

LAB CHRONICLE

OrderID:	P4722	OrderDate:	11/5/2024 3:33:08 PM
Client:	Walsh Construction Company II, LLC	Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
Contact:	Kayla Timony	Location:	L23,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4722-03	WC-1(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-03DL	WC-1(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	
P4722-08	WC-2(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-08DL	WC-2(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	
P4722-13	WC-3(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-13DL	WC-3(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	



SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/08/24 8:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	111		5	9.57	10.6	mg/kg	FE051107.D
Aliphatic C9-C28	Aliphatic C9-C28	34.6		1	1.83	4.25	mg/kg	FE051087.D
Total AliphaticEPH	Total AliphaticEPH	146			11.4	14.8	mg/kg	
Total EPH	Total EPH	146			11.4	14.8	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051087.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	34.6		1.83	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	94.8	E	1.91	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.3		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-03	Acq On:	07 Nov 2024 16:40
Client Sample ID:	WC-1(0-6)	Operator:	YP\AJ
Data file:	FE051087.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	3212816	22.963	300	ug/ml
Aliphatic C12-C16	6.758	10.189	6042880	42.968	200	ug/ml
Aliphatic C16-C21	10.190	13.548	24400913	177.116	300	ug/ml
Aliphatic C21-C28	13.549	17.202	32687587	244.025	400	ug/ml
Aliphatic C28-C40	17.203	22.047	172210772	1340	600	ug/ml
Aliphatic EPH	3.140	22.047	238554968	1820		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	5019328	33.44		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	4804413	42.32		ug/ml
Aliphatic C9-C28	3.140	17.202	66344196	487.072	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-03DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051107.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	34.9		9.14	21.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	111		9.57	10.6	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	10.0		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	7.80		40 - 140	78%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-03DL	Acq On:	08 Nov 2024 08:06
Client Sample ID:	WC-1(0-6)DL	Operator:	YP\AJ
Data file:	FE051107.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	177826	1.271	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1808787	12.862	200	ug/ml
Aliphatic C16-C21	10.192	13.550	5580024	40.503	300	ug/ml
Aliphatic C21-C28	13.551	17.206	6028165	45.003	400	ug/ml
Aliphatic C28-C40	17.207	22.053	40475708	314.378	600	ug/ml
Aliphatic EPH	3.140	22.053	54070510	414.016		ug/ml
ortho-Terphenyl (SURR)	11.849	11.849	1171181	7.8		ug/ml
1-chlorooctadecane (SURR)	13.283	13.283	1139588	10.04		ug/ml
Aliphatic C9-C28	3.140	17.206	13594802	99.639	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/08/24 8:36	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	126		5	9.99	11.1	mg/kg	FE051108.D
Aliphatic C9-C28	Aliphatic C9-C28	35.7		1	1.91	4.44	mg/kg	FE051088.D
Total AliphaticEPH	Total AliphaticEPH	162			11.9	15.5	mg/kg	
Total EPH	Total EPH	162			11.9	15.5	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051088.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	35.7		1.91	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	120	E	2.00	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-08	Acq On:	07 Nov 2024 17:10
Client Sample ID:	WC-2(0-6)	Operator:	YP\AJ
Data file:	FE051088.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	1980327	14.154	300	ug/ml
Aliphatic C12-C16	6.758	10.189	4610687	32.785	200	ug/ml
Aliphatic C16-C21	10.190	13.548	22243582	161.457	300	ug/ml
Aliphatic C21-C28	13.549	17.202	36797174	274.705	400	ug/ml
Aliphatic C28-C40	17.203	22.047	210369563	1630	600	ug/ml
Aliphatic EPH	3.140	22.047	276001333	2120		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	4714414	31.41		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	4513924	39.76		ug/ml
Aliphatic C9-C28	3.140	17.202	65631770	483.101	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-08DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051108.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	33.2		9.54	22.2	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	126		9.99	11.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	9.03		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	7.22		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-08DL	Acq On:	08 Nov 2024 08:36
Client Sample ID:	WC-2(0-6)DL	Operator:	YP\AJ
Data file:	FE051108.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	459729	3.286	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1357176	9.65	200	ug/ml
Aliphatic C16-C21	10.192	13.550	5012148	36.381	300	ug/ml
Aliphatic C21-C28	13.551	17.206	5389534	40.235	400	ug/ml
Aliphatic C28-C40	17.207	22.053	44149517	342.913	600	ug/ml
Aliphatic EPH	3.140	22.053	56368104	432.465		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	1083517	7.22		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	1025230	9.03		ug/ml
Aliphatic C9-C28	3.140	17.206	12218587	89.552	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/08/24 9:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	100		5	10.4	11.5	mg/kg FE051109.D
Aliphatic C9-C28	Aliphatic C9-C28	21.4		1	1.98	4.61	mg/kg FE051089.D
Total AliphaticEPH	Total AliphaticEPH	121			12.4	16.1	mg/kg
Total EPH	Total EPH	121			12.4	16.1	mg/kg

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051089.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	21.4		1.98	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	91.5	E	2.07	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.1		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.8		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-13	Acq On:	07 Nov 2024 17:40
Client Sample ID:	WC-3(0-6)	Operator:	YP\AJ
Data file:	FE051089.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	1512583	10.811	300	ug/ml
Aliphatic C12-C16	6.758	10.189	4667226	33.187	200	ug/ml
Aliphatic C16-C21	10.190	13.548	8166826	59.28	300	ug/ml
Aliphatic C21-C28	13.549	17.202	23630833	176.413	400	ug/ml
Aliphatic C28-C40	17.203	22.047	153532035	1190	600	ug/ml
Aliphatic EPH	3.140	22.047	191509503	1470		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	3722547	24.8		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	3191438	28.11		ug/ml
Aliphatic C9-C28	3.140	17.202	37977468	279.691	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-13DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051109.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.7	J	9.91	23.0	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	100		10.4	11.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	6.02		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	5.52		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-13DL	Acq On:	08 Nov 2024 09:06
Client Sample ID:	WC-3(0-6)DL	Operator:	YP\AJ
Data file:	FE051109.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	347187	2.481	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1099349	7.817	200	ug/ml
Aliphatic C16-C21	10.192	13.550	1812358	13.155	300	ug/ml
Aliphatic C21-C28	13.551	17.206	2653593	19.81	400	ug/ml
Aliphatic C28-C40	17.207	22.053	33665606	261.484	600	ug/ml
Aliphatic EPH	3.140	22.053	39578093	304.747		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	828088	5.52		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	683995	6.02		ug/ml
Aliphatic C9-C28	3.140	17.206	5912487	43.263	1200	ug/ml



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FC110724AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
JC-701-COMP-01MS	80	78		0
JC-701-COMP-01MSD	80	79		0
PB164751BL	89	87		0
PB164751BS	71	70		0
PB164751BSD	71	69		0

QC LIMITS

1-chlorooctadecane (SURR) (40-140)
ortho-Terphenyl (SURR) (40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

A
B
C
D
E
F

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FE110824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
WC-1 (0-6)	85	67		0
WC-2 (0-6)	80	63		0
WC-3 (0-6)	56	50		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FE110924AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
WC-1 (0-6) DL	100	78		0
WC-2 (0-6) DL	90	72		0
WC-3 (0-6) DL	60	55		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SOIL EPH SURROGATE RECOVERY

- A
- B
- C
- D
- E
- F

QC LIMITS

1-chlorooctadecane (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : P4720-01MS **Datafile:** FC067662.D
Client ID : JC-701-COMP-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	33.0	22.9	59.0	109		(40-140)
Aliphatic C9-C28	110.2	8.87	94.2	77		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : P4720-01MSD **Datafile:** FC067663.D
Client ID : JC-701-COMP-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS QC Limit Of RPD
Aliphatic C28-C40	33.1	22.9	60.8	114		4.48 (40-140) 25
Aliphatic C9-C28	110.3	8.87	94.8	78		0.6 (40-140) 25

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : PB164751BS **Datafile:** FC067658.D
Client ID : PB164751BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	27.0	90		(40-140)
Aliphatic C9-C28	100.1	68.6	68		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : PB164751BSD **Datafile:** FC067659.D
Client ID : PB164751BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	26.9	90		0.271 (40-140)	50
Aliphatic C9-C28	99.9	67.7	67		1.4 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164751BL

Lab Name: CHEMTECH

Contract: WALS01

Lab Code: CHEM Case No.: P4722

SAS No.: P4722 SDG NO.: P4722

Instrument ID: FID_C

Lab Sample ID: PB164751BL

Matrix: (soil/water) Solid

Date Extracted: 11/7/2024 9:50:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164751BS	PB164751BS
PB164751BSD	PB164751BSD
JC-701-COMP-01MS	P4720-01MS
JC-701-COMP-01MSD	P4720-01MSD
WC-1 (0-6)	P4722-03
WC-2 (0-6)	P4722-08
WC-3 (0-6)	P4722-13

COMMENTS: _____



QC SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BL	SDG No.:	P4722
Lab Sample ID:	PB164751BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 16:01	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067657.D
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	3.99	mg/kg	FC067657.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BL	SDG No.:	P4722
Lab Sample ID:	PB164751BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067657.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.7		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.5		40 - 140	87%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BL	Acq On:	07 Nov 2024 16:01
Client Sample ID:	PB164751BL	Operator:	YP/AJ
Data file:	FC067657.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	0	0	300	ug/ml
Aliphatic C12-C16	6.453	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.198	0	0	300	ug/ml
Aliphatic C21-C28	13.199	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.696	0	0	600	ug/ml
Aliphatic EPH	3.171	21.696	0	0		ug/ml
ortho-Terphenyl (SURR)	11.495	11.495	6376641	43.46		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	4824972	44.68		ug/ml
Aliphatic C9-C28	3.171	16.853	0	0	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BS	SDG No.:	P4722
Lab Sample ID:	PB164751BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 16:38	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	27.0		1	1.80	2.00	mg/kg	FC067658.D
Aliphatic C9-C28	Aliphatic C9-C28	68.6		1	1.72	4.00	mg/kg	FC067658.D
Total AliphaticEPH	Total AliphaticEPH	95.6			3.52	6.00	mg/kg	
Total EPH	Total EPH	95.6			3.52	6.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BS	SDG No.:	P4722
Lab Sample ID:	PB164751BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067658.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	68.6		1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.0		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.5		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BS	Acq On:	07 Nov 2024 16:38
Client Sample ID:	PB164751BS	Operator:	YP/AJ
Data file:	FC067658.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	23340030	172.29	300	ug/ml
Aliphatic C12-C16	6.453	9.842	30785801	233.789	200	ug/ml
Aliphatic C16-C21	9.843	13.198	34492727	271.094	300	ug/ml
Aliphatic C21-C28	13.199	16.853	42081404	350.414	400	ug/ml
Aliphatic C28-C40	16.854	21.696	41020113	405.765	600	ug/ml
Aliphatic EPH	3.171	21.696	171720075	1430		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5102855	34.78		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3829694	35.46		ug/ml
Aliphatic C9-C28	3.171	16.853	130699962	1030	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BSD	SDG No.:	P4722
Lab Sample ID:	PB164751BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 17:15	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1	1.80	2.00	mg/kg	FC067659.D
Aliphatic C9-C28	Aliphatic C9-C28	67.7		1	1.72	3.99	mg/kg	FC067659.D
Total AliphaticEPH	Total AliphaticEPH	94.6			3.52	5.99	mg/kg	
Total EPH	Total EPH	94.6			3.52	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BSD	SDG No.:	P4722
Lab Sample ID:	PB164751BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067659.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	67.7		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BSD	Acq On:	07 Nov 2024 17:15
Client Sample ID:	PB164751BSD	Operator:	YP/AJ
Data file:	FC067659.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	22832781	168.545	300	ug/ml
Aliphatic C12-C16	6.453	9.842	30414547	230.97	200	ug/ml
Aliphatic C16-C21	9.843	13.198	34276315	269.394	300	ug/ml
Aliphatic C21-C28	13.199	16.853	41846131	348.455	400	ug/ml
Aliphatic C28-C40	16.854	21.696	40767490	403.266	600	ug/ml
Aliphatic EPH	3.171	21.696	170137264	1420		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5066893	34.53		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3816449	35.34		ug/ml
Aliphatic C9-C28	3.171	16.853	129369774	1020	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MS	SDG No.:	P4722
Lab Sample ID:	P4720-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 19:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	59.0	E	1	1.98	2.20	mg/kg	FC067662.D
Aliphatic C9-C28	Aliphatic C9-C28	94.2	E	1	1.89	4.40	mg/kg	FC067662.D
Total AliphaticEPH	Total AliphaticEPH	153			3.87	6.60	mg/kg	
Total EPH	Total EPH	153			3.87	6.60	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MS	SDG No.:	P4722
Lab Sample ID:	P4720-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067662.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.2	E	1.89	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	59.0	E	1.98	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.2		40 - 140	78%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4720-01MS	Acq On:	07 Nov 2024 19:06
Client Sample ID:	JC-701-COMP-01MS	Operator:	YP/AJ
Data file:	FC067662.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	27643069	204.054	300	ug/ml
Aliphatic C12-C16	6.453	9.842	35970363	273.161	200	ug/ml
Aliphatic C16-C21	9.843	13.198	44280239	348.019	300	ug/ml
Aliphatic C21-C28	13.199	16.853	55024877	458.195	400	ug/ml
Aliphatic C28-C40	16.854	21.696	81289720	804.107	600	ug/ml
Aliphatic EPH	3.171	21.696	244208268	2090		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5745982	39.16		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4295154	39.77		ug/ml
Aliphatic C9-C28	3.171	16.853	162918548	1280	1200	ug/ml

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MSD	SDG No.:	P4722
Lab Sample ID:	P4720-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 19:43	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	60.8	E	1	1.98	2.21	mg/kg	FC067663.D
Aliphatic C9-C28	Aliphatic C9-C28	94.8	E	1	1.90	4.41	mg/kg	FC067663.D
Total AliphaticEPH	Total AliphaticEPH	156			3.88	6.62	mg/kg	
Total EPH	Total EPH	156			3.88	6.62	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC		Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2		Date Received:	
Client Sample ID:	JC-701-COMP-01MSD		SDG No.:	P4722
Lab Sample ID:	P4720-01MSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	90.6
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH_NF
Prep Method :				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067663.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.8	E	1.90	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	60.8	E	1.98	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.4		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4721-01MSD	Acq On:	07 Nov 2024 19:43
Client Sample ID:	JC-701-COMP-01MSD	Operator:	YP/AJ
Data file:	FC067663.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	27706187	204.52	300	ug/ml
Aliphatic C12-C16	6.453	9.842	36173313	274.703	200	ug/ml
Aliphatic C16-C21	9.843	13.198	44479004	349.581	300	ug/ml
Aliphatic C21-C28	13.199	16.853	55319709	460.651	400	ug/ml
Aliphatic C28-C40	16.854	21.696	83596065	826.921	600	ug/ml
Aliphatic EPH	3.171	21.696	247274278	2120		ug/ml
ortho-Terphenyl (SURR)	11.495	11.495	5776165	39.37		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4315956	39.97		ug/ml
Aliphatic C9-C28	3.171	16.853	163678213	1290	1200	ug/ml



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

Initial Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

Initial Calibration Report for SequenceID : FE110724AL

AreaCount

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	40063780.000	21137224.000	8264114.000	4331556.000	2144887.000	
Aliphatic C12-C16	26499750.000	14057359.000	5586564.000	2913018.000	1447905.000	
Aliphatic C16-C21	38600621.000	20520000.000	8195408.000	4299352.000	2152043.000	
Aliphatic C21-C28	49929068.000	26341355.000	10608674.000	5580376.000	2822212.000	
Aliphatic C28-C40	66927536.000	37036837.000	15654323.000	8140009.000	4278617.000	
Aliphatic EPH	222020755.000	119092775.000	48309083.000	25264311.000	12845664.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	139914.7319996	3.111				
Aliphatic C12-C16	140635.568	3.722				
Aliphatic C16-C21	137768.027333	4.421				
Aliphatic C21-C28	133951.574	4.9				
Aliphatic C28-C40	128748.4183328	9.249				
Aliphatic EPH	134589.7899996	5.649				

Concentration

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	133545.933333	140914.826666	137735.233333	144385.200000	142992.466666	
Aliphatic C12-C16	132498.750000	140573.590000	139664.100000	145650.900000	144790.500000	
Aliphatic C16-C21	128668.736666	136800.000000	136590.133333	143311.733333	143469.533333	

Initial Calibration Report for SequenceID : FE110724AL

Aliphatic C21-C28	124822.670000	131706.775000	132608.425000	139509.400000	141110.600000	
Aliphatic C28-C40	111545.893333	123456.123333	130452.691666	135666.816666	142620.566666	
Aliphatic EPH	123344.863888	132325.305555	134191.897222	140357.283333	142729.600000	

Continuing Calibration Report for SequenceID : FC110724AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC067656.D

Aliphatic C9-C12	8272580.000	60.000	3.171	6.452	137876.333	135469.641	-1.777
Aliphatic C12-C16	5401387.000	40.000	6.453	9.842	135034.675	131681.730	-2.546
Aliphatic C16-C21	7780791.000	60.000	9.843	13.198	129679.850	127235.092	-1.921
Aliphatic C21-C28	9757366.000	80.000	13.199	16.853	121967.075	120090.398	-1.563
Aliphatic C28-C40	12371203.000	120.000	16.854	21.696	103093.358	101093.195	-1.979
Aliphatic EPH	43583327.000	360.000	3.171	21.696	121064.797	118799.912	-1.906

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 12:46
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067656.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.452	8272580.000	60.000	ug/ml
Aliphatic C12-C16	6.453	9.842	5401387.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.198	7780791.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	9757366.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.696	12371203.000	120.000	ug/ml
Aliphatic EPH	3.171	21.696	43583327.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FC110724AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC067666.D

Aliphatic C9-C12	8377570.000	60.000	3.171	6.452	139626.167	135469.641	-3.068
Aliphatic C12-C16	5480862.000	40.000	6.453	9.842	137021.550	131681.730	-4.055
Aliphatic C16-C21	7888638.000	60.000	9.843	13.198	131477.300	127235.092	-3.334
Aliphatic C21-C28	9900793.000	80.000	13.199	16.853	123759.913	120090.398	-3.056
Aliphatic C28-C40	12533852.000	120.000	16.854	21.696	104448.767	101093.195	-3.319
Aliphatic EPH	44181715.000	360.000	3.171	21.696	122726.986	118799.912	-3.306

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 22:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067666.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.452	8377570.000	60.000	ug/ml
Aliphatic C12-C16	6.453	9.842	5480862.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.198	7888638.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	9900793.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.696	12533852.000	120.000	ug/ml
Aliphatic EPH	3.171	21.696	44181715.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FE110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051085.D

Aliphatic C9-C12	9183172.000	60.000	3.140	6.757	153052.867	139914.732	-9.390
Aliphatic C12-C16	6155237.000	40.000	6.758	10.189	153880.925	140635.568	-9.418
Aliphatic C16-C21	9038555.000	60.000	10.190	13.548	150642.583	137768.027	-9.345
Aliphatic C21-C28	11641146.000	80.000	13.549	17.202	145514.325	133951.574	-8.632
Aliphatic C28-C40	15647091.000	120.000	17.203	22.047	130392.425	128748.418	-1.277
Aliphatic EPH	51665201.000	360.000	3.140	22.047	143514.447	134589.790	-6.631

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 12:44
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051085.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.757	9183172.000	60.000	ug/ml
Aliphatic C12-C16	6.758	10.189	6155237.000	40.000	ug/ml
Aliphatic C16-C21	10.190	13.548	9038555.000	60.000	ug/ml
Aliphatic C21-C28	13.549	17.202	11641146.000	80.000	ug/ml
Aliphatic C28-C40	17.203	22.047	15647091.000	120.000	ug/ml
Aliphatic EPH	3.140	22.047	51665201.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FE110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051103.D

Aliphatic C9-C12	9283904.000	60.000	3.140	6.757	154731.733	139914.732	-10.590
Aliphatic C12-C16	6136911.000	40.000	6.758	10.189	153422.775	140635.568	-9.092
Aliphatic C16-C21	8903525.000	60.000	10.190	13.548	148392.083	137768.027	-7.712
Aliphatic C21-C28	11663758.000	80.000	13.549	17.202	145796.975	133951.574	-8.843
Aliphatic C28-C40	15600991.000	120.000	17.203	22.047	130008.258	128748.418	-0.979
Aliphatic EPH	51589089.000	360.000	3.140	22.047	143303.025	134589.790	-6.474

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 01:11
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051103.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.757	9283904.000	60.000	ug/ml
Aliphatic C12-C16	6.758	10.189	6136911.000	40.000	ug/ml
Aliphatic C16-C21	10.190	13.548	8903525.000	60.000	ug/ml
Aliphatic C21-C28	13.549	17.202	11663758.000	80.000	ug/ml
Aliphatic C28-C40	17.203	22.047	15600991.000	120.000	ug/ml
Aliphatic EPH	3.140	22.047	51589089.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FE110924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051106.D

Aliphatic C9-C12	9286782.000	60.000	3.140	6.758	154779.700	139914.732	-10.624
Aliphatic C12-C16	6146623.000	40.000	6.759	10.191	153665.575	140635.568	-9.265
Aliphatic C16-C21	8900683.000	60.000	10.192	13.550	148344.717	137768.027	-7.677
Aliphatic C21-C28	11665637.000	80.000	13.551	17.206	145820.463	133951.574	-8.861
Aliphatic C28-C40	15458424.000	120.000	17.207	22.053	128820.200	128748.418	-0.056
Aliphatic EPH	51458149.000	360.000	3.140	22.053	142939.303	134589.790	-6.204

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 05:18
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051106.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.758	9286782.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	6146623.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.550	8900683.000	60.000	ug/ml
Aliphatic C21-C28	13.551	17.206	11665637.000	80.000	ug/ml
Aliphatic C28-C40	17.207	22.053	15458424.000	120.000	ug/ml
Aliphatic EPH	3.140	22.053	51458149.000	360.000	ug/ml

Continuing Calibration Report for SequenceID : FE110924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051116.D

Aliphatic C9-C12	8815295.000	60.000	3.140	6.758	146921.583	139914.732	-5.008
Aliphatic C12-C16	5757616.000	40.000	6.759	10.191	143940.400	140635.568	-2.350
Aliphatic C16-C21	8410292.000	60.000	10.192	13.550	140171.533	137768.027	-1.745
Aliphatic C21-C28	11021730.000	80.000	13.551	17.206	137771.625	133951.574	-2.852
Aliphatic C28-C40	14486876.000	120.000	17.207	22.053	120723.967	128748.418	6.233
Aliphatic EPH	48491809.000	360.000	3.140	22.053	134699.469	134589.790	-0.081

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 13:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051116.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.758	8815295.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	5757616.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.550	8410292.000	60.000	ug/ml
Aliphatic C21-C28	13.551	17.206	11021730.000	80.000	ug/ml
Aliphatic C28-C40	17.207	22.053	14486876.000	120.000	ug/ml
Aliphatic EPH	3.140	22.053	48491809.000	360.000	ug/ml