)perylene	192	5.00	5.00	"	250		76.9	43-160	2.13	30	
Benzo[k]fluoranthene	219	2.43	5.00	"	250		87.6	43-160	0.0685	30	
Chrysene	266	1.42	5.00	"	250		107	43-160	0.561	30	
Dibenz(a,h)anthracene	191	4.73	5.00	"	250		76.5	43-160	0.834	30	
Fluoranthene	344	1.04	5.00	"	250		138	43-160	3.74	30	
Fluorene	178	1.25	5.00	"	250		71.4	43-160	0.731	30	
Indeno (1,2,3-cd) pyrene	180	4.42	5.00	"	250		72.2	43-160	4.02	30	
Naphthalene	342	1.58	5.00	"	250		137	43-160	2.07	30	
Phenanthrene	185	1.45	5.00	"	250		73.9	43-160	6.37	30	
Pyrene	167	1.03	5.00	"	250		66.6	43-160	8.55	30	
2-Methylnaphthalene	341	0.600	5.00	"	250		136	43-160	2.83	30	
Surrogate: Nitrobenzene-d5	*438*			"	*250*		*175*	*25-160*			*S-08*
Matrix Spike (BC50067-MS1)			**Source: 2503036-01**		Prepared & Analyzed: 03/14/202						
Acenaphthene	184	1.38	5.00	ug/kg	250	ND	73.5	43-160			
Acenaphthylene	276	1.38	5.00	"	250	ND	110	43-160			
Anthracene	246	1.24	5.00	"	250	ND	98.4	43-160			
Benzo(a)anthracene	342	0.849	5.00	"	250	ND	137	43-160			
Benzo[a]pyrene	226	2.30	5.00	"	250	ND	90.4	43-160			
Benzo[b]fluoranthene	222	2.31	5.00	"	250	ND	88.6	43-160			
Benzo(ghi)perylene	191	5.00	5.00	"	250	ND	76.5	43-160			
Benzo[k]fluoranthene	167	2.43	5.00	"	250	ND	66.6	43-160			
Chrysene	251	1.42	5.00	"	250	ND	100	43-160			
Dibenz(a,h)anthracene	188	4.73	5.00	"	250	ND	75.4	43-160			
Fluoranthene	204	1.04	5.00	"	250	ND	81.6	43-160			
Fluorene	168	1.25	5.00	"	250	ND	67.1	43-160			
Indeno (1,2,3-cd) pyrene	188	4.42	5.00	"	250	ND	75.4	43-160			
Naphthalene	335	1.58	5.00	"	250	ND	134	43-160			
Phenanthrene	254	1.45	5.00	"	250	ND	102	43-160			
Pyrene	250	1.03	5.00	"	250	ND	100	43-160			
2-Methylnaphthalene	321	0.600	5.00	"	250	ND	128	43-160			
Surrogate: Nitrobenzene-d5	*442*			"	*250*		*177*	*43-130*			*S-08*

1 Laboratories

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Project Name:	Zachau Canyon	1 LabsWorkorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

8270 PAH SIM - Quality Control Report

Analyte	Result	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch BC50067 - 3550B - 8270C SIM PAH											
Matrix Spike Dup (BC50067-MSD1)		**Source: 2503036-01**			Prepared & Analyzed: 03/14/202						
Acenaphthene	159	1.38	5.00	ug/kg	250	ND	63.7	50-150	14.3	30	
Acenaphthylene	240	1.38	5.00	"	250	ND	95.9	43-160	13.9	30	
Anthracene	247	1.24	5.00	"	250	ND	98.7	43-160	0.345	30	
Benzo(a)anthracene	326	0.849	5.00	"	250	ND	131	43-160	4.55	30	
Benzo[a]pyrene	227	2.30	5.00	"	250	ND	90.8	43-160	0.397	30	
Benzo[b]fluoranthene	201	2.31	5.00	"	250	ND	80.3	43-160	9.85	30	
Benzo(ghi)perylene	192	5.00	5.00	"	250	ND	76.8	43-160	0.417	30	
Benzo[k]fluoranthene	216	2.43	5.00	"	250	ND	86.4	43-160	25.8	30	
Chrysene	261	1.42	5.00	"	250	ND	105	43-160	4.14	30	
Dibenz(a,h)anthracene	194	4.73	5.00	"	250	ND	77.4	43-160	2.72	30	
Fluoranthene	371	1.04	5.00	"	250	ND	148	43-160	58.0	30	QM-11
Fluorene	177	1.25	5.00	"	250	ND	70.7	43-160	5.28	30	
Indeno (1,2,3-cd) pyrene	183	4.42	5.00	"	250	ND	73.2	43-160	2.99	30	
Naphthalene	350	1.58	5.00	"	250	ND	140	43-160	4.30	30	
Phenanthrene	186	1.45	5.00	"	250	ND	74.3	43-160	31.1	30	QM-11
Pyrene	170	1.03	5.00	"	250	ND	68.1	43-160	38.0	30	QM-11
2-Methylnaphthalene	351	0.600	5.00	"	250	ND	140	43-160	9.13	30	
Surrogate: Nitrobenzene-d5	*435*			"	*250*		*174*	*25-130*			*S-08*

1 Laboratories

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Project Name:	Zachau Canyon	1 Labs Workorder No:	2503036
Project Number:	[none]	**Reported:**	
Project Manager:		03/17/2025 14:24	
Project Location:			

Qualifiers and Definitions

Item	Qualifiers
J	The analyte was positively identified and the associated numerical value is an approximate and estimated concentration reported between the MDL and PQL.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	The spike recovery was outside acceptance limits for the LCS and/or LCSD. The batch was accepted based on samples results are ND. No reanalyis required.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-08	The surrogate recovery is outside the control limits but LCS revocery is within limits. Data is accepted based on LCS recovery.

Item	Definitions
%REC	Percent Recovery
Dup	Duplicate
EPA	Environmental Protection Agency
ICP	Inductively Coupled Plasma
ID	Identification
LCS	Laboratory Control Sample
MDL	Method Detection Limit
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TAT	Turnaround Time
ug/Kg	Micrograms per Kilogram
ug/m3	Micrograms per Cubic Meter