CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141212A

The QC data in batch 67076 applies to the following samples: 1412146-01A, 1412146-04A, 1412146-07A, 1412146-10A, 1412146-16A, 1412146-25A, 1412146-31A, 1412146-34A, 1412146-40A, 1412146-43A

Sample ID **MB-67076** Batch ID: **67076** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS4_141212A** Analysis Date: **12/12/2014 11:45:00 A** Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0100								
Acenaphthylene	ND	0.0100								
Anthracene	ND	0.0100								
Benzo[a]anthracene	ND	0.0100								
Benzo[a]pyrene	ND	0.0100								
Benzo[b]fluoranthene	ND	0.0100								
Benzo[g,h,i]perylene	ND	0.0100								
Benzo[k]fluoranthene	ND	0.0100								
Chrysene	ND	0.0100								
Dibenz[a,h]anthracene	ND	0.0100								
Fluoranthene	ND	0.0100								
Fluorene	ND	0.0100								
Indeno[1,2,3-cd]pyrene	ND	0.0100								
Naphthalene	ND	0.0100								
Phenanthrene	ND	0.0100								
Pyrene	ND	0.0100								
Surr: 2-Fluorobiphenyl	0.874		1.000		87.4	43	125			
Surr: 4-Terphenyl-d14	0.987		1.000		98.7	32	125			

Sample ID **LCS-67076** Batch ID: **67076** TestNo: **SW8270D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS4_141212A** Analysis Date: **12/12/2014 12:17:00 P** Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.927	0.0100	1.000	0	92.7	46	125			
Acenaphthylene	0.972	0.0100	1.000	0	97.2	44	125			
Anthracene	0.951	0.0100	1.000	0	95.1	53	125			
Benzo[a]anthracene	0.938	0.0100	1.000	0	93.8	52	125			
Benzo[a]pyrene	0.929	0.0100	1.000	0	92.9	50	125			
Benzo[b]fluoranthene	0.899	0.0100	1.000	0	89.9	45	125			
Benzo[g,h,i]perylene	1.05	0.0100	1.000	0	105	38	126			
Benzo[k]fluoranthene	0.825	0.0100	1.000	0	82.5	45	125			
Chrysene	0.776	0.0100	1.000	0	77.6	53	125			
Dibenz[a,h]anthracene	1.02	0.0100	1.000	0	102	41	125			
Fluoranthene	1.00	0.0100	1.000	0	100	54	125			
Fluorene	0.965	0.0100	1.000	0	96.5	49	125			
Indeno[1,2,3-cd]pyrene	1.00	0.0100	1.000	0	100	38	125			
Naphthalene	0.946	0.0100	1.000	0	94.6	40	125			
Phenanthrene	0.968	0.0100	1.000	0	96.8	50	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141212A

Sample ID	LCS-67076	Batch ID:	67076	TestNo:	SW8270D	Units:	mg/Kg
SampType:	LCS	Run ID:	GCMS4_141212A	Analysis Date:	12/12/2014 12:17:00 P	Prep Date:	12/11/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pyrene	0.941	0.0100	1.000	0	94.1	46	125			
Surr: 2-Fluorobiphenyl	0.899		1.000		89.9	43	125			
Surr: 4-Terphenyl-d14	1.03		1.000		103	32	125			

Sample ID	1412146-01AMS	Batch ID:	67076	TestNo:	SW8270D	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GCMS4_141212A	Analysis Date:	12/12/2014 7:31:00 PM	Prep Date:	12/11/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.09	0.0111	1.113	0.07374	91.4	46	125			
Acenaphthylene	1.04	0.0111	1.113	0	93.2	44	125			
Anthracene	1.16	0.0111	1.113	0.1350	92.2	53	125			
Benzo[a]anthracene	2.78	0.0111	1.113	1.584	107	52	125			
Benzo[a]pyrene	3.54	0.0111	1.113	2.263	114	50	125			
Benzo[b]fluoranthene	3.67	0.0111	1.113	2.471	108	45	125			
Benzo[g,h,i]perylene	2.81	0.0111	1.113	1.727	96.9	38	126			
Benzo[k]fluoranthene	2.88	0.0111	1.113	1.549	120	45	125			
Chrysene	2.86	0.0111	1.113	1.881	88.0	53	125			
Dibenz[a,h]anthracene	1.47	0.0111	1.113	0.3495	101	41	125			
Fluoranthene	3.38	0.0111	1.113	2.103	115	54	125			
Fluorene	1.13	0.0111	1.113	0.03216	98.7	49	125			
Indeno[1,2,3-cd]pyrene	2.88	0.0111	1.113	1.801	97.3	38	125			
Naphthalene	0.985	0.0111	1.113	0.01691	87.0	40	125			
Phenanthrene	1.74	0.0111	1.113	0.6642	97.0	50	125			
Pyrene	3.03	0.0111	1.113	1.869	104	46	125			
Surr: 2-Fluorobiphenyl	0.915		1.113		82.2	43	125			
Surr: 4-Terphenyl-d14	1.10		1.113		98.4	32	125			

Sample ID	1412146-01AMSD	Batch ID:	67076	TestNo:	SW8270D	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GCMS4_141212A	Analysis Date:	12/12/2014 8:03:00 PM	Prep Date:	12/11/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.09	0.0115	1.147	0.07374	88.6	46	125	0.145	30	
Acenaphthylene	1.07	0.0115	1.147	0	93.2	44	125	2.96	30	
Anthracene	1.16	0.0115	1.147	0.1350	89.0	53	125	0.424	30	
Benzo[a]anthracene	2.71	0.0115	1.147	1.584	98.4	52	125	2.41	30	
Benzo[a]pyrene	3.45	0.0115	1.147	2.263	104	50	125	2.34	30	
Benzo[b]fluoranthene	3.58	0.0115	1.147	2.471	96.9	45	125	2.52	30	
Benzo[g,h,i]perylene	2.70	0.0115	1.147	1.727	84.5	38	126	3.98	30	
Benzo[k]fluoranthene	2.89	0.0115	1.147	1.549	117	45	125	0.384	30	
Chrysene	2.82	0.0115	1.147	1.881	81.5	53	125	1.56	30	
Dibenz[a,h]anthracene	1.47	0.0115	1.147	0.3495	97.4	41	125	0.116	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141212A

Sample ID 1412146-01AMSD	Batch ID: 67076	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS4_141212A	Analysis Date: 12/12/2014 8:03:00 PM	Prep Date: 12/11/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	3.15	0.0115	1.147	2.103	91.7	54	125	6.88	30	
Fluorene	1.12	0.0115	1.147	0.03216	95.1	49	125	0.670	30	
Indeno[1,2,3-cd]pyrene	2.79	0.0115	1.147	1.801	86.3	38	125	3.29	30	
Naphthalene	1.02	0.0115	1.147	0.01691	87.2	40	125	3.10	30	
Phenanthrene	1.67	0.0115	1.147	0.6642	87.6	50	125	4.40	30	
Pyrene	2.91	0.0115	1.147	1.869	90.4	46	125	4.05	30	
Surr: 2-Fluorobiphenyl	0.924		1.147		80.6	43	125	0	0	
Surr: 4-Terphenyl-d14	1.09		1.147		94.8	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141212A

Sample ID	ICV-141212	Batch ID:	R76924	TestNo:	SW8270D	Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS4_141212A	Analysis Date:	12/12/2014 11:08:00 A	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.02	0.0100	2.000	0	101	80	120			
Acenaphthylene	2.18	0.0100	2.000	0	109	80	120			
Anthracene	2.19	0.0100	2.000	0	109	80	120			
Benzo[a]anthracene	2.03	0.0100	2.000	0	102	80	120			
Benzo[a]pyrene	2.01	0.0100	2.000	0	100	80	120			
Benzo[b]fluoranthene	1.95	0.0100	2.000	0	97.4	80	120			
Benzo[g,h,i]perylene	2.24	0.0100	2.000	0	112	80	120			
Benzo[k]fluoranthene	2.05	0.0100	2.000	0	103	80	120			
Chrysene	1.95	0.0100	2.000	0	97.6	80	120			
Dibenz[a,h]anthracene	2.21	0.0100	2.000	0	110	80	120			
Fluoranthene	2.09	0.0100	2.000	0	104	80	120			
Fluorene	2.17	0.0100	2.000	0	109	80	120			
Indeno[1,2,3-cd]pyrene	2.16	0.0100	2.000	0	108	80	120			
Naphthalene	2.31	0.0100	2.000	0	115	80	120			
Phenanthrene	2.21	0.0100	2.000	0	110	80	120			
Pyrene	2.05	0.0100	2.000	0	102	80	120			
Surr: 2-Fluorobiphenyl	2.05		2.000		102	65	120			
Surr: 4-Terphenyl-d14	2.17		2.000		108	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141219A

The QC data in batch 67231 applies to the following samples: 1412146-02A

Sample ID MB-67231 Batch ID: 67231 TestNo: SW8270D Units: mg/Kg
SampType: MBLK Run ID: GCMS4_141219A Analysis Date: 12/19/2014 11:52:00 A Prep Date: 12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0100								
Acenaphthylene	ND	0.0100								
Anthracene	ND	0.0100								
Benzo[a]anthracene	ND	0.0100								
Benzo[a]pyrene	ND	0.0100								
Benzo[b]fluoranthene	ND	0.0100								
Benzo[g,h,i]perylene	ND	0.0100								
Benzo[k]fluoranthene	ND	0.0100								
Chrysene	ND	0.0100								
Dibenz[a,h]anthracene	ND	0.0100								
Fluoranthene	ND	0.0100								
Fluorene	ND	0.0100								
Indeno[1,2,3-cd]pyrene	ND	0.0100								
Naphthalene	ND	0.0100								
Phenanthrene	ND	0.0100								
Pyrene	ND	0.0100								
Surr: 2-Fluorobiphenyl	0.737		1.000		73.7	43	125			
Surr: 4-Terphenyl-d14	0.953		1.000		95.3	32	125			

Sample ID LCS-67231 Batch ID: 67231 TestNo: SW8270D Units: mg/Kg
SampType: LCS Run ID: GCMS4_141219A Analysis Date: 12/19/2014 12:24:00 P Prep Date: 12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.885	0.0100	1.000	0	88.5	46	125			
Acenaphthylene	0.919	0.0100	1.000	0	91.9	44	125			
Anthracene	0.909	0.0100	1.000	0	90.9	53	125			
Benzo[a]anthracene	0.935	0.0100	1.000	0	93.5	52	125			
Benzo[a]pyrene	0.893	0.0100	1.000	0	89.3	50	125			
Benzo[b]fluoranthene	0.952	0.0100	1.000	0	95.2	45	125			
Benzo[g,h,i]perylene	1.05	0.0100	1.000	0	105	38	126			
Benzo[k]fluoranthene	0.944	0.0100	1.000	0	94.4	45	125			
Chrysene	0.893	0.0100	1.000	0	89.3	53	125			
Dibenz[a,h]anthracene	1.02	0.0100	1.000	0	102	41	125			
Fluoranthene	1.01	0.0100	1.000	0	101	54	125			
Fluorene	0.967	0.0100	1.000	0	96.7	49	125			
Indeno[1,2,3-cd]pyrene	0.966	0.0100	1.000	0	96.6	38	125			
Naphthalene	0.865	0.0100	1.000	0	86.5	40	125			
Phenanthrene	0.960	0.0100	1.000	0	96.0	50	125			
Pyrene	0.940	0.0100	1.000	0	94.0	46	125			
Surr: 2-Fluorobiphenyl	0.789		1.000		78.9	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141219A

Sample ID	LCS-67231	Batch ID:	67231	TestNo:	SW8270D	Units:	mg/Kg
SampType:	LCS	Run ID:	GCMS4_141219A	Analysis Date:	12/19/2014 12:24:00 P	Prep Date:	12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.997		1.000		99.7	32	125			

Sample ID	1412128-31CMS	Batch ID:	67231	TestNo:	SW8270D	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GCMS4_141219A	Analysis Date:	12/19/2014 8:51:00 PM	Prep Date:	12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.03	0.0112	1.123	0	91.6	46	125			
Acenaphthylene	1.09	0.0112	1.123	0.01611	95.9	44	125			
Anthracene	1.09	0.0112	1.123	0	96.7	53	125			
Benzo[a]anthracene	1.22	0.0112	1.123	0.01571	107	52	125			
Benzo[a]pyrene	1.18	0.0112	1.123	0.03049	103	50	125			
Benzo[b]fluoranthene	1.27	0.0112	1.123	0.04230	109	45	125			
Benzo[g,h,i]perylene	1.14	0.0112	1.123	0.02422	99.7	38	126			
Benzo[k]fluoranthene	1.09	0.0112	1.123	0	96.9	45	125			
Chrysene	1.11	0.0112	1.123	0.01593	97.2	53	125			
Dibenz[a,h]anthracene	1.18	0.0112	1.123	0	105	41	125			
Fluoranthene	1.23	0.0112	1.123	0.01992	107	54	125			
Fluorene	1.14	0.0112	1.123	0	102	49	125			
Indeno[1,2,3-cd]pyrene	1.18	0.0112	1.123	0.02193	103	38	125			
Naphthalene	0.948	0.0112	1.123	0	84.4	40	125			
Phenanthrene	1.15	0.0112	1.123	0	103	50	125			
Pyrene	1.23	0.0112	1.123	0.02774	107	46	125			
Surr: 2-Fluorobiphenyl	0.897		1.123		79.8	43	125			
Surr: 4-Terphenyl-d14	1.15		1.123		103	32	125			

Sample ID	1412128-31CMSD	Batch ID:	67231	TestNo:	SW8270D	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GCMS4_141219A	Analysis Date:	12/19/2014 9:23:00 PM	Prep Date:	12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.00	0.0117	1.172	0	85.5	46	125	2.58	30	
Acenaphthylene	1.06	0.0117	1.172	0.01611	89.4	44	125	2.74	30	
Anthracene	1.01	0.0117	1.172	0	86.4	53	125	7.01	30	
Benzo[a]anthracene	1.08	0.0117	1.172	0.01571	91.1	52	125	11.9	30	
Benzo[a]pyrene	1.07	0.0117	1.172	0.03049	88.7	50	125	9.90	30	
Benzo[b]fluoranthene	1.16	0.0117	1.172	0.04230	95.7	45	125	8.42	30	
Benzo[g,h,i]perylene	1.02	0.0117	1.172	0.02422	85.1	38	126	11.3	30	
Benzo[k]fluoranthene	1.01	0.0117	1.172	0	85.8	45	125	7.81	30	
Chrysene	0.994	0.0117	1.172	0.01593	83.4	53	125	10.9	30	
Dibenz[a,h]anthracene	1.06	0.0117	1.172	0	90.2	41	125	11.0	30	
Fluoranthene	1.17	0.0117	1.172	0.01992	98.5	54	125	4.23	30	
Fluorene	1.10	0.0117	1.172	0	94.0	49	125	3.80	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141219A

Sample ID 1412128-31CMSD	Batch ID: 67231	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS4_141219A	Analysis Date: 12/19/2014 9:23:00 PM	Prep Date: 12/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.04	0.0117	1.172	0.02193	86.6	38	125	12.6	30	
Naphthalene	0.960	0.0117	1.172	0	81.9	40	125	1.19	30	
Phenanthrene	1.06	0.0117	1.172	0	90.8	50	125	8.14	30	
Pyrene	1.08	0.0117	1.172	0.02774	89.5	46	125	13.0	30	
Surr: 2-Fluorobiphenyl	0.877		1.172		74.8	43	125	0	0	
Surr: 4-Terphenyl-d14	1.14		1.172		96.9	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_141219A

Sample ID	ICV1-141219	Batch ID:	R77103	TestNo:	SW8270D	Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS4_141219A	Analysis Date:	12/19/2014 11:21:00 A	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.01	0.0100	2.000	0	100	80	120			
Acenaphthylene	2.12	0.0100	2.000	0	106	80	120			
Anthracene	1.97	0.0100	2.000	0	98.4	80	120			
Benzo[a]anthracene	2.02	0.0100	2.000	0	101	80	120			
Benzo[a]pyrene	1.92	0.0100	2.000	0	95.9	80	120			
Benzo[b]fluoranthene	2.06	0.0100	2.000	0	103	80	120			
Benzo[g,h,i]perylene	2.20	0.0100	2.000	0	110	80	120			
Benzo[k]fluoranthene	1.90	0.0100	2.000	0	94.8	80	120			
Chrysene	1.95	0.0100	2.000	0	97.5	80	120			
Dibenz[a,h]anthracene	2.21	0.0100	2.000	0	110	80	120			
Fluoranthene	2.11	0.0100	2.000	0	106	80	120			
Fluorene	2.16	0.0100	2.000	0	108	80	120			
Indeno[1,2,3-cd]pyrene	2.19	0.0100	2.000	0	110	80	120			
Naphthalene	2.20	0.0100	2.000	0	110	80	120			
Phenanthrene	2.13	0.0100	2.000	0	106	80	120			
Pyrene	1.97	0.0100	2.000	0	98.4	80	120			
Surr: 2-Fluorobiphenyl	2.03		2.000		102	65	120			
Surr: 4-Terphenyl-d14	2.19		2.000		110	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_141212B

The QC data in batch 67077 applies to the following samples: 1412146-49A, 1412146-50A

Sample ID **MB-67077** Batch ID: **67077** TestNo: **SW8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS6_141212B** Analysis Date: **12/12/2014 3:36:00 PM** Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0000500								
Acenaphthylene	ND	0.0000500								
Anthracene	ND	0.0000500								
Benzo[a]anthracene	ND	0.0000500								
Benzo[a]pyrene	ND	0.0000500								
Benzo[b]fluoranthene	ND	0.0000500								
Benzo[g,h,i]perylene	ND	0.0000500								
Benzo[k]fluoranthene	ND	0.0000500								
Chrysene	ND	0.0000500								
Dibenz[a,h]anthracene	ND	0.0000500								
Fluoranthene	ND	0.0000500								
Fluorene	ND	0.0000500								
Indeno[1,2,3-cd]pyrene	ND	0.0000500								
Naphthalene	ND	0.0000500								
Phenanthrene	ND	0.0000500								
Pyrene	ND	0.0000500								
Surr: 2-Fluorobiphenyl	5.83		8.000		72.9	48	120			
Surr: 4-Terphenyl-d14	7.02		8.000		87.7	51	135			

Sample ID **LCS-67077** Batch ID: **67077** TestNo: **SW8270D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_141212B** Analysis Date: **12/12/2014 4:19:00 PM** Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00329	0.0000500	0.00400	0	82.2	47	120			
Acenaphthylene	0.00332	0.0000500	0.00400	0	83.0	50	120			
Anthracene	0.00311	0.0000500	0.00400	0	77.9	54	120			
Benzo[a]anthracene	0.00356	0.0000500	0.00400	0	89.1	56	100			
Benzo[a]pyrene	0.00359	0.0000500	0.00400	0	89.8	53	120			
Benzo[b]fluoranthene	0.00356	0.0000500	0.00400	0	89.0	45	124			
Benzo[g,h,i]perylene	0.00366	0.0000500	0.00400	0	91.4	38	123			
Benzo[k]fluoranthene	0.00368	0.0000500	0.00400	0	91.9	45	124			
Chrysene	0.00294	0.0000500	0.00400	0	73.5	55	120			
Dibenz[a,h]anthracene	0.00373	0.0000500	0.00400	0	93.2	42	127			
Fluoranthene	0.00354	0.0000500	0.00400	0	88.4	54	120			
Fluorene	0.00358	0.0000500	0.00400	0	89.6	50	120			
Indeno[1,2,3-cd]pyrene	0.00367	0.0000500	0.00400	0	91.8	43	125			
Naphthalene	0.00323	0.0000500	0.00400	0	80.6	39	120			
Phenanthrene	0.00369	0.0000500	0.00400	0	92.2	51	120			
Pyrene	0.00351	0.0000500	0.00400	0	87.7	49	128			
Surr: 2-Fluorobiphenyl	6.11		8.000		76.4	48	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_141212B

Sample ID **LCS-67077**	Batch ID: **67077**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS6_141212B**	Analysis Date: **12/12/2014 4:19:00 PM**	Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	7.28		8.000		91.0	51	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_141212B

Sample ID	ICV1-141212	Batch ID:	R76923	TestNo:	SW8270D	Units:	mg/L
SampType:	ICV	Run ID:	GCMS6_141212B	Analysis Date:	12/12/2014 2:52:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.97	0.0000500	2.00	0	98.7	80	120			
Acenaphthylene	1.98	0.0000500	2.00	0	98.8	80	120			
Anthracene	1.85	0.0000500	2.00	0	92.3	80	120			
Benzo[a]anthracene	1.93	0.0000500	2.00	0	96.3	80	120			
Benzo[a]pyrene	1.92	0.0000500	2.00	0	96.2	80	120			
Benzo[b]fluoranthene	1.91	0.0000500	2.00	0	95.3	80	120			
Benzo[g,h,i]perylene	1.95	0.0000500	2.00	0	97.6	80	120			
Benzo[k]fluoranthene	1.91	0.0000500	2.00	0	95.7	80	120			
Chrysene	1.92	0.0000500	2.00	0	96.1	80	120			
Dibenz[a,h]anthracene	2.00	0.0000500	2.00	0	99.9	80	120			
Fluoranthene	1.84	0.0000500	2.00	0	92.1	80	120			
Fluorene	2.15	0.0000500	2.00	0	107	80	120			
Indeno[1,2,3-cd]pyrene	1.97	0.0000500	2.00	0	98.5	80	120			
Naphthalene	2.06	0.0000500	2.00	0	103	80	120			
Phenanthrene	2.12	0.0000500	2.00	0	106	80	120			
Pyrene	1.84	0.0000500	2.00	0	92.2	80	120			
Surr: 2-Fluorobiphenyl	1900		2000		95.0	65	120			
Surr: 4-Terphenyl-d14	1920		2000		95.9	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_141211A

The QC data in batch 67070 applies to the following samples: 1412146-01A, 1412146-04A, 1412146-07A, 1412146-10A, 1412146-16A, 1412146-25A

Sample ID **1412146-25A-DUP**	Batch ID: **67070**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_141211A**	Analysis Date: **12/12/2014 10:57:00 A**	Prep Date: **12/11/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	20.0	0	0	14.77				29.9	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_141211B**

The QC data in batch 67082 applies to the following samples: 1412146-31A, 1412146-34A, 1412146-40A, 1412146-43A

Sample ID **1412154-16A-DUP**	Batch ID: **67082**	TestNo: **D2216**	Units: **WT%**		
SampType: **DUP**	Run ID: **PMOIST_141211B**	Analysis Date: **12/12/2014 11:03:00 A**	Prep Date: **12/11/2014**		

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.0	0	0	13.80				1.42	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1412146
Project: Lake Charles

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_141218D**

The QC data in batch 67248 applies to the following samples: 1412146-02A

Sample ID **1412244-01A-DUP**	Batch ID: **67248**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_141218D**	Analysis Date: **12/19/2014 1:57:00 PM**	Prep Date: **12/18/2014**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	18.3	0	0	17.82				2.78	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

January 13, 2015

Hayden Murrell
Environeering Inc.
810 Highway 6 South, Sutie 200
Houston, TX 77079
TEL: (281) 493-9005
FAX (281) 493-9007

Order No.: 1501025

RE: Lake Charles, LA

Dear Hayden Murrell:

DHL Analytical, Inc. received 4 sample(s) on 1/7/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Louisiana Laboratory Certification Number: 02044 (NELAC).

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 66729

CHAIN-OF-CUSTODY

CLIENT: ENVIRONEERING INC
ADDRESS: 810 - HWY 6 HOUSTON
PHONE: 281-493-9005 FAX/E-MAIL: BSTEVENS@ENVIRONEERINGINC
DATA REPORTED TO: BILL STEVENS
ADDITIONAL REPORT COPIES TO:

DATE: 1/6/15 PAGE 1 OF 1
PO #: INL6 DHL WORK ORDER #: 1501025
PROJECT LOCATION OR NAME: LAKE CHARLES, LA
CLENT PROJECT #: COLLECTOR:

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR O=OTHER L=LIQUID SO=SOLID

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ GRO (METHOD 8015) ☐ DRO (METHOD 8015) ☐ VOC 8260 ☐ VOC 8260/5035 ☐ VOC 624 ☐ VOC 8260 ☐ SVOC 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ RCRA ☐ TX11 ☐ ☐ PH ☐ HEX CHROM ☐ ALKALINITY ☐ ☐ CHLORIDE ☐ ANIONS ☐ TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ RCI ☐ TOX ☐ FLASHPOINT ☐ TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
~~LN6-109(0-0.5)~~													
~~-109(0.5-1)~~													
~~-109(1.0-1.5)~~													
LN6-SB-123 (0-0.5)	01	1/6/15	835	SOIL	4 oz Jar							X	RUN
LN6-SB-123 (0-0.5) DUP	02	↓	835	↓	↓							X	RUN
LN6-SB-124 (0-0.5)	03	↓	845	↓	↓							X	HOLD
EQUIP BLANK	04	↓	700	AQ	500ML Amber							X	RUN
TEMP BLANK				↓	40ml	↓							
added per H. Mundell 1/9/15 4:00 pm. after (24 hour Rush)													
TOTAL													

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	1/6/15 1230	[signature]
[signature]	1/7/15 1000	[signature]

TURN AROUND TIME: RUSH ☐ CALL FIRST; 1 DAY ☐ CALL FIRST; 2 DAY ☑; NORMAL ☐; OTHER ☐

LABORATORY USE ONLY: RECEIVING TEMP: 4.1 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☑ INTACT ☐ NOT USED
☑ CARRIER BILL #: [signature]
☐ APC DELIVERY
☐ HAND DELIVERED

☐ DHL DISPOSAL @ $5.00 each ☐ Return

ORIGIN ID:LCHA (281) 493-9005
ENVIRONEERING INC

810 HIGHWAY 6 S STE 200

HOUSTON, TX 770794022
UNITED STATES US

SHIP DATE: 06JAN15
ACTWGT: 43.8 LB
CAD: /OFFCIS22
DIMS: 25x14x14 IN

BILL SENDER

TO DAVID DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(612) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0215 8771 0365 5280

WED - 07 JAN 10:30A
PRIORITY OVERNIGHT

XH BSMA

78664
TX-US AUS

CUSTODY SEAL
DATE 1/6/15
SIGNATURE

Quality Environmental Containers
800-255-3950 • 30[illegible]-255-3900

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Environeering Inc. Date Received: 1/7/2015

Work Order Number 1501025 Received by JB

Checklist completed by: Signature 1/7/2015 Date Reviewed by Initials 1/7/2015 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4.1 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc. **Date:** *13-Jan-15*

CLIENT: Environeering Inc.
Project: Lake Charles, LA
Lab Order: 1501025

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW8270D - PAH Analysis (soil & water)
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 1/7/15. A total of 4 samples were received. On 1/9/15 PAH analysis was added on to sample LNG-SB-124 (0-0.5) as per the client. This was performed as requested. The samples arrived in good condition and were properly packaged.

PAH ANALYSIS

For PAH analysis (water batch 67569) only Equipment Blanks were analyzed. The QC includes the method blank and LCS.

For PAH analysis performed on 1/7/15 (soil batch 67559) the matrix spike recovery was slightly above control limits for three compounds. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT: Environeering Inc.
Project: Lake Charles, LA
Lab Order: 1501025

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1501025-01	LNG-SB-123 (0-0.5)		01/06/15 08:35 AM	1/7/2015
1501025-02	LNG-SB-123 (0-0.5) DUP		01/06/15 08:35 AM	1/7/2015
1501025-03	LNG-SB-124 (0-0.5)		01/06/15 08:45 AM	1/7/2015
1501025-04	EQUIP BLANK		01/06/15 09:00 AM	1/7/2015

DHL Analytical, Inc.

Lab Order: 1501025
Client: Environeering Inc.
Project: Lake Charles, LA

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1501025-01A	LNG-SB-123 (0-0.5)	01/06/15 08:35 AM	Soil	D2216	Moisture Preparation	01/07/15 04:30 PM	67561
	LNG-SB-123 (0-0.5)	01/06/15 08:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/07/15 11:22 AM	67559
1501025-02A	LNG-SB-123 (0-0.5) DUP	01/06/15 08:35 AM	Soil	D2216	Moisture Preparation	01/07/15 04:30 PM	67561
	LNG-SB-123 (0-0.5) DUP	01/06/15 08:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/07/15 11:22 AM	67559
1501025-03A	LNG-SB-124 (0-0.5)	01/06/15 08:45 AM	Soil	D2216	Moisture Preparation	01/12/15 05:00 PM	67628
	LNG-SB-124 (0-0.5)	01/06/15 08:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/07/15 11:22 AM	67559
1501025-04A	EQUIP BLANK	01/06/15 09:00 AM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	01/07/15 01:07 PM	67569

DHL Analytical, Inc.

Lab Order: 1501025
Client: Environeering Inc.
Project: Lake Charles, LA

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1501025-01A	LNG-SB-123 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	67559	1	01/08/15 01:48 AM	GCMS6_150107B
	LNG-SB-123 (0-0.5)	Soil	D2216	Percent Moisture	67561	1	01/08/15 11:08 AM	PMOIST_150107C
1501025-02A	LNG-SB-123 (0-0.5) DUP	Soil	SW8270D	PAHs: GC/MS	67559	1	01/08/15 02:32 AM	GCMS6_150107B
	LNG-SB-123 (0-0.5) DUP	Soil	D2216	Percent Moisture	67561	1	01/08/15 11:08 AM	PMOIST_150107C
1501025-03A	LNG-SB-124 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	67559	1	01/08/15 03:15 AM	GCMS6_150107C
	LNG-SB-124 (0-0.5)	Soil	D2216	Percent Moisture	67628	1	01/13/15 11:42 AM	PMOIST_150112A
1501025-04A	EQUIP BLANK	Equip Blank	SW8270D	PAHs: GC/MS	67569	1	01/07/15 07:17 PM	GCMS6_150107A

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT: Environeering Inc.
Project: Lake Charles, LA
Project No:
Lab Order: 1501025

Client Sample ID: LNG-SB-123 (0-0.5)
Lab ID: 1501025-01
Collection Date: 01/06/15 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **AS**
Acenaphthene	0.0903	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Acenaphthylene	ND	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Anthracene	0.185	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Benzo[a]anthracene	2.63	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Benzo[a]pyrene	3.99	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Benzo[b]fluoranthene	3.65	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Benzo[g,h,i]perylene	3.77	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Benzo[k]fluoranthene	1.43	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Chrysene	3.33	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Dibenz[a,h]anthracene	0.856	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Fluoranthene	3.30	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Fluorene	0.0373	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Indeno[1,2,3-cd]pyrene	2.95	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Naphthalene	0.0258	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Phenanthrene	1.00	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Pyrene	3.13	0.00670	0.0134		mg/Kg-dry	1	01/08/15 01:48 AM
Surr: 2-Fluorobiphenyl	110	0	43-125		%REC	1	01/08/15 01:48 AM
Surr: 4-Terphenyl-d14	110	0	32-125		%REC	1	01/08/15 01:48 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	20.8	0	0		WT%	1	01/08/15 11:08 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT:	Environeering Inc.	**Client Sample ID:**	LNG-SB-123 (0-0.5) DUP
Project:	Lake Charles, LA	**Lab ID:**	1501025-02
Project No:		**Collection Date:**	01/06/15 08:35 AM
Lab Order:	1501025	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **AS**
Acenaphthene	0.0954	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Acenaphthylene	ND	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Anthracene	0.190	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Benzo[a]anthracene	2.59	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Benzo[a]pyrene	3.94	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Benzo[b]fluoranthene	3.58	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Benzo[g,h,i]perylene	3.76	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Benzo[k]fluoranthene	1.42	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Chrysene	3.34	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Dibenz[a,h]anthracene	0.875	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Fluoranthene	3.29	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Fluorene	0.0383	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Indeno[1,2,3-cd]pyrene	2.97	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Naphthalene	0.0256	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Phenanthrene	0.996	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Pyrene	3.14	0.00675	0.0135		mg/Kg-dry	1	01/08/15 02:32 AM
Surr: 2-Fluorobiphenyl	110	0	43-125		%REC	1	01/08/15 02:32 AM
Surr: 4-Terphenyl-d14	110	0	32-125		%REC	1	01/08/15 02:32 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	21.5	0	0		WT%	1	01/08/15 11:08 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT: Environeering Inc.
Project: Lake Charles, LA
Project No:
Lab Order: 1501025

Client Sample ID: LNG-SB-124 (0-0.5)
Lab ID: 1501025-03
Collection Date: 01/06/15 08:45 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **AS**
Acenaphthene	0.128	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Acenaphthylene	ND	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Anthracene	0.258	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Benzo[a]anthracene	2.97	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Benzo[a]pyrene	4.39	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Benzo[b]fluoranthene	3.87	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Benzo[g,h,i]perylene	4.25	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Benzo[k]fluoranthene	1.57	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Chrysene	3.75	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Dibenz[a,h]anthracene	0.954	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Fluoranthene	4.05	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Fluorene	0.0556	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Indeno[1,2,3-cd]pyrene	3.24	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Naphthalene	0.0348	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Phenanthrene	1.29	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Pyrene	3.82	0.00702	0.0140		mg/Kg-dry	1	01/08/15 03:15 AM
Surr: 2-Fluorobiphenyl	113	0	43-125		%REC	1	01/08/15 03:15 AM
Surr: 4-Terphenyl-d14	112	0	32-125		%REC	1	01/08/15 03:15 AM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	27.4	0	0		WT%	1	01/13/15 11:42 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT: Environeering Inc.
Project: Lake Charles, LA
Project No:
Lab Order: 1501025

Client Sample ID: EQUIP BLANK
Lab ID: 1501025-04
Collection Date: 01/06/15 09:00 AM
Matrix: EQUIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **AS**
Acenaphthene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Acenaphthylene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Anthracene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Benzo[a]anthracene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Benzo[a]pyrene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Benzo[b]fluoranthene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Benzo[g,h,i]perylene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Benzo[k]fluoranthene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Chrysene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Dibenz[a,h]anthracene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Fluoranthene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Fluorene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Indeno[1,2,3-cd]pyrene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Naphthalene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Phenanthrene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Pyrene	ND	0.0000261	0.0000522		mg/L	1	01/07/15 07:17 PM
Surr: 2-Fluorobiphenyl	95.6	0	48-120		%REC	1	01/07/15 07:17 PM
Surr: 4-Terphenyl-d14	107	0	51-135		%REC	1	01/07/15 07:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *13-Jan-15*

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107A

The QC data in batch 67569 applies to the following samples: 1501025-04A

Sample ID **MB-67569** Batch ID: **67569** TestNo: **SW8270D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS6_150107A** Analysis Date: **1/7/2015 5:50:00 PM** Prep Date: **1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0000500								
Acenaphthylene	ND	0.0000500								
Anthracene	ND	0.0000500								
Benzo[a]anthracene	ND	0.0000500								
Benzo[a]pyrene	ND	0.0000500								
Benzo[b]fluoranthene	ND	0.0000500								
Benzo[g,h,i]perylene	ND	0.0000500								
Benzo[k]fluoranthene	ND	0.0000500								
Chrysene	ND	0.0000500								
Dibenz[a,h]anthracene	ND	0.0000500								
Fluoranthene	ND	0.0000500								
Fluorene	ND	0.0000500								
Indeno[1,2,3-cd]pyrene	ND	0.0000500								
Naphthalene	ND	0.0000500								
Phenanthrene	ND	0.0000500								
Pyrene	ND	0.0000500								
Surr: 2-Fluorobiphenyl	7.23		8.000		90.4	48	120			
Surr: 4-Terphenyl-d14	7.86		8.000		98.2	51	135			

Sample ID **LCS-67569** Batch ID: **67569** TestNo: **SW8270D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS6_150107A** Analysis Date: **1/7/2015 6:33:00 PM** Prep Date: **1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.00351	0.0000500	0.00400	0	87.8	47	120			
Acenaphthylene	0.00350	0.0000500	0.00400	0	87.5	50	120			
Anthracene	0.00352	0.0000500	0.00400	0	87.9	54	120			
Benzo[a]anthracene	0.00377	0.0000500	0.00400	0	94.3	56	100			
Benzo[a]pyrene	0.00392	0.0000500	0.00400	0	98.1	53	120			
Benzo[b]fluoranthene	0.00395	0.0000500	0.00400	0	98.8	45	124			
Benzo[g,h,i]perylene	0.00470	0.0000500	0.00400	0	117	38	123			
Benzo[k]fluoranthene	0.00393	0.0000500	0.00400	0	98.2	45	124			
Chrysene	0.00378	0.0000500	0.00400	0	94.5	55	120			
Dibenz[a,h]anthracene	0.00472	0.0000500	0.00400	0	118	42	127			
Fluoranthene	0.00394	0.0000500	0.00400	0	98.5	54	120			
Fluorene	0.00368	0.0000500	0.00400	0	92.0	50	120			
Indeno[1,2,3-cd]pyrene	0.00468	0.0000500	0.00400	0	117	43	125			
Naphthalene	0.00349	0.0000500	0.00400	0	87.3	39	120			
Phenanthrene	0.00401	0.0000500	0.00400	0	100	51	120			
Pyrene	0.00393	0.0000500	0.00400	0	98.2	49	128			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107A

Sample ID **LCS-67569**	Batch ID: **67569**	TestNo: **SW8270D**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS6_150107A**	Analysis Date: **1/7/2015 6:33:00 PM**	Prep Date: **1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	6.61		8.000		82.7	48	120			
Surr: 4-Terphenyl-d14	8.01		8.000		100	51	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107A

Sample ID	ICV-150107	Batch ID:	R77387	TestNo:	SW8270D	Units:	mg/L
SampType:	ICV	Run ID:	GCMS6_150107A	Analysis Date:	1/7/2015 5:07:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.12	0.0000500	2.00	0	106	80	120			
Acenaphthylene	2.15	0.0000500	2.00	0	108	80	120			
Anthracene	1.79	0.0000500	2.00	0	89.7	80	120			
Benzo[a]anthracene	1.97	0.0000500	2.00	0	98.5	80	120			
Benzo[a]pyrene	2.04	0.0000500	2.00	0	102	80	120			
Benzo[b]fluoranthene	1.95	0.0000500	2.00	0	97.6	80	120			
Benzo[g,h,i]perylene	2.24	0.0000500	2.00	0	112	80	120			
Benzo[k]fluoranthene	2.02	0.0000500	2.00	0	101	80	120			
Chrysene	1.98	0.0000500	2.00	0	99.0	80	120			
Dibenz[a,h]anthracene	2.24	0.0000500	2.00	0	112	80	120			
Fluoranthene	2.18	0.0000500	2.00	0	109	80	120			
Fluorene	2.23	0.0000500	2.00	0	112	80	120			
Indeno[1,2,3-cd]pyrene	2.21	0.0000500	2.00	0	111	80	120			
Naphthalene	2.17	0.0000500	2.00	0	109	80	120			
Phenanthrene	2.28	0.0000500	2.00	0	114	80	120			
Pyrene	2.22	0.0000500	2.00	0	111	80	120			
Surr: 2-Fluorobiphenyl	2090		2000		105	65	120			
Surr: 4-Terphenyl-d14	2240		2000		112	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107B

The QC data in batch 67559 applies to the following samples: 1501025-01A, 1501025-02A, 1501025-03A

Sample ID MB-67559 Batch ID: 67559 TestNo: SW8270D Units: mg/Kg
SampType: MBLK Run ID: GCMS6_150107B Analysis Date: 1/7/2015 8:00:00 PM Prep Date: 1/7/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0100								
Acenaphthylene	ND	0.0100								
Anthracene	ND	0.0100								
Benzo[a]anthracene	ND	0.0100								
Benzo[a]pyrene	ND	0.0100								
Benzo[b]fluoranthene	ND	0.0100								
Benzo[g,h,i]perylene	ND	0.0100								
Benzo[k]fluoranthene	ND	0.0100								
Chrysene	ND	0.0100								
Dibenz[a,h]anthracene	ND	0.0100								
Fluoranthene	ND	0.0100								
Fluorene	ND	0.0100								
Indeno[1,2,3-cd]pyrene	ND	0.0100								
Naphthalene	ND	0.0100								
Phenanthrene	ND	0.0100								
Pyrene	ND	0.0100								
Surr: 2-Fluorobiphenyl	0.933		1.000		93.3	43	125			
Surr: 4-Terphenyl-d14	0.959		1.000		95.9	32	125			

Sample ID LCS-67559 Batch ID: 67559 TestNo: SW8270D Units: mg/Kg
SampType: LCS Run ID: GCMS6_150107B Analysis Date: 1/7/2015 8:44:00 PM Prep Date: 1/7/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	0.960	0.0100	1.000	0	96.0	46	125			
Acenaphthylene	0.954	0.0100	1.000	0	95.4	44	125			
Anthracene	0.950	0.0100	1.000	0	95.0	53	125			
Benzo[a]anthracene	0.967	0.0100	1.000	0	96.7	52	125			
Benzo[a]pyrene	0.942	0.0100	1.000	0	94.2	50	125			
Benzo[b]fluoranthene	0.983	0.0100	1.000	0	98.3	45	125			
Benzo[g,h,i]perylene	1.10	0.0100	1.000	0	110	38	126			
Benzo[k]fluoranthene	0.929	0.0100	1.000	0	92.9	45	125			
Chrysene	0.971	0.0100	1.000	0	97.1	53	125			
Dibenz[a,h]anthracene	1.17	0.0100	1.000	0	117	41	125			
Fluoranthene	1.03	0.0100	1.000	0	103	54	125			
Fluorene	1.00	0.0100	1.000	0	100	49	125			
Indeno[1,2,3-cd]pyrene	1.17	0.0100	1.000	0	117	38	125			
Naphthalene	0.931	0.0100	1.000	0	93.1	40	125			
Phenanthrene	1.10	0.0100	1.000	0	110	50	125			
Pyrene	1.04	0.0100	1.000	0	104	46	125			
Surr: 2-Fluorobiphenyl	0.896		1.000		89.6	43	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107B

Sample ID LCS-67559	Batch ID: 67559	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS6_150107B	Analysis Date: 1/7/2015 8:44:00 PM	Prep Date: 1/7/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14	0.969		1.000		96.9	32	125			

Sample ID 1501010-33CMS	Batch ID: 67559	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS6_150107B	Analysis Date: 1/8/2015 3:59:00 AM	Prep Date: 1/7/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.33	0.0129	1.211	0	110	46	125			
Acenaphthylene	1.33	0.0129	1.211	0	110	44	125			
Anthracene	1.31	0.0129	1.211	0	108	53	125			
Benzo[a]anthracene	1.40	0.0129	1.211	0	116	52	125			
Benzo[a]pyrene	1.41	0.0129	1.211	0	116	50	125			
Benzo[b]fluoranthene	1.36	0.0129	1.211	0	112	45	125			
Benzo[g,h,i]perylene	1.57	0.0129	1.211	0	130	38	126			S
Benzo[k]fluoranthene	1.37	0.0129	1.211	0	113	45	125			
Chrysene	1.38	0.0129	1.211	0	114	53	125			
Dibenz[a,h]anthracene	1.55	0.0129	1.211	0	128	41	125			S
Fluoranthene	1.41	0.0129	1.211	0	117	54	125			
Fluorene	1.39	0.0129	1.211	0	115	49	125			
Indeno[1,2,3-cd]pyrene	1.54	0.0129	1.211	0	127	38	125			S
Naphthalene	1.28	0.0129	1.211	0	106	40	125			
Phenanthrene	1.50	0.0129	1.211	0	124	50	125			
Pyrene	1.41	0.0129	1.211	0	116	46	125			
Surr: 2-Fluorobiphenyl	1.24		1.211		103	43	125			
Surr: 4-Terphenyl-d14	1.28		1.211		106	32	125			

Sample ID 1501010-33CMSD	Batch ID: 67559	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS6_150107B	Analysis Date: 1/8/2015 4:42:00 AM	Prep Date: 1/7/2015

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	1.33	0.0125	1.211	0	109	46	125	0.424	30	
Acenaphthylene	1.30	0.0125	1.211	0	107	44	125	2.29	30	
Anthracene	1.27	0.0125	1.211	0	105	53	125	2.77	30	
Benzo[a]anthracene	1.32	0.0125	1.211	0	109	52	125	5.89	30	
Benzo[a]pyrene	1.31	0.0125	1.211	0	108	50	125	7.55	30	
Benzo[b]fluoranthene	1.26	0.0125	1.211	0	104	45	125	7.45	30	
Benzo[g,h,i]perylene	1.41	0.0125	1.211	0	116	38	126	11.0	30	
Benzo[k]fluoranthene	1.28	0.0125	1.211	0	106	45	125	6.61	30	
Chrysene	1.29	0.0125	1.211	0	106	53	125	7.14	30	
Dibenz[a,h]anthracene	1.40	0.0125	1.211	0	115	41	125	10.4	30	
Fluoranthene	1.38	0.0125	1.211	0	114	54	125	2.04	30	
Fluorene	1.39	0.0125	1.211	0	115	49	125	0.021	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107B

Sample ID **1501010-33CMSD**	Batch ID: **67559**	TestNo: **SW8270D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS6_150107B**	Analysis Date: **1/8/2015 4:42:00 AM**	Prep Date: **1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno[1,2,3-cd]pyrene	1.39	0.0125	1.211	0	115	38	125	9.74	30	
Naphthalene	1.25	0.0125	1.211	0	103	40	125	2.53	30	
Phenanthrene	1.47	0.0125	1.211	0	121	50	125	1.84	30	
Pyrene	1.37	0.0125	1.211	0	113	46	125	3.19	30	
Surr: 2-Fluorobiphenyl	1.25		1.211		104	43	125	0	0	
Surr: 4-Terphenyl-d14	1.28		1.211		106	32	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107B

Sample ID ICV-150107	Batch ID: R77391	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS6_150107B	Analysis Date: 1/7/2015 5:07:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.12	0.0100	2.000	0	106	80	120			
Acenaphthylene	2.15	0.0100	2.000	0	108	80	120			
Anthracene	1.79	0.0100	2.000	0	89.7	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.5	80	120			
Benzo[a]pyrene	2.04	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	1.95	0.0100	2.000	0	97.6	80	120			
Benzo[g,h,i]perylene	2.24	0.0100	2.000	0	112	80	120			
Benzo[k]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Chrysene	1.98	0.0100	2.000	0	99.0	80	120			
Dibenz[a,h]anthracene	2.24	0.0100	2.000	0	112	80	120			
Fluoranthene	2.18	0.0100	2.000	0	109	80	120			
Fluorene	2.23	0.0100	2.000	0	112	80	120			
Indeno[1,2,3-cd]pyrene	2.21	0.0100	2.000	0	111	80	120			
Naphthalene	2.17	0.0100	2.000	0	109	80	120			
Phenanthrene	2.28	0.0100	2.000	0	114	80	120			
Pyrene	2.22	0.0100	2.000	0	111	80	120			
Surr: 2-Fluorobiphenyl	2.09		2.000		105	65	120			
Surr: 4-Terphenyl-d14	2.24		2.000		112	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107C

The QC data in batch 67559 applies to the following samples: 1501025-01A, 1501025-02A, 1501025-03A

Sample ID	**MB-67559**	Batch ID:	**67559**	TestNo:	**SW8270D**	Units:	**mg/Kg**
SampType:	**MBLK**	Run ID:	**GCMS6_150107C**	Analysis Date:	**1/7/2015 8:00:00 PM**	Prep Date:	**1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.0100								
Acenaphthylene	ND	0.0100								
Anthracene	ND	0.0100								
Benzo[a]anthracene	ND	0.0100								
Benzo[a]pyrene	ND	0.0100								
Benzo[b]fluoranthene	ND	0.0100								
Benzo[g,h,i]perylene	ND	0.0100								
Benzo[k]fluoranthene	ND	0.0100								
Chrysene	ND	0.0100								
Dibenz[a,h]anthracene	ND	0.0100								
Fluoranthene	ND	0.0100								
Fluorene	ND	0.0100								
Indeno[1,2,3-cd]pyrene	ND	0.0100								
Naphthalene	ND	0.0100								
Phenanthrene	ND	0.0100								
Pyrene	ND	0.0100								
Surr: 2-Fluorobiphenyl	0.933		1.000		93.3	43	125			
Surr: 4-Terphenyl-d14	0.959		1.000		95.9	32	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_150107C

Sample ID ICV-150107	Batch ID: R77409	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS6_150107C	Analysis Date: 1/7/2015 5:07:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	2.12	0.0100	2.000	0	106	80	120			
Acenaphthylene	2.15	0.0100	2.000	0	108	80	120			
Anthracene	1.79	0.0100	2.000	0	89.7	80	120			
Benzo[a]anthracene	1.97	0.0100	2.000	0	98.5	80	120			
Benzo[a]pyrene	2.04	0.0100	2.000	0	102	80	120			
Benzo[b]fluoranthene	1.95	0.0100	2.000	0	97.6	80	120			
Benzo[g,h,i]perylene	2.24	0.0100	2.000	0	112	80	120			
Benzo[k]fluoranthene	2.02	0.0100	2.000	0	101	80	120			
Chrysene	1.98	0.0100	2.000	0	99.0	80	120			
Dibenz[a,h]anthracene	2.24	0.0100	2.000	0	112	80	120			
Fluoranthene	2.18	0.0100	2.000	0	109	80	120			
Fluorene	2.23	0.0100	2.000	0	112	80	120			
Indeno[1,2,3-cd]pyrene	2.21	0.0100	2.000	0	111	80	120			
Naphthalene	2.17	0.0100	2.000	0	109	80	120			
Phenanthrene	2.28	0.0100	2.000	0	114	80	120			
Pyrene	2.22	0.0100	2.000	0	111	80	120			
Surr: 2-Fluorobiphenyl	2.09		2.000		105	65	120			
Surr: 4-Terphenyl-d14	2.24		2.000		112	65	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150107C**

The QC data in batch 67561 applies to the following samples: 1501025-01A, 1501025-02A

Sample ID **1501025-02A-DUP** Batch ID: **67561** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_150107C** Analysis Date: **1/8/2015 11:08:00 AM** Prep Date: **1/7/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	21.9	0	0	21.52				1.87	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Environeering Inc.
Work Order: 1501025
Project: Lake Charles, LA

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_150112A**

The QC data in batch 67628 applies to the following samples: 1501025-03A

Sample ID **1501069-02A-DUP** Batch ID: **67628** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_150112A** Analysis Date: **1/13/2015 11:42:00 AM** Prep Date: **1/12/2015**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	18.9	0	0	18.67				0.981	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

February 03, 2015

Hayden Murrell
Environeering Inc.
810 Highway 6 South, Sutie 200
Houston, TX 77079
TEL: (281) 493-9005
FAX (281) 493-9007

Order No.: 1501291

RE: Lake Charles

Dear Hayden Murrell:

DHL Analytical, Inc. received 7 sample(s) on 1/29/2015 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Louisiana Laboratory Certification Number: 02044 (NELAC).

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-82[illegible] FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 65123

CHAIN-OF-CUSTO

CLIENT: ENVIRONEERING INC
ADDRESS: 810 HWY 6 SOUTH HOUSTON, TEXAS
PHONE: 281-493-9005 FAX/E-MAIL:
DATA REPORTED TO: BILL STEVENS
ADDITIONAL REPORT COPIES TO:

DATE:
PAGE 1 OF
PO #: TNLG DHL WORK ORDER #: 1501291
PROJECT LOCATION OR NAME: LAKE CHARLES
CLENT PROJECT #: COLLECTOR: HAYDEN MURR

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) ☐; TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐; GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐; VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐; 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8270 PCB ☐; 8270 O-P PEST ☐ 8082 PCB ☐ 608 PCB ☐; 8321 HERB ☐ T PHOS, AMMONIA ☐; METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐; RCRA ☐ TX/11 ☐ ☐; PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐; CHLORIDE ☐ ANIONS ☐; TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐; TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐; RCI ☐ FLASHPOINT ☐ DGAS ☐; TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐ (METHOD 8021) ☐	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO (METHOD 8015) ☐ DRO (METHOD 8105) ☐	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8270 PCB ☐	8270 O-P PEST ☐ 8082 PCB ☐ 608 PCB ☐	8321 HERB ☐ T PHOS, AMMONIA ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	RCRA ☐ TX/11 ☐ ☐	PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	CHLORIDE ☐ ANIONS ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ FLASHPOINT ☐ DGAS ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	FIELD NOTES
LNG-SB-125 (0-0.5)	01	1/28/15	910	SOIL	4 OZ G	1				X									X										
LNG-SB-126 (0-0.5)	02		920																										
LNG-SB-127 (0-0.5)	03		935																										
LNG-SB-128 (0-0.5)	04		945																										
LNG-SB-129 (0-0.5)	05		1000																										
LNG-SB-DUP	06		900																										
EQUIPBLANK	07		1100	WATER	500ML AMBER	2																							

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[illegible]	(1200) 1/28/15	[illegible]
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[illegible]	1/29/15	945 [illegible]
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☑
NORMAL ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.9 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☑ INTACT ☐ NOT U
CARRIER: ☐ LONE STAR ☑ FEDEX ☐ UPS ☐ OTH
☐ COURIER DELIVERY
☐ HAND DELIVERED

ORIGIN ID:LCHA (281) 493-8005
ENVIRONEERING INC

810 HIGHWAY 6 S STE 200

HOUSTON, TX 770794022
UNITED STATES US

SHIP DATE: 28JAN15
ACTWGT: 51.7 LB
CAD: /OFFC1522
DIMS: 24x15x13 IN

BILL SENDER

TO JOHN DUPONT
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0215 8771 0365 5442

THU - 29 JAN 10:30A
PRIORITY OVERNIGHT

XH BSMA

78664
TX-US AUS

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL
DATE 1/28/15
SIGNATURE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Environeering Inc.** Date Received: **1/29/2015**

Work Order Number **1501291** Received by **JB**

Checklist completed by: Signature 1/29/2015 Date Reviewed by Initials 1/29/2015 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	2.9 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

DHL Analytical, Inc. **Date:** *03-Feb-15*

CLIENT: Environeering Inc.
Project: Lake Charles
Lab Order: 1501291

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

Method SW8270D - PAH Analysis (soil & water)
Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 1/29/15. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

PAH ANALYSIS

For PAH analysis (Equip Blank Batch 67998) an MS/MSD was not performed due to fact that batch is QC sample. An LCS/LCSD was performed instead.

For PAH analysis sample LNG-SB-129 (0-0.5) was diluted prior to analysis due to the nature of the sample (concentration of target compounds).

For PAH analysis performed on 1/30/15 (Eq. Blank Batch 67998) the LCSD was slightly above control limits for Benzo[a]anthracene. This is flagged accordingly in the QC summary report. The LCS was within control limits for this compound and sample was non-detect. No further corrective actions were taken.

For PAH analysis, the recovery of Benzo[b]fluoranthene for the Initial Calibration Verification (ICV-150201) was slightly above the method control limits specified in SW8270D (80-120% recovery). This is flagged accordingly in the QC summary report. The number of target analytes outside of the method control limits for the ICV is less than 20% of the total number of compounds being reported; this is allowed in SW8270D specifications. This compound was within method control limits in the associated LCS. No further corrective actions were taken.

For PAH analysis performed on 2/1/15 the surrogate recovery for ICV-150201 was slightly above control limits for 4-Terphenyl-d14. This is flagged accordingly. The remaining surrogate was within control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *03-Feb-15*

CLIENT: Environeering Inc.
Project: Lake Charles
Lab Order: 1501291

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1501291-01	LNG-SB-125 (0-0.5)		01/28/15 09:10 AM	1/29/2015
1501291-02	LNG-SB-126 (0-0.5)		01/28/15 09:20 AM	1/29/2015
1501291-03	LNG-SB-127 (0-0.5)		01/28/15 09:35 AM	1/29/2015
1501291-04	LNG-SB-128 (0-0.5)		01/28/15 09:45 AM	1/29/2015
1501291-05	LNG-SB-129 (0-0.5)		01/28/15 10:00 AM	1/29/2015
1501291-06	LNG-SB-DUP		01/28/15 09:10 AM	1/29/2015
1501291-07	EQUIP BLANK		01/28/15 11:00 AM	1/29/2015

Lab Order: 1501291
Client: Environeering Inc.
Project: Lake Charles

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1501291-01A	LNG-SB-125 (0-0.5)	01/28/15 09:10 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-125 (0-0.5)	01/28/15 09:10 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-02A	LNG-SB-126 (0-0.5)	01/28/15 09:20 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-126 (0-0.5)	01/28/15 09:20 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-03A	LNG-SB-127 (0-0.5)	01/28/15 09:35 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-127 (0-0.5)	01/28/15 09:35 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-04A	LNG-SB-128 (0-0.5)	01/28/15 09:45 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-128 (0-0.5)	01/28/15 09:45 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-05A	LNG-SB-129 (0-0.5)	01/28/15 10:00 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-129 (0-0.5)	01/28/15 10:00 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-06A	LNG-SB-DUP	01/28/15 09:10 AM	Soil	D2216	Moisture Preparation	01/31/15 02:25 PM	68026
	LNG-SB-DUP	01/28/15 09:10 AM	Soil	SW3550C	Soil Prep Sonication: PAH	01/30/15 10:07 AM	68005
1501291-07A	EQUIP BLANK	01/28/15 11:00 AM	Equip Blank	SW3510C	Aq Prep Sep Funnel: PAH	01/30/15 08:28 AM	67998

DHL Analytical, Inc.

Lab Order: 1501291
Client: Environeering Inc.
Project: Lake Charles

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1501291-01A	LNG-SB-125 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	68005	1	02/01/15 03:40 PM	GCMS6_150201A
	LNG-SB-125 (0-0.5)	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-02A	LNG-SB-126 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	68005	1	02/01/15 04:24 PM	GCMS6_150201A
	LNG-SB-126 (0-0.5)	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-03A	LNG-SB-127 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	68005	1	02/01/15 05:06 PM	GCMS6_150201A
	LNG-SB-127 (0-0.5)	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-04A	LNG-SB-128 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	68005	1	02/01/15 07:15 PM	GCMS6_150201A
	LNG-SB-128 (0-0.5)	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-05A	LNG-SB-129 (0-0.5)	Soil	SW8270D	PAHs: GC/MS	68005	2	02/01/15 07:58 PM	GCMS6_150201A
	LNG-SB-129 (0-0.5)	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-06A	LNG-SB-DUP	Soil	SW8270D	PAHs: GC/MS	68005	1	02/01/15 05:49 PM	GCMS6_150201A
	LNG-SB-DUP	Soil	D2216	Percent Moisture	68026	1	02/01/15 07:45 PM	PMOIST_150131A
1501291-07A	EQUIP BLANK	Equip Blank	SW8270D	PAHs: GC/MS	67998	1	01/30/15 02:19 PM	GCMS6_150130A

DHL Analytical, Inc.

Date: *03-Feb-15*

CLIENT: Environeering Inc.
Project: Lake Charles
Project No:
Lab Order: 1501291

Client Sample ID: LNG-SB-125 (0-0.5)
Lab ID: 1501291-01
Collection Date: 01/28/15 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **DEW**
Acenaphthene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Acenaphthylene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Anthracene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Benzo[a]anthracene	0.0259	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Benzo[a]pyrene	0.0423	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Benzo[b]fluoranthene	0.0504	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Benzo[g,h,i]perylene	0.0417	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Benzo[k]fluoranthene	0.0175	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Chrysene	0.0367	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Dibenz[a,h]anthracene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Fluoranthene	0.0398	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Fluorene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Indeno[1,2,3-cd]pyrene	0.0318	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Naphthalene	ND	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Phenanthrene	0.0145	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Pyrene	0.0362	0.00613	0.0123		mg/Kg-dry	1	02/01/15 03:40 PM
Surr: 2-Fluorobiphenyl	87.5	0	43-125		%REC	1	02/01/15 03:40 PM
Surr: 4-Terphenyl-d14	97.6	0	32-125		%REC	1	02/01/15 03:40 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	20.2	0	0		WT%	1	02/01/15 07:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *03-Feb-15*

CLIENT:	Environeering Inc.	**Client Sample ID:**	LNG-SB-126 (0-0.5)
Project:	Lake Charles	**Lab ID:**	1501291-02
Project No:		**Collection Date:**	01/28/15 09:20 AM
Lab Order:	1501291	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **DEW**
Acenaphthene	ND	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Acenaphthylene	ND	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Anthracene	ND	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Benzo[a]anthracene	0.0545	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Benzo[a]pyrene	0.0871	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Benzo[b]fluoranthene	0.0922	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Benzo[g,h,i]perylene	0.0706	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Benzo[k]fluoranthene	0.0380	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Chrysene	0.0779	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Dibenz[a,h]anthracene	0.0138	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Fluoranthene	0.105	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Fluorene	ND	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Indeno[1,2,3-cd]pyrene	0.0598	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Naphthalene	ND	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Phenanthrene	0.0310	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Pyrene	0.0895	0.00563	0.0113		mg/Kg-dry	1	02/01/15 04:24 PM
Surr: 2-Fluorobiphenyl	86.0	0	43-125		%REC	1	02/01/15 04:24 PM
Surr: 4-Terphenyl-d14	101	0	32-125		%REC	1	02/01/15 04:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	15.7	0	0		WT%	1	02/01/15 07:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: *03-Feb-15*

CLIENT:	Environeering Inc.	**Client Sample ID:**	LNG-SB-127 (0-0.5)
Project:	Lake Charles	**Lab ID:**	1501291-03
Project No:		**Collection Date:**	01/28/15 09:35 AM
Lab Order:	1501291	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PAHS: GC/MS		**SW8270D**					Analyst: **DEW**
Acenaphthene	ND	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Acenaphthylene	ND	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Anthracene	ND	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Benzo[a]anthracene	0.0404	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Benzo[a]pyrene	0.0598	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Benzo[b]fluoranthene	0.0648	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Benzo[g,h,i]perylene	0.0482	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Benzo[k]fluoranthene	0.0245	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Chrysene	0.0531	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Dibenz[a,h]anthracene	0.00840	0.00548	0.0110	J	mg/Kg-dry	1	02/01/15 05:06 PM
Fluoranthene	0.0626	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Fluorene	ND	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Indeno[1,2,3-cd]pyrene	0.0399	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Naphthalene	ND	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Phenanthrene	0.0214	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Pyrene	0.0561	0.00548	0.0110		mg/Kg-dry	1	02/01/15 05:06 PM
Surr: 2-Fluorobiphenyl	90.2	0	43-125		%REC	1	02/01/15 05:06 PM
Surr: 4-Terphenyl-d14	102	0	32-125		%REC	1	02/01/15 05:06 PM
PERCENT MOISTURE		**D2216**					Analyst: **JL**
Percent Moisture	16.0	0	0		WT%	1	02/01/15 07:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		