

January 17, 2023

Dale Myers Washington State Department of Ecology Northwest Regional Office 15700 Dayton Avenue North Shoreline, WA 98133

Re: Progress Report No. 17 – 4th Quarter 2022

Texaco Strickland Cleanup Site 6808 196th Street SW Lynnwood, Washington Agreed Order No. 14315 Ecology PM – Dale Myers Aspect Project No. 180357

Dear Dale:

Aspect Consulting, LLC (Aspect) is pleased to provide Progress Report No. 17 on behalf of potentially liable persons (PLPs) Strickland Real Estate Holdings (SREH) and Chevron Environmental Management Company (CEMC), who are signatories to Washington State Department of Ecology (Ecology) Agreed Order (AO) #14315, effective September 10, 2018, for the Texaco Strickland Site (Site). The AO requires that the PLPs submit quarterly progress reports to Ecology until satisfaction of the Agreed Order.

This Progress Report No. 17 is for the fourth quarter 2022 reporting period ending on December 31, 2022.

Progress Made During the Reporting Period

The Remedial Investigation (RI) and Interim Action (IA) for the Site are progressing on separate tracks. The following sections detail the progress made for each during the reporting period.

Remedial Investigation

All data gaps identified in the RI Work Plan have been closed, except one: assessment of potential petroleum vapor impacts within the Chri-Mar Apartment building, which is south-adjacent to the Site. A Tier II vapor intrusion assessment was reported to Ecology in the final Vapor Intrusion Assessment Report (VIAR) on March 28, 2022. Ecology requested a second round of ambient, crawlspace, indoor air, and soil gas sampling be conducted in accordance with the sampling procedures outlined in the VIAR.

The second air sampling event was conducted on November 15 and 16, 2022 after the IA excavation and soil export was completed by November 3. Analytical results for air (both crawlspace and indoor air) were adjusted for ambient, background conditions in accordance with Ecology guidance (Ecology, 2022) and compared to the generic MTCA Method B cleanup level for

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total petroleum hydrocarbons (TPH¹) in indoor air. Adjusted indoor air concentrations of benzene, naphthalene, and TPH exceeded their respective MTCA Method B cleanup levels in one or more indoor air sample locations during the November 2022 sampling event. Draft, unvalidated sampling results were transmitted to Ecology on December 13, 2022.

Interim Action

Progress on the IA during the fourth quarter 2022 is summarized as follows:

- Continued export of petroleum-contaminated soil and disposal at the Cadman facility in Everett.
- Advanced excavation and lagging to final excavation limits (maximum of 25 feet deep) and installed all tiebacks.
- Transmitted IA Status Letter to Ecology on December 8, 2022, that contained all performance sampling results and laboratory reports available to date.
- Achieved planned excavation limits on October 31, 2022. Overexcavation of the one performance soil sample in eastern sidewall, which exceeded remediation levels, occurred between December 6 and 7, 2022.
- Contaminated soil between the north wall and the property boundary is being excavated using a vactor truck. It is anticipated that exceedances of remediation levels will remain at the final north wall limits in off-Property soils in the right-of-way.
- Initiated backfill of excavation on October 31, 2022, and substantially completed backfill on December 9, 2022. Crushed surfacing base course was imported for final grade completion on December 13 and 27, 2022.

Sampling and/or Testing Reports Received

IA performance soil sampling results from the eastern sidewall overexcavation and north wall vactor excavation are included in Table 1 and Attachment A.

Summary of Deviations

North wall vactor excavation was added to the IA scope to remove contaminated soil between the north shoring wall and the property line. This was described in the December 8, 2022 IA Status Letter.

Contacts with Other Entities or Public

November 2022 Air Analytical Results were transmitted to Ecology on December 13, 2022. Per Ecology's request, the November 2022 Air Analytical Results were transmitted to the Snohomish County Health District on December 14, 2022.

Potential Problems and Suggested Solutions

No potential problems are anticipated for first quarter 2023 activities.

¹ TPH in air is the sum of Ecology guidance specified aliphatic hydrocarbons, aromatic hydrocarbons, and gasoline-range VOCs.

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Changes in Key Personnel

No changes in key personnel occurred during fourth quarter 2022.

Activities Planned for the Next Reporting Period

The following activities for the RI and IA are planned for the first quarter 2023:

Remedial Investigation

- As a result of the November 2022 air sampling event results, Ecology requested urgent implementation of crawlspace ventilation for the protection of potential indoor air exposure at the Chri-Mar Apartment building. Aspect prepared a Draft Ventilation Work Plan, transmitted for Ecology review on January 6, 2023 and implemented crawlspace ventilation on January 10, 2023.
- Prior to ventilation, air sampling was conducted on January 9, 2023. Once the crawlspace ventilation has been active for a minimum of one month, the air sampling will be repeated. Both events will be conducted in accordance with the sampling procedures in the VIAR.
- As a result of the November 2022 air sampling results, Aspect filed an AO Schedule Extension Request on December 13, 2022, which was granted. The Agency Review Draft RI Report is now due to Ecology on July 10, 2023.

Interim Action

- The IA substantial completion date was January 6, 2023. The schedule was extended to accommodate eastern sidewall overexcavation and north wall excavation. Weather-induced delays were also encountered in the second half of December during north wall vactor excavation.
- The north wall excavation extends to the property line and additional overexcavation of the sidewall is impracticable, regardless of performance sampling results.. All other soil performance sampling at excavation sidewalls and excavation bottom verify compliance with remediation levels.
- Aspect will begin preparation of the Ecology Review Draft Interim Action Report (IAR), which is due to Ecology within 90 days of construction completion and receipt of all analytical results.

The next quarterly progress report will be submitted on or before April 10, 2023.

If you have any questions concerning this progress report, please contact Adam Griffin at 206-780-7746.

Sincerely,

Aspect Consulting, LLC

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Adam Griffin, PE Associate Remediation Engineer agriffin@aspectconsulting.com

Breyn Greer

Breeyn Greer, PE Project Engineer bgreer@aspectconsulting.com

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Attachments:

Table 1 – IA Soil Performance Sampling results received since December 8, 2022 Attachment A – IA Laboratory Reports received since December 8, 2022

cc: Ryan Megenity – Rainier Property Management Co. LLC Doug Steding – Northwest Resource Law PLLC Nate Blomgren – Chevron Environmental Management Company Jon-Erik Magnus – Rogers Joseph O'Donnell PLLC Robert Goodman – Rogers Joseph O'Donnell PLLC Eric Epple – Arcadis Ada Hamilton – Arcadis

V:\180357 Aloha Cafe\Deliverables\AO Progress Reports\2022_Q4\Texaco Strickland AO Progress Report No. 17_2023.01.03.docx

TABLE

Table 1. December 2022 IA Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

Location Date Sample Elevation (ft)			B-N14-W14 12/06/2022 N14-W14-439 439	PL-N07 12/08/2022 PL-N07-447 447	PL-N07 12/08/2022 PL-N07-442 442	SW-E12 12/07/2022 N15-W12-442 442	SW-E14 12/07/2022 N16-W14-442 442	SW-E15 12/07/2022 N15-W15-442 442
Analyte	Unit	Interim Action Soil						
ТРН	Unit							
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	1400	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	400 X	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	400 X	< 250 U	< 250 U	< 250 U
BTEX								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	12	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	65	< 0.1 U	< 0.1 U	< 0.1 U
PAHs								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	10	< 0.05 U	< 0.05 U	< 0.05 U

Notes:

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded screening level

U - Analyte not detected at or above Reporting Limit (RL) shown

X - Chromatographic pattern does not match fuel standard used for quantitation

TPH - Total Petroleum Hydrocarbons

BTEX - Benzene, toluene, ethylbenzene, and xylenes

PAHs - Polycyclic aromatic hydrocarbons

Table 1

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ATTACHMENT A

IA Laboratory Reports received since December 8, 2022

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 1, 2022

Andrew Yonkofski, Project Manager Aspect Consulting, LLC 710 2nd Ave S, Suite 550 Seattle, WA 98104

Dear Mr Yonkofski:

Included are the results from the testing of material submitted on November 17, 2022 from the Texaco Strickland 180357, F&BI 211255 project. There are 34 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Cale

Michael Erdahl Project Manager

Enclosures c: Aspect Data ASP1201R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on November 17, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 211255 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Aspect Consulting, LLC
211255 -01	CS-125-111622
211255 -02	CS-127-111622
211255 -03	CS-129-111622
211255 -04	CS-131-111622
211255 -05	IA-125-1-111622
211255 -06	IA-125-2-111622
211255 -07	IA-127-1-111622
211255 -08	IA-127-2-111622
211255 -09	IA-129-1-111622
211255 -10	IA-129-2-111622
211255 -11	IA-131-1-111622
211255 -12	IA-FD-111622
211255 -13	AMB-1-111622
211255 -14	AMB-2-111622

Individually certified canisters were provided for TO-15 sampling.

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-125-111622		Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Project:		Texaco Strickland 180357
Date Collected:	11/16/22		Lab II):	211255-01
Date Analyzed:	11/19/22		Data I	File:	111824.D
Matrix:	Air		Instru	ment:	GCMS7
Units:	ug/m3		Operat	tor:	bat
		%	Lower	Upper	
Surrogates:	R	ecovery:	Limit:	Limit:	
4-Bromofluorobenz	zene	87	70	130	
	Conce	ntration			
Compounds:		ug/m3			
APH EC5-8 alipha	tics	2,200			
APH EC9-12 aliph	atics	35			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-127-111622		Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Project:		Texaco Strickland 180357
Date Collected:	11/16/22		Lab ID:		211255-02
Date Analyzed:	11/19/22		Data Fi	le:	111823.D
Matrix:	Air		Instrum	ient:	GCMS7
Units:	ug/m3		Operato	or:	bat
		%	Lower	Upper	
Surrogates:	Re	covery:	Limit:	Limit:	
4-Bromofluorobenz	zene	85	70	130	
	Concen	tration			
Compounds:		ug/m3			
APH EC5-8 alipha	tics	750			
APH EC9-12 aliph	atics	<25			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-129-111622		Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Project:		Texaco Strickland 180357
Date Collected:	11/16/22		Lab ID:		211255-03
Date Analyzed:	11/19/22		Data Fi	le:	111822.D
Matrix:	Air		Instrun	nent:	GCMS7
Units:	ug/m3		Operate	or:	bat
		%	Lower	Upper	
Surrogates:	R	ecovery:	Limit:	Limit:	
4-Bromofluorobenz	zene	87	70	130	
	Conce	ntration			
Compounds:		ug/m3			
APH EC5-8 alipha	tics	1,500			
APH EC9-12 aliph	atics	<25			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-131-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	eived: 11/17/22		ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	ID:	211255-04
Date Analyzed:	11/19/22	Data	File:	111821.D
Matrix:	Air	Instr	rument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene 87	70	130	
	Concentration			
Compounds:	ug/m3			
APH EC5-8 aliphatics 360				
APH EC9-12 aliphatics 37				
APH EC9-10 arom	atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-125-1-111622	Clie	ent:	Aspect Consulting, LLC
Date Received:	11/17/22	\mathbf{Pro}	oject:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	o ID:	211255-05
Date Analyzed:	11/19/22	Dat	ta File:	111820.D
Matrix:	Air	Ins	trument:	GCMS7
Units:	ug/m3	Ope	erator:	bat
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene 87	70	130	
	Concentration			
Compounds:	ug/m3			
APH EC5-8 alipha	tics 77			
APH EC9-12 aliphatics 140				
APH EC9-10 arom	atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-125-2-111622		Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Projec	et:	Texaco Strickland 180357
Date Collected:	11/16/22		Lab II	D:	211255-06
Date Analyzed:	11/19/22		Data 1	File:	111819.D
Matrix:	Air		Instru	iment:	GCMS7
Units:	ug/m3		Opera	tor:	bat
		%	Lower	Upper	
Surrogates:	R	ecovery:	Limit:	Limit:	
4-Bromofluorobenz	zene	86	70	130	
	Conce	ntration			
Compounds:		ug/m3			
APH EC5-8 alipha	tics	85			
APH EC9-12 aliph	atics	130			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Collected: Date Analyzed: Matrix:	IA-127-1-111622 11/17/22 11/16/22 11/19/22 Air	Client: Project: Lab ID: Data File: Instrument:		Aspect Consulting, LLC Texaco Strickland 180357 211255-07 111818.D GCMS7
Units:	ug/m3	Operat	or:	bat
Surrogates: 4-Bromofluorobenz	Recovery: zene 86	Lower Limit: 70	Upper Limit: 130	
Compounds:	Concentration ug/m3			
APH EC5-8 alipha APH EC9-12 aliph APH EC9-10 arom	tics <75 atics 38 atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-127-2-111622	Clie	ent:	Aspect Consulting, LLC
Date Received:	11/17/22	Pro	ject:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	DID:	211255-08
Date Analyzed:	11/19/22	Dat	a File:	111817.D
Matrix:	Air	Inst	trument:	GCMS7
Units:	ug/m3	Ope	erator:	bat
		_		
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene 84	70	130	
	Concentration			
0 1	Concentration			
Compounds:	ug/m3			
APH EC5-8 alipha	tics <75			
APH EC9-12 aliph	atics 41			
APH EC9-10 arom	atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received:	IA-129-1-111622 11/17/22	Client: Project:		Aspect Consulting, LLC Texaco Strickland 180357
Date Collected:	11/16/22	Lab ID):	211255-09
Date Analyzed:	11/19/22	Data F	'ile:	111816.D
Matrix:	Air	Instru	ment:	GCMS7
Units:	ug/m3	Operat	or:	bat
Surrogates: 4-Bromofluorobenz	% Recovery: zene 89	Lower Limit: 70	Upper Limit: 130	
Compounds:	Concentration ug/m3			
APH EC5-8 alipha APH EC9-12 aliph APH EC9-10 arom	tics 94 atics 62 atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-129-2-111622	Clie	ent:	Aspect Consulting, LLC
Date Received:	11/17/22	Proj	ject:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	ID:	211255-10
Date Analyzed:	11/19/22	Dat	a File:	111815.D
Matrix:	Air	Inst	rument:	GCMS7
Units:	ug/m3	Ope	erator:	bat
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene 87	70	130	
	Concentration			
Compounds:	ug/m3			
APH EC5-8 alipha	tics 76			
APH EC9-12 aliph	atics 26			
APH EC9-10 arom	atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-131	-1-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/2	22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/2	22	Lab	ID:	211255-11
Date Analyzed:	11/19/2	22	Data	File:	111814.D
Matrix:	Air		Insti	rument:	GCMS7
Units:	ug/m3		Oper	rator:	bat
		0 /	т	TT	
a .		%	Lower	Upper	
Surrogates:		Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene	86	70	130	
	a				
	Conc	entration			
Compounds:		ug/m3			
ADU ECE Qalimba	1 :	100			
APH EC5-8 alipna	tics	100			
APH EC9-12 aliph	atics	54			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-FD-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-12
Date Analyzed:	11/18/22	Data	File:	111813.D
Matrix:	Air	Instru	ument:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	0/2	Lowor	Unnor	
Summoratory	Zocovowu:	Lower	Limit	
Surrogates.	necovery.			
4-Bromofluorobenz	zene 88	70	130	
	Concentration			
Compounds:	ug/m3			
APH EC5-8 alipha	tics 93			
APH EC9-12 aliph	atics 47			
APH EC9-10 arom	atics <25			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	AMB-1-111	1622	Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Project:		Texaco Strickland 180357
Date Collected:	11/16/22		Lab ID:		211255-13
Date Analyzed:	11/18/22		Data Fil	e:	111812.D
Matrix:	Air		Instrum	ent:	GCMS7
Units:	ug/m3		Operato	r:	bat
		%	Lower	Upper	
Surrogates:	Reco	overy:	Limit:	Limit:	
4-Bromofluorobenz	zene	84	70	130	
	Concenti	ration			
Compounds:	ι	ıg/m3			
APH EC5-8 alipha	tics	$<\!75$			
APH EC9-12 aliph	atics	<25			
APH EC9-10 arom	atics	$<\!\!25$			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	AMB-2-111	1622	Client:		Aspect Consulting, LLC
Date Received:	11/17/22		Project:		Texaco Strickland 180357
Date Collected:	11/16/22		Lab ID:		211255-14
Date Analyzed:	11/18/22		Data Fil	e:	111811.D
Matrix:	Air		Instrum	ent:	GCMS7
Units:	ug/m3		Operator	r:	bat
		%	Lower	Upper	
Surrogates:	Reco	overy:	Limit:	Limit:	
4-Bromofluorobenz	zene	83	70	130	
	Concenti	ration			
Compounds:	ι	ıg/m3			
APH EC5-8 alipha	tics	<75			
APH EC9-12 aliph	atics	<25			
APH EC9-10 arom	atics	<25			

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client	t:	Aspect Consulting, LLC
Date Received:	Not Applicable	Projec	et:	Texaco Strickland 180357
Date Collected:	Not Applicable	Lab I	D:	02-2771 MB
Date Analyzed:	11/18/22	Data	File:	111810.D
Matrix:	Air	Instru	ament:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	zene 83	70	130	
	Concentration			
Compounds:	ug/m3			
APH EC5-8 alipha	tics <75			
APH EC9-12 aliph	atics <25			

APH EC9-10 aromatics <25

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-125-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-01
Date Analyzed:	11/19/22	Data	File:	111824.D
Matrix:	Air	Instru	ument:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	0/0	Lower	Unner	
Surrogates	Recovery:	Limit:	Limit	
4-Bromofluorobenz	ene 95	70	130	
4-Diomondoi obenz	00	10	100	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Bonzono	0.76	0.24		
Teluene	0.70	0.24		
Fthulhongono	<19 0.00	<0 0.91		
Ethylbenzene	0.90	0.21		
m,p-Aylene	3.0	0.81		
o-Xylene	1.2	0.27		
Naphthalene	0.079 j	0.015 j		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-127-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-02
Date Analyzed:	11/19/22	Data	File:	111823.D
Matrix:	Air	Instru	ument:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	0⁄0	Lower	Unner	
Surrogatos	Rocovory:	Limit	Limit	
4 Bromofluorohonz	necovery.	20 20	120	
4-DIOIIIOIIU010DellZ	ene 55	10	150	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Benzene	0.63	0.20		
Toluene	<19	<5		
Ethylbenzene	0.55	0.13		
m n-Xylene	9.1	0.19		
o.Xvlene	0.73	0.40 0.17		
Nanhthalana	0.13	0.17		
napinnalene	0.42	0.00		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-129-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-03
Date Analyzed:	11/19/22	Data	File:	111822.D
Matrix:	Air	Instru	ument:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	0⁄0	Lower	Unner	
Surrogates.	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 95	70	130	
1 Diomondoi obomz		•••	100	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Bonzono	0.71	0.22		
Teluene	0.71	0.22		
Ethellowgowa	<19 0.00	-0		
Ethylbenzene	0.60	0.14		
m,p-Xylene	2.3	0.53		
o-Xylene	0.80	0.18		
Naphthalene	0.047 j	0.009 j		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	CS-131-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-04
Date Analyzed:	11/19/22	Data	File:	111821.D
Matrix:	Air	Instru	ument:	GCMS7
Units:	ug/m3	Opera	ator:	bat
	0/0	Lower	Unner	
Surrogates.	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 95	70	130	
1 Diomondoioson2	00		100	
	Concer	ntration		
Compounds:	ug/m3	ppbv		
Benzene	0.62	0.19		
Toluene	<19	<5		
Ethylhenzene	0.59	0.14		
m n Yylono	0.05	0.14 0.54		
o-Xylono	2.4 0.81	0.04		
0-Aylene	0.81	0.19		
Naphthalene	< 0.047 j <	0.0089 j		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-125-1-111622	Clier	it:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab 1	D:	211255-05
Date Analyzed:	11/19/22	Data	File:	111820.D
Matrix:	Air	Instr	ument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	0⁄2	Lower	Unner	
Surrogatos	Pocovory:	Limit	Limit	
A Dromofly or horr	necovery.	ZIIIII.	120	
4-bromonuorobenzo	ene 95	70	150	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Dongono	0.69	0.10		
Denzene	0.62	0.19		
Toluene	<19	<5		
Ethylbenzene	0.50	0.12		
m,p-Xylene	1.5	0.34		
o-Xylene	0.61	0.14		
Naphthalene	0.12	0.022		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-125-2-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-06
Date Analyzed:	11/19/22	Data	File:	111819.D
Matrix:	Air	Instr	ument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	0/	т	тт	
a .	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 94	70	130	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Bonzono	0.61	0.10		
Toluono	0.01 ~10	0.15		
Toluelle	<19	~ 0		
Ethylbenzene	0.48	0.11		
m,p-Xylene	1.4	0.33		
o-Xylene	0.56	0.13		
Naphthalene	0.14	0.026		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-127-1-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab 1	ID:	211255-07
Date Analyzed:	11/19/22	Data	File:	111818.D
Matrix:	Air	Instr	ument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	0/	Louron	Uranan	
a ,	70 D	Lower	Opper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 94	70	130	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Benzene	0.47	0.15		
Toluene	<19	<5		
	<15	-0.1		
Ethylbenzene	<0.43	<0.1		
m,p-Xylene	1.1	0.24		
o-Xylene	0.46	0.10		
Naphthalene	0.079	0.015 j		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-127-2-111622	Clie	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proj	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	ID:	211255-08
Date Analyzed:	11/19/22	Data File:		111817.D
Matrix:	Air	Instrument:		GCMS7
Units:	ug/m3	Operator:		bat
	0⁄~	Lowor	Unnor	
Surrogatog	Pogowowu:	Limit	Limit	
Surrogates.	necovery.	Limit.	100	
4-Bromolluorobenzo	ene 91	70	130	
	Conce			
Compounds:	ug/m3	ppbv		
D	0.40	0.1.4		
Benzene	0.46	0.14		
Toluene	<19	<5		
Ethylbenzene	< 0.43	< 0.1		
m,p-Xylene	0.97	0.22		
o-Xylene	< 0.43	< 0.1		
Naphthalene	0.079	0.015 j		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-129-1-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	ID:	211255-09
Date Analyzed:	11/19/22	Data File:		111816.D
Matrix:	Air	Instrument:		GCMS7
Units:	ug/m3	Operator:		bat
	0/	Louron	Uranan	
a ,	% D	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 97	70	130	
	Conce			
Compounds:	ug/m3	ppbv		
Benzene	0.51	0.16		
Toluene	<19	<5		
Ethylhomzono	<0.42	<0.1		
Ethylbenzene	<0.45	<0.1		
m,p-Xylene	1.0	0.23		
o-Xylene	< 0.43	< 0.1		
Naphthalene	0.23	0.044		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-129-2-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab 1	ID:	211255-10
Date Analyzed:	11/19/22	Data File:		111815.D
Matrix:	Air	Instrument:		GCMS7
Units:	ug/m3	Oper	ator:	bat
	0/	Louron	Unnor	
Cumpanataa	70 Decement	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenz	ene 95	70	130	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Bonzono	0.53	0.17		
	0.55 <10	0.17		
Toluene	<19	<0		
Ethylbenzene	< 0.43	< 0.1		
m,p-Xylene	0.89	0.20		
o-Xylene	< 0.43	< 0.1		
Naphthalene	0.13	0.025		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-131-1-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab ID:		211255-11
Date Analyzed:	11/19/22	Data File:		111814.D
Matrix:	Air	Instrument:		GCMS7
Units:	ug/m3	Operator:		bat
	0 (
-	%	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenze	ene 94	70	130	
	Conce			
Compounds:	ug/m3	ppbv		
Benzene	0.87	0.27		
Toluene	<19	<5		
Ethylbenzene	0.46	0.10		
m n Yulono	0.40	0.10		
o Vulono	1.4	0.00		
	0.01	0.12		
Naphthalene	0.24	0.046		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	IA-FD-111622	Clien	t:	Aspect Consulting, LLC
Date Received:	11/17/22	Project:		Texaco Strickland 180357
Date Collected:	ted: 11/16/22		D:	211255-12
Date Analyzed:	11/18/22	Data File:		111813.D
Matrix:	Air	Instrument:		GCMS7
Units:	ug/m3	Operator:		bat
	0/	Lower	Unner	
Sumorator	Bogovowy	Limit	Limit	
4 Dromofly or a	necovery.	20 Linit.	120	
4-Dromonuorobenz	ene 90	70	130	
	Concer			
Compounds:	ug/m3	ppbv		
Benzene	0.88	0.28		
Toluene	<19	<5		
Ethylbenzene	0.46	0.11		
m,p-Xylene	1.4	0.32		
o-Xylene	0.51	0.12		
Naphthalene	0.26	0.050		
ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-1-111622	Clier	nt:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ect:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab	ID:	211255-13
Date Analyzed:	11/18/22	Data	File:	111812.D
Matrix:	Air	Instr	rument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	0/	Louron	Unnor	
C	70 D	Lower	Upper	
Surrogates:	Recovery:	Limit:	Limit:	
4-Bromofluorobenzo	ene 91	70	130	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Bonzono	0.7	0.99		
Taluana	-10	0.22		
Toluene	<19	<0		
Ethylbenzene	< 0.43	< 0.1		
m,p-Xylene	1.1	0.24		
o-Xylene	< 0.43	< 0.1		
Naphthalene	0.057 j	0.011 j		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-2-111622	Clien	it:	Aspect Consulting, LLC
Date Received:	11/17/22	Proje	ct:	Texaco Strickland 180357
Date Collected:	11/16/22	Lab I	D:	211255-14
Date Analyzed:	11/18/22	Data	File:	111811.D
Matrix:	Air	Instr	ument:	GCMS7
Units:	ug/m3	Oper	ator:	bat
	0/	Lower	Unner	
Sumorator	Pocovow:	Limit	Limit	
4 Promofly or ohong	ano 01	20 20	190	
4-Dromonuorobenz	ene 91	70	130	
	Conce	ntration		
Compounds:	ug/m3	ppbv		
Benzene	0.69	0.21		
Toluene	<19	<5		
Fthulhongono	<0.49	<01		
Ethylbenzene V 1	NO.45	<0.1		
m,p-Aylene	1.1	0.24		
o-Xylene	< 0.43	<0.1		
Naphthalene	<0.047 j <	:0.0089 j		

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

цС
0357

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/22 Date Received: 11/17/22 Project: Texaco Strickland 180357, F&BI 211255

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD MA-APH

Laboratory Code: 211168-01 1/7.1 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 30)
APH EC5-8 aliphatics	ug/m3	1,300	1,400	7
APH EC9-12 aliphatics	ug/m3	370	370	0
APH EC9-10 aromatics	ug/m3	<180	<180	nm

Laboratory Code: Laboratory Control Sample

Lasoratory coact Lasoratory	compro sampro				
			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
APH EC5-8 aliphatics	ug/m3	67	92	70-130	
APH EC9-12 aliphatics	ug/m3	67	115	70-130	
APH EC9-10 aromatics	ug/m3	67	111	70-130	

ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/22 Date Received: 11/17/22 Project: Texaco Strickland 180357, F&BI 211255

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 211168-01 1/7.1 (Duplicate)

	Reporting	Sample	Duplicate	RPD
Analyte	Units	Result	Result	(Limit 30)
Benzene	ug/m3	<2.3	<2.3	nm
Toluene	ug/m3	<130	<130	nm
Ethylbenzene	ug/m3	8.1	8.1	0
m,p-Xylene	ug/m3	28	28	0
o-Xylene	ug/m3	9.6	9.7	1
Naphthalene	ug/m3	<1.9	<1.9	nm

Laboratory Code: Laboratory Control Sample

	I I I I I		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	ug/m3	43	91	70-130
Toluene	ug/m3	51	92	70-130
Ethylbenzene	ug/m3	59	90	70 - 130
m,p-Xylene	ug/m3	120	90	70 - 130
o-Xylene	ug/m3	59	92	70 - 130
Naphthalene	ug/m3	71	70	70-130

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

FORMS\COC\COCTO-15.DOC	Fax (206) 283-5044 Rec	Ph. (206) 285-8282 Rel	Seattle, WA 98108 Rec	5500 4 th Avenue South Rel	Friedman & D	+17 10 + · X - 1116 XX C	7 2 2 3 11-1 - + NI- 4T	DECAIL-Y-CVI-HT	TA 17 -1-111622 (TN IN IN 1116 22 (C - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2	CC-12-11102	CC 102 11844 (Sample Name			SAMPLE INFORMATION	Phone E	City, State ZIP	Address	Company A	211255
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 9, 2022

Daniel Babcock, Project Manager Aspect Consulting, LLC 710 2nd Ave S, Suite 550 Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on December 7, 2022 from the Texaco Strickland 180357, F&BI 212097 project. There are 12 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Aspect Data, Breeyn Greer ASP1209R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 7, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212097 project. Samples were logged in under the laboratory ID's listed below.

Aspect Consulting, LLC
N14-W13-450
N14-W14-439
N15-W14-447
N15-W13-442
N15-W14-440
N13-W12-442
N16-W14-442
N15-W15-442
N15-W12-442

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/22 Date Received: 12/07/22 Project: Texaco Strickland 180357, F&BI 212097 Date Extracted: 12/08/22 Date Analyzed: 12/08/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 58-139)
N14-W14-439 212097-02	<5	97
N16-W14-442 212097-07	<5	92
N15-W15-442 212097-08	<5	94
N15-W12-442 ²¹²⁰⁹⁷⁻⁰⁹	<5	96
Method Blank 02-2837 MB	<5	96

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/22 Date Received: 12/07/22 Project: Texaco Strickland 180357, F&BI 212097 Date Extracted: 12/08/22 Date Analyzed: 12/08/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
N14-W14-439 212097-02	<50	<250	88
N16-W14-442 212097-07	<50	<250	85
N15-W15-442 212097-08	<50	<250	87
N15-W12-442 212097-09	<50	<250	90
Method Blank 02-2910 MB	<50	<250	87

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	N14-W14-439 12/07/22 12/08/22 12/08/22 Soil mg/kg (ppm) I	Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212097 212097-02 120806.D GCMS4 lm
			Lower	Upper
Surrogates:	Q	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	95	90	109
Toluene-d8		103	89	112
4-Bromofluorobenze	ene	101	84	115
	С	oncentration		
Compounds:	r	ng/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted:	N16-W14-44 12/07/22 12/08/22	2	Client: Project: Lab ID:	Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212097 212097-07
Date Analyzed:	12/08/22		Data File:	120807.D
Matrix:	Soil		Instrument:	GCMS4
Units:	mg/kg (ppm)	Dry Weight	Operator:	lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	92	90	109
Toluene-d8		103	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	N15-W15-44	2	Client:	Aspect Consulting, LLC
Date Received:	12/07/22		Project:	Texaco Strickland 180357, F&BI 212097
Date Extracted:	12/08/22		Lab ID:	212097-08
Date Analyzed:	12/08/22		Data File:	120808.D
Matrix:	Soil		Instrument:	GCMS4
Units:	mg/kg (ppm)	Dry Weight	Operator:	lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	97	90	109
Toluene-d8		101	89	112
4-Bromofluorobenze	ene	98	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	N15-W12-442 12/07/22 12/08/22 12/08/22 Soil mg/kg (ppm)	2 Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212097 212097-09 120809.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	100	90	109
Toluene-d8		104	89	112
4-Bromofluorobenze	ene	101	84	115
	(Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	Method Blank		Client:	Aspect Consulting, LLC
Date Received:	Not Applicable		Project:	Texaco Strickland 180357, F&BI 212097
Date Extracted:	12/08/22		Lab ID:	02-2857 mb
Date Analyzed:	12/08/22		Data File:	120805.D
Matrix:	Soil		Instrument:	GCMS4
Units:	mg/kg (ppm) Dr	ry Weight	Operator:	lm
			Lower	Upper
Surrogates:	%	Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	93	90	109
Toluene-d8		98	89	112
4-Bromofluorobenze	ene	100	84	115
	Co	ncentration		
Compounds:	m	g/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/22 Date Received: 12/07/22 Project: Texaco Strickland 180357, F&BI 212097

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 21	2073-01 (Duplic	eate)			
		Samp	ole Du	plicate	
	Reporting	Resu	lt F	lesult	RPD
Analyte	Units	(Wet V	Wt) (W	/et Wt)	(Limit 20)
Gasoline	mg/kg (ppm)	<5		<5	nm
Laboratory Code: La	aboratory Contro	ol Sample	e		
			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	mg/kg (ppm)	$\overline{20}$	90	61-153	

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/22 Date Received: 12/07/22 Project: Texaco Strickland 180357, F&BI 212097

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	212097-02 (Matri	x Spike)		D /			
Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	<50	90	90	70-130	0
Laboratory Code:	Laboratory Contro	ol Sampl	e Percent				
	Reporting	Spike	Recovery	7 Accepta	ance		
Analyte	Units	Level	LCS	Crite	ria		
Diesel Extended	mg/kg (ppm)	2,000	84	70-13	30		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/22 Date Received: 12/07/22 Project: Texaco Strickland 180357, F&BI 212097

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 212097-02 (Matrix Spike)

Basoratory coat. =1=001 0	(internet copinio)						
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	1	< 0.03	73	78	29-129	7
Toluene	mg/kg (ppm)	1	< 0.05	73	82	35 - 130	12
Ethylbenzene	mg/kg (ppm)	1	< 0.05	75	84	32 - 137	11
m,p-Xylene	mg/kg (ppm)	2	< 0.1	74	82	34 - 136	10
o-Xylene	mg/kg (ppm)	1	< 0.05	74	83	33 - 134	11
Naphthalene	mg/kg (ppm)	1	< 0.05	75	83	14 - 157	10

Laboratory Code: Laboratory Control Sample

	J J J J J J J J J J J J J J J J J J J		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	1	78	71-118
Toluene	mg/kg (ppm)	1	79	66-126
Ethylbenzene	mg/kg (ppm)	1	77	64-123
m,p-Xylene	mg/kg (ppm)	2	78	78 - 122
o-Xylene	mg/kg (ppm)	1	77	77 - 124
Naphthalene	mg/kg (ppm)	1	76	63-140

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

	Rece	Relir	Pn. (206) 280-8282 Rece	Friedman & Bruya, Inc. Relir			N15 - W12 - 442	NF - WI5 - 442	N16 - WH - 4412	NB - W12 - 442	N15-W14-4410	N15 - W13 - 442	N15 - W14 - 447	NIA - WIA - 439	N19 - W13 - 450	Sample ID		Phone (36)617-WIEmaild	City, State, ZIP Secilie, (Address 710 2nd AUZ S	Company ASPect Consu	Report To Vaniel Balacock	L 6) 8 5 .
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File
          :D:\GC13\GC13_Data\12-08-22\120808.D
Operator
          : TL
Acquired : 08 Dec 2022 09:17 am using AcqMethod Dx.M
              GC13
Instrument :
Sample Name: 212097-02
Misc Info :
Vial Number: 10
```

Response_



```
File :D:\GC13\GC13_Data\12-08-22\120809.D
Operator : TL
Acquired : 08 Dec 2022 09:29 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 212097-07
Misc Info :
Vial Number: 11
```

Response_



```
File :D:\GC13\GC13_Data\12-08-22\120810.D
Operator : TL
Acquired : 08 Dec 2022 09:41 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 212097-08
Misc Info :
Vial Number: 12
```

Response_



File :D:\GC13\GC13_Data\12-08-22\120811.D
Operator : TL
Acquired : 08 Dec 2022 09:52 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 212097-09
Misc Info :
Vial Number: 13

ERR



Time

File :D:\GC13\GC13_Data\12-08-22\120804.D
Operator : TL
Acquired : 08 Dec 2022 08:30 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 02-2910 mb
Misc Info :
Vial Number: 6



File :D:\GC13\GC13_Data\12-08-22\120803.D
Operator : TL
Acquired : 08 Dec 2022 06:50 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 66-186H
Misc Info :
Vial Number: 3

ERR



Time

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 16, 2022

Daniel Babcock, Project Manager Aspect Consulting, LLC 710 2nd Ave S, Suite 550 Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on December 8, 2022 from the Texaco Strickland 180357, F&BI 212149 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Aspect Data, Breeyn Greer ASP1216R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 8, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212149 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Aspect Consulting, LLC
212149 -01	PL-N07-447
212149 -02	PL-N07-442

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22 Date Received: 12/08/22 Project: Texaco Strickland 180357, F&BI 212149 Date Extracted: 12/13/22 Date Analyzed: 12/13/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 58-139)
PL-N07-447 212149-01	<5	95
PL-N07-442 212149-02 1/20	1,400	125
Method Blank 02-2925 MB	<5	93

ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22 Date Received: 12/08/22 Project: Texaco Strickland 180357, F&BI 212149 Date Extracted: 12/09/22 Date Analyzed: 12/09/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
PL-N07-447 212149-01	<50	<250	84
PL-N07-442 212149-02	400 x	<250	89
Method Blank 02-2919 MB2	<50	<250	90

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	PL-N07-447 12/08/22 12/09/22 12/09/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212149-01 120911.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	97	90	109
Toluene-d8		103	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	PL-N07-442 12/08/22 12/09/22 12/09/22 Soil mg/kg (ppm)	Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212149-02 120912.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	·d4	90	90	109
Toluene-d8		110	89	112
4-Bromofluorobenze	ene	109	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		12		
m,p-Xylene		52 ve		
o-Xylene		12		
Naphthalene		10		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	PL-N07-442 12/08/22 12/09/22 12/09/22 Soil mg/kg (ppm)	Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212149-02 1/10 120916.D GCMS4 lm
Onito.	mg/kg (ppm)	Diy Weight	Operator.	1111
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	93	90	109
Toluene-d8		107	89	112
4-Bromofluorobenz	ene	110	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
m,p-Xylene		53		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blar Not Applical 12/09/22 12/09/22 Soil mg/kg (ppm)	nk ole 9 Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 02-2863 mb 120910.D GCMS4 lm
	0 0 11 /		Lowon	Unnor
Surrogatos		% Rocovoru:	Lower	Limit:
1 9 Dichleroothono	44	70 Recovery.		100
1,2-Dichloroethane-	-04	97	90	109
Toluene-d8		99	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		
ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22 Date Received: 12/08/22 Project: Texaco Strickland 180357, F&BI 212149

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 21	2149-01 (Duplic	ate)			
		Samp	ole Du	plicate	
	Reporting	Resu	lt F	lesult	RPD
Analyte	Units	(Wet V	Wt) (W	/et Wt)	(Limit 20)
Gasoline	mg/kg (ppm)	<5		<5	nm
Laboratory Code: La	aboratory Contro	ol Sample	e		
			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	mg/kg (ppm)	$\overline{20}$	95	61-153	—

ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22 Date Received: 12/08/22 Project: Texaco Strickland 180357, F&BI 212149

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	212145-03 (Matrix	x Spike)					
	Reporting	Spike	(Wet wt) Sample	Percent Recovery	Percent Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	290	102	96	70-130	6
Laboratory Code:	Laboratory Contro	ol Sampl	e Percent				
	Reporting	Spike	Recovery	Accept	ance		
Analyte	Units	Level	LCS	Crite	ria		
Diesel Extended	mg/kg (ppm)	2,000	98	70-1	30		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/16/22 Date Received: 12/08/22 Project: Texaco Strickland 180357, F&BI 212149

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 212149-01 (Matrix Spike)

	· · · · ·						
			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	1	< 0.03	97	102	29 - 129	5
Toluene	mg/kg (ppm)	1	< 0.05	97	105	35 - 130	8
Ethylbenzene	mg/kg (ppm)	1	< 0.05	99	106	32 - 137	7
m,p-Xylene	mg/kg (ppm)	2	< 0.1	100	107	34 - 136	7
o-Xylene	mg/kg (ppm)	1	< 0.05	99	105	33 - 134	6
Naphthalene	mg/kg (ppm)	1	< 0.05	104	108	14 - 157	4

Laboratory Code: Laboratory Control Sample

	J I I I I I I I I I I I I		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	1	111	71-118
Toluene	mg/kg (ppm)	1	111	66 - 126
Ethylbenzene	mg/kg (ppm)	1	113	64-123
m,p-Xylene	mg/kg (ppm)	2	113	78 - 122
o-Xylene	mg/kg (ppm)	1	111	77 - 124
Naphthalene	mg/kg (ppm)	1	108	63-140

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

$ \begin{array}{c ccccc} rescher & Orescher \\ rescher \\ r$	R	R	Friedman & Bruya, Inc. R Ph. (206) 285-8282								PL - 407 - 442	PL- 407 - 447	Sample ID		Phone (SIG) 617 UKR Emai	City, State, ZIP Southe	Address HO 2nd Ave	Company Aspect Ccr	Report To Davie Dobcc	212149
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PROJECT NAME PO # PO # Standard turnaround Project specific RLs? Ves / No 180 3 5 7 Rush charges authorized by: Project specific RLs? Ves / No Aspect G.isvu#g Invoice samples Time Sampled Type Jars Aspect G.isvu#g Default: Dispose after 30 da Time Sampled Type Jars N MWTPH-H.GX Other 1300 Geil 5 X N NWTPH-H.GX Network and turnaround 1300 Geil 5 X N NWTPH-H.GX Anal./SES REQUESTED Other 1300 Geil 5 X N NWTPH-H.GX Notes Anal./SES REQUESTED Anal./SES REQUESTED Anal./SES REQUESTED 1300 Geil 5 X N NWTPH-H.GX Anal./SES REQUESTED Notes Stanal./SES NEQUESTED Stan./SES NEQUESTED		Well	Jones	GNATURE							12/08/2022	12/08/2022	Date Sampled		a) aspectar	<u>h</u>			in Greer	
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TIME		12/08/22	2/08/202	DATE							het an aless	Hott on chi	• andy		spose after	mples	s authorized	urnaround	ROUND TI	5-01
		15:53	1533	TIME							trenge hy	at comp	es 122 × E		30 days				IME	-

File :D:\GC13\GC13_Data\12-09-22\120941.D
Operator : TL
Acquired : 09 Dec 2022 05:50 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 212149-01
Misc Info :
Vial Number: 37

ERR



File :D:\GC13\GC13_Data\12-09-22\120942.D
Operator : TL
Acquired : 09 Dec 2022 06:02 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 212149-02
Misc Info :
Vial Number: 38

ERR



File :D:\GC13\GC13_Data\12-09-22\120935.D
Operator : TL
Acquired : 09 Dec 2022 04:39 pm using AcqMethod Dx.M
Instrument : GC13
Sample Name: 02-2919 mb2
Misc Info :
Vial Number: 31

ERR

Response_ Signal: 120935.D\FID1B.ch 1.45e+07 1.4e+07 1.35e+07 1.3e+07 1.25e+07 1.2e+07 1.15e+07 1.1e+07 1.05e+07 1e+07 9500000 9000000 8500000 8000000 7500000 7000000 6500000 6000000 5500000 5000000 4500000 4000000 3500000 3000000 2500000 2000000 1500000 1000000 500000 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00

File :D:\GC13\GC13_Data\12-09-22\120903.D
Operator : TL
Acquired : 09 Dec 2022 06:40 am using AcqMethod Dx.M
Instrument : GC13
Sample Name: 500 Dx 66-186H
Misc Info :
Vial Number: 3

ERR



ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

December 20, 2022

Daniel Babcock, Project Manager Aspect Consulting, LLC 710 2nd Ave S, Suite 550 Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on December 12, 2022 from the Texaco Strickland 180357, F&BI 212189 project. There are 17 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Aspect Data, Breeyn Greer ASP1220R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on December 12, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 212189 project. Samples were logged in under the laboratory ID's listed below.

Aspect Consulting, LLC
SW-W01-449
SW-W03-449
SW-W06-449
SW-W09-449
SW-W11-449
SW-W14-449
SW-W16-449
SW-S08-448
SW-S10-448

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22 Date Received: 12/12/22 Project: Texaco Strickland 180357, F&BI 212189 Date Extracted: 12/15/22 Date Analyzed: 12/15/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 58-139)
SW-W01-449 212189-01	<5	93
SW-W03-449 212189-02	<5	98
SW-W06-449 212189-03	<5	99
SW-W09-449 212189-04	<5	95
SW-W11-449 212189-05	<5	96
SW-W14-449 212189-06	<5	82
SW-W16-449 212189-07	<5	99
SW-S08-448 212189-08	<5	97
SW-S10-448 212189-09	<5	100
Method Blank 02-2929 MB	<5	98

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22 Date Received: 12/12/22 Project: Texaco Strickland 180357, F&BI 212189 Date Extracted: 12/13/22 Date Analyzed: 12/13/22

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported on a Dry Weight Basis Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
SW-W01-449 212189-01	<50	<250	107
SW-W03-449 212189-02	<50	<250	105
SW-W06-449 212189-03	<50	<250	108
SW-W09-449 212189-04	<50	<250	118
SW-W11-449 212189-05	<50	<250	115
SW-W14-449 212189-06	<50	<250	110
SW-W16-449 212189-07	<50	<250	111
SW-S08-448 212189-08	<50	<250	109
SW-S10-448 212189-09	<50	<250	110
Method Blank 02-2944 MB2	<50	<250	111

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W01-444 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)	9) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-01 121310.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	90	90	109
Toluene-d8		103	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W03-444 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-02 121311.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	95	90	109
Toluene-d8		101	89	112
4-Bromofluorobenze	ene	99	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W06-449 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-03 121312.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	95	90	109
Toluene-d8		102	89	112
4-Bromofluorobenze	ene	97	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W09-449 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-04 121313.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	·d4	92	90	109
Toluene-d8		102	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W11-44 12/12/22 12/13/22 12/14/22 Soil mg/kg (ppm)	9) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-05 121412.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	·d4	92	90	109
Toluene-d8		104	89	112
4-Bromofluorobenze	ene	102	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W14-449 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-06 121315.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	·d4	97	90	109
Toluene-d8		101	89	112
4-Bromofluorobenze	ene	102	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-W16-444 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)	9 9 Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-07 121316.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	90	90	109
Toluene-d8		102	89	112
4-Bromofluorobenze	ene	101	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-S08-448 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-08 121317.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	92	90	109
Toluene-d8		104	89	112
4-Bromofluorobenze	ene	103	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SW-S10-448 12/12/22 12/13/22 12/13/22 Soil mg/kg (ppm)) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 212189-09 121318.D GCMS4 lm
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	·d4	96	90	109
Toluene-d8		102	89	112
4-Bromofluorobenze	ene	100	84	115
		Concentration		
Compounds:		mg/kg (ppm)		
Benzene		< 0.03		
Toluene		< 0.05		
Ethylbenzene		< 0.05		
m,p-Xylene		< 0.1		
o-Xylene		< 0.05		
Naphthalene		< 0.05		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applica 12/13/22 12/13/22 Soil mg/kg (ppm)	nk ble) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Aspect Consulting, LLC Texaco Strickland 180357 02-2851 mb 121307.D GCMS4 lm				
	8 8 G F		Louron	Unnor				
a ,		0/ D	Lower	Upper				
Surrogates:	-	% Recovery:	Limit:	Limit:				
1,2-Dichloroethane	-d4	93	90	109				
Toluene-d8		103	89	112				
4-Bromofluorobenze	ene	103	84	115				
		Concentration						
Compounds:		mg/kg (ppm)						
Benzene		< 0.03						
Toluene		< 0.05						
Ethylbenzene		< 0.05						
m,p-Xylene		< 0.1						
o-Xylene		< 0.05						
Naphthalene		< 0.05						

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22 Date Received: 12/12/22 Project: Texaco Strickland 180357, F&BI 212189

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 2	12189-01 (Duplic	ate)				
		Samp	le Du	plicate		
	Reporting	Result		lesult	RPD	
Analyte	Units	(Wet V	Vt) (W	(et Wt)	(Limit 20)	
Gasoline	mg/kg (ppm)	<5		<5	nm	
Laboratory Code: I	aboratory Contro	ol Sample	e			
			Percent			
	Reporting	Spike	Recovery	Acceptance		
Analyte	Units	Level	LCS	Criteria	_	
Gasoline	mg/kg (ppm)	20	110	61-153		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22 Date Received: 12/12/22 Project: Texaco Strickland 180357, F&BI 212189

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	212166-01 (Matri	x Spike)					
			(Wet wt)	Percent	Percent		
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	2,000	140	109	99	70-130	10
Laboratory Code:	Laboratory Contr	ol Sampl	e				
			Percent				
	Reporting	Spike	Recovery	Accept	ance		
Analyte	Units	Level	LCS	Crite	ria		
Diesel Extended	mg/kg (ppm)	2,000	106	70-1	30		

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/22 Date Received: 12/12/22 Project: Texaco Strickland 180357, F&BI 212189

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 212189-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benzene	mg/kg (ppm)	1	< 0.03	78	86	29 - 129	10
Toluene	mg/kg (ppm)	1	< 0.05	78	87	35 - 130	11
Ethylbenzene	mg/kg (ppm)	1	< 0.05	80	89	32 - 137	11
m,p-Xylene	mg/kg (ppm)	2	< 0.1	81	89	34 - 136	9
o-Xylene	mg/kg (ppm)	1	< 0.05	80	89	33 - 134	11
Naphthalene	mg/kg (ppm)	1	< 0.05	77	84	14 - 157	9

Laboratory Code: Laboratory Control Sample

	, I		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Benzene	mg/kg (ppm)	1	109	71-118
Toluene	mg/kg (ppm)	1	110	66-126
Ethylbenzene	mg/kg (ppm)	1	109	64-123
m,p-Xylene	mg/kg (ppm)	2	110	78-122
o-Xylene	mg/kg (ppm)	1	105	77 - 124
Naphthalene	mg/kg (ppm)	1	108	63-140

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Re	Re	Ph. (206) 285-8282	Friedman & Bruya, Inc. Re			SM-210 - HHB	5 502 - 448	SW-WIG-449	10447 - HIM - W	5W-111-111-115	Siv- Wog-449	SM - JOM - MHJ	1944 - 5.0M - MS	SW- WOI - HAA	Sample ID		Phone 316 617.0449 Email	City, State, ZIP	Address	Company Aspect Consultie	Report To Kinkel Schick &	212189
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File :D:\GC10\GC10_Data\12-13-22\121305.D
Operator : TL
Acquired : 13 Dec 2022 08:28 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-01
Misc Info :
Vial Number: 7

Response_



File :D:\GC10\GC10_Data\12-13-22\121306.D Operator : TL Acquired : 13 Dec 2022 08:40 using AcqMethod DX.M Instrument : GC10 Sample Name: 212189-02 Misc Info : Vial Number: 8

Response_



File :D:\GC10\GC10_Data\12-13-22\121307.D
Operator : TL
Acquired : 13 Dec 2022 08:51 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-03
Misc Info :
Vial Number: 9



File :D:\GC10\GC10_Data\12-13-22\121308.D
Operator : TL
Acquired : 13 Dec 2022 09:03 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-04
Misc Info :
Vial Number: 10



File :D:\GC10\GC10_Data\12-13-22\121309.D
Operator : TL
Acquired : 13 Dec 2022 09:15 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-05
Misc Info :
Vial Number: 11



File :D:\GC10\GC10_Data\12-13-22\121318.D Operator : TL using AcqMethod DX.M Acquired : 13 Dec 2022 11:01 Instrument : GC10 Sample Name: 212189-06 Misc Info : Vial Number: 12

Response_



File :D:\GC10\GC10_Data\12-13-22\121319.D Operator : TL Acquired : 13 Dec 2022 11:12 using AcqMethod DX.M Instrument : GC10 Sample Name: 212189-07 Misc Info : Vial Number: 13



File :D:\GC10\GC10_Data\12-13-22\121320.D
Operator : TL
Acquired : 13 Dec 2022 11:24 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-08
Misc Info :
Vial Number: 14

Response_


File :D:\GC10\GC10_Data\12-13-22\121321.D
Operator : TL
Acquired : 13 Dec 2022 11:36 using AcqMethod DX.M
Instrument : GC10
Sample Name: 212189-09
Misc Info :
Vial Number: 15

Response_



Time

File :D:\GC10\GC10_Data\12-13-22\121304.D
Operator : TL
Acquired : 13 Dec 2022 08:16 using AcqMethod DX.M
Instrument : GC10
Sample Name: 02-2944 mb2
Misc Info :
Vial Number: 6

Response_



Time

File :D:\GC10\GC10_Data\12-13-22\121303.D
Operator : TL
Acquired : 13 Dec 2022 07:46 using AcqMethod DX.M
Instrument : GC10
Sample Name: 500 DX 67-143B
Misc Info :
Vial Number: 3

Response_ Signal: 121303.D\FID1B.ch 1.9e+07 View Mode: Integration 1.8e+07 1.7e+07 1.6e+07 1.5e+07 1.4e+07 1.3e+07 1.2e+07 1.1e+07 1e+07 9000000 8000000 7000000 6000000 5000000 4000000 3000000 2000000 1000000 6.50 5.50 6.00 7.00 4.50 5.00 4.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50

Time