



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

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-2	SDG No.:	O2509
Lab Sample ID:	O2509-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC063489.D	1	04/27/23	05/01/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.56	J	1.16	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.4		1.13	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.4		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.7		40 - 140	79%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-02	Acq On:	01 May 2023 09:37
Client Sample ID:	HL-2	Operator:	YP/AJ
Data file:	FC063489.D	Misc:	
Instrument:	FID_C	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.198	6.484	94034	0.686	300	ug/ml
Aliphatic C12-C16	6.485	9.880	377470	2.784	200	ug/ml
Aliphatic C16-C21	9.881	13.239	433688	3.193	300	ug/ml
Aliphatic C21-C28	13.240	16.891	2042738	15.214	400	ug/ml
Aliphatic C28-C40	16.892	21.751	20157521	153.846	600	ug/ml
Aliphatic EPH	3.198	21.751	23105451	175.724		ug/ml
ortho-Terphenyl (SURR)	11.535	11.535	6044760	39.73		ug/ml
1-chlorooctadecane (SURR)	12.972	12.972	3580661	32.36		ug/ml
Aliphatic C9-C28	3.198	16.891	2947930	21.877	1200	ug/ml



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Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-3	SDG No.:	O2509
Lab Sample ID:	O2509-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC063490.D	1	04/27/23	05/01/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.87		1.15	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.37		1.11	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.6		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.3		40 - 140	81%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-03	Acq On:	01 May 2023 10:15
Client Sample ID:	HL-3	Operator:	YP/AJ
Data file:	FC063490.D	Misc:	
Instrument:	FID_C	ALS Vial:	7
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.198	6.484	142123	1.037	300	ug/ml
Aliphatic C12-C16	6.485	9.880	505987	3.732	200	ug/ml
Aliphatic C16-C21	9.881	13.239	6697281	49.311	300	ug/ml
Aliphatic C21-C28	13.240	16.891	1854470	13.812	400	ug/ml
Aliphatic C28-C40	16.892	21.751	16863794	128.708	600	ug/ml
Aliphatic EPH	3.198	21.751	26063655	196.6		ug/ml
ortho-Terphenyl (SURR)	11.535	11.535	6126147	40.26		ug/ml
1-chlorooctadecane (SURR)	12.971	12.971	3833875	34.65		ug/ml
Aliphatic C9-C28	3.198	16.891	9199861	67.892	1200	ug/ml



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Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-1	SDG No.:	O2509
Lab Sample ID:	O2509-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE041596.D	1	04/27/23	04/28/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.11	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.71		1.08	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.3		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.6		40 - 140	41%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-01	Acq On:	28 Apr 2023 03:15
Client Sample ID:	HL-1	Operator:	YP\AJ
Data file:	FE041596.D	Misc:	
Instrument:	FID_E	ALS Vial:	37
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.256	6.877	446108	2.981	300	ug/ml
Aliphatic C12-C16	6.878	10.315	564694	3.626	200	ug/ml
Aliphatic C16-C21	10.316	13.682	522621	3.239	300	ug/ml
Aliphatic C21-C28	13.683	17.343	1083380	6.851	400	ug/ml
Aliphatic C28-C40	17.344	22.280	19134317	137.552	600	ug/ml
Aliphatic EPH	3.256	22.280	21751120	154.248		ug/ml
ortho-Terphenyl (SURR)	11.984	11.984	3869963	20.63		ug/ml
1-chlorooctadecane (SURR)	13.421	13.421	3150341	22.3		ug/ml
Aliphatic C9-C28	3.256	17.343	2616803	16.697	1200	ug/ml

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-4	SDG No.:	O2509
Lab Sample ID:	O2509-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.6
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
FE041599.D	1	04/27/23	04/28/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.15	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.62		1.11	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.0		40 - 140	50%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.9		40 - 140	48%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-04	Acq On:	28 Apr 2023 04:46
Client Sample ID:	HL-4	Operator:	YP\AJ
Data file:	FE041599.D	Misc:	
Instrument:	FID_E	ALS Vial:	40
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.256	6.877	430316	2.875	300	ug/ml
Aliphatic C12-C16	6.878	10.315	499143	3.205	200	ug/ml
Aliphatic C16-C21	10.316	13.682	631868	3.915	300	ug/ml
Aliphatic C21-C28	13.683	17.343	1130908	7.152	400	ug/ml
Aliphatic C28-C40	17.344	22.280	14579076	104.806	600	ug/ml
Aliphatic EPH	3.256	22.280	17271311	121.953		ug/ml
ortho-Terphenyl (SURR)	11.983	11.983	4487556	23.92		ug/ml
1-chlorooctadecane (SURR)	13.419	13.419	3537239	25.04		ug/ml
Aliphatic C9-C28	3.256	17.343	2692235	17.147	1200	ug/ml

Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-5	SDG No.:	O2509
Lab Sample ID:	O2509-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.4
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
FE041600.D	1	04/27/23	04/28/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.96		1.13	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.23		1.10	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.2		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.8		40 - 140	52%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-05	Acq On:	28 Apr 2023 05:16
Client Sample ID:	HL-5	Operator:	YP\AJ
Data file:	FE041600.D	Misc:	
Instrument:	FID_E	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.256	6.877	497684	3.325	300	ug/ml
Aliphatic C12-C16	6.878	10.315	588177	3.777	200	ug/ml
Aliphatic C16-C21	10.316	13.682	9263480	57.403	300	ug/ml
Aliphatic C21-C28	13.683	17.343	1227183	7.761	400	ug/ml
Aliphatic C28-C40	17.344	22.280	17828557	128.166	600	ug/ml
Aliphatic EPH	3.256	22.280	29405081	200.431		ug/ml
ortho-Terphenyl (SURR)	11.984	11.984	4844837	25.82		ug/ml
1-chlorooctadecane (SURR)	13.420	13.420	3839414	27.18		ug/ml
Aliphatic C9-C28	3.256	17.343	11576524	72.266	1200	ug/ml



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Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-6	SDG No.:	O2509
Lab Sample ID:	O2509-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.9
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE041601.D	1	04/27/23	04/28/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.13	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.57		1.10	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.9		40 - 140	52%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.8		40 - 140	50%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-06	Acq On:	28 Apr 2023 05:46
Client Sample ID:	HL-6	Operator:	YP\AJ
Data file:	FE041601.D	Misc:	
Instrument:	FID_E	ALS Vial:	42
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.256	6.877	440406	2.942	300	ug/ml
Aliphatic C12-C16	6.878	10.315	576979	3.705	200	ug/ml
Aliphatic C16-C21	10.316	13.682	665127	4.122	300	ug/ml
Aliphatic C21-C28	13.683	17.343	1117012	7.064	400	ug/ml
Aliphatic C28-C40	17.344	22.280	16642574	119.64	600	ug/ml
Aliphatic EPH	3.256	22.280	19442098	137.472		ug/ml
ortho-Terphenyl (SURR)	11.983	11.983	4645218	24.76		ug/ml
1-chlorooctadecane (SURR)	13.419	13.419	3665568	25.95		ug/ml
Aliphatic C9-C28	3.256	17.343	2799524	17.833	1200	ug/ml



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Report of Analysis

Client:	Remington & Vernick Engineers	Date Collected:	04/25/23
Project:	169 Bridgeton Pike Mullica Hill, NJ # 0800X062	Date Received:	04/26/23
Client Sample ID:	HL-7	SDG No.:	O2509
Lab Sample ID:	O2509-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE041602.D	1	04/27/23	04/28/23	PB152444

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.17	J	1.16	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.31		1.13	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	21.7		40 - 140	43%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.8		40 - 140	42%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O2509-07	Acq On:	28 Apr 2023 06:17
Client Sample ID:	HL-7	Operator:	YP\AJ
Data file:	FE041602.D	Misc:	
Instrument:	FID_E	ALS Vial:	43
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.256	6.877	445963	2.98	300	ug/ml
Aliphatic C12-C16	6.878	10.315	473625	3.041	200	ug/ml
Aliphatic C16-C21	10.316	13.682	7526199	46.638	300	ug/ml
Aliphatic C21-C28	13.683	17.343	1105117	6.989	400	ug/ml
Aliphatic C28-C40	17.344	22.280	15693710	112.819	600	ug/ml
Aliphatic EPH	3.256	22.280	25244614	172.466		ug/ml
ortho-Terphenyl (SURR)	11.983	11.983	3910461	20.84		ug/ml
1-chlorooctadecane (SURR)	13.420	13.420	3070677	21.74		ug/ml
Aliphatic C9-C28	3.256	17.343	9550904	59.648	1200	ug/ml