

2024 Post-Closure Groundwater Monitoring Report

Scougal Rubber Corporation Facility/Site No. 93637295 VCP No. NW1707

February 2025

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Scougal Rubber Corporation 6239 Corson Avenue South Seattle, WA

2024 Post-Closure Groundwater Monitoring Report

Scougal Rubber Corporation Facility/Site No. 93637295 VCP No. NW1707

February 2025

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2024 Analytical Laboratory Reports from Groundwater Samples

1 Introduction

This report is the third annual groundwater monitoring report for the Site known as Scougal Rubber Corp (Scougal). Scougal is former Voluntary Cleanup Site NW1707 and Washington State Department of Ecology (Ecology) Facility Site #93637295. Scougal's address is 6239 Corson Ave S, Seattle, WA 98108.

As of 2020, Scougal completed soil and groundwater investigation and remediation to Model Toxics Control Act (MTCA) standards, except localized areas of residual groundwater contamination. This is the third annual post-closure groundwater monitoring report that began after receipt of Ecology's No Further Action with Environmental Covenant.

Starting in 2022, groundwater monitoring occurred every six months for two years (2022 and 2023). Concentrations from this monitoring did not increase by more than 100 percent when compared to groundwater data from before the No Further Action (Table 1). Therefore, the frequency of groundwater monitoring has decreased to once per year to be continued until five years after receipt of the No Further Action with Environmental Covenant from Ecology (2025 and 2026). At that time, if no further increases by more than 100 percent, a reduced monitoring frequency may be recommended. The monitoring occurs in accordance with the No Further Action Letter and its attachment, Scougal Rubber Corp, Post-Closure Groundwater Monitoring Plan (Pacific Groundwater Group [PGG] February 2021).

2 2024 Groundwater Monitoring

2.1 Work Performed

The locations of post-closure groundwater monitoring wells are shown on Figure 1, as well as the areas where groundwater concentrations exceed MTCA Method A cleanup levels. As shown on Figure 1, the following wells are sampled: MW-12, MW-13, MW-14, and MW-17.

On November 14, 2024, groundwater monitoring was performed at the Scougal Site. The sampling followed procedures set forth in the Post-Closure Groundwater Monitoring Plan (PGG 2021).

Samples were collected according to standard low flow methods described in the Monitoring Plan using care to collect volatile organic compound analyses and maintain sample quality. Samples were stored on ice and chain of custody was maintained until receipt by Analytical Resources, Inc., a Washington-certified laboratory.

2.2 Analytical Results

Samples were analyzed by the laboratory using U.S. Environmental Protection Agency Method 8260 to report concentrations of the following analytes for comparison to MTCA Method A (or Method B for 1,2-Dichloroethylene (DCE)) cleanup levels (micrograms per liter or ug/L) listed:

- Trichloroethylene 5 ug/L
- 1,2-Dichloroethylene 72 ug/L
- Vinyl Chloride 0.2 ug/L

Table 1 provides the analytical results from the 2024 sampling event. As shown and as found in previous sampling, the most downgradient well, MW-12, does not exceed the TCE Method A cleanup level. Also as expected, DCE does not exceed the Method B cleanup level in any wells.

TCE exceeds the Method A cleanup level for the November 2024 sampling event in wells MW-14 and MW-17. Vinyl chloride exceeds the Method A cleanup level for the November 2024 sampling event in wells MW-12, MW-13, and MW-14.

3 2025 Monitoring and Reporting Planned

Groundwater monitoring will proceed in 2025 per the Post-Closure Groundwater Monitoring Plan (PGG 2021) with one round of sampling to occur in November, reporting in early 2026.

In the 2026 groundwater monitoring annual report (reporting in early 2027), we will assess trends in groundwater monitoring using data from after receipt of the No Further Action and recommend the sampling frequency for future monitoring beginning in 2027. Groundwater monitoring will continue at Scougal Rubber until cleanup levels (CULs) are achieved.

		Trichloroethene		cis-1,2-Dichloroethene
	Well ID	(TCE)	Vinyl Chloride	(1,2-DCE)
Cleanup Levels		5ª ug/L	0.2 ^a ug/L	72 ^b ug/L
December 2019	MW-12	1.0U	0.82	1.1
December 2019	MW-13	5.3	4.1	13
December 2019	MW-14	9.5	5.8	2
December 2019	MW-17	14	0.89	5.2
February 2020	MW-12	1.0U	0.95	1.3
February 2020	MW-13	28	0.2U	1.0U
February 2020	MW-14	16	2.6	1.5
February 2020	MW-17	21	0.2U	1.2
March 2022	MW-12	0.11J	0.79	1.15
March 2022	MW-13	30.7	0.87	2.78
March 2022	MW-14	24.8	0.76	1.02
March 2022	MW-17*	NS	NS	NS
November 2022	MW-12	0.20U	0.79	0.89
November 2022	MW-13	4.76	6.84	10.9
November 2022	MW-14	24.1	1.95	1.5
November 2022	MW-17	16.4	0.20U	0.34
May 2023	MW-12	0.09J	0.89	1.00
May 2023	MW-13	1.34	4.44	7.16
May 2023	MW-14	17	1.32	2.09
May 2023	MW-17	10.2	0.20U	0.31
November 2023	MW-12	0.20U	0.64	0.79
November 2023	MW-13	1.48	5.16	8.44
November 2023	MW-14	17.13	1.97	2.13
November 2023	MW-17	15.2	0.20U	0.27
November 2024	MW-12	0.20U	0.37	0.49
November 2024	MW-13	1.21	4.89	5.44
November 2024	MW-14	10.3	1.72	1.29
November 2024	MW-17	13.2	0.20U	0.37

 Table 1. Analytical Results for Groundwater Samples from before the No Further Action, and for 2022-2024

 Groundwater Samples from Post-Closure Monitoring Wells, Scougal Rubber Corporation, Seattle, WA

^a MTCA Method A cleanup levels are provided for comparison purposes only.

^b MTCA Method B cleanup levels are provided for comparison purposes only.

U indicates non-detect.

J qualifier signifies the estimated concentration value was detection below the reporting limit.

NS means that the well was not sampled.

*No access to MW-17 as Ecology blocks and other equipment were stored in the area.



0 Feet 50 2019 Aerial from King County Scougal Rubber Site Μ



19 November 2024

Travis Klaas Mott MacDonald 1601 5th Avenue Suite 800 Seattle, WA 98101

RE: Scougal Rubber (Scougal Rubber)

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s) 24K0355 Associated SDG ID(s) N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Kelly Bottem, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



4611 S. 134th Place, Suite 100 • Tukwila, WA 98168 • Ph: (206) 695-6200 • Fax: (206) 695-6202

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 24K0355 Turn-around Requested: Standard				Page: of Analytical Resources, LLC Analytical Chemists and Consu					al Resources, LLC					
ARI Client Company: Mott MacDonald 206-329-7587					Date:	Date: Ice Present? YT					4611 South 134th Place, Suite 100 Tukwila, WA 98168			
Client Contact: Travis Klaas					No. of Coolers:	No. of Doolers: 1 Cooler Temps: 5.7					206-695	206-695-6200 206-695-6201 (fax)		
Client Project Name: Scarcial Dubber					Analysis Requested			Notes/Comments						
Client Project #: 518300048-001 AP + CS			* 0							TCE, 1.2-DCE,				
Sample ID	Date	Time	Matrix	No. Containers	V0C			8				Vinyl chloride		
Trip Blanks														
MW-17	11/14	1045	w	3	X									
MW-12	1	1755	w	3	X									
MW -13		1313	w	3	X									
MW-140		1030	W	6	X									
					6									
Comments/Special Instructions	Relinquished by: (Signature)	Q	Re	Received by: (Signature)	the			Relinquished	l by:		Received by (Signature)	:		
For MS/MSD Printed Name: For MS/MSD Printed Name: Printed Name:		Printed Name:	lono	in r	1	Printed Nam	e:		Printed Nam	ie:				
8260	Company: MDH	MacDo	mald	Company:	ARE	-		Company:			Company:			
-1,2-DLE	Date & Time:	4 13:5	54	Date & Time:	uliala	14 11	54	Date & Time	R.		Date & Time	н 		

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Mott MacDonald	Project: Scougal Rubber					
1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:				
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13				
ANALYTICAL REPORT FOR SAMPLES						

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Trip Blanks	24K0355-01	Water	14-Nov-2024 10:45	14-Nov-2024 13:54
MW-17	24K0355-02	Water	14-Nov-2024 10:45	14-Nov-2024 13:54
MW-12	24K0355-03	Water	14-Nov-2024 12:55	14-Nov-2024 13:54
MW-13	24K0355-04	Water	14-Nov-2024 13:13	14-Nov-2024 13:54
MW-14	24K0355-05	Water	14-Nov-2024 10:30	14-Nov-2024 13:54



Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Work Order Case Narrative

Volatiles - EPA Method SW8260D

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) spike recoveries and relative percent difference (RPD) were within advisory control limits.

	Analytical Resources, LLC
70	Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: moth muchand Project Name: Scougal COC No(s): NA Delivered by: Fed-Ex UPS Courier Assigned ARI Job No: 24K03555 Tracking No: Preliminary Examination Phase: Vere intact, properly signed and dated custody seals attached to the outside of the cooler? Were custody papers included with the cooler? Were custody papers properly filled out (ink, signed, etc.)	Hand Delivered YE: YE: YE: Temp Gun ID#	Other: S S E YES	- 4 0 0 0 0 0 0 0
Were coolers received between 0°- 6° (°C)		VES	NO
We sufficient issued (if appropriate)?		ILO	NO
	NA	YES	NO
1/14/24	1354	-	
Cooler Accepted by:Time:Date:Time:	177 /		
Complete custody forms and attach all shipping documents			
Log-In Phase:			
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam B	lock N/A Other:		
Are any samples that were out of temperature compliance documented in LIMS?		YES	NO
			NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		VES	NO
Did all bettle lebele and tage agree with evoted a papers?		VEC	NO
		CIEO	NO
Were all bottles used correct for the requested analyses?	(YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	(NA)	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	11/12/	241
Were the sample(s) split NA YES Date/Time: Equipment:		Split by:	
Syram Strategy and Strategy a		· P	
Samples Logged by: Date: 11/4/24 Time: 1435 Label	s checked by:	CD	
the Notice Design Manager of discommending and an and the	s checked by.		
Noury Project Manager of discrepancies or concerns			
Additional Notes, Discrepancies, & Resolutions:			
COC lists 3 trip blanks, 4 were - logged all.	receev	rel	
By: Ting the Date: 1/14/24			

0016F 10/31/2024 **Cooler Receipt Form**



Analytical	Report
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Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Trip Blanks 24K0355-01 (Water)

Volatile Organic Compounds

Method: EPA 8260D	Method: EPA 8260D									
Instrument: NT3 Analyst: LH							Analyzed: 11/15/2024 15:58			
Sample Preparation:	nd Trap) Sample Size: 10 Final Volume: 1	Frap) Sample Size: 10 mL Final Volume: 10 mL				Extract ID: 24K0355-0				
				Detection	Reporting					
Analyte		CAS Number	Dilution	Limit	Limit	Result	Units	Notes		
Vinyl Chloride		75-01-4	1	0.10	0.20	ND	ug/L	U		
cis-1,2-Dichloroethene		156-59-2	1	0.10	0.20	ND	ug/L	U		
Trichloroethene		79-01-6	1	0.10	0.20	ND	ug/L	U		
Surrogate: 1,2-Dichloroetha	ne-d4				80-129 %	102	%			
Surrogate: Toluene-d8				80-120 %	99.9	%				
Surrogate: 4-Bromofluorobe				80-120 %	100	%				
Surrogate: 1,2-Dichlorobenz	zene-d4				80-120 %	99.7	%			



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Mott MacDonald	Project: Scougal Rubber						
1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:					
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13					
	24K0355-02 (Water)						
Volatile Organic Compounds							

Method: EPA 8260D								Sampled: 11/14/2024 10:45		
Instrument: NT3 Analys		Analyzed: 11/15/2024 16:20								
Sample Preparation:	Preparation Method: EPA 5030C (Purge Preparation Batch: BMK0407 Prepared: 11/15/2024	and Trap) Sample Size: 10 Final Volume: 1	0 mL 0 mL			Extract ID: 24K0355-02 A				
				Detection	Reporting					
Analyte		CAS Number	Dilution	Limit	Limit	Result	Units	Notes		
Vinyl Chloride		75-01-4	1	0.10	0.20	ND	ug/L	U		
cis-1,2-Dichloroethene		156-59-2	1	0.10	0.20	0.37	ug/L			
Trichloroethene		79-01-6	1	0.10	0.20	13.2	ug/L			
Surrogate: 1,2-Dichloroethe	ane-d4				80-129 %	99.0	%			
Surrogate: Toluene-d8					80-120 %	96.9	%			
Surrogate: 4-Bromofluorob	enzene				80-120 %	95.3	%			
Surrogate: 1,2-Dichloroben	zene-d4				80-120 %	104	%			



Mott MacDonald	Project: Scougal Rubber	
1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13
	MW-12	
	24K0355-03 (Water)	

Volatile Organic Com	pounds							
Method: EPA 8260D						Sa	ampled: 11	/14/2024 12:55
Instrument: NT3 Analys	Analyzed: 11/15/2024 16:42							
Sample Preparation:	Preparation Method: EPA 5030C (Purge	e and Trap)				E	Extract ID:	24K0355-03 A
	Preparation Batch: BMK0407	Sample Size: 10) mL					
	Prepared: 11/15/2024	Final Volume: 1	0 mL					
				Detection	Reporting			
Analyte		CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Vinyl Chloride		75-01-4	1	0.10	0.20	0.37	ug/L	
cis-1,2-Dichloroethene		156-59-2	1	0.10	0.20	0.49	ug/L	
Trichloroethene		79-01-6	1	0.10	0.20	ND	ug/L	U
Surrogate: 1,2-Dichloroethe	une-d4				80-129 %	109	%	
Surrogate: Toluene-d8					80-120 %	98.5	%	
Surrogate: 4-Bromofluorobe	enzene				80-120 %	98.5	%	
Surrogate: 1,2-Dichloroben	zene-d4				80-120 %	102	%	



Mott MacDonald	Project: Scougal Rubber									
1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:								
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13								
MW-13										
	24K0355-04 (Water)									
Volatile Organic Compounds										

iethod: EPA 8260D											
Instrument: NT3 Analyst: LH											
Trap)				E	Extract ID:	24K0355-04 A					
Sample Size: 10) mL										
Final Volume: 1	0 mL										
		Detection	Reporting								
CAS Number	Dilution	Limit	Limit	Result	Units	Notes					
75-01-4	1	0.10	0.20	4.89	ug/L						
156-59-2	1	0.10	0.20	5.44	ug/L						
79-01-6	1	0.10	0.20	1.21	ug/L						
			80-129 %	108	%						
			80-120 %	98.5	%						
			80-120 %	94.0	%						
			80-120 %	105	%						
	řap) Sample Size: 1(Final Volume: 1 CAS Number 75-01-4 156-59-2 79-01-6	Trap) Sample Size: 10 mLFinal Volume: 10 mLCAS NumberDilution75-01-41156-59-2179-01-61	Detection CAS Number Dilution 75-01-4 1 0.10 156-59-2 1 0.10 79-01-6 1 0.10	Detection Reporting CAS Number Dilution Limit 75-01-4 1 0.10 0.20 156-59-2 1 0.10 0.20 79-01-6 1 0.10 0.20 80-129 % 80-129 % 80-120 % 80-120 % 80-120 % 80-120 %	Detection Reporting CAS Number Dilution Limit Result 75-01-4 1 0.10 0.20 4.89 156-59-2 1 0.10 0.20 5.44 79-01-6 1 0.10 0.20 1.21 80-129 % 108 80-129 % 98.5 80-120 % 94.0 80-120 % 105	Sample Size: 10 mL Extract ID: Sample Size: 10 mL Detection Reporting CAS Number Dilution Limit Result Units CAS Number Dilution Limit Case ug/L T5-01-4 0.10 0.20 4.89 ug/L T5-01-4 0.10 0.20 4.89 ug/L T5-01-4 1 0.10 0.20 4.89 ug/L 156-59-2 1 0.10 0.20 5.44 ug/L 10 121 ug/L 10 121 ug/L 10 121 ug/L 10 10 101 10 <					



Mott MacDonald	Project: Scougal Rubber	
1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13
	MW-14 24K0355-05 (Water)	

Volatile Organic Con	pounds							
Method: EPA 8260D			Sa	ampled: 11	/14/2024 10:30			
Instrument: NT3 Analys	Analyzed: 11/15/2024 17:26							
Sample Preparation:	Preparation Method: EPA 5030C (Purge	e and Trap)				E	Extract ID:	24K0355-05 A
	Preparation Batch: BMK0407	Sample Size: 10) mL					
	Prepared: 11/15/2024	Final Volume: 1	0 mL					
				Detection	Reporting			
Analyte		CAS Number	Dilution	Limit	Limit	Result	Units	Notes
Vinyl Chloride		75-01-4	1	0.10	0.20	1.72	ug/L	
cis-1,2-Dichloroethene		156-59-2	1	0.10	0.20	1.29	ug/L	
Trichloroethene		79-01-6	1	0.10	0.20	10.3	ug/L	
Surrogate: 1,2-Dichloroeth	ane-d4				80-129 %	104	%	
Surrogate: Toluene-d8					80-120 %	96.5	%	
Surrogate: 4-Bromofluorob	enzene				80-120 %	94.8	%	
Surrogate: 1,2-Dichloroben	nzene-d4				80-120 %	102	%	



Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BMK0407 - EPA 8260D

Instrument: NT3 Analyst: LH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BMK0407-BLK1)				Prep	ared: 15-Nov	v-2024 An	alyzed: 15-	Nov-2024 1	15:36		
Vinyl Chloride	ND	0.10	0.20	ug/L							U
cis-1,2-Dichloroethene	ND	0.10	0.20	ug/L							U
Trichloroethene	ND	0.10	0.20	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	5.20			ug/L	5.00		104	80-129			
Surrogate: Toluene-d8	4.91			ug/L	5.00		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	5.02			ug/L	5.00		100	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.09			ug/L	5.00		102	80-120			



Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BMK0407 - EPA 8260D

Instrument: NT3 Analyst: LH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BMK0407-BS1)				Prep	pared: 15-Nov	v-2024 An	alyzed: 15-	Nov-2024	14:29		
Vinyl Chloride	9.95	0.10	0.20	ug/L	10.0		99.5	66-133			
cis-1,2-Dichloroethene	9.51	0.10	0.20	ug/L	10.0		95.1	80-121			
Trichloroethene	9.98	0.10	0.20	ug/L	10.0		99.8	80-120			
Surrogate: 1,2-Dichloroethane-d4	4.75			ug/L	5.00		95.0	80-129			
Surrogate: Toluene-d8	4.92			ug/L	5.00		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	4.87			ug/L	5.00		97.4	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.11			ug/L	5.00		102	80-120			



Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BMK0407 - EPA 8260D

Instrument: NT3 Analyst: LH

QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS Dup (BMK0407-BSD1)				Prep	pared: 15-Nov	v-2024 An	alyzed: 15-	Nov-2024	14:51		
Vinyl Chloride	9.88	0.10	0.20	ug/L	10.0		98.8	66-133	0.70	30	
cis-1,2-Dichloroethene	10.0	0.10	0.20	ug/L	10.0		100	80-121	5.10	30	
Trichloroethene	10.4	0.10	0.20	ug/L	10.0		104	80-120	3.80	30	
Surrogate: 1,2-Dichloroethane-d4	4.98			ug/L	5.00		99.7	80-129			
Surrogate: Toluene-d8	5.01			ug/L	5.00		100	80-120			
Surrogate: 4-Bromofluorobenzene	5.04			ug/L	5.00		101	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.06			ug/L	5.00		101	80-120			



Mott MacDonald 1601 5th Avenue Suite 800 Seattle WA, 98101 Project: Scougal Rubber Project Number: Scougal Rubber Project Manager: Travis Klaas

Reported: 19-Nov-2024 13:13

Analysis by: Analytical Resources, LLC

Volatile Organic Compounds - Quality Control

Batch BMK0407 - EPA 8260D

Instrument: NT3 Analyst: LH

QC Sample/Analyte	I Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BMK0407-MS1)	So	urce: 24K	(0355-05	Prep	ared: 15-Nov	v-2024 An	alyzed: 15-	Nov-2024 2	20:01		
Vinyl Chloride	12.0	0.10	0.20	ug/L	10.0	1.72	103	66-133			
cis-1,2-Dichloroethene	10.2	0.10	0.20	ug/L	10.0	1.29	89.2	80-121			
Trichloroethene	19.8	0.10	0.20	ug/L	10.0	10.3	95.4	80-120			
Surrogate: 1,2-Dichloroethane-d4	5.25			ug/L	5.00	5.22	105	80-129			
Surrogate: Toluene-d8	4.87			ug/L	5.00	4.83	97.5	80-120			
Surrogate: 4-Bromofluorobenzene	5.01			ug/L	5.00	4.74	100	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.18			ug/L	5.00	5.09	104	80-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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QC Sample/Analyte	Result	Detection Limit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BMK0407-MSD1)	So	urce: 24k	0355-05	Prep	ared: 15-Nov	v-2024 An	alyzed: 15	-Nov-2024 2	20:23		
Vinyl Chloride	12.3	0.10	0.20	ug/L	10.0	1.72	106	66-133	2.31	30	
cis-1,2-Dichloroethene	10.2	0.10	0.20	ug/L	10.0	1.29	89.1	80-121	0.07	30	
Trichloroethene	20.5	0.10	0.20	ug/L	10.0	10.3	102	80-120	3.39	30	
Surrogate: 1,2-Dichloroethane-d4	5.23			ug/L	5.00	5.22	105	80-129			
Surrogate: Toluene-d8	5.03			ug/L	5.00	4.83	101	80-120			
Surrogate: 4-Bromofluorobenzene	5.12			ug/L	5.00	4.74	102	80-120			
Surrogate: 1,2-Dichlorobenzene-d4	5.10			ug/L	5.00	5.09	102	80-120			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.



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1601 5th Avenue Suite 800	Project Number: Scougal Rubber	Reported:
Seattle WA, 98101	Project Manager: Travis Klaas	19-Nov-2024 13:13

Certified Analyses included in this Report

Analyte		Certifications	Certifications		
EPA 8260D in V	Vater				
Vinyl Chloride		DoD-ELAP,ADEC,NELAF	,WADOE		
cis-1,2-Dichloroethene		DoD-ELAP,ADEC,NELAF	,WADOE		
Trichloroethene		DoD-ELAP,ADEC,NELAF	,WADOE		
Code	Description		Number	Expires	

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	03/28/2025
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program, PJLA Testing	66169	02/28/2025
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2025
WADOE	WA Dept of Ecology	C558	06/30/2025
WA-DW	Ecology - Drinking Water	C558	06/30/2025



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		Notes and Def	finitions		
J	Estimated concentration value detected below the reporting limit.				
U	This analyte is not detected above the reporting limit	t (RL) or if noted, no	ot detected above the limit of detection (LOD).		
DET	Analyte DETECTED				
ND	Analyte NOT DETECTED at or above the reporting	limit			

- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- [2C] Indicates this result was quantified on the second column on a dual column analysis.



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