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LAB CHRONICLE

OrderID:	Q2795	**OrderDate:**	8/7/2025 11:57:00 AM
Client:	Kleinfelder	**Project:**	Girard School - PA
Contact:	Mark Warchol	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2795-01	**COMP-1**	**SOIL**			**08/06/25**			**08/07/25**
			SVOCMS Group1	8270E		08/08/25	08/08/25	
Q2795-02	**COMP-2**	**SOIL**			**08/06/25**			**08/07/25**
			SVOCMS Group1	8270E		08/08/25	08/11/25	
Q2795-03	**COMP-3**	**SOIL**			**08/06/25**			**08/07/25**
			SVOCMS Group1	8270E		08/08/25	08/11/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2795

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-1								
Q2795-01	COMP-1	SOIL	Pyrene	110.000	J	43.5	210	ug/Kg
			Total Svoc :	**110.00**				
			Total Concentration:	**110.00**				
Client ID : COMP-2								
Q2795-02	COMP-2	SOIL	Pyrene	86.000	J	44.4	210	ug/Kg
			Total Svoc :	**86.00**				
			Total Concentration:	**86.00**				
Client ID : COMP-3								
Q2795-03	COMP-3	SOIL	Phenanthrene	430.000		25.5	210	ug/Kg
Q2795-03	COMP-3	SOIL	Anthracene	110.000	J	40.6	210	ug/Kg
Q2795-03	COMP-3	SOIL	Pyrene	330.000		43.9	210	ug/Kg
Q2795-03	COMP-3	SOIL	Benzo(a)anthracene	220.000		28	210	ug/Kg
Q2795-03	COMP-3	SOIL	Chrysene	200.000	J	24.2	210	ug/Kg
Q2795-03	COMP-3	SOIL	Benzo(b)fluoranthene	210.000		23.1	210	ug/Kg
Q2795-03	COMP-3	SOIL	Benzo(a)pyrene	170.000	J	35.9	210	ug/Kg
			Total Svoc :	**1,670.00**				
			Total Concentration:	**1,670.00**				

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-1			SDG No.:	Q2795
Lab Sample ID:	Q2795-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82.5
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025333.D	1	08/08/25 09:12	08/08/25 15:11	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	27.5	U	27.5	210	ug/Kg
86-73-7	Fluorene	30.6	U	30.6	210	ug/Kg
85-01-8	Phenanthrene	25.3	U	25.3	210	ug/Kg
120-12-7	Anthracene	40.3	U	40.3	210	ug/Kg
129-00-0	Pyrene	110	J	43.5	210	ug/Kg
56-55-3	Benzo(a)anthracene	27.8	U	27.8	210	ug/Kg
218-01-9	Chrysene	24.1	U	24.1	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.0	U	23.0	210	ug/Kg
50-32-8	Benzo(a)pyrene	35.7	U	35.7	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.2	U	35.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.1	U	31.1	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	46.5		18 - 107	47%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.9		20 - 109	42%	SPK: 100
1718-51-0	Terphenyl-d14	54.8		10 - 105	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	370000	7.802			
1146-65-2	Naphthalene-d8	1490000	10.572			
15067-26-2	Acenaphthene-d10	927000	14.425			
1517-22-2	Phenanthrene-d10	1790000	17.225			
1719-03-5	Chrysene-d12	1330000	21.66			
1520-96-3	Perylene-d12	1320000	25.048			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-1			SDG No.:	Q2795
Lab Sample ID:	Q2795-01			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82.5
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025333.D	1	08/08/25 09:12	08/08/25 15:11	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-2	SDG No.:	Q2795
Lab Sample ID:	Q2795-02	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025354.D	1	08/08/25 09:12	08/11/25 18:53	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	28.0	U	28.0	210	ug/Kg
86-73-7	Fluorene	31.2	U	31.2	210	ug/Kg
85-01-8	Phenanthrene	25.8	U	25.8	210	ug/Kg
120-12-7	Anthracene	41.1	U	41.1	210	ug/Kg
129-00-0	Pyrene	86.0	J	44.4	210	ug/Kg
56-55-3	Benzo(a)anthracene	28.4	U	28.4	210	ug/Kg
218-01-9	Chrysene	24.6	U	24.6	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	23.5	U	23.5	210	ug/Kg
50-32-8	Benzo(a)pyrene	36.4	U	36.4	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.9	U	35.9	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.7	U	31.7	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	49.9		18 - 107	50%	SPK: 100
321-60-8	2-Fluorobiphenyl	48.2		20 - 109	48%	SPK: 100
1718-51-0	Terphenyl-d14	45.7		10 - 105	46%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	254000	7.802			
1146-65-2	Naphthalene-d8	981000	10.572			
15067-26-2	Acenaphthene-d10	575000	14.413			
1517-22-2	Phenanthrene-d10	1110000	17.219			
1719-03-5	Chrysene-d12	1170000	21.654			
1520-96-3	Perylene-d12	1340000	25.03			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-2			SDG No.:	Q2795
Lab Sample ID:	Q2795-02			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	80.8
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025354.D	1	08/08/25 09:12	08/11/25 18:53	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-3	SDG No.:	Q2795
Lab Sample ID:	Q2795-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025355.D	1	08/08/25 09:12	08/11/25 19:34	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	27.7	U	27.7	210	ug/Kg
86-73-7	Fluorene	30.8	U	30.8	210	ug/Kg
85-01-8	Phenanthrene	430		25.5	210	ug/Kg
120-12-7	Anthracene	110	J	40.6	210	ug/Kg
129-00-0	Pyrene	330		43.9	210	ug/Kg
56-55-3	Benzo(a)anthracene	220		28.0	210	ug/Kg
218-01-9	Chrysene	200	J	24.2	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	210		23.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	170	J	35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	35.5	U	35.5	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	31.3	U	31.3	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	72.1		18 - 107	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.1		20 - 109	69%	SPK: 100
1718-51-0	Terphenyl-d14	57.4		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	304000	7.802			
1146-65-2	Naphthalene-d8	1140000	10.572			
15067-26-2	Acenaphthene-d10	611000	14.419			
1517-22-2	Phenanthrene-d10	1040000	17.219			
1719-03-5	Chrysene-d12	1180000	21.66			
1520-96-3	Perylene-d12	1460000	25.042			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-3			SDG No.:	Q2795
Lab Sample ID:	Q2795-03			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025355.D	1	08/08/25 09:12	08/11/25 19:34	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2795

Client: Kleinfelder

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB169176BL	PB169176BL	Nitrobenzene-d5	100	86.1	86		18	107
		2-Fluorobiphenyl	100	83.2	83		20	109
		Terphenyl-d14	100	81.9	82		10	105
PB169176BS	PB169176BS	Nitrobenzene-d5	100	84.1	84		18	107
		2-Fluorobiphenyl	100	77.0	77		20	109
		Terphenyl-d14	100	85.0	85		10	105
Q2795-01	COMP-1	Nitrobenzene-d5	100	46.5	47		18	107
		2-Fluorobiphenyl	100	41.9	42		20	109
		Terphenyl-d14	100	54.8	55		10	105
Q2795-02	COMP-2	Nitrobenzene-d5	100	49.9	50		18	107
		2-Fluorobiphenyl	100	48.2	48		20	109
		Terphenyl-d14	100	45.7	46		10	105
Q2795-03	COMP-3	Nitrobenzene-d5	100	72.1	72		18	107
		2-Fluorobiphenyl	100	69.1	69		20	109
		Terphenyl-d14	100	57.4	57		10	105
Q2795-03MS	COMP-3MS	Nitrobenzene-d5	100	59.8	60		18	107
		2-Fluorobiphenyl	100	56.3	56		20	109
		Terphenyl-d14	100	54.1	54		10	105
Q2795-03MSD	COMP-3MSD	Nitrobenzene-d5	100	58.8	59		18	107
		2-Fluorobiphenyl	100	52.9	53		20	109
		Terphenyl-d14	100	53.4	53		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2795 **Analytical Method:** SW8270E

Client: Kleinfelder **DataFile:** BP025356.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2795-03MS		**Client Sample ID: COMP-3MS**									
Naphthalene	2000	0	1600	ug/Kg	80				51	121	
Fluorene	2000	0	1700	ug/Kg	85				53	118	
Phenanthrene	2000	430	2000	ug/Kg	79				52	128	
Anthracene	2000	110	1800	ug/Kg	85				62	124	
Pyrene	2000	330	1900	ug/Kg	79				37	122	
Benzo(a)anthracene	2000	220	1800	ug/Kg	79				53	119	
Chrysene	2000	200	1800	ug/Kg	80				57	121	
Benzo(b)fluoranthene	2000	210	1700	ug/Kg	75				52	117	
Benzo(a)pyrene	2000	170	1800	ug/Kg	82				70	142	
Indeno(1,2,3-cd)pyrene	2000	0	1800	ug/Kg	90				40	129	
Benzo(g,h,i)perylene	2000	0	1800	ug/Kg	90				24	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2795 **Analytical Method:** SW8270E

Client: Kleinfelder **DataFile:** BP025357.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2795-03MSD		**Client Sample ID: COMP-3MSD**									
Naphthalene	2000	0	1600	ug/Kg	80	0			51	121	20
Fluorene	2000	0	1700	ug/Kg	85	0			53	118	20
Phenanthrene	2000	430	2000	ug/Kg	79	0			52	128	20
Anthracene	2000	110	1800	ug/Kg	85	0			62	124	20
Pyrene	2000	330	1900	ug/Kg	79	0			37	122	20
Benzo(a)anthracene	2000	220	1800	ug/Kg	79	0			53	119	20
Chrysene	2000	200	1800	ug/Kg	80	0			57	121	20
Benzo(b)fluoranthene	2000	210	1700	ug/Kg	75	0			52	117	20
Benzo(a)pyrene	2000	170	1800	ug/Kg	82	0			70	142	20
Indeno(1,2,3-cd)pyrene	2000	0	1800	ug/Kg	90	0			40	129	20
Benzo(g,h,i)perylene	2000	0	1800	ug/Kg	90	0			24	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2795 **Analytical Method:** 8270E

Client: Kleinfelder **DataFile:** BP025362.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169176BS	Naphthalene	1700	1500	ug/Kg	88				62	100	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169176BL

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: BP025361.D | Lab Sample ID: PB169176BL

Instrument ID: BNA_P | Date Extracted: 08/08/2025

Matrix: (soil/water) SOIL | Date Analyzed: 08/12/2025

Level: (low/med) LOW | Time Analyzed: 10:49

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169176BS	PB169176BS	BP025362.D	08/12/2025
COMP-1	Q2795-01	BP025333.D	08/08/2025
COMP-2	Q2795-02	BP025354.D	08/11/2025
COMP-3	Q2795-03	BP025355.D	08/11/2025
COMP-3MS	Q2795-03MS	BP025356.D	08/11/2025
COMP-3MSD	Q2795-03MSD	BP025357.D	08/11/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: BP025297.D | DFTPP Injection Date: 08/05/2025

Instrument ID: BNA_P | DFTPP Injection Time: 11:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	78.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP025298.D	08/05/2025	12:03
SSTDICC005	SSTDICC005	BP025299.D	08/05/2025	12:44
SSTDICC010	SSTDICC010	BP025300.D	08/05/2025	13:25
SSTDICC020	SSTDICC020	BP025301.D	08/05/2025	14:06
SSTDICCC040	SSTDICCC040	BP025302.D	08/05/2025	14:47
SSTDICC050	SSTDICC050	BP025303.D	08/05/2025	15:28
SSTDICC060	SSTDICC060	BP025304.D	08/05/2025	16:10
SSTDICC080	SSTDICC080	BP025305.D	08/05/2025	16:51

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: BP025325.D | DFTPP Injection Date: 08/08/2025

Instrument ID: BNA_P | DFTPP Injection Time: 09:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.3) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	78.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.6 (19.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025326.D	08/08/2025	10:15
COMP-1	Q2795-01	BP025333.D	08/08/2025	15:11

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: BP025342.D | DFTPP Injection Date: 08/11/2025

Instrument ID: BNA_P | DFTPP Injection Time: 09:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	79.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025343.D	08/11/2025	11:08
COMP-2	Q2795-02	BP025354.D	08/11/2025	18:53
COMP-3	Q2795-03	BP025355.D	08/11/2025	19:34
COMP-3MS	Q2795-03MS	BP025356.D	08/11/2025	20:16
COMP-3MSD	Q2795-03MSD	BP025357.D	08/11/2025	20:58

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: POWE02

Lab Code: ACE | SDG NO.: Q2795

Lab File ID: BP025359.D | DFTPP Injection Date: 08/12/2025

Instrument ID: BNA_P | DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	79.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP025360.D	08/12/2025	10:07
PB169176BL	PB169176BL	BP025361.D	08/12/2025	10:49
PB169176BS	PB169176BS	BP025362.D	08/12/2025	11:30

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID : SSTDCCC040 Date Analyzed: 08/08/2025

Lab File ID: BP025326.D Time Analyzed: 10:15

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	240709	7.802	976682	10.57	575605	14.42
	UPPER LIMIT	481418	8.302	1953360	11.072	1151210	14.919
	LOWER LIMIT	120355	7.302	488341	10.072	287803	13.919
	EPA SAMPLE NO.						
01	COMP-1	369826	7.80	1487910	10.57	927347	14.43

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID: SSTDCCC040 Date Analyzed: 08/08/2025

Lab File ID: BP025326.D Time Analyzed: 10:15

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1048510	17.225	989888	21.666	1196040	25.059
	UPPER LIMIT	2097020	17.725	1979780	22.166	2392080	25.559
	LOWER LIMIT	524255	16.725	494944	21.166	598020	24.559
	EPA SAMPLE NO.						
01	COMP-1	1790890	17.23	1327270	21.66	1321270	25.05

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID : SSTDCCC040 Date Analyzed: 08/11/2025

Lab File ID: BP025343.D Time Analyzed: 11:08

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	216631	7.796	873095	10.57	558968	14.42
	UPPER LIMIT	433262	8.296	1746190	11.072	1117940	14.919
	LOWER LIMIT	108316	7.296	436548	10.072	279484	13.919
	EPA SAMPLE NO.						
01	COMP-2	253745	7.80	980792	10.57	574975	14.41
02	COMP-3	303985	7.80	1143420	10.57	611493	14.42
03	COMP-3MS	295927	7.80	1140320	10.57	664800	14.42
04	COMP-3MSD	259630	7.80	1001310	10.57	612787	14.43

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID: SSTDCCC040 Date Analyzed: 08/11/2025

Lab File ID: BP025343.D Time Analyzed: 11:08

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1086110	17.219	1099610	21.654	1235980	25.042
	UPPER LIMIT	2172220	17.719	2199220	22.154	2471960	25.542
	LOWER LIMIT	543055	16.719	549805	21.154	617990	24.542
	EPA SAMPLE NO.						
01	COMP-2	1110380	17.22	1168730	21.65	1336530	25.03
02	COMP-3	1041460	17.22	1178180	21.66	1457050	25.04
03	COMP-3MS	1234290	17.21	1203350	21.65	1428300	25.02
04	COMP-3MSD	1190900	17.22	1224890	21.65	1454700	25.02

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID : SSTDCCC040 Date Analyzed: 08/12/2025

Lab File ID: BP025360.D Time Analyzed: 10:07

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	195999	7.796	806810	10.58	510213	14.43
	UPPER LIMIT	391998	8.296	1613620	11.078	1020430	14.931
	LOWER LIMIT	97999.5	7.296	403405	10.078	255107	13.931
	EPA SAMPLE NO.						
01	PB169176BL	197203	7.80	745124	10.57	423004	14.42
02	PB169176BS	223200	7.80	886480	10.57	559934	14.43

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2795

Client ID: SSTDCCC040 Date Analyzed: 08/12/2025

Lab File ID: BP025360.D Time Analyzed: 10:07

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	980228	17.225	1004810	21.672	1173450	25.065
	UPPER LIMIT	1960460	17.725	2009620	22.172	2346900	25.565
	LOWER LIMIT	490114	16.725	502405	21.172	586725	24.565
	EPA SAMPLE NO.						
01	PB169176BL	795112	17.23	877135	21.67	1062240	25.05
02	PB169176BS	1136520	17.23	1132010	21.67	1223220	25.05

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169176BL			SDG No.:	Q2795
Lab Sample ID:	PB169176BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025361.D	1	08/08/25 09:12	08/12/25 10:49	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	22.7	U	22.7	170	ug/Kg
86-73-7	Fluorene	25.3	U	25.3	170	ug/Kg
85-01-8	Phenanthrene	20.9	U	20.9	170	ug/Kg
120-12-7	Anthracene	33.3	U	33.3	170	ug/Kg
129-00-0	Pyrene	36.0	U	36.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	23.0	U	23.0	170	ug/Kg
218-01-9	Chrysene	19.9	U	19.9	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	19.0	U	19.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	29.5	U	29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	29.1	U	29.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	25.7	U	25.7	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	86.1		18 - 107	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.2		20 - 109	83%	SPK: 100
1718-51-0	Terphenyl-d14	81.9		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	197000	7.796			
1146-65-2	Naphthalene-d8	745000	10.572			
15067-26-2	Acenaphthene-d10	423000	14.419			
1517-22-2	Phenanthrene-d10	795000	17.225			
1719-03-5	Chrysene-d12	877000	21.672			
1520-96-3	Perylene-d12	1060000	25.048			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169176BL			SDG No.:	Q2795
Lab Sample ID:	PB169176BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025361.D	1	08/08/25 09:12	08/12/25 10:49	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169176BS			SDG No.:	Q2795
Lab Sample ID:	PB169176BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025362.D	1	08/08/25 09:12	08/12/25 11:30	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1500		22.7	170	ug/Kg
86-73-7	Fluorene	1500		25.3	170	ug/Kg
85-01-8	Phenanthrene	1500		20.9	170	ug/Kg
120-12-7	Anthracene	1600		33.3	170	ug/Kg
129-00-0	Pyrene	1600		36.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	1500		23.0	170	ug/Kg
218-01-9	Chrysene	1600		19.9	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		19.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		29.5	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		29.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		25.7	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.1		18 - 107	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.0		20 - 109	77%	SPK: 100
1718-51-0	Terphenyl-d14	85.0		10 - 105	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	7.796			
1146-65-2	Naphthalene-d8	886000	10.572			
15067-26-2	Acenaphthene-d10	560000	14.425			
1517-22-2	Phenanthrene-d10	1140000	17.225			
1719-03-5	Chrysene-d12	1130000	21.666			
1520-96-3	Perylene-d12	1220000	25.054			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Girard School - PA			Date Received:	
Client Sample ID:	PB169176BS			SDG No.:	Q2795
Lab Sample ID:	PB169176BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025362.D	1	08/08/25 09:12	08/12/25 11:30	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-3MS	SDG No.:	Q2795
Lab Sample ID:	Q2795-03MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025356.D	1	08/08/25 09:12	08/11/25 20:16	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1600		27.6	210	ug/Kg
86-73-7	Fluorene	1700		30.8	210	ug/Kg
85-01-8	Phenanthrene	2000		25.4	210	ug/Kg
120-12-7	Anthracene	1800		40.5	210	ug/Kg
129-00-0	Pyrene	1900		43.8	210	ug/Kg
56-55-3	Benzo(a)anthracene	1800		28.0	210	ug/Kg
218-01-9	Chrysene	1800		24.2	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		23.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	1800		35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		35.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		31.2	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	59.8		18 - 107	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.3		20 - 109	56%	SPK: 100
1718-51-0	Terphenyl-d14	54.1		10 - 105	54%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	296000	7.796			
1146-65-2	Naphthalene-d8	1140000	10.572			
15067-26-2	Acenaphthene-d10	665000	14.419			
1517-22-2	Phenanthrene-d10	1230000	17.213			
1719-03-5	Chrysene-d12	1200000	21.654			
1520-96-3	Perylene-d12	1430000	25.024			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-3MS			SDG No.:	Q2795
Lab Sample ID:	Q2795-03MS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025356.D	1	08/08/25 09:12	08/11/25 20:16	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	08/06/25
Project:	Girard School - PA	Date Received:	08/07/25
Client Sample ID:	COMP-3MSD	SDG No.:	Q2795
Lab Sample ID:	Q2795-03MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025357.D	1	08/08/25 09:12	08/11/25 20:58	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1600		27.6	210	ug/Kg
86-73-7	Fluorene	1700		30.8	210	ug/Kg
85-01-8	Phenanthrene	2000		25.4	210	ug/Kg
120-12-7	Anthracene	1800		40.5	210	ug/Kg
129-00-0	Pyrene	1900		43.8	210	ug/Kg
56-55-3	Benzo(a)anthracene	1800		28.0	210	ug/Kg
218-01-9	Chrysene	1800		24.2	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		23.1	210	ug/Kg
50-32-8	Benzo(a)pyrene	1800		35.9	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		35.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		31.3	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	58.8		18 - 107	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.9		20 - 109	53%	SPK: 100
1718-51-0	Terphenyl-d14	53.4		10 - 105	53%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	260000	7.796			
1146-65-2	Naphthalene-d8	1000000	10.572			
15067-26-2	Acenaphthene-d10	613000	14.425			
1517-22-2	Phenanthrene-d10	1190000	17.219			
1719-03-5	Chrysene-d12	1220000	21.654			
1520-96-3	Perylene-d12	1450000	25.024			

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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder			Date Collected:	08/06/25
Project:	Girard School - PA			Date Received:	08/07/25
Client Sample ID:	COMP-3MSD			SDG No.:	Q2795
Lab Sample ID:	Q2795-03MSD			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	82
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP025357.D	1	08/08/25 09:12	08/11/25 20:58	PB169176

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP080525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 06 06:41:44 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP025298.D 5 =BP025299.D 10 =BP025300.D 20 =BP025301.D 40 =BP025302.D 50 =BP025303.D 60 =BP025304.D 80 =BP025305.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.536	0.502	0.479	0.481	0.495	0.482	0.460	0.491	4.85
3)		Pyridine		1.368	1.344	1.341	1.340	1.407	1.397	1.347	1.363	2.06
4)		n-Nitrosodimet...			0.607	0.627	0.611	0.661	0.656	0.636	0.633	3.51
5)	S	2-Fluorophenol	1.187	1.248	1.220	1.251	1.233	1.297	1.287	1.225	1.244	2.88
6)		Aniline		2.182	2.099	2.208	2.218	2.385	2.403	2.231	2.247	4.88
7)	S	Phenol-d6	1.535	1.587	1.583	1.648	1.632	1.734	1.744	1.629	1.637	4.44
8)		2-Chlorophenol		1.251	1.264	1.355	1.350	1.451	1.463	1.394	1.361	6.09
9)		Benzaldehyde			1.132	1.083	1.402	1.409	1.095	0.852	1.162	18.31
10)	C	Phenol		1.694	1.677	1.728	1.731	1.844	1.859	1.725	1.751	4.08
11)		bis(2-Chloroet...		1.389	1.311	1.360	1.337	1.440	1.440	1.328	1.372	3.83
12)		1,3-Dichlorobe...		1.591	1.515	1.526	1.473	1.575	1.556	1.469	1.529	3.13
13)	C	1,4-Dichlorobe...		1.613	1.509	1.536	1.508	1.601	1.579	1.484	1.547	3.27
14)		1,2-Dichlorobe...		1.562	1.451	1.490	1.455	1.551	1.538	1.445	1.499	3.39
15)		Benzyl Alcohol			1.130	1.229	1.244	1.359	1.381	1.268	1.269	7.25
16)		2,2'-oxybis(1-...		2.272	2.091	2.159	2.107	2.251	2.258	2.033	2.167	4.37
17)		2-Methylphenol		1.093	1.085	1.156	1.176	1.253	1.264	1.175	1.172	5.95
18)		Hexachloroethane		0.563	0.532	0.540	0.540	0.572	0.577	0.550	0.553	3.17
19)	P	n-Nitroso-di-n...	0.989	1.103	1.026	1.062	1.080	1.146	1.171	1.024	1.075	5.84
20)		3+4-Methylphenols			1.447	1.566	1.587	1.713	1.754	1.613	1.613	6.80
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.524	0.498	0.510	0.493	0.517	0.501	0.472	0.502	3.44
23)	S	Nitrobenzene-d5	0.300	0.324	0.334	0.375	0.374	0.407	0.394	0.379	0.361	10.24
24)		Nitrobenzene		0.311	0.312	0.347	0.344	0.373	0.359	0.346	0.342	6.69
25)		Isophorone		0.727	0.682	0.702	0.713	0.759	0.756	0.691	0.719	4.22
26)	C	2-Nitrophenol		0.082	0.085	0.115	0.128	0.149	0.156	0.163	0.126	26.35
27)		2,4-Dimethylph...		0.380	0.319	0.308	0.324	0.342	0.335	0.311	0.331	7.40
28)		bis(2-Chloroet...		0.457	0.415	0.437	0.431	0.457	0.450	0.413	0.437	4.28
29)	C	2,4-Dichloroph...		0.249	0.259	0.293	0.296	0.317	0.315	0.300	0.290	9.05
30)		1,2,4-Trichlor...		0.328	0.312	0.324	0.312	0.334	0.321	0.309	0.320	2.92
31)		Naphthalene		1.093	1.014	1.044	1.017	1.075	1.049	0.977	1.038	3.77
32)		Benzoic acid			0.070	0.127	0.169	0.191	0.217	0.233	0.168	36.22
33)		4-Chloroaniline		0.449	0.435	0.460	0.459	0.495	0.482	0.453	0.462	4.41
34)	C	Hexachlorobuta...		0.191	0.178	0.185	0.180	0.188	0.185	0.180	0.184	2.60
35)		Caprolactam			0.095	0.105	0.115	0.122	0.124	0.113	0.113	9.54
36)	C	4-Chloro-3-met...		0.310	0.303	0.327	0.341	0.368	0.363	0.338	0.336	7.31
37)		2-Methylnaphth...		0.697	0.653	0.665	0.656	0.701	0.688	0.644	0.672	3.41
38)		1-Methylnaphth...		0.742	0.683	0.703	0.684	0.739	0.706	0.650	0.701	4.63

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP080525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...		0.551	0.530	0.564	0.547	0.557	0.542	0.532	0.546	2.32
41)	P	Hexachlorocycl...			0.291	0.324	0.331	0.358	0.355	0.363	0.337	8.13
42)	S	2,4,6-Tribromo...	0.151	0.171	0.182	0.210	0.212	0.229	0.225	0.215	0.200	14.11
43)	C	2,4,6-Trichlor...		0.279	0.301	0.359	0.367	0.395	0.386	0.383	0.353	12.75
44)		2,4,5-Trichlor...		0.310	0.342	0.408	0.412	0.437	0.438	0.423	0.396	12.56
45)	S	2-Fluorobiphenyl	1.502	1.551	1.453	1.479	1.444	1.464	1.389	1.303	1.448	5.17
46)		1,1'-Biphenyl		1.518	1.461	1.524	1.449	1.517	1.454	1.395	1.474	3.26
47)		2-Chloronaphth...		1.138	1.098	1.157	1.106	1.159	1.124	1.089	1.124	2.50
48)		2-Nitroaniline		0.187	0.212	0.287	0.308	0.344	0.341	0.337	0.288	22.33
49)		Acenaphthylene		1.859	1.841	1.901	1.868	1.971	1.890	1.800	1.876	2.86
50)		Dimethylphthalate		1.522	1.403	1.470	1.431	1.532	1.474	1.373	1.458	4.05
51)		2,6-Dinitrotol...		0.178	0.217	0.278	0.287	0.308	0.309	0.304	0.269	19.03
52)	C	Acenaphthene		1.164	1.120	1.156	1.114	1.201	1.147	1.107	1.144	2.92
53)		3-Nitroaniline		0.217	0.256	0.317	0.333	0.362	0.360	0.359	0.315	18.17
54)	P	2,4-Dinitrophenol			0.059	0.080	0.095	0.117	0.129	0.149	0.105	31.45
55)		Dibenzofuran		1.804	1.711	1.735	1.681	1.762	1.700	1.574	1.710	4.25
56)	P	4-Nitrophenol			0.199	0.270	0.284	0.308	0.308	0.298	0.278	14.89
57)		2,4-Dinitrotol...		0.213	0.257	0.361	0.390	0.431	0.432	0.430	0.359	25.01
58)		Fluorene		1.500	1.398	1.379	1.316	1.360	1.284	1.163	1.343	7.79
59)		2,3,4,6-Tetrac...		0.262	0.286	0.339	0.344	0.366	0.366	0.351	0.331	12.26
60)		Diethylphthalate		1.518	1.416	1.498	1.440	1.528	1.508	1.381	1.470	3.91
61)		4-Chlorophenyl...		0.722	0.638	0.651	0.631	0.642	0.614	0.558	0.637	7.67
62)		4-Nitroaniline		0.227	0.263	0.324	0.338	0.348	0.344	0.339	0.312	15.24
63)		Azobenzene		1.412	1.340	1.375	1.351	1.400	1.376	1.306	1.366	2.67
64)	I	Phenanthrene-d10	----------ISTD----------									
65)		4,6-Dinitro-2-...			0.041	0.063	0.075	0.093	0.102	0.107	0.080	31.69
66)	c	n-Nitrosodiphe...		0.606	0.601	0.618	0.605	0.638	0.624	0.572	0.609	3.40
67)		4-Bromophenyl-...		0.200	0.194	0.202	0.199	0.211	0.208	0.194	0.201	3.31
68)		Hexachlorobenzene		0.232	0.222	0.224	0.220	0.233	0.231	0.218	0.226	2.78
69)		Atrazine		0.201	0.199	0.218	0.212	0.231	0.229	0.209	0.214	5.78
70)	C	Pentachlorophenol			0.104	0.139	0.144	0.161	0.160	0.156	0.144	14.88
71)		Phenanthrene		1.161	1.101	1.097	1.073	1.132	1.097	1.007	1.095	4.40
72)		Anthracene		1.104	1.093	1.129	1.095	1.151	1.143	1.017	1.105	4.08
73)		Carbazole		1.062	1.069	1.086	1.052	1.101	1.067	0.985	1.060	3.46
74)		Di-n-butylphth...		1.198	1.188	1.337	1.290	1.376	1.369	1.221	1.283	6.30
75)	C	Fluoranthene		1.321	1.288	1.291	1.252	1.314	1.268	1.143	1.268	4.74
76)	I	Chrysene-d12	----------ISTD----------									
77)		Benzidine			0.668	0.762	0.970	0.726	0.642	0.574	0.724	18.96
78)		Pyrene		1.321	1.314	1.350	1.289	1.406	1.348	1.282	1.330	3.21
79)	S	Terphenyl-d14	1.060	1.140	1.083	1.096	1.046	1.082	1.017	0.947	1.059	5.47
80)		Butylbenzylpht...		0.399	0.413	0.554	0.565	0.627	0.631	0.586	0.539	17.70
81)		Benzo(a)anthra...		1.346	1.308	1.357	1.302	1.382	1.349	1.260	1.329	3.11
82)		3,3'-Dichlorob...			0.414	0.484	0.473	0.501	0.481	0.461	0.469	6.39
83)		Chrysene		1.257	1.193	1.257	1.217	1.289	1.250	1.165	1.233	3.49
84)		Bis(2-ethylhex...		0.735	0.713	0.903	0.892	0.939	0.965	0.882	0.861	11.39
85)	c	Di-n-octyl pht...			1.011	1.434	1.502	1.543	1.634	1.526	1.442	15.32

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP080525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.374	1.302	1.436	1.443	1.546	1.494	1.440	1.434	5.50
88)		Benzo(b)fluora...	1.182	1.151	1.194	1.179	1.290	1.217	1.168	1.197	3.82
89)		Benzo(k)fluora...	1.191	1.145	1.189	1.171	1.264	1.210	1.139	1.187	3.56
90)	C	Benzo(a)pyrene	1.116	1.108	1.148	1.151	1.229	1.190	1.129	1.153	3.74
91)		Dibenzo(a,h)an...	1.135	1.077	1.166	1.185	1.261	1.219	1.175	1.174	5.02
92)		Benzo(g,h,i)pe...	1.126	1.051	1.149	1.153	1.243	1.186	1.157	1.152	5.04

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: POWE02

Lab Code: ACE SDG No.: Q2795

Instrument ID: BNA_P Calibration Date/Time: 08/08/2025 10:15

Lab File ID: BP025326.D Init. Calib. Date(s): 08/05/2025 08/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:03 16:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.244	1.183		-4.9	
Phenol-d6	1.637	1.479		-9.7	
Nitrobenzene-d5	0.361	0.373		3.3	
Naphthalene	1.038	0.990		-4.6	
2-Fluorobiphenyl	1.448	1.428		-1.4	
Fluorene	1.343	1.253		-6.7	
2,4,6-Tribromophenol	0.200	0.213		6.5	
Phenanthrene	1.095	1.069		-2.4	
Anthracene	1.105	1.075		-2.7	
Pyrene	1.330	1.312		-1.4	
Terphenyl-d14	1.059	1.055		-0.4	
Benzo(a)anthracene	1.329	1.294		-2.6	
Chrysene	1.233	1.206		-2.2	
Benzo(b)fluoranthene	1.197	1.131		-5.5	
Benzo(a)pyrene	1.153	1.118		-3.0	20.0
Indeno(1,2,3-cd)pyrene	1.434	1.418		-1.1	
Benzo(g,h,i)perylene	1.152	1.128		-2.1	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: POWE02

Lab Code: ACE SDG No.: Q2795

Instrument ID: BNA_P Calibration Date/Time: 08/11/2025 11:08

Lab File ID: BP025343.D Init. Calib. Date(s): 08/05/2025 08/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:03 16:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.244	1.237		-0.6	
Phenol-d6	1.637	1.492		-8.9	
Nitrobenzene-d5	0.361	0.389		7.8	
Naphthalene	1.038	1.037		-0.1	
2-Fluorobiphenyl	1.448	1.480		2.2	
Fluorene	1.343	1.371		2.1	
2,4,6-Tribromophenol	0.200	0.238		19.0	
Phenanthrene	1.095	1.120		2.3	
Anthracene	1.105	1.143		3.4	
Pyrene	1.330	1.327		-0.2	
Terphenyl-d14	1.059	1.092		3.1	
Benzo(a)anthracene	1.329	1.329		0.0	
Chrysene	1.233	1.262		2.4	
Benzo(b)fluoranthene	1.197	1.200		0.3	
Benzo(a)pyrene	1.153	1.183		2.6	20.0
Indeno(1,2,3-cd)pyrene	1.434	1.485		3.6	
Benzo(g,h,i)perylene	1.152	1.200		4.2	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: POWE02

Lab Code: ACE SDG No.: Q2795

Instrument ID: BNA_P Calibration Date/Time: 08/12/2025 10:07

Lab File ID: BP025360.D Init. Calib. Date(s): 08/05/2025 08/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:03 16:51

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.244	1.253		0.7	
Phenol-d6	1.637	1.559		-4.8	
Nitrobenzene-d5	0.361	0.396		9.7	
Naphthalene	1.038	1.049		1.1	
2-Fluorobiphenyl	1.448	1.461		0.9	
Fluorene	1.343	1.351		0.6	
2,4,6-Tribromophenol	0.200	0.248		24.0	
Phenanthrene	1.095	1.119		2.2	
Anthracene	1.105	1.153		4.3	
Pyrene	1.330	1.316		-1.1	
Terphenyl-d14	1.059	1.074		1.4	
Benzo(a)anthracene	1.329	1.325		-0.3	
Chrysene	1.233	1.250		1.4	
Benzo(b)fluoranthene	1.197	1.187		-0.8	
Benzo(a)pyrene	1.153	1.171		1.6	20.0
Indeno(1,2,3-cd)pyrene	1.434	1.490		3.9	
Benzo(g,h,i)perylene	1.152	1.185		2.9	

All other compounds must meet a minimum RRF of 0.010.