

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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October 8, 2025

Audrey Hackett, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Hackett:

Included are the results from the testing of material submitted on September 17, 2025 from the Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303 project. There are 22 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Fiona Bellows
MFA1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 17, 2025 by Friedman & Bruya, Inc. from the Maul Foster Alongi Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Maul Foster Alongi</u>
509303 -01	T27-S-0-1
509303 -02	T27-S-1-3
509303 -03	T27-S-3-6.6
509303 -04	T27-S-8-10
509303 -05	T27-S-10-12.3
509303 -06	T73-S-0-1
509303 -07	T73-S-1-3
509303 -08	T73-S-3-5
509303 -09	T73-S-5-6.6
509303 -10	T73-S-6.6-9.3
509303 -11	T73-S-9.3-12
509303 -12	T70-S-0-1
509303 -13	T70-S-3-5.7
509303 -14	T70-S-5.7-9
509303 -15	T70-S-9-12

Samples T27-S-0-1, T73-S-0-1, and T70-S-0-1 were sent to Alliance Technical Group and to Onsite Environmental for herbicide and organophosphorus pesticide testing, respectively. The reports are enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: NA

Date Analyzed: 09/25/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
T27-S-0-1 509303-01	9
T27-S-1-3 509303-02	6
T27-S-3-6.6 509303-03	14
T27-S-8-10 509303-04	23
T27-S-10-12.3 509303-05	26
T73-S-0-1 509303-06	9
T73-S-1-3 509303-07	8
T73-S-3-5 509303-08	12
T73-S-5-6.6 509303-09	20
T73-S-6.6-9.3 509303-10	21
T73-S-9.3-12 509303-11	28

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: NA

Date Analyzed: 09/25/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u>	<u>% Moisture</u>
Laboratory ID	
T70-S-0-1 509303-12	10
T70-S-3-5.7 509303-13	17
T70-S-5.7-9 509303-14	24
T70-S-9-12 509303-15	25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: 09/26/25

Date Analyzed: 09/29/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
T27-S-0-1 509303-01	<5	109
T27-S-1-3 509303-02	<5	110
T27-S-3-6.6 509303-03	<5	111
T27-S-8-10 509303-04	<5	112
T27-S-10-12.3 509303-05	<5	113
T73-S-0-1 509303-06	<5	109
T73-S-1-3 509303-07	<5	107
T73-S-3-5 509303-08	<5	110
T73-S-5-6.6 509303-09	<5	107
T73-S-6.6-9.3 509303-10	<5	111
T73-S-9.3-12 509303-11	<5	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: 09/26/25

Date Analyzed: 09/29/25

**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 (% Recovery) (Limit 50-150)
T70-S-0-1 509303-12	<5	109
T70-S-3-5.7 509303-13	<5	111
T70-S-5.7-9 509303-14	<5	109
T70-S-9-12 509303-15	<5	110
Method Blank 05-2316 MB2	<5	113

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: 09/25/25

Date Analyzed: 09/26/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
T27-S-0-1 509303-01	<50	<200	125
T27-S-1-3 509303-02	<50	<200	124
T27-S-3-6.6 509303-03	<50	<200	128
T27-S-8-10 509303-04	<50	<200	123
T27-S-10-12.3 509303-05	<50	<200	124
T73-S-0-1 509303-06	<50	<200	126
T73-S-1-3 509303-07	<50	<200	125
T73-S-3-5 509303-08	<50	<200	124
T73-S-5-6.6 509303-09	<50	<200	125
T73-S-6.6-9.3 509303-10	<50	<200	123
T73-S-9.3-12 509303-11	<50	<200	126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

Date Extracted: 09/25/25

Date Analyzed: 09/26/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
T70-S-0-1 509303-12	<50	<200	125
T70-S-3-5.7 509303-13	<50	<200	125
T70-S-5.7-9 509303-14	<50	<200	125
T70-S-9-12 509303-15	<50	<200	123
Method Blank 05-2439 MB	<50	<200	127

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T27-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-01
Date Analyzed:	09/25/25	Data File:	509303-01.158
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	3.3
Barium	33
Cadmium	<1
Chromium	9.6
Lead	6.1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T73-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-06
Date Analyzed:	09/25/25	Data File:	509303-06.159
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	1.8
Barium	25
Cadmium	<1
Chromium	11
Lead	4.0
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T70-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-12
Date Analyzed:	09/25/25	Data File:	509303-12.160
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Arsenic	3.1
Barium	43
Cadmium	<1
Lead	5.3
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T70-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-12 x5
Date Analyzed:	09/27/25	Data File:	509303-12 x5.411
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	16
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	NA	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	I5-825 mb
Date Analyzed:	09/24/25	Data File:	I5-825 mb.114
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T27-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-01 1/30
Date Analyzed:	09/24/25	Data File:	092422.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	68	20	134
Decachlorobiphenyl	77	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T73-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-06 1/30
Date Analyzed:	09/24/25	Data File:	092423.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	72	20	134
Decachlorobiphenyl	80	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T70-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/17/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509303-12 1/30
Date Analyzed:	09/24/25	Data File:	092424.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	73	20	134
Decachlorobiphenyl	82	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	Not Applicable	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	05-2432 mb 1/30
Date Analyzed:	09/24/25	Data File:	092421.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	80	20	134
Decachlorobiphenyl	91	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

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

Laboratory Code: 509411-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	120	150	26 hr

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	112	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

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

Laboratory Code: 509303-01 (Matrix Spike)

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)	5,000	<50	120	112	64-136	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	116	78-121

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 509410-04 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	110	122	75-125	10
Barium	mg/kg (ppm)	50	32.0	107 b	124 b	75-125	15 b
Cadmium	mg/kg (ppm)	10	<5	102	110	75-125	8
Chromium	mg/kg (ppm)	50	14.1	100 b	107 b	75-125	7 b
Lead	mg/kg (ppm)	50	<5	99	107	75-125	8
Mercury	mg/kg (ppm)	5	<5	106	117	75-125	10
Selenium	mg/kg (ppm)	5	<5	102	106	75-125	4
Silver	mg/kg (ppm)	10	<5	101	109	75-125	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	113	80-120
Barium	mg/kg (ppm)	50	95	80-120
Cadmium	mg/kg (ppm)	10	97	80-120
Chromium	mg/kg (ppm)	50	104	80-120
Lead	mg/kg (ppm)	50	91	80-120
Mercury	mg/kg (ppm)	5	100	80-120
Selenium	mg/kg (ppm)	5	114	80-120
Silver	mg/kg (ppm)	10	97	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
ORGANOCHLORINE PESTICIDES
BY EPA METHOD 8081B**

Laboratory Code: 509303-01 1/30 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
alpha-BHC	mg/kg (ppm)	0.1	<0.01	60	68	17-122	12
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	<0.01	60	67	18-128	11
beta-BHC	mg/kg (ppm)	0.1	<0.01	58	64	17-130	10
delta-BHC	mg/kg (ppm)	0.1	<0.01	61	67	20-124	9
Heptachlor	mg/kg (ppm)	0.1	<0.01	61	68	15-133	11
Aldrin	mg/kg (ppm)	0.1	<0.01	58	65	50-150	11
Heptachlor Epoxide	mg/kg (ppm)	0.1	<0.01	58	65	19-132	11
trans-Chlordane	mg/kg (ppm)	0.1	<0.01	73	79	15-157	8
cis-Chlordane	mg/kg (ppm)	0.1	<0.01	62	69	17-133	11
4,4'-DDE	mg/kg (ppm)	0.1	<0.01	63	69	17-139	9
Endosulfan I	mg/kg (ppm)	0.1	<0.01	59	66	19-130	11
Dieldrin	mg/kg (ppm)	0.1	<0.01	61	68	17-140	11
Endrin	mg/kg (ppm)	0.1	<0.01	71	78	20-143	9
4,4'-DDD	mg/kg (ppm)	0.1	<0.01	63	72	20-143	13
Endosulfan II	mg/kg (ppm)	0.1	<0.01	60	67	21-133	11
4,4'-DDT	mg/kg (ppm)	0.1	<0.01	60	68	10-385	12
Endrin Aldehyde	mg/kg (ppm)	0.1	<0.01	53	59	12-123	11
Methoxychlor	mg/kg (ppm)	0.1	<0.01	65	74	10-226	13
Endosulfan Sulfate	mg/kg (ppm)	0.1	<0.01	58	65	17-134	11
Endrin Ketone	mg/kg (ppm)	0.1	<0.01	60	66	10-153	10
Toxaphene	mg/kg (ppm)	4	<0.1	70	71	12-123	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/08/25

Date Received: 09/17/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509303

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
ORGANOCHLORINE PESTICIDES
BY EPA METHOD 8081B**

Laboratory Code: Laboratory Control Sample 1/30

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
alpha-BHC	mg/kg (ppm)	0.1	86	53-132
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	87	70-130
beta-BHC	mg/kg (ppm)	0.1	83	61-129
delta-BHC	mg/kg (ppm)	0.1	88	56-136
Heptachlor	mg/kg (ppm)	0.1	88	56-125
Aldrin	mg/kg (ppm)	0.1	84	50-131
Heptachlor Epoxide	mg/kg (ppm)	0.1	84	54-131
trans-Chlordane	mg/kg (ppm)	0.1	90	58-133
cis-Chlordane	mg/kg (ppm)	0.1	91	59-128
4,4'-DDE	mg/kg (ppm)	0.1	91	64-134
Endosulfan I	mg/kg (ppm)	0.1	87	57-128
Dieldrin	mg/kg (ppm)	0.1	89	52-132
Endrin	mg/kg (ppm)	0.1	103	53-128
4,4'-DDD	mg/kg (ppm)	0.1	93	55-132
Endosulfan II	mg/kg (ppm)	0.1	89	58-126
4,4'-DDT	mg/kg (ppm)	0.1	99	60-123
Endrin Aldehyde	mg/kg (ppm)	0.1	87	48-111
Methoxychlor	mg/kg (ppm)	0.1	104	61-124
Endosulfan Sulfate	mg/kg (ppm)	0.1	90	60-129
Endrin Ketone	mg/kg (ppm)	0.1	88	50-129
Toxaphene	mg/kg (ppm)	4	99	37-185

FRIEDMAN & BRUYA, INC.

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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

509303

SAMPLE CHAIN OF CUSTODY

09/17/25 vsc2/G4 2

Report To Audrey HackettCompany Maul Foster AlongiAddress 2815 2nd Avenue, Suite 540City, State, ZIP Seattle WA 98121Phone 206-331-1835 Email ahackett@maulfoster.comSAMPLERS (signature) Page # 1 of 2

PROJECT NAME

PO #

Port of Tacoma Parcel 12

M0615.34.002

REMARKS

INVOICE TO

cc: fbellows@maulfoster.com

accounting@maulfoster.com

Project Specific RLs - Yes ☒ No ☐

TURNAROUND TIME

Standard Turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Project Specific RLs - Yes / No						ANALYSES REQUESTED												Other	
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organophosphorus and chlorinated)	HOLD	Notes		
T27-S-0-1	01 A-D	09/17/25	0815	SO	4	X	X							X	X	X	X		
T27-S-1-3	02	09/17/25	0830	SO	4	X	X										X		
T27-S-3-6.6	03	09/17/25	0845	SO	4	X	X										X		
T27-S-8-10	04	09/17/25	0905	SO	4	X	X										X		
T27-S-10-12.3	05	09/17/25	0925	SO	4	X	X										X		
T73-S-0-1	06	09/17/25	1045	SO	4	X	X						X	X	X	X	X		
T73-S-1-3	07	09/17/25	1047	SO	4	X	X										X		
T73-S-3-5	08	09/17/25	1050	SO	4	X	X										X		
T73-S-5-6.6	09	09/17/25	1110	SO	4	X	X										X		
T73-S-6.6-9.3	10	09/17/25	1112	SO	4	X	X										X		

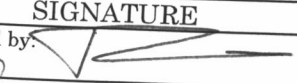
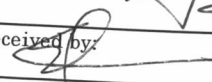
Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

FORMS\COC\COC.DOC

SIGNATURE		PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 		Fiona Bellows	MFA	9/17/25	1642
Received by: 		Eric Young	Fe B	9/17/25	1642
Relinquished by:					
Received by:					
Samples received at <u>2</u> °C					

509303

SAMPLE CHAIN OF CUSTODY

09/17/25

VSC2/G4

Page # 2 of 2

Report To **Audrey Hackett**Company **Maul Foster Alongi**Address **2815 2nd Avenue, Suite 540**City, State, ZIP **Seattle WA 98121**Phone **206-331-1835** Email **ahackett@maulfoster.com**SAMPLERS (signature) 

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: **fbellows@maulfoster.com**Project Specific RLs - Yes ☒ No

INVOICE TO

accounting@maulfoster.com

TURNAROUND TIME

Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals			HOLD	
T73-S-9.3-12	11 A-D	09/17/25	1125	SO	4	X	X										X
T70-S-0-1	12	09/17/25	1210	SO	4	X	X						X	X	X	X	
T70-S-3-5.7	13	09/17/25	1235	SO	4	X	X									X	
T70-S-5.7-9	14	09/17/25	1305	SO	4	X	X									X	
T70-S-9-12	15	09/17/25	1330	SO	4	X	X									X	
		09/ /25		SO													
		09/ /25		SO													
		09/ /25		SO													
		09/ /25		SO													
		09/ /25		SO													

FMB 9/17/25

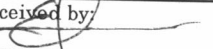
Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Fiona Bellows	MFA	9/17/25	1642
Received by: 	Eric Fournier	FMB	9/17/25	1642
Relinquished by:				
Received by:				
		Samples received at 2 °C		

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 507303 CLIENT MFA INITIALS/DATE: [Signature] 09/17/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: (NP) 9/18
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 0 days
REC 9/18

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☐ Yes ☒ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters** Number of unused TO17 tubes

**Fill out Green manifolds billing sheet



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 2, 2025

Michael Erdahl
Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108

Re: Analytical Data for Project 509303
Laboratory Reference No. 2509-340

Dear Michael:

Enclosed are the analytical results and associated quality control data for samples submitted on September 24, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-340
Project: 509303

Case Narrative

Samples were collected on September 17, 2025 and received by the laboratory on September 24, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-340
 Project: 509303

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T27-S-0-1					
Laboratory ID:	09-340-01					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.015	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>125</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>101</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-340
 Project: 509303

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T73-S-0-1					
Laboratory ID:	09-340-02					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.015	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.054	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>116</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>97</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-340
 Project: 509303

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T70-S-0-1					
Laboratory ID:	09-340-03					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.055	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.055	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.055	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>112</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>95</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-340
 Project: 509303

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1001S1					
Dichlorvos(DDVP)	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.014	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	126	39-158				
<i>Triphenyl phosphate</i>	99	66-133				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-340
 Project: 509303

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1001S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorvos(DDVP)	0.0998	0.0981	0.100	0.100	100	98	62-132	2	22	
Mevinphos/Phosdrin	0.0920	0.0889	0.100	0.100	92	89	47-136	3	21	
Ethoprophos	0.0859	0.0786	0.100	0.100	86	79	58-132	9	25	
Sulfotepp	0.0840	0.0950	0.100	0.100	84	95	65-122	12	40	
Phorate	0.0879	0.0878	0.100	0.100	88	88	61-128	0	32	
Dimethoate	0.102	0.0994	0.100	0.100	102	99	49-139	3	26	
Demeton-S	0.0721	0.0702	0.0700	0.0700	103	100	56-133	3	31	
Diazinon	0.0981	0.0923	0.100	0.100	98	92	60-134	6	27	
Disulfoton	0.0845	0.0871	0.100	0.100	85	87	56-132	3	24	
Parathion-methyl	0.0996	0.0972	0.100	0.100	100	97	61-133	2	28	
Fenchlorphos/Ronnel	0.0969	0.0949	0.100	0.100	97	95	66-126	2	21	
Malathion	0.0904	0.0943	0.100	0.100	90	94	69-143	4	19	
Fenthion	0.0998	0.0934	0.100	0.100	100	93	66-127	7	20	
Parathion-ethyl	0.0984	0.103	0.100	0.100	98	103	66-131	5	21	
Chlorpyrifos/Dursban	0.102	0.0983	0.100	0.100	102	98	69-124	4	20	
Trichloronate	0.101	0.0934	0.100	0.100	101	93	68-126	8	21	
Stirofos/Tetrachlorvinphos	0.0990	0.100	0.100	0.100	99	100	54-164	1	24	
Tokuthion/Prothiofos	0.0973	0.0957	0.100	0.100	97	96	68-129	2	21	
Fensulfothion	0.0950	0.0927	0.100	0.100	95	93	55-158	2	21	
Bolstar/Sulprofos	0.0975	0.0986	0.100	0.100	98	99	65-131	1	21	
EPN	0.0952	0.0998	0.100	0.100	95	100	65-136	5	23	
Azinphos-methyl/Guthion	0.101	0.0993	0.100	0.100	101	99	63-161	2	22	
Coumaphos	0.0997	0.100	0.100	0.100	100	100	57-163	0	26	
Surrogate:										
Tributyl phosphate					118	119	39-158			
Triphenyl phosphate					97	99	66-133			



Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-340
Project: 509303

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
T27-S-0-1	09-340-01	8	10-1-25
T73-S-0-1	09-340-02	8	10-1-25
T70-S-0-1	09-340-03	10	10-1-25





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Send Report To Michael Fridahl

Company Friedman and Bruya, Inc.

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

email: merdahl@friedmanandbruya.com

SUBCONTRACTOR Onsite		09-340
PROJECT NAME/NO.	PO #	
509303	F-468	
REMARKS EWLS4		

Page # 1 of 1

TURNAROUND TIME

☒ Standard

RUSH_____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

[illegible]

Sample/Cooler Receipt and Acceptance Checklist

Client: FB1
 Client Project Name/Number: 509303
 OnSite Project Number: 09-340

Initiated by: AP
 Date Initiated: 9/24/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A	Temperature: <u>5</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	☒ Client	☐ Courier	☐ UPS/FedEx	☐ OSE Pickup	☐ Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	Yes	No	☒ N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	☒ N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 509303,

Work Order Number: 2509600

October 07, 2025

Attention Michael Erdahl:

Alliance Technical Group, LLC - Seattle received 3 sample(s) on 9/24/2025 for the analyses presented in the following report.

Herbicides by EPA 8151A

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Lyann Rivera
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



CLIENT: Friedman & Bruya
Project: 509303
Work Order: 2509600

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2509600-001	T27-S-0-1	09/17/2025 8:15 AM	09/24/2025 3:40 PM
2509600-002	T73-S-0-1	09/17/2025 10:45 AM	09/24/2025 3:40 PM
2509600-003	T70-S-0-1	09/17/2025 12:10 PM	09/24/2025 3:40 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 509303

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 509303

Lab ID: 2509600-001

Collection Date: 9/17/2025 8:15:00 AM

Client Sample ID: T27-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
2,4-D	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
2,4-DP	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
2,4,5-TP (Silvex)	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
2,4,5-T	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Dinoseb	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Dalapon	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
2,4-DB	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
MCP	ND	191		µg/Kg	1	10/2/2025 5:35:27 AM
MCPA	ND	287		µg/Kg	1	10/2/2025 5:35:27 AM
Picloram	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Bentazon	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Chloramben	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Acifluorfen	ND	19.1	Q	µg/Kg	1	10/2/2025 5:35:27 AM
3,5-Dichlorobenzoic acid	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
4-Nitrophenol	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Dacthal (DCPA)	ND	19.1		µg/Kg	1	10/2/2025 5:35:27 AM
Surr: 2,4-Dichlorophenylacetic acid	62.9	11.7 - 155		%Rec	1	10/2/2025 5:35:27 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria(77.5%, nominal 80-120%). Result may be low-biased.

CLIENT: Friedman & Bruya
Project: 509303

Lab ID: 2509600-002

Collection Date: 9/17/2025 10:45:00 AM

Client Sample ID: T73-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
2,4-D	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
2,4-DP	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
2,4,5-TP (Silvex)	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
2,4,5-T	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Dinoseb	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Dalapon	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
2,4-DB	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
MCP	ND	190		µg/Kg	1	10/2/2025 5:52:10 AM
MCPA	ND	285		µg/Kg	1	10/2/2025 5:52:10 AM
Picloram	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Bentazon	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Chloramben	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Acifluorfen	ND	19.0	Q	µg/Kg	1	10/2/2025 5:52:10 AM
3,5-Dichlorobenzoic acid	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
4-Nitrophenol	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Dacthal (DCPA)	ND	19.0		µg/Kg	1	10/2/2025 5:52:10 AM
Surr: 2,4-Dichlorophenylacetic acid	88.1	11.7 - 155		%Rec	1	10/2/2025 5:52:10 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria(77.5%, nominal 80-120%). Result may be low-biased.

CLIENT: Friedman & Bruya
Project: 509303

Lab ID: 2509600-003

Collection Date: 9/17/2025 12:10:00 PM

Client Sample ID: T70-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
2,4-D	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
2,4-DP	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
2,4,5-TP (Silvex)	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
2,4,5-T	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Dinoseb	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Dalapon	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
2,4-DB	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
MCP	ND	196		µg/Kg	1	10/2/2025 6:08:50 AM
MCPA	ND	294		µg/Kg	1	10/2/2025 6:08:50 AM
Picloram	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Bentazon	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Chloramben	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Acifluorfen	ND	19.6	Q	µg/Kg	1	10/2/2025 6:08:50 AM
3,5-Dichlorobenzoic acid	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
4-Nitrophenol	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Dacthal (DCPA)	ND	19.6		µg/Kg	1	10/2/2025 6:08:50 AM
Surr: 2,4-Dichlorophenylacetic acid	58.4	11.7 - 155		%Rec	1	10/2/2025 6:08:50 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria(77.5%, nominal 80-120%). Result may be low-biased.

Work Order: 2509600
CLIENT: Friedman & Bruya
Project: 509303

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: MB-49402		SampType: MBLK		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: MBLKS		Batch ID: 49402				Analysis Date: 9/30/2025		SeqNo: 2158433			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	20.0									
2,4-D	ND	20.0									
2,4-DP	ND	20.0									
2,4,5-TP (Silvex)	ND	20.0									
2,4,5-T	ND	20.0									
Dinoseb	ND	20.0									
Dalapon	ND	20.0									
2,4-DB	ND	20.0									
MCP	ND	200									
MCPA	ND	300									
Picloram	ND	20.0									
Bentazon	ND	20.0									
Chloramben	ND	20.0									Q
Acifluorfen	ND	20.0									
3,5-Dichlorobenzoic acid	ND	20.0									
4-Nitrophenol	ND	20.0									
Dacthal (DCPA)	ND	20.0									
Surr: 2,4-Dichlorophenylacetic acid	844		1,000		84.4	5	150				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-49402		SampType: LCS		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: LCSS		Batch ID: 49402				Analysis Date: 10/2/2025		SeqNo: 2158370			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	218	20.0	200.0	0	109	6.87	123				
2,4-D	247	20.0	200.0	0	123	13.2	123				S
2,4-DP	223	20.0	200.0	0	112	17.2	120				
2,4,5-TP (Silvex)	235	20.0	200.0	0	118	22.3	124				
2,4,5-T	202	20.0	200.0	0	101	17.5	122				
Dinoseb	189	20.0	200.0	0	94.5	13	115				
Dalapon	1,160	20.0	1,000	0	116	5.02	155				

Work Order: 2509600
CLIENT: Friedman & Bruya
Project: 509303

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: LCS-49402		SampType: LCS		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: LCSS		Batch ID: 49402				Analysis Date: 10/2/2025		SeqNo: 2158370			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	141	20.0	200.0	0	70.3	40.9	123				
MCP	1,370	200	1,000	0	137	19.2	142				
MCPA	1,090	300	1,000	0	109	6.41	143				
Picloram	229	20.0	200.0	0	114	5.42	148				
Bentazon	201	20.0	200.0	0	100	21.5	133				
Chloramben	199	20.0	200.0	0	99.5	8.88	94.8				S
Acifluorfen	191	20.0	200.0	0	95.7	5.24	110				
3,5-Dichlorobenzoic acid	210	20.0	200.0	0	105	12.3	132				
4-Nitrophenol	149	20.0	200.0	0	74.4	13	148				
Dacthal (DCPA)	220	20.0	200.0	0	110	12.7	122				
Surr: 2,4-Dichlorophenylacetic acid	1,110		1,000		111	11.7	155				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2509599-003AMS		SampType: MS		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: BATCH		Batch ID: 49402				Analysis Date: 10/2/2025		SeqNo: 2158374			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	78.1	19.9	199.4	0	39.1	6.87	123				
2,4-D	55.6	19.9	199.4	0	27.9	13.2	123				
2,4-DP	77.0	19.9	199.4	0	38.6	17.2	120				
2,4,5-TP (Silvex)	91.7	19.9	199.4	0	46.0	22.3	124				
2,4,5-T	55.9	19.9	199.4	0	28.0	17.5	122				
Dinoseb	107	19.9	199.4	0	53.7	13	115				
Dalapon	173	19.9	997.0	0	17.3	5.02	155				
2,4-DB	98.2	19.9	199.4	0	49.2	40.9	123				
MCP	839	199	997.0	0	84.2	19.2	142				
MCPA	596	299	997.0	0	59.8	6.41	143				
Picloram	7.56	19.9	199.4	0	3.79	5.42	148				S
Bentazon	97.0	19.9	199.4	0	48.7	21.5	133				
Chloramben	65.6	19.9	199.4	0	32.9	8.88	94.8				
Acifluorfen	64.4	19.9	199.4	0	32.3	5.24	110				

Work Order: 2509600
CLIENT: Friedman & Bruya
Project: 509303

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: 2509599-003AMS	SampType: MS	Units: µg/Kg			Prep Date: 9/26/2025			RunNo: 103465			
Client ID: BATCH	Batch ID: 49402				Analysis Date: 10/2/2025			SeqNo: 2158374			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	94.0	19.9	199.4	0	47.1	12.3	132				
4-Nitrophenol	85.2	19.9	199.4	0	42.7	13	148				
Dacthal (DCPA)	ND	19.9	199.4	0	0	12.7	122				S
Surr: 2,4-Dichlorophenylacetic acid	696		997.0		69.8	11.7	155				

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2509599-003AMSD	SampType: MSD	Units: µg/Kg			Prep Date: 9/26/2025			RunNo: 103465			
Client ID: BATCH	Batch ID: 49402				Analysis Date: 10/2/2025			SeqNo: 2158375			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	71.8	20.0	199.8	0	35.9	6.87	123	78.06	8.32	30	
2,4-D	52.8	20.0	199.8	0	26.4	13.2	123	55.59	5.18	30	
2,4-DP	73.2	20.0	199.8	0	36.7	17.2	120	77.03	5.05	30	
2,4,5-TP (Silvex)	84.6	20.0	199.8	0	42.4	22.3	124	91.69	8.01	30	
2,4,5-T	50.0	20.0	199.8	0	25.0	17.5	122	55.91	11.2	30	
Dinoseb	110	20.0	199.8	0	55.1	13	115	107.1	2.83	30	
Dalapon	167	20.0	999.0	0	16.8	5.02	155	172.5	3.01	30	
2,4-DB	79.9	20.0	199.8	0	40.0	40.9	123	98.17	20.6	30	S
MCPD	917	200	999.0	0	91.8	19.2	142	839.1	8.85	30	
MCPA	582	300	999.0	0	58.2	6.41	143	596.0	2.44	30	
Picloram	6.12	20.0	199.8	0	3.06	5.42	148	0		30	S
Bentazon	85.5	20.0	199.8	0	42.8	21.5	133	97.01	12.7	30	
Chloramben	57.3	20.0	199.8	0	28.7	8.88	94.8	65.61	13.5	30	
Acifluorfen	62.4	20.0	199.8	0	31.2	5.24	110	64.42	3.15	30	
3,5-Dichlorobenzoic acid	86.2	20.0	199.8	0	43.1	12.3	132	93.97	8.68	30	
4-Nitrophenol	84.5	20.0	199.8	0	42.3	13	148	85.19	0.761	30	
Dacthal (DCPA)	ND	20.0	199.8	0	0	12.7	122	0		30	S
Surr: 2,4-Dichlorophenylacetic acid	637		999.0		63.7	11.7	155		0		

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

S - Outlying spike recovery observed. A duplicate analysis was performed and recovered within range.

Client Name: **FB**
Logged by: **Lyann Rivera**

Work Order Number: **2509600**
Date Received: **9/24/2025 3:40:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Unknown Prior to Receipt Yes ☐ No ☐ NA ☒
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	13.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACTER

PROJECT NAME/NO.

PO #

509303

F-467

REMARKS

Goals 4

2509600

TURNAROUND TIME

☒ Standard

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Will call with instructions

SUBCONTRACTOR ATG	
PROJECT NAME/NO.	PO #
509303	F-467
REMARKS	
E60154 2509600	

Page # 1 of 1

TURNAROUND TIME

☒ Standard
RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	9/24/17	0835
Received by: 	Gina Sprad	ATG	9/24/25	3:40PM
Relinquished by:				
Received by:				

Page 12 of 12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

October 10, 2025

Audrey Hackett, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Hackett:

Included are the results from the testing of material submitted on September 18, 2025 from the Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349 project. There are 31 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
c: Fiona Bellows
MFA1010R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 18, 2025 by Friedman & Bruya, Inc. from the Maul Foster Alongi Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Maul Foster Alongi</u>
509349 -01	T53-S-0-1
509349 -02	T53-S-1-6
509349 -03	T53-S-6-9
509349 -04	T53-S-9-12
509349 -05	T14-S-0-1
509349 -06	T14-S-1-2
509349 -07	T14-S-1-2-DUP
509349 -08	T14-S-2-3
509349 -09	T14-S-3-6
509349 -10	T14-S-6-8
509349 -11	T5-S-0-1
509349 -12	T5-S-1-4
509349 -13	T5-S-4-8
509349 -14	T5-S-8-12
509349 -15	T6-S-0-1
509349 -16	T6-S-1-5
509349 -17	T6-S-5-8
509349 -18	T6-S-5-8-DUP
509349 -19	T6-S-8-12

Samples T53-S-0-1, T14-S-0-1, T5-S-0-1, and T6-S-0-1 were sent to Alliance Technical Group and to Onsite Environmental for herbicide and organophosphorus pesticide testing, respectively. The reports are enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: NA

Date Analyzed: 09/25/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
T53-S-0-1 509349-01	11
T53-S-1-6 509349-02	17
T53-S-6-9 509349-03	22
T53-S-9-12 509349-04	25
T14-S-0-1 509349-05	23
T14-S-1-2 509349-06	11
T14-S-1-2-DUP 509349-07	4
T14-S-2-3 509349-08	10
T14-S-3-6 509349-09	12
T14-S-6-8 509349-10	18
T5-S-0-1 509349-11	20

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: NA

Date Analyzed: 09/25/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
T5-S-1-4 509349-12	24
T5-S-4-8 509349-13	13
T5-S-8-12 509349-14	15
T6-S-0-1 509349-15	22
T6-S-1-5 509349-16	22
T6-S-5-8 509349-17	24
T6-S-5-8-DUP 509349-18	22
T6-S-8-12 509349-19	24

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: 09/25/25

Date Analyzed: 09/25/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
T53-S-0-1 509349-01	<5	111
T53-S-1-6 509349-02	<5	112
T53-S-6-9 509349-03	<5	112
T53-S-9-12 509349-04	<5	112
T14-S-0-1 509349-05	<5	112
T14-S-1-2 509349-06	<5	115
T14-S-1-2-DUP 509349-07	<5	113
T14-S-2-3 509349-08	<5	109
T14-S-3-6 509349-09	<5	112
T14-S-6-8 509349-10	<5	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: 09/25/25

Date Analyzed: 09/25/25

**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 (% Recovery) (Limit 50-150)
T5-S-0-1 509349-11	<5	113
T5-S-1-4 509349-12	<5	112
T5-S-4-8 509349-13	<5	103
T5-S-8-12 509349-14	<5	111
T6-S-0-1 509349-15	<5	108
T6-S-1-5 509349-16	<5	112
T6-S-5-8 509349-17	<5	111
T6-S-5-8-DUP 509349-18	<5	111
T6-S-8-12 509349-19	<5	111
Method Blank 05-2315 MB	<5	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: 09/25/25

Date Analyzed: 09/25/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
T53-S-0-1 509349-01	<50	<200	124
T53-S-1-6 509349-02	<50	<200	120
T53-S-6-9 509349-03	<50	<200	123
T53-S-9-12 509349-04	<50	<200	121
T14-S-0-1 509349-05	<50	<200	125
T14-S-1-2 509349-06	<50	<200	125
T14-S-1-2-DUP 509349-07	<50	<200	121
T14-S-2-3 509349-08	<50	<200	124
T14-S-3-6 509349-09	<50	<200	123
T14-S-6-8 509349-10	<50	<200	121
T5-S-0-1 509349-11	<50	<200	123
T5-S-1-4 509349-12	<50	<200	122

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

Date Extracted: 09/25/25

Date Analyzed: 09/25/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
T5-S-4-8 509349-13	<50	<200	121
T5-S-8-12 509349-14	<50	<200	122
T6-S-0-1 509349-15	<50	<200	123
T6-S-1-5 509349-16	<50	<200	122
T6-S-5-8 509349-17	<50	<200	124
T6-S-5-8-DUP 509349-18	<50	<200	123
T6-S-8-12 509349-19	<50	<200	120
Method Blank 05-2437 MB	<50	<200	120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T53-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-01
Date Analyzed:	09/25/25	Data File:	509349-01.161
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.5
Barium	36
Cadmium	<1
Lead	13
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T53-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-01 x5
Date Analyzed:	09/27/25	Data File:	509349-01 x5.412
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	13
----------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-05
Date Analyzed:	09/25/25	Data File:	509349-05.163
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	26
Barium	220
Cadmium	<1
Lead	14
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-05 x5
Date Analyzed:	09/27/25	Data File:	509349-05 x5.413
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	11
----------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-1-2	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-06
Date Analyzed:	09/25/25	Data File:	509349-06.165
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	13
Barium	130
Cadmium	<1
Lead	4.6
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-1-2	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-06 x5
Date Analyzed:	09/27/25	Data File:	509349-06 x5.421
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	7.2
----------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-1-2-DUP	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-07
Date Analyzed:	09/25/25	Data File:	509349-07.173
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	13
Barium	130
Cadmium	<1
Lead	3.7
Mercury	<1 k
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T14-S-1-2-DUP	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-07 x5
Date Analyzed:	09/27/25	Data File:	509349-07 x5.422
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	6.8
----------	-----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T5-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-11
Date Analyzed:	09/25/25	Data File:	509349-11.174
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.9
Barium	37
Cadmium	<1
Lead	8.1
Mercury	<1 k
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T5-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-11 x5
Date Analyzed:	09/27/25	Data File:	509349-11 x5.423
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Chromium	13
----------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T6-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-15
Date Analyzed:	09/25/25	Data File:	509349-15.175
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.6
Barium	46
Cadmium	<1
Lead	12
Mercury	<1 k
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T6-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-15 x5
Date Analyzed:	09/27/25	Data File:	509349-15 x5.424
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Chromium	14
----------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	NA	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	I5-825 mb
Date Analyzed:	09/24/25	Data File:	I5-825 mb.114
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T53-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-01 1/30
Date Analyzed:	09/24/25	Data File:	092425.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	55	20	134
Decachlorobiphenyl	65	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T14-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-05 1/30
Date Analyzed:	09/24/25	Data File:	092426.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	64	20	134
Decachlorobiphenyl	115	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T5-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-11 1/30
Date Analyzed:	09/24/25	Data File:	092427.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	56	20	134
Decachlorobiphenyl	67	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	T6-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/18/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	509349-15 1/30
Date Analyzed:	09/24/25	Data File:	092428.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	57	20	134
Decachlorobiphenyl	69	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	Not Applicable	Project:	Port of Tacoma Parcel 12
Date Extracted:	09/24/25	Lab ID:	05-2432 mb 1/30
Date Analyzed:	09/24/25	Data File:	092421.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	JH

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	80	20	134
Decachlorobiphenyl	91	20	139

Compounds:	Concentration mg/kg (ppm)
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

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

Laboratory Code: 509349-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	102	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

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

Laboratory Code: 509349-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	112	108	63-146	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	77-123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 509410-04 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	110	122	75-125	10
Barium	mg/kg (ppm)	50	32.0	107 b	124 b	75-125	15 b
Cadmium	mg/kg (ppm)	10	<5	102	110	75-125	8
Chromium	mg/kg (ppm)	50	14.1	100 b	107 b	75-125	7 b
Lead	mg/kg (ppm)	50	<5	99	107	75-125	8
Mercury	mg/kg (ppm)	5	<5	106	117	75-125	10
Selenium	mg/kg (ppm)	5	<5	102	106	75-125	4
Silver	mg/kg (ppm)	10	<5	101	109	75-125	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	113	80-120
Barium	mg/kg (ppm)	50	95	80-120
Cadmium	mg/kg (ppm)	10	97	80-120
Chromium	mg/kg (ppm)	50	104	80-120
Lead	mg/kg (ppm)	50	91	80-120
Mercury	mg/kg (ppm)	5	100	80-120
Selenium	mg/kg (ppm)	5	114	80-120
Silver	mg/kg (ppm)	10	97	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR ORGANOCHLORINE PESTICIDES BY EPA METHOD 8081B

Laboratory Code: 509303-01 1/30 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
alpha-BHC	mg/kg (ppm)	0.1	<0.01	60	68	17-122	12
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	<0.01	60	67	18-128	11
beta-BHC	mg/kg (ppm)	0.1	<0.01	58	64	17-130	10
delta-BHC	mg/kg (ppm)	0.1	<0.01	61	67	20-124	9
Heptachlor	mg/kg (ppm)	0.1	<0.01	61	68	15-133	11
Aldrin	mg/kg (ppm)	0.1	<0.01	58	65	50-150	11
Heptachlor Epoxide	mg/kg (ppm)	0.1	<0.01	58	65	19-132	11
trans-Chlordane	mg/kg (ppm)	0.1	<0.01	73	79	15-157	8
cis-Chlordane	mg/kg (ppm)	0.1	<0.01	62	69	17-133	11
4,4'-DDE	mg/kg (ppm)	0.1	<0.01	63	69	17-139	9
Endosulfan I	mg/kg (ppm)	0.1	<0.01	59	66	19-130	11
Dieldrin	mg/kg (ppm)	0.1	<0.01	61	68	17-140	11
Endrin	mg/kg (ppm)	0.1	<0.01	71	78	20-143	9
4,4'-DDD	mg/kg (ppm)	0.1	<0.01	63	72	20-143	13
Endosulfan II	mg/kg (ppm)	0.1	<0.01	60	67	21-133	11
4,4'-DDT	mg/kg (ppm)	0.1	<0.01	60	68	10-385	12
Endrin Aldehyde	mg/kg (ppm)	0.1	<0.01	53	59	12-123	11
Methoxychlor	mg/kg (ppm)	0.1	<0.01	65	74	10-226	13
Endosulfan Sulfate	mg/kg (ppm)	0.1	<0.01	58	65	17-134	11
Endrin Ketone	mg/kg (ppm)	0.1	<0.01	60	66	10-153	10
Toxaphene	mg/kg (ppm)	4	<0.1	70	71	12-123	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/25

Date Received: 09/18/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509349

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
ORGANOCHLORINE PESTICIDES
BY EPA METHOD 8081B**

Laboratory Code: Laboratory Control Sample 1/30

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
alpha-BHC	mg/kg (ppm)	0.1	86	53-132
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	87	70-130
beta-BHC	mg/kg (ppm)	0.1	83	61-129
delta-BHC	mg/kg (ppm)	0.1	88	56-136
Heptachlor	mg/kg (ppm)	0.1	88	56-125
Aldrin	mg/kg (ppm)	0.1	84	50-131
Heptachlor Epoxide	mg/kg (ppm)	0.1	84	54-131
trans-Chlordane	mg/kg (ppm)	0.1	90	58-133
cis-Chlordane	mg/kg (ppm)	0.1	91	59-128
4,4'-DDE	mg/kg (ppm)	0.1	91	64-134
Endosulfan I	mg/kg (ppm)	0.1	87	57-128
Dieldrin	mg/kg (ppm)	0.1	89	52-132
Endrin	mg/kg (ppm)	0.1	103	53-128
4,4'-DDD	mg/kg (ppm)	0.1	93	55-132
Endosulfan II	mg/kg (ppm)	0.1	89	58-126
4,4'-DDT	mg/kg (ppm)	0.1	99	60-123
Endrin Aldehyde	mg/kg (ppm)	0.1	87	48-111
Methoxychlor	mg/kg (ppm)	0.1	104	61-124
Endosulfan Sulfate	mg/kg (ppm)	0.1	90	60-129
Endrin Ketone	mg/kg (ppm)	0.1	88	50-129
Toxaphene	mg/kg (ppm)	4	99	37-185

FRIEDMAN & BRUYA, INC.

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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

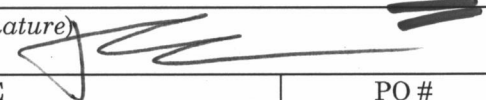
vo - The value reported fell outside the control limits established for this analyte.

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

509349

SAMPLE CHAIN OF CUSTODY

09/18/25 VSC2/G4

Report To Audrey HackettCompany Maul Foster AlongiAddress 2815 2nd Avenue, Suite 540City, State, ZIP Seattle WA 98121Phone 206-331-1835 Email ahackett@maulfoster.comSAMPLERS (signature) 

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: fbellows@maulfoster.com

Project Specific RLs - Yes ☒ No ☐

INVOICE TO

accounting@maulfoster.com

Page # 1 of 2

TURNAROUND TIME

Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

						ANALYSES REQUESTED												X per AH 09/23/25 ME Notes	
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organophosphorus chlorinated)	HOLD			
T53-S-0-1	01A-D	09/18/25	0820	SO	4	X	X						X	X	X	X			
T53-S-1-6	02	09/18/25	0825	SO	4	X	X									X			
T53-S-6-9	03	09/18/25	0847	SO	4	X	X									X			
T53-S-9-12	04	09/18/25	0850	SO	4	X	X									X			
T14-S-0-1	05	09/18/25	0925	SO	4	X	X						X	X	X	X			
T14-S-1-2	06	09/18/25	1040	SO	4	X	X						X			X			
T14-S-1-2-DUP	07	09/18/25	1040	SO	4	X	X						X			X			
T14-S-2-3	08	09/18/25	1055	SO	4	X	X									X			
T14-S-3-6	09	09/18/25	1100	SO	4	X	X									X			
T14-S-6-8	10	09/18/25	1105	SO	4	X	X									X			

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Fiona Bellows	MFA	9/18/25	1525
Received by: 	VINH	FBI	9-18-25	1525
Relinquished by:		Samples received at <u>2</u> °C		
Received by:				

509349

SAMPLE CHAIN OF CUSTODY

09/18/25 VSC2/G4

Report To Audrey HackettCompany Maul Foster AlongiAddress 2815 2nd Avenue, Suite 540City, State, ZIP Seattle WA 98121Phone 206-331-1835 Email ahackett@maulfoster.comSAMPLERS (signature) 

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: fbellow@maulfoster.com

Project Specific RLs - Yes ☒ No ☐

INVOICE TO

accounting@maulfoster.com

Page # 2 of 2

TURNAROUND TIME

Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

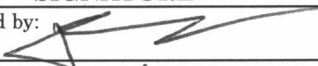
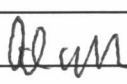
						ANALYSES REQUESTED												
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides	HOLD	Notes	
T5-S-0-1	11 A-D	09/18/25	1150	SO	4	X	X						X	X	X	X		
T5-S-1-4	12	09/18/25	1152	SO	4	X	X										X	
T5-S-4-8	13	09/18/25	1155	SO	4	X	X										X	
T5-S-8-12	14	09/18/25	1200	SO	4	X	X										X	
T6-S-0-1	15	09/18/25	1237	SO	4	X	X						X	X	X	X		
T6-S-1-5	16	09/18/25	1255	SO	4	X	X										X	
T6-S-5-8	17	09/18/25	1315	SO	4	X	X										X	
T6-S-5-8-DUP	18	09/18/25	1315	SO	4	X	X										X	
T6-S-8-12	19	09/18/25	1330	SO	4	X	X										X	
		09/1/25		SO													FMB 9/18	

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Fiona Bellows	MFA	9/18/25	1525
Received by: 	VINH	FDI	9-18-25	1525
Relinquished by:		Samples received at <u>2</u> °C		
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 509349 CLIENT MFA INITIALS/ AP
DATE: 9/18/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 2 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☒ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 9/19/25

Number of days samples have been sitting prior to receipt at laboratory 0 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters** Number of unused TO17 tubes

**Fill out Green manifolds billing sheet



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 2, 2025

Michael Erdahl
Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108

Re: Analytical Data for Project 509349
Laboratory Reference No. 2509-341

Dear Michael:

Enclosed are the analytical results and associated quality control data for samples submitted on September 24, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 2, 2025
Samples Submitted: September 24, 2025
Laboratory Reference: 2509-341
Project: 509349

Case Narrative

Samples were collected on September 18, 2025 and received by the laboratory on September 24, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T53-S-0-1					
Laboratory ID:	09-341-01					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>86</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>88</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T14-S-0-1					
Laboratory ID:	09-341-02					
Dichlorvos(DDVP)	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.079	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.079	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.079	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.032	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>112</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>79</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T5-S-0-1					
Laboratory ID:	09-341-03					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	96	39-158				
<i>Triphenyl phosphate</i>	96	66-133				



Date of Report: October 2, 2025
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 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	T6-S-0-1					
Laboratory ID:	09-341-04					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.057	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.057	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.057	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>78</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>75</i>	<i>66-133</i>				



Date of Report: October 2, 2025
 Samples Submitted: September 24, 2025
 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1001S1					
Dichlorvos(DDVP)	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Mevinphos/Phosdrin	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Ethoprophos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Monocrotophos	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Naled	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Sulfotepp	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Phorate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Dimethoate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Demeton-S	ND	0.014	EPA 8270E/SIM	10-1-25	10-1-25	
Diazinon	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Disulfoton	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-methyl	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Fenchlorphos/Ronnel	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Malathion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Fenthion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Parathion-ethyl	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Chlorpyrifos/Dursban	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Trichloronate	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Stirofos/Tetrachlorvinphos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Tokuthion/Prothiofos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Merphos&Merphos-oxone	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Fensulfothion	ND	0.050	EPA 8270E/SIM	10-1-25	10-1-25	
Bolstar/Sulprofos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
EPN	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Azinphos-methyl/Guthion	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
Coumaphos	ND	0.020	EPA 8270E/SIM	10-1-25	10-1-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	126	39-158				
<i>Triphenyl phosphate</i>	99	66-133				



Date of Report: October 2, 2025
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 Laboratory Reference: 2509-341
 Project: 509349

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1001S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorvos(DDVP)	0.0998	0.0981	0.100	0.100	100	98	62-132	2	22	
Mevinphos/Phosdrin	0.0920	0.0889	0.100	0.100	92	89	47-136	3	21	
Ethoprophos	0.0859	0.0786	0.100	0.100	86	79	58-132	9	25	
Sulfotepp	0.0840	0.0950	0.100	0.100	84	95	65-122	12	40	
Phorate	0.0879	0.0878	0.100	0.100	88	88	61-128	0	32	
Dimethoate	0.102	0.0994	0.100	0.100	102	99	49-139	3	26	
Demeton-S	0.0721	0.0702	0.0700	0.0700	103	100	56-133	3	31	
Diazinon	0.0981	0.0923	0.100	0.100	98	92	60-134	6	27	
Disulfoton	0.0845	0.0871	0.100	0.100	85	87	56-132	3	24	
Parathion-methyl	0.0996	0.0972	0.100	0.100	100	97	61-133	2	28	
Fenchlorphos/Ronnel	0.0969	0.0949	0.100	0.100	97	95	66-126	2	21	
Malathion	0.0904	0.0943	0.100	0.100	90	94	69-143	4	19	
Fenthion	0.0998	0.0934	0.100	0.100	100	93	66-127	7	20	
Parathion-ethyl	0.0984	0.103	0.100	0.100	98	103	66-131	5	21	
Chlorpyrifos/Dursban	0.102	0.0983	0.100	0.100	102	98	69-124	4	20	
Trichloronate	0.101	0.0934	0.100	0.100	101	93	68-126	8	21	
Stirofos/Tetrachlorvinphos	0.0990	0.100	0.100	0.100	99	100	54-164	1	24	
Tokuthion/Prothiofos	0.0973	0.0957	0.100	0.100	97	96	68-129	2	21	
Fensulfothion	0.0950	0.0927	0.100	0.100	95	93	55-158	2	21	
Bolstar/Sulprofos	0.0975	0.0986	0.100	0.100	98	99	65-131	1	21	
EPN	0.0952	0.0998	0.100	0.100	95	100	65-136	5	23	
Azinphos-methyl/Guthion	0.101	0.0993	0.100	0.100	101	99	63-161	2	22	
Coumaphos	0.0997	0.100	0.100	0.100	100	100	57-163	0	26	
Surrogate:										
Tributyl phosphate					118	119	39-158			
Triphenyl phosphate					97	99	66-133			



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Samples Submitted: September 24, 2025
Laboratory Reference: 2509-341
Project: 509349

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
T53-S-0-1	09-341-01	10	10-1-25
T14-S-0-1	09-341-02	37	10-1-25
T5-S-0-1	09-341-03	10	10-1-25
T6-S-0-1	09-341-04	13	10-1-25





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

email: merdahl@friedmanandbruya.com

SUBCONTRACTOR Onsite		09-341
PROJECT NAME/NO.	PO #	
509349	F-468	
REMARKS E00154		

Page # 1 of 1

TURNAROUND TIME

☒ Standard

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

[illegible]

Sample/Cooler Receipt and Acceptance Checklist

Client: FBI

Client Project Name/Number: 509349

OnSite Project Number: 09-341

Initiated by: hr

Date Initiated: 9/24/2025

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A
1.2 Were the custody seals intact ?	Yes	No	☒ N/A
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A
1.4 Were the samples delivered on ice or blue ice?	Yes	☒ No	N/A
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	N/A
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A	
1.7 How were the samples delivered ?	☒ Client	☐ Courier	☐ UPS/FedEx ☐ OSE Pickup ☐ Other

Temperature: 5.1°C

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No
2.4 Did the sample labels (ID, date , time, preservative) agree with COC?	☒ Yes	No
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No
3.2 Were any sample labels missing or illegible?	Yes	☒ No
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No
3.4 Have the samples been correctly preserved?	Yes	No
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No
3.8 Was method 5035A used?	Yes	No
3.9 If 5035A was used, which sampling option was used (#1 or #2).	#	N/A

5035 is for Soil. #1 is for pre-weighed, unpreserved VOAs. #2 is for pre-weighed VOAs preserved with Sodium Bisulfate and/or Methanol

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 509349,

Work Order Number: 2509599

October 09, 2025

Attention Michael Erdahl:

Alliance Technical Group, LLC - Seattle received 4 sample(s) on 9/25/2025 for the analyses presented in the following report.

Herbicides by EPA 8151A

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Lyann Rivera

Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original



CLIENT: Friedman & Bruya
Project: 509349
Work Order: 2509599

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2509599-001	T53-S-0-1	09/18/2025 8:20 AM	09/25/2025 8:00 AM
2509599-002	T14-S-0-1	09/18/2025 9:25 AM	09/25/2025 8:00 AM
2509599-003	T5-S-0-1	09/18/2025 11:50 AM	09/25/2025 8:00 AM
2509599-004	T6-S-0-1	09/18/2025 12:37 PM	09/25/2025 8:00 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 509349

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 509349

Lab ID: 2509599-001

Collection Date: 9/18/2025 8:20:00 AM

Client Sample ID: T53-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
2,4-D	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
2,4-DP	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
2,4,5-TP (Silvex)	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
2,4,5-T	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Dinoseb	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Dalapon	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
2,4-DB	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
MCP	ND	191		µg/Kg	1	10/2/2025 3:55:14 AM
MCPA	ND	287		µg/Kg	1	10/2/2025 3:55:14 AM
Picloram	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Bentazon	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Chloramben	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Acifluorfen	ND	19.1	Q	µg/Kg	1	10/2/2025 3:55:14 AM
3,5-Dichlorobenzoic acid	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
4-Nitrophenol	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Dacthal (DCPA)	ND	19.1		µg/Kg	1	10/2/2025 3:55:14 AM
Surr: 2,4-Dichlorophenylacetic acid	63.4	11.7 - 155		%Rec	1	10/2/2025 3:55:14 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria (77.5%, nominal 80-120%). Result may be low-biased.

CLIENT: Friedman & Bruya
Project: 509349

Lab ID: 2509599-002

Collection Date: 9/18/2025 9:25:00 AM

Client Sample ID: T14-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
2,4-D	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
2,4-DP	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
2,4,5-TP (Silvex)	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
2,4,5-T	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Dinoseb	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Dalapon	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
2,4-DB	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
MCP	ND	193		µg/Kg	1	10/2/2025 4:11:55 AM
MCPA	ND	290		µg/Kg	1	10/2/2025 4:11:55 AM
Picloram	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Bentazon	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Chloramben	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Acifluorfen	ND	19.3	Q	µg/Kg	1	10/2/2025 4:11:55 AM
3,5-Dichlorobenzoic acid	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
4-Nitrophenol	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Dacthal (DCPA)	ND	19.3		µg/Kg	1	10/2/2025 4:11:55 AM
Surr: 2,4-Dichlorophenylacetic acid	43.6	11.7 - 155		%Rec	1	10/2/2025 4:11:55 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria (77.5%, nominal 80-120%). Result may be low-biased.

CLIENT: Friedman & Bruya
Project: 509349

Lab ID: 2509599-003

Collection Date: 9/18/2025 11:50:00 AM

Client Sample ID: T5-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
2,4-D	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
2,4-DP	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
2,4,5-TP (Silvex)	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
2,4,5-T	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Dinoseb	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Dalapon	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
2,4-DB	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
MCP	ND	200		µg/Kg	1	10/2/2025 4:28:40 AM
MCPA	ND	300		µg/Kg	1	10/2/2025 4:28:40 AM
Picloram	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Bentazon	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Chloramben	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Acifluorfen	ND	20.0	Q	µg/Kg	1	10/2/2025 4:28:40 AM
3,5-Dichlorobenzoic acid	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
4-Nitrophenol	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Dacthal (DCPA)	ND	20.0		µg/Kg	1	10/2/2025 4:28:40 AM
Surr: 2,4-Dichlorophenylacetic acid	72.4	11.7 - 155		%Rec	1	10/2/2025 4:28:40 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria (77.5%, nominal 80-120%). Result may be low-biased.

CLIENT: Friedman & Bruya
Project: 509349

Lab ID: 2509599-004

Collection Date: 9/18/2025 12:37:00 PM

Client Sample ID: T6-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49402

Analyst: CO

Dicamba	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
2,4-D	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
2,4-DP	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
2,4,5-TP (Silvex)	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
2,4,5-T	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Dinoseb	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Dalapon	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
2,4-DB	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
MCP	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
MCPA	ND	288		µg/Kg	1	10/2/2025 5:18:41 AM
Picloram	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Bentazon	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Chloramben	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Acifluorfen	ND	19.2	Q	µg/Kg	1	10/2/2025 5:18:41 AM
3,5-Dichlorobenzoic acid	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
4-Nitrophenol	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Dacthal (DCPA)	ND	19.2		µg/Kg	1	10/2/2025 5:18:41 AM
Surr: 2,4-Dichlorophenylacetic acid	69.4	11.7 - 155		%Rec	1	10/2/2025 5:18:41 AM

NOTES:

Q - Associated calibration verification is below acceptance criteria (77.5%, nominal 80-120%). Result may be low-biased.

Work Order: 2509599
CLIENT: Friedman & Bruya
Project: 509349

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: MB-49402		SampType: MBLK		Units: µg/Kg		Prep Date: 9/26/2025			RunNo: 103465		
Client ID: MBLKS		Batch ID: 49402					Analysis Date: 9/30/2025			SeqNo: 2158433	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	20.0									
2,4-D	ND	20.0									
2,4-DP	ND	20.0									
2,4,5-TP (Silvex)	ND	20.0									
2,4,5-T	ND	20.0									
Dinoseb	ND	20.0									
Dalapon	ND	20.0									
2,4-DB	ND	20.0									
MCP	ND	200									
MCPA	ND	300									
Picloram	ND	20.0									
Bentazon	ND	20.0									
Chloramben	ND	20.0									Q
Acifluorfen	ND	20.0									
3,5-Dichlorobenzoic acid	ND	20.0									
4-Nitrophenol	ND	20.0									
Dacthal (DCPA)	ND	20.0									
Surr: 2,4-Dichlorophenylacetic acid	844		1,000		84.4	5	150				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-49402		SampType: LCS			Units: µg/Kg		Prep Date: 9/26/2025			RunNo: 103465		
Client ID: LCSS		Batch ID: 49402			Analysis Date: 10/2/2025			SeqNo: 2158370				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Dicamba	218	20.0	200.0	0	109	6.87	123				
2,4-D	247	20.0	200.0	0	123	13.2	123				S
2,4-DP	223	20.0	200.0	0	112	17.2	120				
2,4,5-TP (Silvex)	235	20.0	200.0	0	118	22.3	124				
2,4,5-T	202	20.0	200.0	0	101	17.5	122				
Dinoseb	189	20.0	200.0	0	94.5	13	115				
Dalapon	1,160	20.0	1,000	0	116	5.02	155				

Work Order: 2509599
CLIENT: Friedman & Bruya
Project: 509349

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: LCS-49402		SampType: LCS		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: LCSS		Batch ID: 49402				Analysis Date: 10/2/2025		SeqNo: 2158370			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	141	20.0	200.0	0	70.3	40.9	123				
MCP	1,370	200	1,000	0	137	19.2	142				
MCPA	1,090	300	1,000	0	109	6.41	143				
Picloram	229	20.0	200.0	0	114	5.42	148				
Bentazon	201	20.0	200.0	0	100	21.5	133				
Chloramben	199	20.0	200.0	0	99.5	8.88	94.8				S
Acifluorfen	191	20.0	200.0	0	95.7	5.24	110				
3,5-Dichlorobenzoic acid	210	20.0	200.0	0	105	12.3	132				
4-Nitrophenol	149	20.0	200.0	0	74.4	13	148				
Dacthal (DCPA)	220	20.0	200.0	0	110	12.7	122				
Surr: 2,4-Dichlorophenylacetic acid	1,110		1,000		111	11.7	155				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2509599-003AMS		SampType: MS		Units: µg/Kg		Prep Date: 9/26/2025		RunNo: 103465			
Client ID: T5-S-0-1		Batch ID: 49402				Analysis Date: 10/2/2025		SeqNo: 2158374			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	78.1	19.9	199.4	0	39.1	6.87	123				
2,4-D	55.6	19.9	199.4	0	27.9	13.2	123				
2,4-DP	77.0	19.9	199.4	0	38.6	17.2	120				
2,4,5-TP (Silvex)	91.7	19.9	199.4	0	46.0	22.3	124				
2,4,5-T	55.9	19.9	199.4	0	28.0	17.5	122				
Dinoseb	107	19.9	199.4	0	53.7	13	115				
Dalapon	173	19.9	997.0	0	17.3	5.02	155				
2,4-DB	98.2	19.9	199.4	0	49.2	40.9	123				
MCP	839	199	997.0	0	84.2	19.2	142				
MCPA	596	299	997.0	0	59.8	6.41	143				
Picloram	7.56	19.9	199.4	0	3.79	5.42	148				S
Bentazon	97.0	19.9	199.4	0	48.7	21.5	133				
Chloramben	65.6	19.9	199.4	0	32.9	8.88	94.8				
Acifluorfen	64.4	19.9	199.4	0	32.3	5.24	110				

Work Order: 2509599
CLIENT: Friedman & Bruya
Project: 509349

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: 2509599-003AMS		SampType: MS		Units: µg/Kg		Prep Date: 9/26/2025			RunNo: 103465		
Client ID: T5-S-0-1		Batch ID: 49402		Analysis Date: 10/2/2025						SeqNo: 2158374	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	94.0	19.9	199.4	0	47.1	12.3	132				
4-Nitrophenol	85.2	19.9	199.4	0	42.7	13	148				
Dacthal (DCPA)	ND	19.9	199.4	0	0	12.7	122				S
Surr: 2,4-Dichlorophenylacetic acid	696		997.0		69.8	11.7	155				

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2509599-003AMSD	SampType: MSD	Units: µg/Kg			Prep Date: 9/26/2025			RunNo: 103465			
Client ID: T5-S-0-1	Batch ID: 49402				Analysis Date: 10/2/2025			SeqNo: 2158375			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	71.8	20.0	199.8	0	35.9	6.87	123	78.06	8.32	30	
2,4-D	52.8	20.0	199.8	0	26.4	13.2	123	55.59	5.18	30	
2,4-DP	73.2	20.0	199.8	0	36.7	17.2	120	77.03	5.05	30	
2,4,5-TP (Silvex)	84.6	20.0	199.8	0	42.4	22.3	124	91.69	8.01	30	
2,4,5-T	50.0	20.0	199.8	0	25.0	17.5	122	55.91	11.2	30	
Dinoseb	110	20.0	199.8	0	55.1	13	115	107.1	2.83	30	
Dalapon	167	20.0	999.0	0	16.8	5.02	155	172.5	3.01	30	
2,4-DB	79.9	20.0	199.8	0	40.0	40.9	123	98.17	20.6	30	S
MCPP	917	200	999.0	0	91.8	19.2	142	839.1	8.85	30	
MCPA	582	300	999.0	0	58.2	6.41	143	596.0	2.44	30	
Picloram	6.12	20.0	199.8	0	3.06	5.42	148	0		30	S
Bentazon	85.5	20.0	199.8	0	42.8	21.5	133	97.01	12.7	30	
Chloramben	57.3	20.0	199.8	0	28.7	8.88	94.8	65.61	13.5	30	
Acifluorfen	62.4	20.0	199.8	0	31.2	5.24	110	64.42	3.15	30	
3,5-Dichlorobenzoic acid	86.2	20.0	199.8	0	43.1	12.3	132	93.97	8.68	30	
4-Nitrophenol	84.5	20.0	199.8	0	42.3	13	148	85.19	0.761	30	
Dacthal (DCPA)	ND	20.0	199.8	0	0	12.7	122	0		30	S
Surr: 2,4-Dichlorophenylacetic acid	637		999.0		63.7	11.7	155		0		

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Client Name: **FB**
Logged by: **Lyann Rivera**

Work Order Number: **2509599**
Date Received: **9/25/2025 8:00:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Unknown Prior to Receipt Yes ☐ No ☐ NA ☒
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	13.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Page # 1 of 1

email: merdahl@friedmanandbrya.com

TURNAROUND TIME
☒ Standard
 RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

Page 13 of 13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

November 13, 2025

Audrey Hackett, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Hackett:

Included is the amended report from the testing of material submitted on September 30, 2025 from the Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491 project. The percent moisture results have been included in the report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: fbellows@maulfoster.com, Mary Benzinger
MFA1020R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

October 20, 2025

Audrey Hackett, Project Manager
Maul Foster Alongi
2815 2nd Ave, Suite 540
Seattle, WA 98121

Dear Ms Hackett:

Included are the results from the testing of material submitted on September 30, 2025 from the Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491 project. There are 46 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 should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures

c: fbellows@maulfoster.com
MFA1020R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2025 by Friedman & Bruya, Inc. from the Maul Foster Alongi Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Maul Foster Alongi</u>
509491 -01	B55-S-0-1
509491 -02	B55-S-2-4
509491 -03	B55-S-6-8
509491 -04	B55-S-8-10
509491 -05	B55-S-10-15
509491 -06	B33-S-0-1
509491 -07	B33-S-1-2
509491 -08	B33-S-5-8
509491 -09	B33-S-8-10
509491 -10	B33-S-10-15
509491 -11	B12-S-0-1
509491 -12	B12-S-3-5
509491 -13	B12-S-5-10
509491 -14	B12-S-10-15
509491 -15	B21-S-0-1
509491 -16	B21-S-1-5
509491 -17	B21-S-5-8
509491 -18	B21-S-8-10
509491 -19	B21-S-10-15
509491 -20	B22-S-0-1
509491 -21	B22-S-1-5
509491 -22	B22-S-5-8
509491 -23	B22-S-8-10
509491 -24	B22-S-10-15
509491 -25	B44-S-0-1
509491 -26	B44-S-1-5
509491 -27	B44-S-5-7
509491 -28	B44-S-7-10
509491 -29	B44-S-10-15
509491 -30	B45-S-0-1
509491 -31	B45-S-1-5
509491 -32	B45-S-5-7.5
509491 -33	B45-S-5-7.5-DUP
509491 -34	B45-S-7.5-10
509491 -35	B45-S-10-15
509491 -36	B76-S-0-1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE (continued)

<u>Laboratory ID</u>	<u>Maul Foster Alongi</u>
509491 -37	B76-S-1-5
509491 -38	B76-S-5-10
509491 -39	B76-S-10-15
509491 -40	B76-S-10-15-DUP
509491 -41	B50-S-0-1
509491 -42	B50-S-1-5
509491 -43	B50-S-5-7
509491 -44	B50-S-7-10
509491 -45	B50-S-10-12
509491 -46	B50-S-12-15
509491 -47	B50-S-12-15-DUP

Samples B55-S-0-1, B33-S-0-1, B12-S-0-1, B21-S-0-1, B22-S-0-1, B44-S-0-1, B45-S-0-1, B76-S-0-1, B50-S-0-1 were sent to Alliance Technical Group and to Onsite Environmental for herbicide and organophosphorus pesticide testing, respectively. The reports are enclosed.

The 6020B mercury calibration standard exceeded the acceptance criteria for the method blank. The metal was not detected, therefore this did not represent an out of control condition, and were qualified with a “k” qualifier.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: NA

Date Analyzed: 10/06/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
B55-S-0-1 509491-01	11
B55-S-2-4 509491-02	10
B55-S-6-8 509491-03	12
B55-S-8-10 509491-04	23
B55-S-10-15 509491-05	29
B33-S-0-1 509491-06	13
B33-S-1-2 509491-07	18
B33-S-5-8 509491-08	20
B33-S-8-10 509491-09	23
B33-S-10-15 509491-10	23
B12-S-0-1 509491-11	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

B12-S-3-5
509491-12

9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: NA

Date Analyzed: 10/06/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
B12-S-5-10 509491-13	16
B12-S-10-15 509491-14	18
B21-S-0-1 509491-15	12
B21-S-1-5 509491-16	17
B21-S-5-8 509491-17	26
B21-S-8-10 509491-18	25
B21-S-10-15 509491-19	24
B22-S-0-1 509491-20	12
B22-S-1-5 509491-21	8
B22-S-5-8 509491-22	15
B22-S-8-10 509491-23	17

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: NA

Date Analyzed: 10/06/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
B44-S-0-1 509491-25	8
B44-S-1-5 509491-26	11
B44-S-5-7 509491-27	18
B44-S-7-10 509491-28	22
B44-S-10-15 509491-29	26
B45-S-0-1 509491-30	10
B45-S-1-5 509491-31	14
B45-S-5-7.5 509491-32	22
B45-S-5-7.5-DUP 509491-33	20
B45-S-7.5-10 509491-34	25
B45-S-10-15 509491-35	25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

B76-S-0-1
509491-36

9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: NA

Date Analyzed: 10/06/25

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES
FOR PERCENT MOISTURE
USING ASTM D2216-98**

<u>Sample ID</u> Laboratory ID	<u>% Moisture</u>
B76-S-1-5 509491-37	16
B76-S-5-10 509491-38	23
B76-S-10-15 509491-39	27
B76-S-10-15-DUP 509491-40	25
B50-S-0-1 509491-41	13
B50-S-1-5 509491-42	13
B50-S-5-7 509491-43	25
B50-S-7-10 509491-44	25
B50-S-10-12 509491-45	30
B50-S-12-15 509491-46	29
B50-S-12-15-DUP 509491-47	29

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25 and 10/08/25 and 10/09/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
Laboratory ID		
B55-S-0-1 509491-01	<5	113
B55-S-2-4 509491-02	<5	108
B55-S-6-8 509491-03	<5	114
B55-S-8-10 509491-04	<5	113
B55-S-10-15 509491-05	<5	111
B33-S-0-1 509491-06	<5	112
B33-S-1-2 509491-07	<5	111
B33-S-5-8 509491-08	<5	112
B33-S-8-10 509491-09	<5	112
B33-S-10-15 509491-10	<5	110
B12-S-0-1 509491-11	<5	114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25 and 10/08/25 and 10/09/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
B12-S-3-5 509491-12	<5	112
B12-S-5-10 509491-13	<5	113
B12-S-10-15 509491-14	<5	113
B21-S-0-1 509491-15	<5	112
B21-S-1-5 509491-16	<5	115
B21-S-5-8 509491-17	<5	112
B21-S-8-10 509491-18	<5	112
B21-S-10-15 509491-19	<5	112
B22-S-0-1 509491-20	<5	113
B22-S-1-5 509491-21	<5	113
B22-S-5-8 509491-22	<5	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25 and 10/08/25 and 10/09/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Gasoline Range</u>	Surrogate (% Recovery)
Laboratory ID		(Limit 50-150)
B22-S-8-10 509491-23	<5	115
B22-S-10-15 509491-24	<5	113
B44-S-0-1 509491-25	<5	119
B44-S-1-5 509491-26	<5	116
B44-S-5-7 509491-27	<5	114
B44-S-7-10 509491-28	<5	117
B44-S-10-15 509491-29	<5	117
B45-S-0-1 509491-30	<5	116
B45-S-1-5 509491-31	<5	116
B45-S-5-7.5 509491-32	<5	116
B45-S-5-7.5-DUP 509491-33	<5	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25 and 10/08/25 and 10/09/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Gasoline Range</u>	Surrogate (% Recovery)
Laboratory ID		(Limit 50-150)
B45-S-7.5-10 509491-34	<5	118
B45-S-10-15 509491-35	<5	116
B76-S-0-1 509491-36	<5	115
B76-S-1-5 509491-37	<5	113
B76-S-5-10 509491-38	<5	115
B76-S-10-15 509491-39	<5	113
B76-S-10-15-DUP 509491-40	<5	117
B50-S-0-1 509491-41	<5	114
B50-S-1-5 509491-42	<5	112
B50-S-5-7 509491-43	<5	108
B50-S-7-10 509491-44	<5	109

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25 and 10/08/25 and 10/09/25

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
B50-S-10-12 509491-45	<5	106
B50-S-12-15 509491-46	<5	112
B50-S-12-15-DUP 509491-47	<5	112
Method Blank 05-2510 MB	<5	115
Method Blank 05-2511 MB	<5	116
Method Blank 05-2512 MB	<5	117

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B55-S-0-1 509491-01	<50	<200	100
B55-S-2-4 509491-02	<50	<200	100
B55-S-6-8 509491-03	<50	<200	97
B55-S-8-10 509491-04	<50	<200	98
B55-S-10-15 509491-05	<50	<200	98
B33-S-0-1 509491-06	<50	<200	100
B33-S-1-2 509491-07	<50	<200	100
B33-S-5-8 509491-08	<50	<200	96
B33-S-8-10 509491-09	<50	<200	100
B33-S-10-15 509491-10	<50	<200	100
B12-S-0-1 509491-11	<50	<200	101

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B12-S-3-5 509491-12	<50	<200	100
B12-S-5-10 509491-13	<50	<200	97
B12-S-10-15 509491-14	<50	<200	100
B21-S-0-1 509491-15	<50	<200	99
B21-S-1-5 509491-16	<50	<200	99
B21-S-5-8 509491-17	<50	<200	100
B21-S-8-10 509491-18	<50	<200	99
B21-S-10-15 509491-19	<50	<200	98
B22-S-0-1 509491-20	<50	<200	99
B22-S-1-5 509491-21	<50	<200	100
B22-S-5-8 509491-22	<50	<200	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B22-S-8-10 509491-23	<50	<200	99
B22-S-10-15 509491-24	<50	<200	99
B44-S-0-1 509491-25	<50	<200	101
B44-S-1-5 509491-26	<50	<200	99
B44-S-5-7 509491-27	<50	<200	99
B44-S-7-10 509491-28	<50	<200	97
B44-S-10-15 509491-29	<50	<200	98
B45-S-0-1 509491-30	<50	<200	99
B45-S-1-5 509491-31	<50	<200	97
B45-S-5-7.5 509491-32	<50	<200	99
B45-S-5-7.5-DUP 509491-33	<50	<200	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B45-S-7.5-10 509491-34	<50	<200	98
B45-S-10-15 509491-35	<50	<200	98
B76-S-0-1 509491-36	<50	<200	96
B76-S-1-5 509491-37	<50	<200	99
B76-S-5-10 509491-38	<50	<200	97
B76-S-10-15 509491-39	<50	<200	96
B76-S-10-15-DUP 509491-40	<50	<200	99
B50-S-0-1 509491-41	<50	<200	98
B50-S-1-5 509491-42	<50	<200	97
B50-S-5-7 509491-43	<50	<200	98
B50-S-7-10 509491-44	<50	<200	97
B50-S-10-12 509491-45	<50	<200	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

Date Extracted: 10/06/25

Date Analyzed: 10/06/25 and 10/07/25

**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	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B50-S-12-15 509491-46	<50	<200	97
B50-S-12-15-DUP 509491-47	<50	<200	94
Method Blank 05-2542 MB	<50	<200	101
Method Blank 05-2543 MB	<50	<200	101
Method Blank 05-2544 MB	<50	<200	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B55-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-01
Date Analyzed:	10/03/25	Data File:	509491-01.209
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.4
Barium	37
Cadmium	<1
Chromium	12
Lead	9.9
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B33-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-06
Date Analyzed:	10/03/25	Data File:	509491-06.210
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.1
Barium	39
Cadmium	<1
Chromium	9.2
Lead	15
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B12-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-11
Date Analyzed:	10/03/25	Data File:	509491-11.211
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	5.1
Barium	36
Cadmium	<1
Chromium	11
Lead	12
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B21-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-15
Date Analyzed:	10/03/25	Data File:	509491-15.212
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.2
Barium	32
Cadmium	<1
Chromium	10
Lead	12
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B22-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-20
Date Analyzed:	10/03/25	Data File:	509491-20.213
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	6.4
Barium	59
Cadmium	<1
Chromium	12
Lead	47
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B44-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-25
Date Analyzed:	10/03/25	Data File:	509491-25.214
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.0
Barium	34
Cadmium	<1
Chromium	10
Lead	10
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B45-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-30
Date Analyzed:	10/03/25	Data File:	509491-30.217
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.6
Barium	38
Cadmium	<1
Chromium	11
Lead	8.2
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B76-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-36
Date Analyzed:	10/03/25	Data File:	509491-36.218
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	3.3
Barium	32
Cadmium	<1
Chromium	12
Lead	7.5
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	B50-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	509491-41
Date Analyzed:	10/03/25	Data File:	509491-41.219
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
----------	------------------------------

Arsenic	4.0
Barium	58
Cadmium	<1
Chromium	12
Lead	11
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	NA	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/03/25	Lab ID:	I5-855 mb
Date Analyzed:	10/03/25	Data File:	I5-855 mb.105
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1 k
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B55-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-01 1/30
Date Analyzed:	10/08/25	Data File:	100814.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	68	20	134
Decachlorobiphenyl	82	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B33-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-06 1/30
Date Analyzed:	10/08/25	Data File:	100815.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	60	20	134
Decachlorobiphenyl	75	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B12-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-11 1/30
Date Analyzed:	10/08/25	Data File:	100816.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	58	20	134
Decachlorobiphenyl	70	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B21-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-15 1/30
Date Analyzed:	10/08/25	Data File:	100817.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	57	20	134
Decachlorobiphenyl	72	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B22-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-20 1/30
Date Analyzed:	10/08/25	Data File:	100818.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	67	20	134
Decachlorobiphenyl	90	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B44-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-25 1/30
Date Analyzed:	10/08/25	Data File:	100819.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	51	20	134
Decachlorobiphenyl	70	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B45-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-30 1/30
Date Analyzed:	10/08/25	Data File:	100820.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	59	20	134
Decachlorobiphenyl	73	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
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alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B76-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-36 1/30
Date Analyzed:	10/08/25	Data File:	100821.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	55	20	134
Decachlorobiphenyl	67	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	B50-S-0-1	Client:	Maul Foster Alongi
Date Received:	09/30/25	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	509491-41 1/30
Date Analyzed:	10/08/25	Data File:	100822.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	58	20	134
Decachlorobiphenyl	77	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Organochlorine Pesticides By EPA Method 8081B

Client Sample ID:	Method Blank	Client:	Maul Foster Alongi
Date Received:	Not Applicable	Project:	Port of Tacoma Parcel 12
Date Extracted:	10/07/25	Lab ID:	05-2254 mb2 1/30
Date Analyzed:	10/08/25	Data File:	100807.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	83	20	134
Decachlorobiphenyl	102	20	139

Compounds:	Concentration mg/kg (ppm) Dry Weight
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alpha-BHC	<0.01
gamma-BHC (Lindane)	<0.01
beta-BHC	<0.01
delta-BHC	<0.01
Heptachlor	<0.01
Aldrin	<0.01
Heptachlor Epoxide	<0.01
trans-Chlordane	<0.01
cis-Chlordane	<0.01
4,4'-DDE	<0.01
Endosulfan I	<0.01
Dieldrin	<0.01
Endrin	<0.01
4,4'-DDD	<0.01
Endosulfan II	<0.01
4,4'-DDT	<0.01
Endrin Aldehyde	<0.01
Methoxychlor	<0.01
Endosulfan Sulfate	<0.01
Endrin Ketone	<0.01
Toxaphene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 509491-41 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	102	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 509491-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	105	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 509491-21 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	107	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 510084-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	108	63-146	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	77-123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 509491-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	108	110	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	77-123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

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

Laboratory Code: 509491-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	110	108	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	77-123

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 510047-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	3.61	113 b	123 b	75-125	8 b
Barium	mg/kg (ppm)	50	17.1	113 b	98 b	75-125	14 b
Cadmium	mg/kg (ppm)	10	<1	97	99	75-125	2
Chromium	mg/kg (ppm)	50	12.0	94 b	96 b	75-125	2 b
Lead	mg/kg (ppm)	50	10.0	92	100	75-125	8
Mercury	mg/kg (ppm)	5	2.69	63 b	106 b	75-125	51 b
Selenium	mg/kg (ppm)	5	<1	100	104	75-125	4
Silver	mg/kg (ppm)	10	<1	98	101	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	115	80-120
Barium	mg/kg (ppm)	50	101	80-120
Cadmium	mg/kg (ppm)	10	100	80-120
Chromium	mg/kg (ppm)	50	111	80-120
Lead	mg/kg (ppm)	50	99	80-120
Mercury	mg/kg (ppm)	5	108	80-120
Selenium	mg/kg (ppm)	5	105	80-120
Silver	mg/kg (ppm)	10	104	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR ORGANOCHLORINE PESTICIDES BY EPA METHOD 8081B

Laboratory Code: 510100-01 1/30 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
alpha-BHC	mg/kg (ppm)	0.1	<0.01	64	66	17-122	3
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	<0.01	62	63	18-128	2
beta-BHC	mg/kg (ppm)	0.1	<0.01	55	56	17-130	2
delta-BHC	mg/kg (ppm)	0.1	<0.01	63	64	20-124	2
Heptachlor	mg/kg (ppm)	0.1	<0.01	61	61	15-133	0
Aldrin	mg/kg (ppm)	0.1	<0.01	57	59	26-125	3
Heptachlor Epoxide	mg/kg (ppm)	0.1	<0.01	56	59	19-132	5
trans-Chlordane	mg/kg (ppm)	0.1	<0.01	60	62	15-157	3
cis-Chlordane	mg/kg (ppm)	0.1	<0.01	53	55	17-133	4
4,4'-DDE	mg/kg (ppm)	0.1	<0.01	53	55	17-139	4
Endosulfan I	mg/kg (ppm)	0.1	<0.01	55	57	19-130	4
Dieldrin	mg/kg (ppm)	0.1	0.011	43	45	17-140	5
Endrin	mg/kg (ppm)	0.1	<0.01	64	65	20-143	2
4,4'-DDD	mg/kg (ppm)	0.1	<0.01	53	56	20-143	6
Endosulfan II	mg/kg (ppm)	0.1	<0.01	50	53	21-133	6
4,4'-DDT	mg/kg (ppm)	0.1	<0.01	45	45	10-385	0
Endrin Aldehyde	mg/kg (ppm)	0.1	<0.01	51	53	12-123	4
Methoxychlor	mg/kg (ppm)	0.1	<0.01	52	50	10-226	4
Endosulfan Sulfate	mg/kg (ppm)	0.1	<0.01	50	52	17-134	4
Endrin Ketone	mg/kg (ppm)	0.1	<0.01	47	49	10-153	4
Toxaphene	mg/kg (ppm)	4	<0.1	31	27	12-123	14

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/25

Date Received: 09/30/25

Project: Port of Tacoma Parcel 12 M0615.34.002, F&BI 509491

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
ORGANOCHLORINE PESTICIDES
BY EPA METHOD 8081B**

Laboratory Code: Laboratory Control Sample 1/30

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
alpha-BHC	mg/kg (ppm)	0.1	86	57-116
gamma-BHC (Lindane)	mg/kg (ppm)	0.1	86	59-118
beta-BHC	mg/kg (ppm)	0.1	84	63-113
delta-BHC	mg/kg (ppm)	0.1	87	58-124
Heptachlor	mg/kg (ppm)	0.1	84	60-117
Aldrin	mg/kg (ppm)	0.1	81	63-113
Heptachlor Epoxide	mg/kg (ppm)	0.1	82	70-130
trans-Chlordane	mg/kg (ppm)	0.1	83	70-130
cis-Chlordane	mg/kg (ppm)	0.1	81	70-130
4,4'-DDE	mg/kg (ppm)	0.1	86	69-121
Endosulfan I	mg/kg (ppm)	0.1	82	70-130
Dieldrin	mg/kg (ppm)	0.1	83	70-130
Endrin	mg/kg (ppm)	0.1	95	65-140
4,4'-DDD	mg/kg (ppm)	0.1	85	70-130
Endosulfan II	mg/kg (ppm)	0.1	82	70-130
4,4'-DDT	mg/kg (ppm)	0.1	90	57-135
Endrin Aldehyde	mg/kg (ppm)	0.1	81	25-133
Methoxychlor	mg/kg (ppm)	0.1	90	57-147
Endosulfan Sulfate	mg/kg (ppm)	0.1	83	70-130
Endrin Ketone	mg/kg (ppm)	0.1	79	70-130
Toxaphene	mg/kg (ppm)	4	85	53-143

FRIEDMAN & BRUYA, INC.

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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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.

509491

SAMPLE CHAIN OF CUSTODY

09/30/05

04/413

Report To **Audrey Hackett**

Company **Maul Foster Alongi**

Address **2815 2nd Avenue, Suite 540**

City, State, ZIP **Seattle WA 98121**

Phone **206-331-1835** Email **ahackett@maulfoster.com**

SAMPLERS (signature)

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: **fbellows@maulfoster.com**
Project Specific RIs - Yes / **No**

INVOICE TO

accounting@maulfoster.com

Page # **1** of **5**

TURNAROUND TIME
Standard Turnaround
ROSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days
Archive Samples
Other:

						ANALYSES REQUESTED												
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organo-chlorine+phosphorous)	HOLD	Notes	
B55-S-0-1	01 A-D	09/29/25	0925	SO	4	X	X						X	X	X	X		
B55-S-2-4	02	09/29/25	0938	SO	1	X	X									X		
B55-S-6-8	03	09/29/25	1442	SO		X	X										X	
B55-S-8-10	04	09/29/25	1445	SO		X	X										X	
B55-S-10-15	05	09/29/25	1450	SO		X	X										X	
B33-S-0-1	06	09/29/25	1500	SO		X	X						X	X	X	X		
B33-S-1-2	07	09/29/25	1505	SO		X	X										X	
B33-S-5-8	08	09/29/25	1510	SO		X	X										X	
B33-S-8-10	09	09/29/25	1515	SO		X	X										X	
B33-S-10-15	10 1	09/29/25	1517	SO	1	X	X										X	

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Fiona Bellows

MFA

9/30/05 0915

Received by:

Eric Fournier

9/30/05 0915

Relinquished by:

Received by:

Samples received at 4

C

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

509491

SAMPLE CHAIN OF CUSTODY

09/30/05

04/H3

Page # 2 of 5

Report To **Audrey Hackett**Company **Maul Foster Alongi**Address **2815 2nd Avenue, Suite 540**City, State, ZIP **Seattle WA 98121**Phone **206-331-1835** Email **ahackett@maulfoster.com**SAMPLERS (signature) 

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: **fbellows@maulfoster.com**Project Specific RIs - Yes ☒ No ☐

INVOICE TO

accounting@maulfoster.com

TURNAROUND TIME
Standard Turnaround
RUSH
Rush charges authorized by: _____SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organo-chlorine+phosphorous)	HOLD			
B12-S-0-1	11 A-D	09/29/25	1536	SO	4	X	X							X	X	X	X		
B12-S-3-5	12	09/29/25	1535	SO	1	X	X										X		
B12-S-5-10	13	09/29/25	1538	SO		X	X											X	
B12-S-10-15	14	09/29/25	1540	SO		X	X											X	
B21-S-0-1	15	09/29/25	1545	SO		X	X							X	X	X		X	
B21-S-1-5	16	09/29/25	1547	SO	1	X	X										X		
B21-S-5-8	17	09/29/25	1550	SO		X	X											X	
B21-S-8-10	18	09/29/25	1552	SO		X	X											X	
B21-S-10-15	19	09/29/25	1555	SO		X	X											X	
B22-S-0-1	20	09/29/25	1610	SO	1	X	X							X	X	X	X		

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

Relinquished by: 

Fiona Bellows

MFA

9/30/05

0915

Received by: Relinquished by: 

Fiona Bellows

F-B

9/30/05

0915

Received by: _____

Samples received at 4

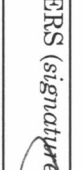
509491

SAMPLE CHAIN OF CUSTODY

09/30/25

04/43

Page # 3 of 5

Report To Audrey HackettCompany Maul Foster AlongiAddress 2815 2nd Avenue, Suite 540City, State, ZIP Seattle WA 98121Phone 206-331-1835 Email ahackett@maulfoster.comSAMPLERS (signature) 

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: fbellows@maulfoster.comProject Specific RIs - Yes / No

INVOICE TO

accounting@maulfoster.com

Rush charges authorized by:

Standard Turnaround
RUSH

SAMPLE DISPOSAL

Dispose after 30 days
Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organochlorine+phosphorous)	
B22-S-1-5	21 A-D	09/29/25	1612	SO	4	X	X								X	
B22-S-5-8	22	09/29/25	1615	SO		X	X								X	
B22-S-8-1D	23	09/29/25	1617	SO		X	X								X	
B22-S-10-15	24	09/29/25	1620	SO		X	X								X	
B44-S-0-1	25	09/29/25	1625	SO		X	X						X	X	X	
B44-S-1-5	26	09/29/25	1628	SO		X	X								X	
B44-S-5-7	27	09/29/25	1631	SO		X	X								X	
B44-S-7-1D	28	09/29/25	1634	SO		X	X								X	
B44-S-10-15	29	09/29/25	1637	SO		X	X								X	
B45-S-0-1	30	09/29/25	1645	SO		X	X						X	X	X	

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

FORMS\CO.C\COG.DOC

Relinquished by:

Received by:

Fiona Bellows

MFA

Relinquished by:



F4B

9/30/25 9:15

Received by:

Samples received at 4

C

509491

SAMPLE CHAIN OF CUSTODY

09/30/25

N4/H3

5 5

Report To **Audrey Hackett**

Company **Maul Foster Alongi**

Address **2815 2nd Avenue, Suite 540**

City, State, ZIP **Seattle WA 98121**

Phone **206-331-1835** Email **ahackett@maulfoster.com**

SAMPLERS (signature)

PROJECT NAME

Port of Tacoma Parcel 12

PO #

M0615.34.002

REMARKS

cc: **fbellows@maulfoster.com**
Project Specific RIs - Yes **No**

INVOICE TO

accounting@maulfoster.com

Page # 5 of 5

TURNAROUND TIME
Standard Turnaround

RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days

Archive Samples
Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020B	RCRA 8 Metals	Herbicides	Pesticides (organochlorine+phosphorus)	
BSD-S-0-1	41 A.D	09/29/25	1720	SO	4	X	X						X	X	X	
BSD-S-1-5	42	09/29/25	1723	SO	1	X	X								X	
BSD-S-5-7	43	09/29/25	1726	SO	1	X	X								X	
BSD-S-7-10	44	09/29/25	1729	SO	1	X	X								X	
BSD-S-10-12	45	09/29/25	1732	SO	1	X	X								X	
BSD-S-12-15	46	09/29/25	1735	SO	1	X	X								X	
BSD-S-12-15-DUP	47	09/29/25	1735	SO	1	X	X								X	
		09/ 25		SO												
		09/ 25		SO												
		09/ 25		SO												
		09/ 25		SO												
		09/ 25		SO												

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Fiona Bellows

MFA

9/30/25

0915

Received by:

Eric Young

ECB

9/30/25

0925

Relinquished by:

Received by:

Samples received at 4 °C

Friedman & Bruya, Inc.

5500 4th Avenue S

Seattle, WA 98108

Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # SO9491 CLIENT MTA INITIALS/DATE (signature) 9/30/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature _____ °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☒ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/Date: (signature) 9/30

*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	_____	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	_____	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	_____	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	_____	
Relinquished	☒ Yes ☐ No	_____	
Requested analysis	☐ Yes ☒ On Hold	_____	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☒ NA ☐ YES ☐ NO

Number of unused TO15 canisters* _____ Number of unused TO17 tubes _____

*Fill out Green manifolds billing sheet



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 13, 2025

Michael Erdahl
Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108

Re: Analytical Data for Project 509491
Laboratory Reference No. 2510-065

Dear Michael:

Enclosed are the analytical results and associated quality control data for samples submitted on October 3, 2025.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 13, 2025
Samples Submitted: October 3, 2025
Laboratory Reference: 2510-065
Project: 509491

Case Narrative

Samples were collected on September 29, 2025 and received by the laboratory on October 3, 2025. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organophosphorus Pesticides by EPA 8270/SIM Analysis

Samples B55-S-0-1, B21-S-0-1, B22-S-0-1, B44-S-0-1, B45-S-0-1, B76-S-0-1, and B50-S-0-1 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B55-S-0-1					
Laboratory ID:	10-065-01					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>85</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>139</i>	<i>66-133</i>				Q



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B33-S-0-1					
Laboratory ID:	10-065-02					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.058	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.058	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.058	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>96</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>111</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B12-S-0-1					
Laboratory ID:	10-065-03					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>107</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>97</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-S-0-1					
Laboratory ID:	10-065-04					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>171</i>	<i>39-158</i>				Q
<i>Triphenyl phosphate</i>	<i>103</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B22-S-0-1					
Laboratory ID:	10-065-05					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>258</i>	<i>39-158</i>				Q
<i>Triphenyl phosphate</i>	<i>105</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B44-S-0-1					
Laboratory ID:	10-065-06					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.015	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>272</i>	<i>39-158</i>				Q
<i>Triphenyl phosphate</i>	<i>110</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B45-S-0-1					
Laboratory ID:	10-065-07					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.056	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>280</i>	<i>39-158</i>				Q
<i>Triphenyl phosphate</i>	<i>103</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B76-S-0-1					
Laboratory ID:	10-065-08					
Dichlorvos(DDVP)	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.015	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.055	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.022	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>283</i>	<i>39-158</i>				Q
<i>Triphenyl phosphate</i>	<i>101</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B50-S-0-1					
Laboratory ID:	10-065-09					
Dichlorvos(DDVP)	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.016	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.057	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.023	EPA 8270E/SIM	10-7-25	10-10-25	
Surrogate:	Percent Recovery	Control Limits				
<i>Tributyl phosphate</i>	273	39-158				Q
<i>Triphenyl phosphate</i>	94	66-133				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1007S2					
Dichlorvos(DDVP)	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Mevinphos/Phosdrin	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Ethoprophos	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Monocrotophos	ND	0.050	EPA 8270E/SIM	10-7-25	10-10-25	
Naled	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Sulfotepp	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Phorate	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Dimethoate	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Demeton-S	ND	0.014	EPA 8270E/SIM	10-7-25	10-10-25	
Diazinon	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Disulfoton	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-methyl	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Fenchlorphos/Ronnel	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Malathion	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Fenthion	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Parathion-ethyl	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Chlorpyrifos/Dursban	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Trichloronate	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Stirofos/Tetrachlorvinphos	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Tokuthion/Prothiofos	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Merphos&Merphos-oxone	ND	0.050	EPA 8270E/SIM	10-7-25	10-10-25	
Fensulfothion	ND	0.050	EPA 8270E/SIM	10-7-25	10-10-25	
Bolstar/Sulprofos	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
EPN	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Azinphos-methyl/Guthion	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
Coumaphos	ND	0.020	EPA 8270E/SIM	10-7-25	10-10-25	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Tributyl phosphate</i>	<i>81</i>	<i>39-158</i>				
<i>Triphenyl phosphate</i>	<i>111</i>	<i>66-133</i>				



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

**ORGANOPHOSPHORUS
 PESTICIDES EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1007S2									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorvos(DDVP)	0.0956	0.0981	0.100	0.100	96	98	62-132	3	22	
Mevinphos/Phosdrin	0.0986	0.0992	0.100	0.100	99	99	47-136	1	21	
Ethoprophos	0.0921	0.0942	0.100	0.100	92	94	58-132	2	25	
Sulfotepp	0.0665	0.0714	0.100	0.100	67	71	65-122	7	40	
Phorate	0.108	0.112	0.100	0.100	108	112	61-128	4	32	
Dimethoate	0.131	0.129	0.100	0.100	131	129	49-139	2	26	
Demeton-S	0.0451	0.0514	0.0700	0.0700	64	73	56-133	13	31	
Diazinon	0.109	0.109	0.100	0.100	109	109	60-134	0	27	
Disulfoton	0.0788	0.0794	0.100	0.100	79	79	56-132	1	24	
Parathion-methyl	0.122	0.116	0.100	0.100	122	116	61-133	5	28	
Fenchlorphos/Ronnel	0.0978	0.101	0.100	0.100	98	101	66-126	3	21	
Malathion	0.0957	0.0991	0.100	0.100	96	99	69-143	3	19	
Fenthion	0.106	0.109	0.100	0.100	106	109	66-127	3	20	
Parathion-ethyl	0.0956	0.102	0.100	0.100	96	102	66-131	6	21	
Chlorpyrifos/Dursban	0.106	0.102	0.100	0.100	106	102	69-124	4	20	
Trichloronate	0.105	0.108	0.100	0.100	105	108	68-126	3	21	
Stirofos/Tetrachlorvinphos	0.104	0.104	0.100	0.100	104	104	54-164	0	24	
Tokuthion/Prothiofos	0.103	0.105	0.100	0.100	103	105	68-129	2	21	
Fensulfothion	0.0953	0.0949	0.100	0.100	95	95	55-158	0	21	
Bolstar/Sulprofos	0.106	0.105	0.100	0.100	106	105	65-131	1	21	
EPN	0.101	0.103	0.100	0.100	101	103	65-136	2	23	
Azinphos-methyl/Guthion	0.106	0.106	0.100	0.100	106	106	63-161	0	22	
Coumaphos	0.104	0.113	0.100	0.100	104	113	57-163	8	26	
Surrogate:										
Tributyl phosphate					75	81	39-158			
Triphenyl phosphate					101	104	66-133			



Date of Report: October 13, 2025
 Samples Submitted: October 3, 2025
 Laboratory Reference: 2510-065
 Project: 509491

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B55-S-0-1	10-065-01	11	10-7-25
B33-S-0-1	10-065-02	13	10-7-25
B12-S-0-1	10-065-03	11	10-7-25
B21-S-0-1	10-065-04	11	10-7-25
B22-S-0-1	10-065-05	12	10-7-25
B44-S-0-1	10-065-06	9	10-7-25
B45-S-0-1	10-065-07	10	10-7-25
B76-S-0-1	10-065-08	9	10-7-25
B50-S-0-1	10-065-09	12	10-7-25





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- X2 - Sample extract treated with a silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

email: merdahl@friedmanandbruya.com

SUBCONTRACTER Onsite		10-065	
PROJECT NAME/NO.	509491	PO #	F-490
REMARKS EQUIS 4			

Page # 1 of 1

TURNAROUND TIME

☒ Standard
RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED										Notes
						organophosphorus pesticides										
B55-S-0-1	1	9/29/2025	925	soil	1	x										Samples 2-9
B33-S-0-1	2	9/29/2025	1500	soil	1	x										
B12-S-0-1	3	9/29/2025	1530	soil	1	x										
B21-S-0-1	4	9/29/2025	1545	soil	1	x										
B22-S-0-1	5	9/29/2025	1610	soil	1	x										
B44-S-0-1	6	9/29/2025	1625	soil	1	x										
B45-S-0-1	7	9/29/2025	1645	soil	1	x										
B76-S-0-1	8	9/29/2025	1700	soil	1	x										
B50-S-0-1	9	9/29/2025	1720	soil	1	x										

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
		Michael Erdahl		Friedman & Bruya		10/3/15		0804	
Received by:						10/3/15		1530	
Relinquished by:									
Received by:									

Sample/Cooler Receipt and Acceptance Checklist

Client: FB1
 Client Project Name/Number: 509491
 OnSite Project Number: 10-065

Initiated by: AMV
 Date Initiated: 10/3/25

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	☒ No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	☒ N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	☒ N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	☒ Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	☒ Yes	No	Temperature: <u>5</u>				
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	☒ N/A					
1.7 How were the samples delivered?	☒ Client	☐ Courier	☐ UPS/FedEx	☐ OSE Pickup	☐ Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	☒ Yes	No	1	2	3	4
2.2 Was the COC legible and written in permanent ink?	☒ Yes	No	1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	☒ Yes	No	1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	☒ Yes	No	1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	☒ Yes	No	1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	☒ No	1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	☒ No	1	2	3	4	
3.2 Were any sample labels missing or illegible?	Yes	☒ No	1	2	3	4	
3.3 Have the correct containers been used for each analysis requested?	☒ Yes	No	1	2	3	4	
3.4 Have the samples been correctly preserved?	Yes	No	☒ N/A	1	2	3	4
3.5 Are volatile samples free from headspace and bubbles greater than 6mm?	Yes	No	☒ N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	☒ Yes	No	1	2	3	4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	☒ No	1	2	3	4	
3.8 Was method 5035A used?	Yes	No	☒ N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#	☒ N/A	1	2	3	4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

Friedman & Bruya

Michael Erdahl

5500 4th Ave S

Seattle, WA 98108

RE: 509491,

Work Order Number: 2510110

October 17, 2025

Attention Michael Erdahl:

Alliance Technical Group, LLC - Seattle received 9 sample(s) on 10/3/2025 for the analyses presented in the following report.

Herbicides by EPA 8151A

Sample Moisture (Percent Moisture)

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,



Lyann Rivera

Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



Original

CLIENT: Friedman & Bruya
Project: 509491
Work Order: 2510110

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2510110-001	B55-S-0-1	09/29/2025 9:25 AM	10/03/2025 10:55 AM
2510110-002	B33-S-0-1	09/29/2025 3:00 PM	10/03/2025 10:55 AM
2510110-003	B12-S-0-1	09/29/2025 3:30 PM	10/03/2025 10:55 AM
2510110-004	B21-S-0-1	09/29/2025 3:45 PM	10/03/2025 10:55 AM
2510110-005	B22-S-0-1	09/29/2025 4:10 PM	10/03/2025 10:55 AM
2510110-006	B44-S-0-1	09/29/2025 4:25 PM	10/03/2025 10:55 AM
2510110-007	B45-S-0-1	09/29/2025 4:45 PM	10/03/2025 10:55 AM
2510110-008	B76-S-0-1	09/29/2025 5:00 PM	10/03/2025 10:55 AM
2510110-009	B50-S-0-1	09/29/2025 5:20 PM	10/03/2025 10:55 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Friedman & Bruya

Project: 509491

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-001

Collection Date: 9/29/2025 9:25:00 AM

Client Sample ID: B55-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
2,4-D	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
2,4-DP	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
2,4,5-TP (Silvex)	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
2,4,5-T	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Dinoseb	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Dalapon	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
2,4-DB	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
MCPP	ND	232		µg/Kg-dry	1	10/10/2025 6:26:34 AM
MCPA	ND	348		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Picloram	ND	23.2	Q	µg/Kg-dry	1	10/10/2025 6:26:34 AM
Bentazon	ND	23.2	Q	µg/Kg-dry	1	10/10/2025 6:26:34 AM
Chloramben	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Acifluorfen	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
3,5-Dichlorobenzoic acid	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
4-Nitrophenol	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Dacthal (DCPA)	ND	23.2		µg/Kg-dry	1	10/10/2025 6:26:34 AM
Surr: 2,4-Dichlorophenylacetic acid	82.8	11.7 - 155		%Rec	1	10/10/2025 6:26:34 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	11.2	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-002

Collection Date: 9/29/2025 3:00:00 PM

Client Sample ID: B33-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
2,4-D	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
2,4-DP	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
2,4,5-TP (Silvex)	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
2,4,5-T	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Dinoseb	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Dalapon	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
2,4-DB	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
MCP	ND	228		µg/Kg-dry	1	10/10/2025 6:43:02 AM
MCPA	ND	342		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Picloram	ND	22.8	Q	µg/Kg-dry	1	10/10/2025 6:43:02 AM
Bentazon	ND	22.8	Q	µg/Kg-dry	1	10/10/2025 6:43:02 AM
Chloramben	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Acifluorfen	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
3,5-Dichlorobenzoic acid	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
4-Nitrophenol	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Dacthal (DCPA)	ND	22.8		µg/Kg-dry	1	10/10/2025 6:43:02 AM
Surr: 2,4-Dichlorophenylacetic acid	52.4	11.7 - 155		%Rec	1	10/10/2025 6:43:02 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	12.5	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-003

Collection Date: 9/29/2025 3:30:00 PM

Client Sample ID: B12-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
2,4-D	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
2,4-DP	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
2,4,5-TP (Silvex)	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
2,4,5-T	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Dinoseb	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Dalapon	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
2,4-DB	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
MCPP	ND	222		µg/Kg-dry	1	10/10/2025 6:59:26 AM
MCPA	ND	333		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Picloram	ND	22.2	Q	µg/Kg-dry	1	10/10/2025 6:59:26 AM
Bentazon	ND	22.2	Q	µg/Kg-dry	1	10/10/2025 6:59:26 AM
Chloramben	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Acifluorfen	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
3,5-Dichlorobenzoic acid	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
4-Nitrophenol	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Dacthal (DCPA)	ND	22.2		µg/Kg-dry	1	10/10/2025 6:59:26 AM
Surr: 2,4-Dichlorophenylacetic acid	51.9	11.7 - 155		%Rec	1	10/10/2025 6:59:26 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	11.7	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-004

Collection Date: 9/29/2025 3:45:00 PM

Client Sample ID: B21-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
2,4-D	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
2,4-DP	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
2,4,5-TP (Silvex)	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
2,4,5-T	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Dinoseb	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Dalapon	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
2,4-DB	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
MCP	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
MCPA	ND	324		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Picloram	ND	21.6	Q	µg/Kg-dry	1	10/10/2025 7:15:49 AM
Bentazon	ND	21.6	Q	µg/Kg-dry	1	10/10/2025 7:15:49 AM
Chloramben	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Acifluorfen	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
3,5-Dichlorobenzoic acid	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
4-Nitrophenol	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Dacthal (DCPA)	ND	21.6		µg/Kg-dry	1	10/10/2025 7:15:49 AM
Surr: 2,4-Dichlorophenylacetic acid	72.3	11.7 - 155		%Rec	1	10/10/2025 7:15:49 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	11.0	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-005

Collection Date: 9/29/2025 4:10:00 PM

Client Sample ID: B22-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
2,4-D	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
2,4-DP	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
2,4,5-TP (Silvex)	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
2,4,5-T	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Dinoseb	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Dalapon	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
2,4-DB	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
MCP	ND	209		µg/Kg-dry	1	10/10/2025 7:32:06 AM
MCPA	ND	314		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Picloram	ND	20.9	Q	µg/Kg-dry	1	10/10/2025 7:32:06 AM
Bentazon	ND	20.9	Q	µg/Kg-dry	1	10/10/2025 7:32:06 AM
Chloramben	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Acifluorfen	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
3,5-Dichlorobenzoic acid	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
4-Nitrophenol	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Dacthal (DCPA)	ND	20.9		µg/Kg-dry	1	10/10/2025 7:32:06 AM
Surr: 2,4-Dichlorophenylacetic acid	52.4	11.7 - 155		%Rec	1	10/10/2025 7:32:06 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	12.2	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-006

Collection Date: 9/29/2025 4:25:00 PM

Client Sample ID: B44-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
2,4-D	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
2,4-DP	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
2,4,5-TP (Silvex)	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
2,4,5-T	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Dinoseb	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Dalapon	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
2,4-DB	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
MCP	ND	210		µg/Kg-dry	1	10/10/2025 7:48:28 AM
MCPA	ND	316		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Picloram	ND	21.0	Q	µg/Kg-dry	1	10/10/2025 7:48:28 AM
Bentazon	ND	21.0	Q	µg/Kg-dry	1	10/10/2025 7:48:28 AM
Chloramben	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Acifluorfen	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
3,5-Dichlorobenzoic acid	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
4-Nitrophenol	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Dacthal (DCPA)	ND	21.0		µg/Kg-dry	1	10/10/2025 7:48:28 AM
Surr: 2,4-Dichlorophenylacetic acid	59.0	11.7 - 155		%Rec	1	10/10/2025 7:48:28 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	9.50	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-007

Collection Date: 9/29/2025 4:45:00 PM

Client Sample ID: B45-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
2,4-D	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
2,4-DP	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
2,4,5-TP (Silvex)	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
2,4,5-T	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Dinoseb	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Dalapon	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
2,4-DB	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
MCP	ND	218		µg/Kg-dry	1	10/10/2025 8:04:50 AM
MCPA	ND	327		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Picloram	ND	21.8	Q	µg/Kg-dry	1	10/10/2025 8:04:50 AM
Bentazon	ND	21.8	Q	µg/Kg-dry	1	10/10/2025 8:04:50 AM
Chloramben	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Acifluorfen	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
3,5-Dichlorobenzoic acid	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
4-Nitrophenol	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Dacthal (DCPA)	ND	21.8		µg/Kg-dry	1	10/10/2025 8:04:50 AM
Surr: 2,4-Dichlorophenylacetic acid	59.6	11.7 - 155		%Rec	1	10/10/2025 8:04:50 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	10.9	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-008

Collection Date: 9/29/2025 5:00:00 PM

Client Sample ID: B76-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
2,4-D	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
2,4-DP	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
2,4,5-TP (Silvex)	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
2,4,5-T	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Dinoseb	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Dalapon	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
2,4-DB	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
MCP	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
MCPA	ND	329		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Picloram	ND	21.9	Q	µg/Kg-dry	1	10/10/2025 8:21:13 AM
Bentazon	ND	21.9	Q	µg/Kg-dry	1	10/10/2025 8:21:13 AM
Chloramben	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Acifluorfen	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
3,5-Dichlorobenzoic acid	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
4-Nitrophenol	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Dacthal (DCPA)	ND	21.9		µg/Kg-dry	1	10/10/2025 8:21:13 AM
Surr: 2,4-Dichlorophenylacetic acid	73.4	11.7 - 155		%Rec	1	10/10/2025 8:21:13 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	9.74	0.500		wt%	1	10/6/2025 9:46:01 AM
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CLIENT: Friedman & Bruya
Project: 509491

Lab ID: 2510110-009

Collection Date: 9/29/2025 5:20:00 PM

Client Sample ID: B50-S-0-1

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA 8151A

Batch ID: 49530

Analyst: CO

Dicamba	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
2,4-D	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
2,4-DP	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
2,4,5-TP (Silvex)	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
2,4,5-T	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Dinoseb	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Dalapon	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
2,4-DB	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
MCP	ND	218		µg/Kg-dry	1	10/10/2025 8:37:34 AM
MCPA	ND	327		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Picloram	ND	21.8	Q	µg/Kg-dry	1	10/10/2025 8:37:34 AM
Bentazon	ND	21.8	Q	µg/Kg-dry	1	10/10/2025 8:37:34 AM
Chloramben	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Acifluorfen	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
3,5-Dichlorobenzoic acid	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
4-Nitrophenol	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Dacthal (DCPA)	ND	21.8		µg/Kg-dry	1	10/10/2025 8:37:34 AM
Surr: 2,4-Dichlorophenylacetic acid	64.5	11.7 - 155		%Rec	1	10/10/2025 8:37:34 AM

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample Moisture (Percent Moisture)

Batch ID: R10355

Analyst: SL

Percent Moisture	12.0	0.500		wt%	1	10/6/2025 9:46:01 AM
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Work Order: 2510110
CLIENT: Friedman & Bruya
Project: 509491

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: MB-49530		SampType: MBLK		Units: µg/Kg		Prep Date: 10/6/2025		RunNo: 103697			
Client ID: MBLKS		Batch ID: 49530				Analysis Date: 10/10/2025		SeqNo: 2163456			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	20.0									
2,4-D	ND	20.0									
2,4-DP	ND	20.0									
2,4,5-TP (Silvex)	ND	20.0									
2,4,5-T	ND	20.0									
Dinoseb	ND	20.0									
Dalapon	ND	20.0									
2,4-DB	ND	20.0									
MCP	ND	200									
MCPA	ND	300									
Picloram	ND	20.0									Q
Bentazon	ND	20.0									Q
Chloramben	ND	20.0									
Acifluorfen	ND	20.0									
3,5-Dichlorobenzoic acid	ND	20.0									
4-Nitrophenol	ND	20.0									
Dacthal (DCPA)	ND	20.0									
Surr: 2,4-Dichlorophenylacetic acid	904		1,000		90.4	5	150				

NOTES:

Q - Initial calibration verification for this analyte exceeds acceptance criteria.

Sample ID: LCS-49530		SampType: LCS		Units: µg/Kg		Prep Date: 10/6/2025		RunNo: 103697			
Client ID: LCSS		Batch ID: 49530				Analysis Date: 10/10/2025		SeqNo: 2163457			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	180	20.0	200.0	0	89.8	6.87	123				
2,4-D	211	20.0	200.0	0	106	13.2	123				
2,4-DP	181	20.0	200.0	0	90.6	17.2	120				
2,4,5-TP (Silvex)	188	20.0	200.0	0	93.8	22.3	124				
2,4,5-T	174	20.0	200.0	0	87.0	17.5	122				
Dinoseb	116	20.0	200.0	0	57.8	13	115				
Dalapon	822	20.0	1,000	0	82.2	5.02	155				

Work Order: 2510110
CLIENT: Friedman & Bruya
Project: 509491

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: LCS-49530		SampType: LCS		Units: µg/Kg		Prep Date: 10/6/2025		RunNo: 103697			
Client ID: LCSS		Batch ID: 49530				Analysis Date: 10/10/2025		SeqNo: 2163457			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	123	20.0	200.0	0	61.5	40.9	123				
MCP	1,750	200	1,000	0	175	19.2	142				S
MCPA	1,210	300	1,000	0	121	6.41	143				
Picloram	196	20.0	200.0	0	98.1	5.42	148				
Bentazon	160	20.0	200.0	0	80.2	21.5	133				
Chloramben	128	20.0	200.0	0	64.0	8.88	94.8				
Acifluorfen	115	20.0	200.0	0	57.3	5.24	110				
3,5-Dichlorobenzoic acid	162	20.0	200.0	0	81.0	12.3	132				
4-Nitrophenol	116	20.0	200.0	0	58.0	13	148				
Dacthal (DCPA)	168	20.0	200.0	0	83.9	12.7	122				
Surr: 2,4-Dichlorophenylacetic acid	772		1,000		77.2	11.7	155				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2510157-001AMS		SampType: MS		Units: µg/Kg		Prep Date: 10/6/2025		RunNo: 103697			
Client ID: BATCH		Batch ID: 49530				Analysis Date: 10/10/2025		SeqNo: 2163470			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	19.0	190.1	0	0	6.87	123				S
2,4-D	22.7	19.0	190.1	0	11.9	13.2	123				S
2,4-DP	ND	19.0	190.1	0	6.74	17.2	120				S
2,4,5-TP (Silvex)	ND	19.0	190.1	0	8.74	22.3	124				S
2,4,5-T	ND	19.0	190.1	0	7.26	17.5	122				S
Dinoseb	31.4	19.0	190.1	0	16.5	13	115				
Dalapon	37.5	19.0	950.6	0	3.94	5.02	155				S
2,4-DB	51.1	19.0	190.1	0	26.9	40.9	123				S
MCP	ND	190	950.6	0	14.2	19.2	142				S
MCPA	502	285	950.6	0	52.8	6.41	143				
Picloram	ND	19.0	190.1	0	3.67	5.42	148				S
Bentazon	ND	19.0	190.1	0	4.40	21.5	133				S
Chloramben	ND	19.0	190.1	0	2.58	8.88	94.8				S
Acifluorfen	ND	19.0	190.1	0	6.87	5.24	110				

Work Order: 2510110
CLIENT: Friedman & Bruya
Project: 509491

QC SUMMARY REPORT

Herbicides by EPA 8151A

Sample ID: 2510157-001AMS		SampType: MS		Units: µg/Kg		Prep Date: 10/6/2025		RunNo: 103697			
Client ID: BATCH		Batch ID: 49530				Analysis Date: 10/10/2025		SeqNo: 2163470			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	ND	19.0	190.1	0	5.34	12.3	132				S
4-Nitrophenol	32.3	19.0	190.1	0	17.0	13	148				
Dacthal (DCPA)	ND	19.0	190.1	0	0	12.7	122				S
Surr: 2,4-Dichlorophenylacetic acid	50.4		950.6		5.30	11.7	155				S

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed and recovered within range.

S - Outlying spike and surrogate recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2510157-001AMSD	SampType: MSD	Units: µg/Kg				Prep Date: 10/6/2025			RunNo: 103697		
Client ID: BATCH	Batch ID: 49530	Analysis Date: 10/10/2025							SeqNo: 2163471		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	19.0	190.5	0	4.75	6.87	123	0		30	S
2,4-D	30.1	19.0	190.5	0	15.8	13.2	123	22.70	28.1	30	
2,4-DP	21.2	19.0	190.5	0	11.1	17.2	120	12.80	49.4	30	S
2,4,5-TP (Silvex)	29.9	19.0	190.5	0	15.7	22.3	124	16.62	57.2	30	S
2,4,5-T	21.8	19.0	190.5	0	11.4	17.5	122	13.81	44.8	30	S
Dinoseb	42.9	19.0	190.5	0	22.5	13	115	31.36	31.1	30	
Dalapon	55.2	19.0	952.4	0	5.80	5.02	155	37.45	38.4	30	
2,4-DB	79.3	19.0	190.5	0	41.6	40.9	123	51.10	43.3	30	
MCPD	235	190	952.4	0	24.7	19.2	142	135.3	53.8	30	
MCPA	538	286	952.4	0	56.5	6.41	143	502.1	6.87	30	
Picloram	ND	19.0	190.5	0	5.95	5.42	148	0		30	
Bentazon	ND	19.0	190.5	0	8.16	21.5	133	0		30	S
Chloramben	ND	19.0	190.5	0	5.21	8.88	94.8	0		30	S
Acifluorfen	58.3	19.0	190.5	0	30.6	5.24	110	13.06	127	30	
3,5-Dichlorobenzoic acid	27.5	19.0	190.5	0	14.5	12.3	132	10.16	92.2	30	
4-Nitrophenol	62.9	19.0	190.5	0	33.0	13	148	32.31	64.3	30	
Dacthal (DCPA)	ND	19.0	190.5	0	0	12.7	122	0		30	S
Surr: 2,4-Dichlorophenylacetic acid	168		952.4		17.7	11.7	155		0		

NOTES:

S - Outlying spike recovery observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Client Name: **FB**

Work Order Number: **2510110**

Logged by: **Morgan Wilson**

Date Received: **10/3/2025 10:55:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
11. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
12. Does paperwork match bottle labels? Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all hold times (except field parameters, pH e.g.) able to be met? Yes ☒ No ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp °C
Sample	6.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

75 10 110

Send Report To **Michael Erdahl**

Address 5500 4th Ave S

City, State, ZIP Seattle, WA 98108

email: merdahl@friedmanandbruya.com

TURNAROUND TIME
☒ Standard
 RUSH _____
 Rush charges authorized by: _____

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

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