TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-67393-1
Client Project/Site: City of Hollywood
Revision: 1

For:
Langan Engineering & Environmental Srvcs
15150 NW 79th Court
Suite 200
Miami Lakes, Florida 33016

Attn: Dan Spector

Authorized for release by:
1/7/2016 1:11:10 PM
Matt Jones, Project Manager I
(850)878-3994
matt.jones@testamericainc.com

Designee for

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

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Sample Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-67393-1	LMW-B4	Water	06/11/15 09:23	06/12/15 08:50
660-67393-2	LMW-DP1	Water	06/11/15 10:36	06/12/15 08:50
660-67393-3	LMW-B3	Water	06/11/15 12:41	06/12/15 08:50
660-67393-4	LMW-DP2	Water	06/11/15 13:41	06/12/15 08:50
660-67393-5	LMW-2A	Water	06/11/15 15:36	06/12/15 08:50

Case Narrative

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Job ID: 660-67393-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-67393-1

Receipt
The samples were received on 6/12/2015 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.7º C, 0.7º C, 0.9º C, 1.3º C and 1.5º C.

Laboratory Comments
Due to system limitations Total Endosulfans and Total PCB's are not included in this report. The data for these summary analytes has been calculated by hand and entered into the accompanying EDD.

GC/MS VOA
Method 8260B: The sample duplicate (DUP) precision for 158876 was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D LL: The following analyte recovered outside control limits for the LCSD associated with 640-117308 and 640-117308: Fluorene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) precision for 640-117308 and 640-117308 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8141B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 640-117314 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract non-Sister
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-261268.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

DIOXIN

Qualifier	Qualifier Description
J	Estimated value; value may not be accurate.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Indicates the analyte was detected in both the sample and method blank.

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-B4 — Lab Sample ID: 660-67393-1

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	0.816	J I	47.8	0.183	0.1	0.082	pg/L	1		1613B	Total
1,2,3,7,8,9-HxCDD	0.607	J I	47.8	0.165	0.1	0.061	pg/L	1		1613B	Total
Total HxCDD	7.77	J I	47.8	0.171			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDD	29.2	V I	47.8	0.524	0.01	0.29	pg/L	1		1613B	Total
Total HpCDD	62.5	I V	47.8	0.524			pg/L	1		1613B	Total
OCDD	321	V	95.6	0.871	0.001	0.32	pg/L	1		1613B	Total
Total TCDF	4.69	J I	9.56	0.165			pg/L	1		1613B	Total
Total PeCDF	2.97	J I	47.8	0.192			pg/L	1		1613B	Total
2,3,4,6,7,8-HxCDF	0.500	J V I	47.8	0.215	0.1	0.050	pg/L	1		1613B	Total
Total HxCDF	5.65	J I V	47.8	0.211			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDF	2.42	J V I	47.8	0.112	0.01	0.024	pg/L	1		1613B	Total
Total HpCDF	4.76	J I V	47.8	0.134			pg/L	1		1613B	Total
OCDF	5.87	V I	95.6	0.130	0.001	0.0059	pg/L	1		1613B	Total

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	9.9		0.20	0.040	ug/L	1		8270D LL	Total/NA
Anthracene	1.1		0.20	0.040	ug/L	1		8270D LL	Total/NA
Benzo[a]anthracene	0.086	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Benzo[a]pyrene	0.042	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Benzo[b]fluoranthene	0.056	I	0.10	0.025	ug/L	1		8270D LL	Total/NA
Chrysene	0.082	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Fluoranthene	1.8		0.20	0.025	ug/L	1		8270D LL	Total/NA
Fluorene	7.3	J3	0.20	0.040	ug/L	1		8270D LL	Total/NA
1-Methylnaphthalene	2.9		0.20	0.040	ug/L	1		8270D LL	Total/NA
2-Methylnaphthalene	1.8		0.20	0.031	ug/L	1		8270D LL	Total/NA
Naphthalene	0.28		0.20	0.040	ug/L	1		8270D LL	Total/NA
Phenanthrene	7.9		0.20	0.040	ug/L	1		8270D LL	Total/NA
Pyrene	1.1		0.20	0.025	ug/L	1		8270D LL	Total/NA
Total Petroleum Hydrocarbons (C8-C40)	400		150	24	ug/L	1		FL-PRO	Total/NA
Arsenic	89		2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	630		5.0	1.3	ug/L	1		6020A	Total Recoverable
Lead	4.8		1.5	0.20	ug/L	1		6020A	Total Recoverable

Client Sample ID: LMW-DP1 — Lab Sample ID: 660-67393-2

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.137	J I	9.60	0.161			pg/L	1		1613B	Total
Total PeCDD	0.419	J I	48.0	0.102			pg/L	1		1613B	Total
1,2,3,7,8,9-HxCDD	0.541	J I	48.0	0.204	0.1	0.054	pg/L	1		1613B	Total
Total HxCDD	3.10	J I	48.0	0.211			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDD	24.4	J V I	48.0	0.679	0.01	0.24	pg/L	1		1613B	Total
Total HpCDD	40.6	J I V	48.0	0.679			pg/L	1		1613B	Total
OCDD	156	V	96.0	0.631	0.001	0.16	pg/L	1		1613B	Total
Total TCDF	0.551	J I	9.60	0.173			pg/L	1		1613B	Total
Total PeCDF	1.67	J I	48.0	0.234			pg/L	1		1613B	Total
Total HxCDF	1.07	J I	48.0	0.219			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDF	0.690	J V I	48.0	0.138	0.01	0.0069	pg/L	1		1613B	Total
Total HpCDF	1.86	I J V	48.0	0.170			pg/L	1		1613B	Total

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP1 (Continued)

Lab Sample ID: 660-67393-2

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
OCDF	2.38	V I	96.0	0.146	0.001	0.0024	pg/L	1		1613B	Total

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.12	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.054	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Fluorene	0.13	I J3	0.20	0.040	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.066	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Pyrene	0.032	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Arsenic	8.4		2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	460		5.0	1.3	ug/L	1		6020A	Total Recoverable
Lead	1.6		1.5	0.20	ug/L	1		6020A	Total Recoverable

Client Sample ID: LMW-B3

Lab Sample ID: 660-67393-3

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.473	J V I	48.4	0.157	0.5	0.24	pg/L	1		1613B	Total
Total PeCDD	0.473	J V I	48.4	0.157			pg/L	1		1613B	Total
1,2,3,6,7,8-HxCDD	1.67	J I	48.4	0.215	0.1	0.17	pg/L	1		1613B	Total
1,2,3,7,8,9-HxCDD	0.990	J I	48.4	0.193	0.1	0.099	pg/L	1		1613B	Total
Total HxCDD	18.3	J I	48.4	0.200			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDD	71.7	V	48.4	0.659	0.01	0.72	pg/L	1		1613B	Total
Total HpCDD	138	V	48.4	0.659			pg/L	1		1613B	Total
OCDD	636	V	96.8	0.883	0.001	0.64	pg/L	1		1613B	Total
2,3,7,8-TCDF	0.0983	J I	9.68	0.127	0.1	0.0098	pg/L	1		1613B	Total
Total TCDF	2.06	J I	9.68	0.127			pg/L	1		1613B	Total
Total PeCDF	0.357	J I	48.4	0.175			pg/L	1		1613B	Total
1,2,3,6,7,8-HxCDF	0.501	J I	48.4	0.170	0.1	0.050	pg/L	1		1613B	Total
Total HxCDF	6.25	J I	48.4	0.183			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDF	2.06	V I	48.4	0.137	0.01	0.021	pg/L	1		1613B	Total
Total HpCDF	4.76	J I V	48.4	0.166			pg/L	1		1613B	Total
OCDF	3.67	J V I	96.8	0.137	0.001	0.0037	pg/L	1		1613B	Total

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	I	20	9.9	ug/L	1		8260B	Total/NA
Chlorobenzene	0.82	I	1.0	0.63	ug/L	1		8260B	Total/NA
Isopropylbenzene	0.67	I	1.0	0.52	ug/L	1		8260B	Total/NA
Acenaphthene	0.21		0.20	0.040	ug/L	1		8270D LL	Total/NA
Anthracene	0.050	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.050	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Fluorene	0.15	I J3	0.20	0.040	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.12	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Pyrene	0.053	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Total Petroleum Hydrocarbons (C8-C40)	270		150	24	ug/L	1		FL-PRO	Total/NA
Arsenic	1.3	I	2.5	1.3	ug/L	1		6020A	Total Recoverable
Barium	1100		5.0	1.3	ug/L	1		6020A	Total Recoverable
Chromium	2.6	I	5.0	2.5	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: LMW-B3 (Continued) — Lab Sample ID: 660-67393-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.5		1.5	0.20	ug/L	1		6020A	Total Recoverable

Client Sample ID: LMW-DP2 — Lab Sample ID: 660-67393-4

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.362	J I	10.2	0.0996	1	0.36	pg/L	1		1613B	Total
Total TCDD	0.362	J I	10.2	0.0996			pg/L	1		1613B	Total
Total PeCDD	2.19	J I	50.8	0.264			pg/L	1		1613B	Total
1,2,3,6,7,8-HxCDD	2.31	J I	50.8	0.333	0.1	0.23	pg/L	1		1613B	Total
1,2,3,7,8,9-HxCDD	1.51	I	50.8	0.317	0.1	0.15	pg/L	1		1613B	Total
Total HxCDD	23.7	J I	50.8	0.329			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDD	129	V	50.8	1.17	0.01	1.3	pg/L	1		1613B	Total
Total HpCDD	291	V	50.8	1.17			pg/L	1		1613B	Total
OCDD	1330	V	102	1.86	0.001	1.3	pg/L	1		1613B	Total
Total TCDF	20.5	I J	10.2	0.243			pg/L	1		1613B	Total
Total PeCDF	16.9	J I	50.8	0.309			pg/L	1		1613B	Total
1,2,3,4,7,8-HxCDF	0.500	J I	50.8	0.287	0.1	0.050	pg/L	1		1613B	Total
Total HxCDF	17.3	J I	50.8	0.298			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDF	4.77	J V I	50.8	0.376	0.01	0.048	pg/L	1		1613B	Total
Total HpCDF	10.6	J I V	50.8	0.470			pg/L	1		1613B	Total
OCDF	6.98	V I	102	0.242	0.001	0.0070	pg/L	1		1613B	Total

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.15	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Fluoranthene	0.032	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Fluorene	0.064	I J3	0.20	0.040	ug/L	1		8270D LL	Total/NA
Phenanthrene	0.058	I	0.20	0.040	ug/L	1		8270D LL	Total/NA
Pyrene	0.034	I	0.20	0.025	ug/L	1		8270D LL	Total/NA
Total Petroleum Hydrocarbons (C8-C40)	34	I	150	24	ug/L	1		FL-PRO	Total/NA
Barium	780		5.0	1.3	ug/L	1		6020A	Total Recoverable
Lead	8.6		1.5	0.20	ug/L	1		6020A	Total Recoverable

Client Sample ID: LMW-2A — Lab Sample ID: 660-67393-5

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	Dil Fac	D	Method	Prep Type
Total PeCDD	0.162	J I	49.5	0.112			pg/L	1		1613B	Total
Total HxCDD	0.454	J I	49.5	0.145			pg/L	1		1613B	Total
1,2,3,4,6,7,8-HpCDD	2.97	J V I	49.5	0.298	0.01	0.030	pg/L	1		1613B	Total
Total HpCDD	4.53	J I V	49.5	0.298			pg/L	1		1613B	Total
OCDD	20.9	V I	99.0	0.291	0.001	0.021	pg/L	1		1613B	Total
Total TCDF	3.71	J I	9.90	0.135			pg/L	1		1613B	Total
Total PeCDF	1.56	J I	49.5	0.162			pg/L	1		1613B	Total
Total HxCDF	0.675	J I	49.5	0.156			pg/L	1		1613B	Total
OCDF	0.179	J V I	99.0	0.0734	0.001	0.00018	pg/L	1		1613B	Total

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	24		2.5	1.3	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-2A (Continued)

Lab Sample ID: 660-67393-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	51		5.0	1.3	ug/L	1		6020A	Total Recoverable
Lead	0.88	I	1.5	0.20	ug/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-B4
Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			06/18/15 16:08	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 16:08	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:08	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 16:08	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:08	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 16:08	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 16:08	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 16:08	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			06/18/15 16:08	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 16:08	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 16:08	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:08	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 16:08	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 16:08	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 16:08	1
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 16:08	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 16:08	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 16:08	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 16:08	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 16:08	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 16:08	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 16:08	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 16:08	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 16:08	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:08	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 16:08	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 16:08	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:08	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 16:08	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 16:08	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 16:08	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 16:08	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 16:08	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 16:08	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 16:08	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 16:08	1
Isopropylbenzene	0.52	U	1.0	0.52	ug/L			06/18/15 16:08	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 16:08	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 16:08	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 16:08	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 16:08	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 16:08	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 16:08	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 16:08	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 16:08	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 16:08	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 16:08	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 16:08	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 16:08	1

Client Sample ID: LMW-B4

Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 16:08	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 16:08	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 16:08	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:08	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 16:08	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 16:08	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:08	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:08	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:08	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 16:08	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:08	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 16:08	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 16:08	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 16:08	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 16:08	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*70 - 130*		*06/18/15 16:08*	*1*
Dibromofluoromethane	*110*		*70 - 130*		*06/18/15 16:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/18/15 16:08*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.9**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Anthracene	**1.1**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Benzo[a]anthracene	**0.086**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Benzo[a]pyrene	**0.042**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Benzo[b]fluoranthene	**0.056**	**I**	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Chrysene	**0.082**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Fluoranthene	**1.8**		0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1
Fluorene	**7.3**	**J3**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 16:47	1
1-Methylnaphthalene	**2.9**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
2-Methylnaphthalene	**1.8**		0.20	0.031	ug/L		06/15/15 14:09	06/16/15 16:47	1
Naphthalene	**0.28**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Phenanthrene	**7.9**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 16:47	1
Pyrene	**1.1**		0.20	0.025	ug/L		06/15/15 14:09	06/16/15 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*70*		*40 - 114*	*06/15/15 14:09*	*06/16/15 16:47*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.049	0.0020	ug/L		06/16/15 14:49	06/18/15 02:05	1
alpha-BHC	0.0059	U	0.049	0.0059	ug/L		06/16/15 14:49	06/18/15 02:05	1

Client Sample ID: LMW-B4
Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1
Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
beta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Chlordane (technical)	0.34	U	0.99	0.34	ug/L		06/16/15 14:49	06/18/15 02:05	1
4,4'-DDD	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
4,4'-DDE	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
4,4'-DDT	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
delta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Dieldrin	0.0020	U	0.099	0.0020	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endosulfan I	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endosulfan II	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endosulfan sulfate	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endrin	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endrin aldehyde	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Endrin ketone	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
gamma-BHC (Lindane)	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
gamma-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Heptachlor	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Heptachlor epoxide	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Methoxychlor	0.013	U	0.49	0.013	ug/L		06/16/15 14:49	06/18/15 02:05	1
Toxaphene	0.67	U	4.9	0.67	ug/L		06/16/15 14:49	06/18/15 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*20 - 142*	*06/16/15 14:49*	*06/18/15 02:05*	*1*
Dibutylchlorendate	*108*		*25 - 137*	*06/16/15 14:49*	*06/18/15 02:05*	*1*
Tetrachloro-m-xylene	*97*		*22 - 134*	*06/16/15 14:49*	*06/18/15 02:05*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.091	U	0.96	0.091	ug/L		06/15/15 17:16	06/16/15 19:38	1
Chlorpyrifos	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 19:38	1
Coumaphos	0.078	U	0.96	0.078	ug/L		06/15/15 17:16	06/16/15 19:38	1
Demeton, Total	0.14	U	2.4	0.14	ug/L		06/15/15 17:16	06/16/15 19:38	1
Diazinon	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 19:38	1
Dichlorvos	0.25	U	1.9	0.25	ug/L		06/15/15 17:16	06/16/15 19:38	1
Dimethoate	0.31	U	1.9	0.31	ug/L		06/15/15 17:16	06/16/15 19:38	1
Disulfoton	0.12	U	1.9	0.12	ug/L		06/15/15 17:16	06/16/15 19:38	1
EPN	0.068	U	0.96	0.068	ug/L		06/15/15 17:16	06/16/15 19:38	1
Ethyl Parathion	0.077	U	0.96	0.077	ug/L		06/15/15 17:16	06/16/15 19:38	1
Fensulfothion	0.16	U	4.8	0.16	ug/L		06/15/15 17:16	06/16/15 19:38	1
Guthion	0.32	U	0.96	0.32	ug/L		06/15/15 17:16	06/16/15 19:38	1
Malathion	0.088	U	0.96	0.088	ug/L		06/15/15 17:16	06/16/15 19:38	1
Merphos	0.13	U	0.96	0.13	ug/L		06/15/15 17:16	06/16/15 19:38	1
Methyl parathion	0.12	U	0.48	0.12	ug/L		06/15/15 17:16	06/16/15 19:38	1
Mevinphos	0.14	U	1.9	0.14	ug/L		06/15/15 17:16	06/16/15 19:38	1
Mocap	0.39	U	0.48	0.39	ug/L		06/15/15 17:16	06/16/15 19:38	1
Monochrotophos	2.5	U	9.6	2.5	ug/L		06/15/15 17:16	06/16/15 19:38	1
Naled	0.35	U	4.8	0.35	ug/L		06/15/15 17:16	06/16/15 19:38	1
Phorate	0.15	U	0.96	0.15	ug/L		06/15/15 17:16	06/16/15 19:38	1
Ronnel	0.13	U	0.96	0.13	ug/L		06/15/15 17:16	06/16/15 19:38	1
Sulfotepp	0.053	U	0.48	0.053	ug/L		06/15/15 17:16	06/16/15 19:38	1

Client Sample ID: LMW-B4
Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1
Matrix: Water

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tokuthion	0.084	U	0.96	0.084	ug/L		06/15/15 17:16	06/16/15 19:38	1
Trichloronate	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*89*		*37 - 139*	*06/15/15 17:16*	*06/16/15 19:38*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	**400**		150	24	ug/L		06/16/15 10:42	06/17/15 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*100*		*42 - 193*	*06/16/15 10:42*	*06/17/15 14:05*	*1*
o-Terphenyl	*105*		*82 - 142*	*06/16/15 10:42*	*06/17/15 14:05*	*1*

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.56	0.116	1		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total TCDD	ND		9.56	0.116			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,7,8-PeCDD	ND		47.8	0.116	0.5		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total PeCDD	ND		47.8	0.116			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,4,7,8-HxCDD	ND		47.8	0.167	0.1		pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,6,7,8-HxCDD	**0.816**	**J I**	47.8	0.183	0.1	0.082	pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,7,8,9-HxCDD	**0.607**	**J I**	47.8	0.165	0.1	0.061	pg/L		07/30/15 14:45	08/06/15 16:14	1
Total HxCDD	**7.77**	**J I**	47.8	0.171			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,4,6,7,8-HpCDD	**29.2**	**V I**	47.8	0.524	0.01	0.29	pg/L		07/30/15 14:45	08/06/15 16:14	1
Total HpCDD	**62.5**	**I V**	47.8	0.524			pg/L		07/30/15 14:45	08/06/15 16:14	1
OCDD	**321**	**V**	95.6	0.871	0.001	0.32	pg/L		07/30/15 14:45	08/06/15 16:14	1
2,3,7,8-TCDF	ND		9.56	0.165	0.1		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total TCDF	**4.69**	**J I**	9.56	0.165			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,7,8-PeCDF	ND		47.8	0.200	0.05		pg/L		07/30/15 14:45	08/06/15 16:14	1
2,3,4,7,8-PeCDF	ND		47.8	0.185	0.5		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total PeCDF	**2.97**	**J I**	47.8	0.192			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,4,7,8-HxCDF	ND		47.8	0.190	0.1		pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,6,7,8-HxCDF	ND		47.8	0.195	0.1		pg/L		07/30/15 14:45	08/06/15 16:14	1
2,3,4,6,7,8-HxCDF	**0.500**	**J V I**	47.8	0.215	0.1	0.050	pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,7,8,9-HxCDF	ND		47.8	0.253	0.1		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total HxCDF	**5.65**	**J I V**	47.8	0.211			pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,4,6,7,8-HpCDF	**2.42**	**J V I**	47.8	0.112	0.01	0.024	pg/L		07/30/15 14:45	08/06/15 16:14	1
1,2,3,4,7,8,9-HpCDF	ND		47.8	0.165	0.01		pg/L		07/30/15 14:45	08/06/15 16:14	1
Total HpCDF	**4.76**	**J I V**	47.8	0.134			pg/L		07/30/15 14:45	08/06/15 16:14	1
OCDF	**5.87**	**V I**	95.6	0.130	0.001	0.0059	pg/L		07/30/15 14:45	08/06/15 16:14	1
Total TEQ	***(EPA 1989)***					**0.84**					

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*107*		*35 - 197*	*07/30/15 14:45*	*08/06/15 16:14*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*25 - 164*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*25 - 181*	*07/30/15 14:45*	*08/06/15 16:14*	*1*

Client Sample ID: LMW-B4

Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1

Matrix: Water

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B) (Continued)

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8-HxCDD	*84*		*32 - 141*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*28 - 130*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*89*		*23 - 140*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-OCDD	*70*		*17 - 157*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-2,3,7,8-TCDF	*83*		*24 - 169*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*24 - 185*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-2,3,4,7,8-PeCDF	*81*		*21 - 178*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,4,7,8-HxCDF	*86*		*26 - 152*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,6,7,8-HxCDF	*80*		*26 - 123*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-2,3,4,6,7,8-HxCDF	*82*		*28 - 136*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,7,8,9-HxCDF	*84*		*29 - 147*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*28 - 143*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*83*		*26 - 138*	*07/30/15 14:45*	*08/06/15 16:14*	*1*
13C-OCDF	*59*		*17 - 157*	*07/30/15 14:45*	*08/06/15 16:14*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**89**		2.5	1.3	ug/L		06/17/15 08:23	06/17/15 22:55	1
Barium	**630**		5.0	1.3	ug/L		06/17/15 08:23	06/17/15 22:55	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 22:55	1
Chromium	2.5	U	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 22:55	1
Lead	**4.8**		1.5	0.20	ug/L		06/17/15 08:23	06/17/15 22:55	1
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 22:55	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 22:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 10:56	1

Client Sample ID: LMW-DP1

Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			06/18/15 16:27	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 16:27	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:27	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 16:27	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:27	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 16:27	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 16:27	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 16:27	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			06/18/15 16:27	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 16:27	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 16:27	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:27	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 16:27	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 16:27	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 16:27	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP1
Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 16:27	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 16:27	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 16:27	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 16:27	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 16:27	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 16:27	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 16:27	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 16:27	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 16:27	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:27	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 16:27	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 16:27	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:27	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 16:27	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 16:27	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 16:27	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 16:27	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 16:27	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 16:27	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 16:27	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 16:27	1
Isopropylbenzene	0.52	U	1.0	0.52	ug/L			06/18/15 16:27	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 16:27	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 16:27	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 16:27	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 16:27	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 16:27	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 16:27	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 16:27	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 16:27	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 16:27	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 16:27	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 16:27	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 16:27	1
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 16:27	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 16:27	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 16:27	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:27	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 16:27	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 16:27	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:27	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:27	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:27	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 16:27	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:27	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 16:27	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 16:27	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 16:27	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 16:27	1

Client Sample ID: LMW-DP1
Date Collected: 06/11/15 10:36
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Lab Sample ID: 660-67393-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*70 - 130*		*06/18/15 16:27*	*1*
Dibromofluoromethane	*111*		*70 - 130*		*06/18/15 16:27*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*06/18/15 16:27*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.12**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Benzo[a]anthracene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Benzo[a]pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Benzo[b]fluoranthene	0.025	U	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Chrysene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Fluoranthene	**0.054**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1
Fluorene	**0.13**	**I J3**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 17:06	1
1-Methylnaphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
2-Methylnaphthalene	0.031	U	0.20	0.031	ug/L		06/15/15 14:09	06/16/15 17:06	1
Naphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Phenanthrene	**0.066**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:06	1
Pyrene	**0.032**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*76*		*40 - 114*	*06/15/15 14:09*	*06/16/15 17:06*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.049	0.0020	ug/L		06/16/15 14:49	06/18/15 13:12	1
alpha-BHC	0.0059	U	0.049	0.0059	ug/L		06/16/15 14:49	06/18/15 13:12	1
alpha-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
beta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Chlordane (technical)	0.34	U	0.99	0.34	ug/L		06/16/15 14:49	06/18/15 13:12	1
4,4'-DDD	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
4,4'-DDE	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
4,4'-DDT	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
delta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Dieldrin	0.0020	U	0.099	0.0020	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endosulfan I	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endosulfan II	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endosulfan sulfate	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endrin	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endrin aldehyde	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Endrin ketone	0.013	U	0.099	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
gamma-BHC (Lindane)	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP1
Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2
Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Heptachlor	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Heptachlor epoxide	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Methoxychlor	0.013	U	0.49	0.013	ug/L		06/16/15 14:49	06/18/15 13:12	1
Toxaphene	0.67	U	4.9	0.67	ug/L		06/16/15 14:49	06/18/15 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*32*		*20 - 142*	*06/16/15 14:49*	*06/18/15 13:12*	*1*
Dibutylchlorendate	*108*		*25 - 137*	*06/16/15 14:49*	*06/18/15 13:12*	*1*
Tetrachloro-m-xylene	*93*		*22 - 134*	*06/16/15 14:49*	*06/18/15 13:12*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.095	U	1.0	0.095	ug/L		06/15/15 17:16	06/16/15 19:54	1
Chlorpyrifos	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 19:54	1
Coumaphos	0.081	U	1.0	0.081	ug/L		06/15/15 17:16	06/16/15 19:54	1
Demeton, Total	0.15	U	2.5	0.15	ug/L		06/15/15 17:16	06/16/15 19:54	1
Diazinon	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 19:54	1
Dichlorvos	0.26	U	2.0	0.26	ug/L		06/15/15 17:16	06/16/15 19:54	1
Dimethoate	0.32	U	2.0	0.32	ug/L		06/15/15 17:16	06/16/15 19:54	1
Disulfoton	0.12	U	2.0	0.12	ug/L		06/15/15 17:16	06/16/15 19:54	1
EPN	0.071	U	1.0	0.071	ug/L		06/15/15 17:16	06/16/15 19:54	1
Ethyl Parathion	0.080	U	1.0	0.080	ug/L		06/15/15 17:16	06/16/15 19:54	1
Fensulfothion	0.17	U	5.0	0.17	ug/L		06/15/15 17:16	06/16/15 19:54	1
Guthion	0.33	U	1.0	0.33	ug/L		06/15/15 17:16	06/16/15 19:54	1
Malathion	0.092	U	1.0	0.092	ug/L		06/15/15 17:16	06/16/15 19:54	1
Merphos	0.13	U	1.0	0.13	ug/L		06/15/15 17:16	06/16/15 19:54	1
Methyl parathion	0.12	U	0.50	0.12	ug/L		06/15/15 17:16	06/16/15 19:54	1
Mevinphos	0.15	U	2.0	0.15	ug/L		06/15/15 17:16	06/16/15 19:54	1
Mocap	0.41	U	0.50	0.41	ug/L		06/15/15 17:16	06/16/15 19:54	1
Monochrotophos	2.6	U	10	2.6	ug/L		06/15/15 17:16	06/16/15 19:54	1
Naled	0.36	U	5.0	0.36	ug/L		06/15/15 17:16	06/16/15 19:54	1
Phorate	0.16	U	1.0	0.16	ug/L		06/15/15 17:16	06/16/15 19:54	1
Ronnel	0.13	U	1.0	0.13	ug/L		06/15/15 17:16	06/16/15 19:54	1
Sulfotepp	0.055	U	0.50	0.055	ug/L		06/15/15 17:16	06/16/15 19:54	1
Tokuthion	0.087	U	1.0	0.087	ug/L		06/15/15 17:16	06/16/15 19:54	1
Trichloronate	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*87*		*37 - 139*	*06/15/15 17:16*	*06/16/15 19:54*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	24	U	150	24	ug/L		06/16/15 10:42	06/17/15 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*97*		*42 - 193*	*06/16/15 10:42*	*06/17/15 14:15*	*1*
o-Terphenyl	*113*		*82 - 142*	*06/16/15 10:42*	*06/17/15 14:15*	*1*

Client Sample ID: LMW-DP1

Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2

Matrix: Water

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.60	0.161	1		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total TCDD	**0.137**	**J I**	9.60	0.161			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,7,8-PeCDD	ND		48.0	0.102	0.5		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total PeCDD	**0.419**	**J I**	48.0	0.102			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,4,7,8-HxCDD	ND		48.0	0.208	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,6,7,8-HxCDD	ND		48.0	0.224	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,7,8,9-HxCDD	**0.541**	**J I**	48.0	0.204	0.1	0.054	pg/L		07/30/15 14:45	08/06/15 17:16	1
Total HxCDD	**3.10**	**J I**	48.0	0.211			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,4,6,7,8-HpCDD	**24.4**	**J V I**	48.0	0.679	0.01	0.24	pg/L		07/30/15 14:45	08/06/15 17:16	1
Total HpCDD	**40.6**	**J I V**	48.0	0.679			pg/L		07/30/15 14:45	08/06/15 17:16	1
OCDD	**156**	**V**	96.0	0.631	0.001	0.16	pg/L		07/30/15 14:45	08/06/15 17:16	1
2,3,7,8-TCDF	ND		9.60	0.173	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total TCDF	**0.551**	**J I**	9.60	0.173			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,7,8-PeCDF	ND		48.0	0.235	0.05		pg/L		07/30/15 14:45	08/06/15 17:16	1
2,3,4,7,8-PeCDF	ND		48.0	0.233	0.5		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total PeCDF	**1.67**	**J I**	48.0	0.234			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,4,7,8-HxCDF	ND		48.0	0.205	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,6,7,8-HxCDF	ND		48.0	0.209	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
2,3,4,6,7,8-HxCDF	ND		48.0	0.208	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,7,8,9-HxCDF	ND		48.0	0.264	0.1		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total HxCDF	**1.07**	**J I**	48.0	0.219			pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,4,6,7,8-HpCDF	**0.690**	**J V I**	48.0	0.138	0.01	0.0069	pg/L		07/30/15 14:45	08/06/15 17:16	1
1,2,3,4,7,8,9-HpCDF	ND		48.0	0.218	0.01		pg/L		07/30/15 14:45	08/06/15 17:16	1
Total HpCDF	**1.86**	**I J V**	48.0	0.170			pg/L		07/30/15 14:45	08/06/15 17:16	1
OCDF	**2.38**	**V I**	96.0	0.146	0.001	0.0024	pg/L		07/30/15 14:45	08/06/15 17:16	1
Total TEQ (EPA 1989)						**0.46**					

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*105*		*35 - 197*	*07/30/15 14:45*	*08/06/15 17:16*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*25 - 164*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*25 - 181*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,4,7,8-HxCDD	*74*		*32 - 141*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,6,7,8-HxCDD	*74*		*28 - 130*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*79*		*23 - 140*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-OCDD	*54*		*17 - 157*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-2,3,7,8-TCDF	*78*		*24 - 169*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,7,8-PeCDF	*82*		*24 - 185*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-2,3,4,7,8-PeCDF	*78*		*21 - 178*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,4,7,8-HxCDF	*74*		*26 - 152*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,6,7,8-HxCDF	*73*		*26 - 123*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*28 - 136*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,7,8,9-HxCDF	*77*		*29 - 147*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*77*		*28 - 143*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*69*		*26 - 138*	*07/30/15 14:45*	*08/06/15 17:16*	*1*
13C-OCDF	*48*		*17 - 157*	*07/30/15 14:45*	*08/06/15 17:16*	*1*

Client Sample ID: LMW-DP1

Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		2.5	1.3	ug/L		06/17/15 08:23	06/17/15 23:00	1
Barium	**460**		5.0	1.3	ug/L		06/17/15 08:23	06/17/15 23:00	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 23:00	1
Chromium	2.5	U	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 23:00	1
Lead	**1.6**		1.5	0.20	ug/L		06/17/15 08:23	06/17/15 23:00	1
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 23:00	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 23:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 11:05	1

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**11**	**I**	20	9.9	ug/L			06/18/15 16:46	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 16:46	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:46	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 16:46	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:46	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 16:46	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 16:46	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 16:46	1
Chlorobenzene	**0.82**	**I**	1.0	0.63	ug/L			06/18/15 16:46	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 16:46	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 16:46	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:46	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 16:46	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 16:46	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 16:46	1
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 16:46	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 16:46	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 16:46	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 16:46	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 16:46	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 16:46	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 16:46	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 16:46	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 16:46	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:46	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 16:46	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 16:46	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:46	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 16:46	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 16:46	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 16:46	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 16:46	1

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 16:46	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 16:46	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 16:46	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 16:46	1
Isopropylbenzene	**0.67**	**I**	1.0	0.52	ug/L			06/18/15 16:46	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 16:46	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 16:46	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 16:46	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 16:46	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 16:46	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 16:46	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 16:46	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 16:46	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 16:46	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 16:46	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 16:46	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 16:46	1
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 16:46	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 16:46	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 16:46	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 16:46	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 16:46	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 16:46	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 16:46	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:46	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 16:46	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 16:46	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 16:46	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 16:46	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 16:46	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 16:46	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 16:46	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*70 - 130*		*06/18/15 16:46*	*1*
Dibromofluoromethane	*114*		*70 - 130*		*06/18/15 16:46*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/18/15 16:46*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.21**		0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Anthracene	**0.050**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Benzo[a]anthracene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Benzo[a]pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Benzo[b]fluoranthene	0.025	U	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Chrysene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Fluoranthene	**0.050**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1
Fluorene	**0.15**	**I J3**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 17:30	1
1-Methylnaphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
2-Methylnaphthalene	0.031	U	0.20	0.031	ug/L		06/15/15 14:09	06/16/15 17:30	1
Naphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Phenanthrene	**0.12**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:30	1
Pyrene	**0.053**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*67*		*40 - 114*	*06/15/15 14:09*	*06/16/15 17:30*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.050	0.0020	ug/L		06/16/15 14:49	06/17/15 22:43	1
alpha-BHC	0.0060	U	0.050	0.0060	ug/L		06/16/15 14:49	06/17/15 22:43	1
alpha-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
beta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Chlordane (technical)	0.34	U	1.0	0.34	ug/L		06/16/15 14:49	06/17/15 22:43	1
4,4'-DDD	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
4,4'-DDE	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
4,4'-DDT	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
delta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Dieldrin	0.0020	U	0.10	0.0020	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endosulfan I	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endosulfan II	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endosulfan sulfate	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endrin	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endrin aldehyde	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Endrin ketone	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
gamma-BHC (Lindane)	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
gamma-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Heptachlor	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Heptachlor epoxide	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Methoxychlor	0.013	U	0.50	0.013	ug/L		06/16/15 14:49	06/17/15 22:43	1
Toxaphene	0.68	U	5.0	0.68	ug/L		06/16/15 14:49	06/17/15 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*20 - 142*	*06/16/15 14:49*	*06/17/15 22:43*	*1*
Dibutylchlorendate	*109*		*25 - 137*	*06/16/15 14:49*	*06/17/15 22:43*	*1*
Tetrachloro-m-xylene	*95*		*22 - 134*	*06/16/15 14:49*	*06/17/15 22:43*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.090	U	0.94	0.090	ug/L		06/15/15 17:16	06/16/15 20:10	1
Chlorpyrifos	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:10	1
Coumaphos	0.076	U	0.94	0.076	ug/L		06/15/15 17:16	06/16/15 20:10	1
Demeton, Total	0.14	U	2.4	0.14	ug/L		06/15/15 17:16	06/16/15 20:10	1
Diazinon	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:10	1

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3

Matrix: Water

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorvos	0.25	U	1.9	0.25	ug/L		06/15/15 17:16	06/16/15 20:10	1
Dimethoate	0.30	U	1.9	0.30	ug/L		06/15/15 17:16	06/16/15 20:10	1
Disulfoton	0.11	U	1.9	0.11	ug/L		06/15/15 17:16	06/16/15 20:10	1
EPN	0.067	U	0.94	0.067	ug/L		06/15/15 17:16	06/16/15 20:10	1
Ethyl Parathion	0.075	U	0.94	0.075	ug/L		06/15/15 17:16	06/16/15 20:10	1
Fensulfothion	0.16	U	4.7	0.16	ug/L		06/15/15 17:16	06/16/15 20:10	1
Guthion	0.31	U	0.94	0.31	ug/L		06/15/15 17:16	06/16/15 20:10	1
Malathion	0.087	U	0.94	0.087	ug/L		06/15/15 17:16	06/16/15 20:10	1
Merphos	0.12	U	0.94	0.12	ug/L		06/15/15 17:16	06/16/15 20:10	1
Methyl parathion	0.11	U	0.47	0.11	ug/L		06/15/15 17:16	06/16/15 20:10	1
Mevinphos	0.14	U	1.9	0.14	ug/L		06/15/15 17:16	06/16/15 20:10	1
Mocap	0.39	U	0.47	0.39	ug/L		06/15/15 17:16	06/16/15 20:10	1
Monochrotophos	2.5	U	9.4	2.5	ug/L		06/15/15 17:16	06/16/15 20:10	1
Naled	0.34	U	4.7	0.34	ug/L		06/15/15 17:16	06/16/15 20:10	1
Phorate	0.15	U	0.94	0.15	ug/L		06/15/15 17:16	06/16/15 20:10	1
Ronnel	0.12	U	0.94	0.12	ug/L		06/15/15 17:16	06/16/15 20:10	1
Sulfotepp	0.052	U	0.47	0.052	ug/L		06/15/15 17:16	06/16/15 20:10	1
Tokuthion	0.082	U	0.94	0.082	ug/L		06/15/15 17:16	06/16/15 20:10	1
Trichloronate	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*82*		*37 - 139*	*06/15/15 17:16*	*06/16/15 20:10*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	**270**		150	24	ug/L		06/16/15 10:42	06/17/15 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*112*		*42 - 193*	*06/16/15 10:42*	*06/17/15 14:25*	*1*
o-Terphenyl	*118*		*82 - 142*	*06/16/15 10:42*	*06/17/15 14:25*	*1*

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.68	0.0795	1		pg/L		07/30/15 14:45	08/06/15 18:17	1
Total TCDD	ND		9.68	0.0795			pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,7,8-PeCDD	**0.473**	**J V I**	48.4	0.157	0.5	0.24	pg/L		07/30/15 14:45	08/06/15 18:17	1
Total PeCDD	**0.473**	**J V I**	48.4	0.157			pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,4,7,8-HxCDD	ND		48.4	0.194	0.1		pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,6,7,8-HxCDD	**1.67**	**J I**	48.4	0.215	0.1	0.17	pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,7,8,9-HxCDD	**0.990**	**J I**	48.4	0.193	0.1	0.099	pg/L		07/30/15 14:45	08/06/15 18:17	1
Total HxCDD	**18.3**	**J I**	48.4	0.200			pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,4,6,7,8-HpCDD	**71.7**	**V**	48.4	0.659	0.01	0.72	pg/L		07/30/15 14:45	08/06/15 18:17	1
Total HpCDD	**138**	**V**	48.4	0.659			pg/L		07/30/15 14:45	08/06/15 18:17	1
OCDD	**636**	**V**	96.8	0.883	0.001	0.64	pg/L		07/30/15 14:45	08/06/15 18:17	1
2,3,7,8-TCDF	**0.0983**	**J I**	9.68	0.127	0.1	0.0098	pg/L		07/30/15 14:45	08/06/15 18:17	1
Total TCDF	**2.06**	**J I**	9.68	0.127			pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,7,8-PeCDF	ND		48.4	0.175	0.05		pg/L		07/30/15 14:45	08/06/15 18:17	1
2,3,4,7,8-PeCDF	ND		48.4	0.175	0.5		pg/L		07/30/15 14:45	08/06/15 18:17	1
Total PeCDF	**0.357**	**J I**	48.4	0.175			pg/L		07/30/15 14:45	08/06/15 18:17	1

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3

Matrix: Water

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDF	ND		48.4	0.167	0.1		pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,6,7,8-HxCDF	**0.501**	**J I**	48.4	0.170	0.1	0.050	pg/L		07/30/15 14:45	08/06/15 18:17	1
2,3,4,6,7,8-HxCDF	ND		48.4	0.182	0.1		pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,7,8,9-HxCDF	ND		48.4	0.224	0.1		pg/L		07/30/15 14:45	08/06/15 18:17	1
Total HxCDF	**6.25**	**J I**	48.4	0.183			pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,4,6,7,8-HpCDF	**2.06**	**V I**	48.4	0.137	0.01	0.021	pg/L		07/30/15 14:45	08/06/15 18:17	1
1,2,3,4,7,8,9-HpCDF	ND		48.4	0.209	0.01		pg/L		07/30/15 14:45	08/06/15 18:17	1
Total HpCDF	**4.76**	**J I V**	48.4	0.166			pg/L		07/30/15 14:45	08/06/15 18:17	1
OCDF	**3.67**	**J V I**	96.8	0.137	0.001	0.0037	pg/L		07/30/15 14:45	08/06/15 18:17	1
Total TEQ (EPA 1989)						**1.9**					

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*112*		*35 - 197*	*07/30/15 14:45*	*08/06/15 18:17*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*85*		*25 - 164*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*25 - 181*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*32 - 141*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,6,7,8-HxCDD	*78*		*28 - 130*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*85*		*23 - 140*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-OCDD	*70*		*17 - 157*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-2,3,7,8-TCDF	*84*		*24 - 169*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*24 - 185*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-2,3,4,7,8-PeCDF	*83*		*21 - 178*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,4,7,8-HxCDF	*83*		*26 - 152*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,6,7,8-HxCDF	*77*		*26 - 123*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-2,3,4,6,7,8-HxCDF	*80*		*28 - 136*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,7,8,9-HxCDF	*80*		*29 - 147*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*79*		*28 - 143*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*73*		*26 - 138*	*07/30/15 14:45*	*08/06/15 18:17*	*1*
13C-OCDF	*61*		*17 - 157*	*07/30/15 14:45*	*08/06/15 18:17*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.3**	**I**	2.5	1.3	ug/L		06/17/15 08:23	06/17/15 23:05	1
Barium	**1100**		5.0	1.3	ug/L		06/17/15 08:23	06/17/15 23:05	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 23:05	1
Chromium	**2.6**	**I**	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 23:05	1
Lead	**2.5**		1.5	0.20	ug/L		06/17/15 08:23	06/17/15 23:05	1
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 23:05	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 23:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 11:08	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP2
Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			06/18/15 17:05	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 17:05	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 17:05	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 17:05	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:05	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 17:05	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 17:05	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 17:05	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			06/18/15 17:05	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 17:05	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 17:05	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:05	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 17:05	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 17:05	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 17:05	1
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 17:05	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 17:05	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 17:05	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 17:05	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 17:05	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 17:05	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 17:05	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 17:05	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 17:05	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:05	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 17:05	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 17:05	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 17:05	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 17:05	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 17:05	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 17:05	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 17:05	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 17:05	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 17:05	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 17:05	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 17:05	1
Isopropylbenzene	0.52	U	1.0	0.52	ug/L			06/18/15 17:05	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 17:05	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 17:05	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 17:05	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 17:05	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 17:05	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 17:05	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 17:05	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 17:05	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 17:05	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 17:05	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 17:05	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 17:05	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP2
Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 17:05	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 17:05	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 17:05	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 17:05	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 17:05	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 17:05	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 17:05	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 17:05	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 17:05	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 17:05	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:05	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 17:05	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 17:05	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 17:05	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 17:05	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*70 - 130*		*06/18/15 17:05*	*1*
Dibromofluoromethane	*113*		*70 - 130*		*06/18/15 17:05*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*06/18/15 17:05*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.15**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Benzo[a]anthracene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Benzo[a]pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Benzo[b]fluoranthene	0.025	U	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Chrysene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Fluoranthene	**0.032**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1
Fluorene	**0.064**	**I J3**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 17:49	1
1-Methylnaphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
2-Methylnaphthalene	0.031	U	0.20	0.031	ug/L		06/15/15 14:09	06/16/15 17:49	1
Naphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Phenanthrene	**0.058**	**I**	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 17:49	1
Pyrene	**0.034**	**I**	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*48*		*40 - 114*	*06/15/15 14:09*	*06/16/15 17:49*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.050	0.0020	ug/L		06/16/15 14:49	06/17/15 22:58	1
alpha-BHC	0.0060	U	0.050	0.0060	ug/L		06/16/15 14:49	06/17/15 22:58	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-DP2
Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
beta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Chlordane (technical)	0.34	U	1.0	0.34	ug/L		06/16/15 14:49	06/17/15 22:58	1
4,4'-DDD	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
4,4'-DDE	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
4,4'-DDT	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
delta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Dieldrin	0.0020	U	0.10	0.0020	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endosulfan I	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endosulfan II	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endosulfan sulfate	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endrin	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endrin aldehyde	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Endrin ketone	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
gamma-BHC (Lindane)	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
gamma-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Heptachlor	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Heptachlor epoxide	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Methoxychlor	0.013	U	0.50	0.013	ug/L		06/16/15 14:49	06/17/15 22:58	1
Toxaphene	0.68	U	5.0	0.68	ug/L		06/16/15 14:49	06/17/15 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*20 - 142*	*06/16/15 14:49*	*06/17/15 22:58*	*1*
Dibutylchlorendate	*107*		*25 - 137*	*06/16/15 14:49*	*06/17/15 22:58*	*1*
Tetrachloro-m-xylene	*99*		*22 - 134*	*06/16/15 14:49*	*06/17/15 22:58*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.090	U	0.94	0.090	ug/L		06/15/15 17:16	06/16/15 20:26	1
Chlorpyrifos	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:26	1
Coumaphos	0.076	U	0.94	0.076	ug/L		06/15/15 17:16	06/16/15 20:26	1
Demeton, Total	0.14	U	2.4	0.14	ug/L		06/15/15 17:16	06/16/15 20:26	1
Diazinon	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:26	1
Dichlorvos	0.25	U	1.9	0.25	ug/L		06/15/15 17:16	06/16/15 20:26	1
Dimethoate	0.30	U	1.9	0.30	ug/L		06/15/15 17:16	06/16/15 20:26	1
Disulfoton	0.11	U	1.9	0.11	ug/L		06/15/15 17:16	06/16/15 20:26	1
EPN	0.067	U	0.94	0.067	ug/L		06/15/15 17:16	06/16/15 20:26	1
Ethyl Parathion	0.075	U	0.94	0.075	ug/L		06/15/15 17:16	06/16/15 20:26	1
Fensulfothion	0.16	U	4.7	0.16	ug/L		06/15/15 17:16	06/16/15 20:26	1
Guthion	0.31	U	0.94	0.31	ug/L		06/15/15 17:16	06/16/15 20:26	1
Malathion	0.087	U	0.94	0.087	ug/L		06/15/15 17:16	06/16/15 20:26	1
Merphos	0.12	U	0.94	0.12	ug/L		06/15/15 17:16	06/16/15 20:26	1
Methyl parathion	0.11	U	0.47	0.11	ug/L		06/15/15 17:16	06/16/15 20:26	1
Mevinphos	0.14	U	1.9	0.14	ug/L		06/15/15 17:16	06/16/15 20:26	1
Mocap	0.39	U	0.47	0.39	ug/L		06/15/15 17:16	06/16/15 20:26	1
Monochrotophos	2.5	U	9.4	2.5	ug/L		06/15/15 17:16	06/16/15 20:26	1
Naled	0.34	U	4.7	0.34	ug/L		06/15/15 17:16	06/16/15 20:26	1
Phorate	0.15	U	0.94	0.15	ug/L		06/15/15 17:16	06/16/15 20:26	1
Ronnel	0.12	U	0.94	0.12	ug/L		06/15/15 17:16	06/16/15 20:26	1
Sulfotepp	0.052	U	0.47	0.052	ug/L		06/15/15 17:16	06/16/15 20:26	1

Client Sample ID: LMW-DP2
Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tokuthion	0.082	U	0.94	0.082	ug/L		06/15/15 17:16	06/16/15 20:26	1
Trichloronate	0.10	U	0.94	0.10	ug/L		06/15/15 17:16	06/16/15 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*85*		*37 - 139*	*06/15/15 17:16*	*06/16/15 20:26*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	**34**	**I**	150	24	ug/L		06/16/15 10:42	06/17/15 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*90*		*42 - 193*	*06/16/15 10:42*	*06/17/15 14:35*	*1*
o-Terphenyl	*102*		*82 - 142*	*06/16/15 10:42*	*06/17/15 14:35*	*1*

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	**0.362**	**J I**	10.2	0.0996	1	0.36	pg/L		07/30/15 14:45	08/06/15 19:19	1
Total TCDD	**0.362**	**J I**	10.2	0.0996			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,7,8-PeCDD	ND		50.8	0.264	0.5		pg/L		07/30/15 14:45	08/06/15 19:19	1
Total PeCDD	**2.19**	**J I**	50.8	0.264			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,4,7,8-HxCDD	ND		50.8	0.337	0.1		pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,6,7,8-HxCDD	**2.31**	**J I**	50.8	0.333	0.1	0.23	pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,7,8,9-HxCDD	**1.51**	**I**	50.8	0.317	0.1	0.15	pg/L		07/30/15 14:45	08/06/15 19:19	1
Total HxCDD	**23.7**	**J I**	50.8	0.329			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,4,6,7,8-HpCDD	**129**	**V**	50.8	1.17	0.01	1.3	pg/L		07/30/15 14:45	08/06/15 19:19	1
Total HpCDD	**291**	**V**	50.8	1.17			pg/L		07/30/15 14:45	08/06/15 19:19	1
OCDD	**1330**	**V**	102	1.86	0.001	1.3	pg/L		07/30/15 14:45	08/06/15 19:19	1
2,3,7,8-TCDF	ND		10.2	0.243	0.1		pg/L		07/30/15 14:45	08/06/15 19:19	1
Total TCDF	**20.5**	**I J**	10.2	0.243			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,7,8-PeCDF	ND		50.8	0.319	0.05		pg/L		07/30/15 14:45	08/06/15 19:19	1
2,3,4,7,8-PeCDF	ND		50.8	0.301	0.5		pg/L		07/30/15 14:45	08/06/15 19:19	1
Total PeCDF	**16.9**	**J I**	50.8	0.309			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,4,7,8-HxCDF	**0.500**	**J I**	50.8	0.287	0.1	0.050	pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,6,7,8-HxCDF	ND		50.8	0.258	0.1		pg/L		07/30/15 14:45	08/06/15 19:19	1
2,3,4,6,7,8-HxCDF	ND		50.8	0.307	0.1		pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,7,8,9-HxCDF	ND		50.8	0.353	0.1		pg/L		07/30/15 14:45	08/06/15 19:19	1
Total HxCDF	**17.3**	**J I**	50.8	0.298			pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,4,6,7,8-HpCDF	**4.77**	**J V I**	50.8	0.376	0.01	0.048	pg/L		07/30/15 14:45	08/06/15 19:19	1
1,2,3,4,7,8,9-HpCDF	ND		50.8	0.612	0.01		pg/L		07/30/15 14:45	08/06/15 19:19	1
Total HpCDF	**10.6**	**J I V**	50.8	0.470			pg/L		07/30/15 14:45	08/06/15 19:19	1
OCDF	**6.98**	**V I**	102	0.242	0.001	0.0070	pg/L		07/30/15 14:45	08/06/15 19:19	1
Total TEQ ***(EPA 1989)***						**3.5**					

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*105*		*35 - 197*	*07/30/15 14:45*	*08/06/15 19:19*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*25 - 164*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,7,8-PeCDD	*76*		*25 - 181*	*07/30/15 14:45*	*08/06/15 19:19*	*1*

Client Sample ID: LMW-DP2

Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B) (Continued)

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8-HxCDD	*80*		*32 - 141*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,6,7,8-HxCDD	*78*		*28 - 130*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*82*		*23 - 140*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-OCDD	*67*		*17 - 157*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-2,3,7,8-TCDF	*79*		*24 - 169*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,7,8-PeCDF	*73*		*24 - 185*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-2,3,4,7,8-PeCDF	*75*		*21 - 178*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,4,7,8-HxCDF	*77*		*26 - 152*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,6,7,8-HxCDF	*80*		*26 - 123*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-2,3,4,6,7,8-HxCDF	*80*		*28 - 136*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,7,8,9-HxCDF	*82*		*29 - 147*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*78*		*28 - 143*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*77*		*26 - 138*	*07/30/15 14:45*	*08/06/15 19:19*	*1*
13C-OCDF	*57*		*17 - 157*	*07/30/15 14:45*	*08/06/15 19:19*	*1*

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	U	2.5	1.3	ug/L		06/17/15 08:23	06/17/15 23:10	1
Barium	**780**		5.0	1.3	ug/L		06/17/15 08:23	06/17/15 23:10	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 23:10	1
Chromium	2.5	U	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 23:10	1
Lead	**8.6**		1.5	0.20	ug/L		06/17/15 08:23	06/17/15 23:10	1
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 23:10	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 23:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 11:11	1

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			06/18/15 17:24	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 17:24	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 17:24	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 17:24	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:24	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 17:24	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 17:24	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 17:24	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			06/18/15 17:24	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 17:24	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 17:24	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:24	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 17:24	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 17:24	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 17:24	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-2A
Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 17:24	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 17:24	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 17:24	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 17:24	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 17:24	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 17:24	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 17:24	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 17:24	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 17:24	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:24	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 17:24	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 17:24	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 17:24	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 17:24	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 17:24	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 17:24	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 17:24	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 17:24	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 17:24	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 17:24	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 17:24	1
Isopropylbenzene	0.52	U	1.0	0.52	ug/L			06/18/15 17:24	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 17:24	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 17:24	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 17:24	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 17:24	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 17:24	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 17:24	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 17:24	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 17:24	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 17:24	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 17:24	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 17:24	1
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 17:24	1
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 17:24	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 17:24	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 17:24	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 17:24	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 17:24	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 17:24	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 17:24	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 17:24	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 17:24	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 17:24	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 17:24	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 17:24	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 17:24	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 17:24	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 17:24	1

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*70 - 130*		*06/18/15 17:24*	*1*
Dibromofluoromethane	*111*		*70 - 130*		*06/18/15 17:24*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/18/15 17:24*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Benzo[a]anthracene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Benzo[a]pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Benzo[b]fluoranthene	0.025	U	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Chrysene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1
Fluorene	0.040	J3 U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 18:08	1
1-Methylnaphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
2-Methylnaphthalene	0.031	U	0.20	0.031	ug/L		06/15/15 14:09	06/16/15 18:08	1
Naphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Phenanthrene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 18:08	1
Pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*53*		*40 - 114*	*06/15/15 14:09*	*06/16/15 18:08*	*1*

Method: 8081B - Organochlorine Pesticides by GC

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.049	0.0020	ug/L		06/16/15 14:49	06/17/15 23:13	1
alpha-BHC	0.0059	U	0.049	0.0059	ug/L		06/16/15 14:49	06/17/15 23:13	1
alpha-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
beta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Chlordane (technical)	0.33	U	0.98	0.33	ug/L		06/16/15 14:49	06/17/15 23:13	1
4,4'-DDD	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
4,4'-DDE	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
4,4'-DDT	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
delta-BHC	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Dieldrin	0.0020	U	0.098	0.0020	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endosulfan I	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endosulfan II	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endosulfan sulfate	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endrin	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endrin aldehyde	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Endrin ketone	0.013	U	0.098	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
gamma-BHC (Lindane)	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5

Matrix: Water

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Heptachlor	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Heptachlor epoxide	0.013	U	0.049	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Methoxychlor	0.013	U	0.49	0.013	ug/L		06/16/15 14:49	06/17/15 23:13	1
Toxaphene	0.67	U	4.9	0.67	ug/L		06/16/15 14:49	06/17/15 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*73*		*20 - 142*	*06/16/15 14:49*	*06/17/15 23:13*	*1*
Dibutylchlorendate	*54*		*25 - 137*	*06/16/15 14:49*	*06/17/15 23:13*	*1*
Tetrachloro-m-xylene	*91*		*22 - 134*	*06/16/15 14:49*	*06/17/15 23:13*	*1*

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.091	U	0.96	0.091	ug/L		06/15/15 17:16	06/16/15 20:42	1
Chlorpyrifos	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 20:42	1
Coumaphos	0.078	U	0.96	0.078	ug/L		06/15/15 17:16	06/16/15 20:42	1
Demeton, Total	0.14	U	2.4	0.14	ug/L		06/15/15 17:16	06/16/15 20:42	1
Diazinon	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 20:42	1
Dichlorvos	0.25	U	1.9	0.25	ug/L		06/15/15 17:16	06/16/15 20:42	1
Dimethoate	0.31	U	1.9	0.31	ug/L		06/15/15 17:16	06/16/15 20:42	1
Disulfoton	0.12	U	1.9	0.12	ug/L		06/15/15 17:16	06/16/15 20:42	1
EPN	0.068	U	0.96	0.068	ug/L		06/15/15 17:16	06/16/15 20:42	1
Ethyl Parathion	0.077	U	0.96	0.077	ug/L		06/15/15 17:16	06/16/15 20:42	1
Fensulfothion	0.16	U	4.8	0.16	ug/L		06/15/15 17:16	06/16/15 20:42	1
Guthion	0.32	U	0.96	0.32	ug/L		06/15/15 17:16	06/16/15 20:42	1
Malathion	0.088	U	0.96	0.088	ug/L		06/15/15 17:16	06/16/15 20:42	1
Merphos	0.13	U	0.96	0.13	ug/L		06/15/15 17:16	06/16/15 20:42	1
Methyl parathion	0.12	U	0.48	0.12	ug/L		06/15/15 17:16	06/16/15 20:42	1
Mevinphos	0.14	U	1.9	0.14	ug/L		06/15/15 17:16	06/16/15 20:42	1
Mocap	0.39	U	0.48	0.39	ug/L		06/15/15 17:16	06/16/15 20:42	1
Monochrotophos	2.5	U	9.6	2.5	ug/L		06/15/15 17:16	06/16/15 20:42	1
Naled	0.35	U	4.8	0.35	ug/L		06/15/15 17:16	06/16/15 20:42	1
Phorate	0.15	U	0.96	0.15	ug/L		06/15/15 17:16	06/16/15 20:42	1
Ronnel	0.13	U	0.96	0.13	ug/L		06/15/15 17:16	06/16/15 20:42	1
Sulfotepp	0.053	U	0.48	0.053	ug/L		06/15/15 17:16	06/16/15 20:42	1
Tokuthion	0.084	U	0.96	0.084	ug/L		06/15/15 17:16	06/16/15 20:42	1
Trichloronate	0.11	U	0.96	0.11	ug/L		06/15/15 17:16	06/16/15 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*97*		*37 - 139*	*06/15/15 17:16*	*06/16/15 20:42*	*1*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	24	U	150	24	ug/L		06/16/15 10:42	06/17/15 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*98*		*42 - 193*	*06/16/15 10:42*	*06/17/15 14:45*	*1*
o-Terphenyl	*115*		*82 - 142*	*06/16/15 10:42*	*06/17/15 14:45*	*1*

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5

Matrix: Water

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.90	0.0584	1		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total TCDD	ND		9.90	0.0584			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,7,8-PeCDD	ND		49.5	0.112	0.5		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total PeCDD	**0.162**	**J I**	49.5	0.112			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,4,7,8-HxCDD	ND		49.5	0.143	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,6,7,8-HxCDD	ND		49.5	0.152	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,7,8,9-HxCDD	ND		49.5	0.139	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total HxCDD	**0.454**	**J I**	49.5	0.145			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,4,6,7,8-HpCDD	**2.97**	**J V I**	49.5	0.298	0.01	0.030	pg/L		07/30/15 14:45	08/06/15 20:21	1
Total HpCDD	**4.53**	**J I V**	49.5	0.298			pg/L		07/30/15 14:45	08/06/15 20:21	1
OCDD	**20.9**	**V I**	99.0	0.291	0.001	0.021	pg/L		07/30/15 14:45	08/06/15 20:21	1
2,3,7,8-TCDF	ND		9.90	0.135	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total TCDF	**3.71**	**J I**	9.90	0.135			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,7,8-PeCDF	ND		49.5	0.166	0.05		pg/L		07/30/15 14:45	08/06/15 20:21	1
2,3,4,7,8-PeCDF	ND		49.5	0.159	0.5		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total PeCDF	**1.56**	**J I**	49.5	0.162			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,4,7,8-HxCDF	ND		49.5	0.148	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,6,7,8-HxCDF	ND		49.5	0.132	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
2,3,4,6,7,8-HxCDF	ND		49.5	0.158	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,7,8,9-HxCDF	ND		49.5	0.199	0.1		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total HxCDF	**0.675**	**J I**	49.5	0.156			pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,4,6,7,8-HpCDF	ND		49.5	0.0472	0.01		pg/L		07/30/15 14:45	08/06/15 20:21	1
1,2,3,4,7,8,9-HpCDF	ND		49.5	0.0721	0.01		pg/L		07/30/15 14:45	08/06/15 20:21	1
Total HpCDF	ND		49.5	0.0574			pg/L		07/30/15 14:45	08/06/15 20:21	1
OCDF	**0.179**	**J V I**	99.0	0.0734	0.001	0.00018	pg/L		07/30/15 14:45	08/06/15 20:21	1
Total TEQ (EPA 1989)						**0.051**					

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*109*		*35 - 197*	*07/30/15 14:45*	*08/06/15 20:21*	*1*

Internal Standard	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*25 - 164*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,7,8-PeCDD	*77*		*25 - 181*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,4,7,8-HxCDD	*83*		*32 - 141*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,6,7,8-HxCDD	*76*		*28 - 130*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*84*		*23 - 140*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-OCDD	*69*		*17 - 157*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-2,3,7,8-TCDF	*80*		*24 - 169*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,7,8-PeCDF	*75*		*24 - 185*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-2,3,4,7,8-PeCDF	*75*		*21 - 178*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,4,7,8-HxCDF	*78*		*26 - 152*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,6,7,8-HxCDF	*79*		*26 - 123*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-2,3,4,6,7,8-HxCDF	*77*		*28 - 136*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,7,8,9-HxCDF	*77*		*29 - 147*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*72*		*28 - 143*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*66*		*26 - 138*	*07/30/15 14:45*	*08/06/15 20:21*	*1*
13C-OCDF	*56*		*17 - 157*	*07/30/15 14:45*	*08/06/15 20:21*	*1*

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-2A
Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5
Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**24**		2.5	1.3	ug/L		06/17/15 08:23	06/17/15 23:15	1
Barium	**51**		5.0	1.3	ug/L		06/17/15 08:23	06/17/15 23:15	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 23:15	1
Chromium	2.5	U	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 23:15	1
Lead	**0.88**	**I**	1.5	0.20	ug/L		06/17/15 08:23	06/17/15 23:15	1
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 23:15	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 23:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 11:15	1

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 660-158876/6
Matrix: Water
Analysis Batch: 158876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	9.9	U	20	9.9	ug/L			06/18/15 11:53	1
Benzene	0.50	U	1.0	0.50	ug/L			06/18/15 11:53	1
Bromobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 11:53	1
Bromoform	0.63	U	1.0	0.63	ug/L			06/18/15 11:53	1
Bromomethane	2.5	U	5.0	2.5	ug/L			06/18/15 11:53	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			06/18/15 11:53	1
Carbon disulfide	1.0	U	2.0	1.0	ug/L			06/18/15 11:53	1
Carbon tetrachloride	0.43	U	1.0	0.43	ug/L			06/18/15 11:53	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			06/18/15 11:53	1
Chlorobromomethane	0.58	U	1.0	0.58	ug/L			06/18/15 11:53	1
Chlorodibromomethane	0.31	U	1.0	0.31	ug/L			06/18/15 11:53	1
Chloroethane	2.5	U	5.0	2.5	ug/L			06/18/15 11:53	1
Chloroform	0.90	U	1.0	0.90	ug/L			06/18/15 11:53	1
Chloromethane	1.0	U	4.0	1.0	ug/L			06/18/15 11:53	1
2-Chlorotoluene	0.65	U	1.0	0.65	ug/L			06/18/15 11:53	1
4-Chlorotoluene	0.52	U	1.0	0.52	ug/L			06/18/15 11:53	1
cis-1,2-Dichloroethene	0.65	U	1.0	0.65	ug/L			06/18/15 11:53	1
cis-1,3-Dichloropropene	0.39	U	1.0	0.39	ug/L			06/18/15 11:53	1
1,2-Dibromo-3-Chloropropane	2.5	U	5.0	2.5	ug/L			06/18/15 11:53	1
Dibromomethane	0.46	U	1.0	0.46	ug/L			06/18/15 11:53	1
1,2-Dichlorobenzene	0.49	U	1.0	0.49	ug/L			06/18/15 11:53	1
1,3-Dichlorobenzene	0.64	U	1.0	0.64	ug/L			06/18/15 11:53	1
1,4-Dichlorobenzene	0.60	U	1.0	0.60	ug/L			06/18/15 11:53	1
Dichlorobromomethane	0.44	U	1.0	0.44	ug/L			06/18/15 11:53	1
Dichlorodifluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 11:53	1
1,1-Dichloroethane	0.52	U	1.0	0.52	ug/L			06/18/15 11:53	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			06/18/15 11:53	1
1,1-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 11:53	1
1,2-Dichloropropane	0.52	U	1.0	0.52	ug/L			06/18/15 11:53	1
1,3-Dichloropropane	0.42	U	1.0	0.42	ug/L			06/18/15 11:53	1
2,2-Dichloropropane	0.36	U	1.0	0.36	ug/L			06/18/15 11:53	1
1,1-Dichloropropene	0.65	U	1.0	0.65	ug/L			06/18/15 11:53	1
Ethylbenzene	0.44	U	1.0	0.44	ug/L			06/18/15 11:53	1
Ethylene Dibromide	0.50	U	1.0	0.50	ug/L			06/18/15 11:53	1
Hexachlorobutadiene	0.34	U	1.0	0.34	ug/L			06/18/15 11:53	1
2-Hexanone	4.4	U	10	4.4	ug/L			06/18/15 11:53	1
Isopropylbenzene	0.52	U	1.0	0.52	ug/L			06/18/15 11:53	1
4-Isopropyltoluene	0.69	U	1.0	0.69	ug/L			06/18/15 11:53	1
Methylene Chloride	4.0	U	5.0	4.0	ug/L			06/18/15 11:53	1
4-Methyl-2-pentanone (MIBK)	4.0	U	10	4.0	ug/L			06/18/15 11:53	1
Methyl tert-butyl ether	0.44	U	1.0	0.44	ug/L			06/18/15 11:53	1
m-Xylene & p-Xylene	0.60	U	2.0	0.60	ug/L			06/18/15 11:53	1
n-Butylbenzene	0.67	U	1.0	0.67	ug/L			06/18/15 11:53	1
N-Propylbenzene	0.59	U	1.0	0.59	ug/L			06/18/15 11:53	1
o-Xylene	0.50	U	1.0	0.50	ug/L			06/18/15 11:53	1
sec-Butylbenzene	0.63	U	1.0	0.63	ug/L			06/18/15 11:53	1
Styrene	0.98	U	2.0	0.98	ug/L			06/18/15 11:53	1
tert-Butylbenzene	0.84	U	1.0	0.84	ug/L			06/18/15 11:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 660-158876/6
Matrix: Water
Analysis Batch: 158876

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.63	U	1.0	0.63	ug/L			06/18/15 11:53	1
1,1,2,2-Tetrachloroethane	0.17	U	1.0	0.17	ug/L			06/18/15 11:53	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			06/18/15 11:53	1
Toluene	0.51	U	1.0	0.51	ug/L			06/18/15 11:53	1
trans-1,2-Dichloroethene	0.67	U	1.0	0.67	ug/L			06/18/15 11:53	1
trans-1,3-Dichloropropene	0.27	U	1.0	0.27	ug/L			06/18/15 11:53	1
1,2,3-Trichlorobenzene	0.77	U	1.0	0.77	ug/L			06/18/15 11:53	1
1,2,4-Trichlorobenzene	0.58	U	1.0	0.58	ug/L			06/18/15 11:53	1
1,1,1-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 11:53	1
1,1,2-Trichloroethane	0.47	U	1.0	0.47	ug/L			06/18/15 11:53	1
Trichloroethene	0.61	U	1.0	0.61	ug/L			06/18/15 11:53	1
Trichlorofluoromethane	2.5	U	5.0	2.5	ug/L			06/18/15 11:53	1
1,2,3-Trichloropropane	0.44	U	1.0	0.44	ug/L			06/18/15 11:53	1
1,2,4-Trimethylbenzene	0.86	U	1.0	0.86	ug/L			06/18/15 11:53	1
1,3,5-Trimethylbenzene	0.54	U	1.0	0.54	ug/L			06/18/15 11:53	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			06/18/15 11:53	1
Xylenes, Total	0.50	U	3.0	0.50	ug/L			06/18/15 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*70 - 130*		*06/18/15 11:53*	*1*
Dibromofluoromethane	*112*		*70 - 130*		*06/18/15 11:53*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/18/15 11:53*	*1*

Lab Sample ID: LCS 660-158876/7
Matrix: Water
Analysis Batch: 158876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	107		ug/L		107	62 - 142
Benzene	10.0	9.85		ug/L		99	68 - 134
Bromobenzene	10.0	9.87		ug/L		99	70 - 130
Bromoform	10.0	8.51		ug/L		85	65 - 130
Bromomethane	10.0	8.49		ug/L		85	22 - 150
2-Butanone (MEK)	100	99.6		ug/L		100	63 - 140
Carbon disulfide	10.0	9.40		ug/L		94	30 - 150
Carbon tetrachloride	10.0	12.2		ug/L		122	61 - 134
Chlorobenzene	10.0	9.79		ug/L		98	70 - 130
Chlorobromomethane	10.0	10.8		ug/L		108	70 - 130
Chlorodibromomethane	10.0	9.31		ug/L		93	70 - 130
Chloroethane	10.0	6.85		ug/L		68	39 - 150
Chloroform	10.0	11.7		ug/L		117	68 - 130
Chloromethane	10.0	8.73		ug/L		87	35 - 150
2-Chlorotoluene	10.0	11.1		ug/L		111	70 - 130
4-Chlorotoluene	10.0	11.3		ug/L		113	70 - 130
cis-1,2-Dichloroethene	10.0	12.4		ug/L		124	66 - 130
cis-1,3-Dichloropropene	10.0	10.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	10.0	8.00		ug/L		80	63 - 130
Dibromomethane	10.0	10.4		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-158876/7
Matrix: Water
Analysis Batch: 158876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.4		ug/L		104	70 - 130
1,3-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	10.0	9.64		ug/L		96	70 - 130
Dichlorobromomethane	10.0	10.5		ug/L		105	70 - 130
Dichlorodifluoromethane	10.0	8.88		ug/L		89	16 - 149
1,1-Dichloroethane	10.0	11.4		ug/L		114	66 - 130
1,2-Dichloroethane	10.0	12.6		ug/L		126	70 - 130
1,1-Dichloroethene	10.0	9.92		ug/L		99	51 - 150
1,2-Dichloropropane	10.0	10.4		ug/L		104	70 - 130
1,3-Dichloropropane	10.0	9.78		ug/L		98	70 - 130
2,2-Dichloropropane	10.0	11.7		ug/L		117	66 - 134
1,1-Dichloropropene	10.0	12.3		ug/L		123	65 - 136
Ethylbenzene	10.0	10.2		ug/L		102	70 - 130
Ethylene Dibromide	10.0	10.5		ug/L		105	66 - 130
Hexachlorobutadiene	10.0	11.2		ug/L		112	62 - 143
2-Hexanone	100	90.7		ug/L		91	60 - 148
Isopropylbenzene	10.0	10.5		ug/L		105	62 - 130
4-Isopropyltoluene	10.0	10.2		ug/L		102	65 - 134
Methylene Chloride	10.0	10.2		ug/L		102	57 - 130
4-Methyl-2-pentanone (MIBK)	100	90.5		ug/L		91	64 - 137
Methyl tert-butyl ether	10.0	10.3		ug/L		103	67 - 130
n-Butylbenzene	10.0	10.4		ug/L		104	61 - 131
N-Propylbenzene	10.0	10.8		ug/L		108	67 - 130
o-Xylene	10.0	10.7		ug/L		107	69 - 130
sec-Butylbenzene	10.0	10.4		ug/L		104	68 - 133
Styrene	10.0	9.51		ug/L		95	68 - 131
tert-Butylbenzene	10.0	11.0		ug/L		110	64 - 130
1,1,1,2-Tetrachloroethane	10.0	10.2		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	10.0	8.06		ug/L		81	70 - 130
Tetrachloroethene	10.0	10.2		ug/L		102	50 - 143
Toluene	10.0	10.1		ug/L		101	70 - 131
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	62 - 139
trans-1,3-Dichloropropene	10.0	11.3		ug/L		113	67 - 130
1,2,3-Trichlorobenzene	10.0	10.2		ug/L		102	58 - 132
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	66 - 130
1,1,1-Trichloroethane	10.0	12.0		ug/L		120	63 - 132
1,1,2-Trichloroethane	10.0	8.90		ug/L		89	70 - 130
Trichloroethene	10.0	10.9		ug/L		109	63 - 139
Trichlorofluoromethane	10.0	11.8		ug/L		118	62 - 146
1,2,3-Trichloropropane	10.0	9.76		ug/L		98	66 - 130
1,2,4-Trimethylbenzene	10.0	11.0		ug/L		110	70 - 132
1,3,5-Trimethylbenzene	10.0	10.6		ug/L		106	65 - 134
Vinyl chloride	10.0	8.16		ug/L		82	48 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*70 - 130*
Dibromofluoromethane	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 640-117308/1-A
Matrix: Water
Analysis Batch: 117333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117308

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Acenaphthylene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Benzo[a]anthracene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Benzo[a]pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Benzo[b]fluoranthene	0.025	U	0.10	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Benzo[g,h,i]perylene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Benzo[k]fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Chrysene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Dibenz(a,h)anthracene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Fluoranthene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1
Fluorene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Indeno[1,2,3-cd]pyrene	0.044	U	0.20	0.044	ug/L		06/15/15 14:09	06/16/15 15:11	1
1-Methylnaphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
2-Methylnaphthalene	0.031	U	0.20	0.031	ug/L		06/15/15 14:09	06/16/15 15:11	1
Naphthalene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Phenanthrene	0.040	U	0.20	0.040	ug/L		06/15/15 14:09	06/16/15 15:11	1
Pyrene	0.025	U	0.20	0.025	ug/L		06/15/15 14:09	06/16/15 15:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*82*		*40 - 114*	*06/15/15 14:09*	*06/16/15 15:11*	*1*

Lab Sample ID: LCS 640-117308/2-A
Matrix: Water
Analysis Batch: 117333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	8.00	4.64		ug/L		58	50 - 110
Acenaphthylene	8.00	4.88		ug/L		61	27 - 105
Anthracene	8.00	6.10		ug/L		76	33 - 103
Benzo[a]anthracene	8.00	7.33		ug/L		92	58 - 112
Benzo[a]pyrene	8.00	6.77		ug/L		85	34 - 115
Benzo[b]fluoranthene	8.00	6.68		ug/L		84	68 - 120
Benzo[g,h,i]perylene	8.00	6.13		ug/L		77	57 - 128
Benzo[k]fluoranthene	8.00	7.01		ug/L		88	67 - 115
Chrysene	8.00	7.42		ug/L		93	64 - 115
Dibenz(a,h)anthracene	8.00	6.11		ug/L		76	52 - 128
Fluoranthene	8.00	6.26		ug/L		78	66 - 113
Fluorene	8.00	4.76		ug/L		60	59 - 113
Indeno[1,2,3-cd]pyrene	8.00	6.11		ug/L		76	58 - 121
1-Methylnaphthalene	8.00	4.57		ug/L		57	46 - 103
2-Methylnaphthalene	8.00	4.26		ug/L		53	46 - 106
Naphthalene	8.00	4.55		ug/L		57	43 - 104
Phenanthrene	8.00	4.92		ug/L		62	57 - 109
Pyrene	8.00	6.52		ug/L		82	60 - 114

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 640-117308/2-A
Matrix: Water
Analysis Batch: 117333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117308

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	65		40 - 114

Lab Sample ID: LCSD 640-117308/3-A
Matrix: Water
Analysis Batch: 117333

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117308

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			8.00	4.58		ug/L		57	50 - 110	1	40
Acenaphthylene			8.00	4.68		ug/L		59	27 - 105	4	40
Anthracene			8.00	6.01		ug/L		75	33 - 103	1	40
Benzo[a]anthracene			8.00	7.55		ug/L		94	58 - 112	3	37
Benzo[a]pyrene			8.00	7.06		ug/L		88	34 - 115	4	40
Benzo[b]fluoranthene			8.00	6.81		ug/L		85	68 - 120	2	23
Benzo[g,h,i]perylene			8.00	6.34		ug/L		79	57 - 128	3	27
Benzo[k]fluoranthene			8.00	7.31		ug/L		91	67 - 115	4	23
Chrysene			8.00	7.56		ug/L		95	64 - 115	2	34
Dibenz(a,h)anthracene			8.00	6.29		ug/L		79	52 - 128	3	30
Fluoranthene			8.00	6.39		ug/L		80	66 - 113	2	32
Fluorene			8.00	4.67	J3	ug/L		58	59 - 113	2	36
Indeno[1,2,3-cd]pyrene			8.00	6.30		ug/L		79	58 - 121	3	26
1-Methylnaphthalene			8.00	4.27		ug/L		53	46 - 103	7	40
2-Methylnaphthalene			8.00	3.99		ug/L		50	46 - 106	6	40
Naphthalene			8.00	4.06		ug/L		51	43 - 104	11	40
Phenanthrene			8.00	5.06		ug/L		63	57 - 109	3	32
Pyrene			8.00	6.64		ug/L		83	60 - 114	2	37

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl (Surr)	69		40 - 114

Method: 8081B - Organochlorine Pesticides by GC

Lab Sample ID: MB 640-117345/1-A
Matrix: Water
Analysis Batch: 117354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117345

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0020	U	0.050	0.0020	ug/L		06/16/15 14:49	06/17/15 23:50	1
alpha-BHC	0.0060	U	0.050	0.0060	ug/L		06/16/15 14:49	06/17/15 23:50	1
alpha-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
beta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Chlordane (technical)	0.34	U	1.0	0.34	ug/L		06/16/15 14:49	06/17/15 23:50	1
4,4'-DDD	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
4,4'-DDE	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
4,4'-DDT	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
delta-BHC	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Dieldrin	0.0020	U	0.10	0.0020	ug/L		06/16/15 14:49	06/17/15 23:50	1
Endosulfan I	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Lab Sample ID: MB 640-117345/1-A
Matrix: Water
Analysis Batch: 117354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117345

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Endosulfan sulfate	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Endrin	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Endrin aldehyde	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Endrin ketone	0.013	U	0.10	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
gamma-BHC (Lindane)	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
gamma-Chlordane	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Heptachlor	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Heptachlor epoxide	0.013	U	0.050	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Methoxychlor	0.013	U	0.50	0.013	ug/L		06/16/15 14:49	06/17/15 23:50	1
Toxaphene	0.68	U	5.0	0.68	ug/L		06/16/15 14:49	06/17/15 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*20 - 142*	*06/16/15 14:49*	*06/17/15 23:50*	*1*
Dibutylchlorendate	*105*		*25 - 137*	*06/16/15 14:49*	*06/17/15 23:50*	*1*
Tetrachloro-m-xylene	*90*		*22 - 134*	*06/16/15 14:49*	*06/17/15 23:50*	*1*

Lab Sample ID: LCS 640-117345/2-A
Matrix: Water
Analysis Batch: 117354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.270	0.272		ug/L		101	54 - 144
alpha-BHC	0.270	0.303		ug/L		112	66 - 129
alpha-Chlordane	0.270	0.328		ug/L		121	49 - 163
beta-BHC	0.270	0.310		ug/L		115	47 - 167
4,4'-DDD	0.270	0.325		ug/L		120	38 - 156
4,4'-DDE	0.270	0.253		ug/L		94	38 - 145
4,4'-DDT	0.270	0.237		ug/L		88	21 - 137
delta-BHC	0.270	0.290		ug/L		107	51 - 132
Dieldrin	0.270	0.350		ug/L		130	51 - 161
Endosulfan I	0.270	0.290		ug/L		107	32 - 152
Endosulfan II	0.270	0.328		ug/L		121	52 - 151
Endosulfan sulfate	0.270	0.249		ug/L		92	38 - 158
Endrin	0.270	0.298		ug/L		110	59 - 144
Endrin aldehyde	0.270	0.376		ug/L		139	53 - 165
Endrin ketone	0.270	0.345		ug/L		128	60 - 167
gamma-BHC (Lindane)	0.270	0.316		ug/L		117	58 - 141
gamma-Chlordane	0.270	0.288		ug/L		107	62 - 148
Heptachlor	0.270	0.270		ug/L		100	55 - 151
Heptachlor epoxide	0.270	0.327		ug/L		121	68 - 155
Methoxychlor	0.270	0.257	I	ug/L		95	33 - 151

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*20 - 142*
Dibutylchlorendate	*104*		*25 - 137*
Tetrachloro-m-xylene	*96*		*22 - 134*

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Lab Sample ID: LCSD 640-117345/3-A
Matrix: Water
Analysis Batch: 117354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			0.270	0.275		ug/L		102	54 - 144	1	34
alpha-BHC			0.270	0.263		ug/L		97	66 - 129	14	20
alpha-Chlordane			0.270	0.327		ug/L		121	49 - 163	0	51
beta-BHC			0.270	0.256		ug/L		95	47 - 167	19	28
4,4'-DDD			0.270	0.327		ug/L		121	38 - 156	0	31
4,4'-DDE			0.270	0.266		ug/L		98	38 - 145	5	28
4,4'-DDT			0.270	0.238		ug/L		88	21 - 137	0	35
delta-BHC			0.270	0.249		ug/L		92	51 - 132	15	28
Dieldrin			0.270	0.350		ug/L		129	51 - 161	0	29
Endosulfan I			0.270	0.296		ug/L		109	32 - 152	2	50
Endosulfan II			0.270	0.326		ug/L		120	52 - 151	1	39
Endosulfan sulfate			0.270	0.248		ug/L		92	38 - 158	0	36
Endrin			0.270	0.297		ug/L		110	59 - 144	0	21
Endrin aldehyde			0.270	0.370		ug/L		137	53 - 165	1	41
Endrin ketone			0.270	0.342		ug/L		127	60 - 167	1	38
gamma-BHC (Lindane)			0.270	0.273		ug/L		101	58 - 141	15	38
gamma-Chlordane			0.270	0.294		ug/L		109	62 - 148	2	27
Heptachlor			0.270	0.252		ug/L		93	55 - 151	7	25
Heptachlor epoxide			0.270	0.321		ug/L		119	68 - 155	2	24
Methoxychlor			0.270	0.284	I	ug/L		105	33 - 151	10	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*20 - 142*
Dibutylchlorendate	*104*		*25 - 137*
Tetrachloro-m-xylene	*90*		*22 - 134*

Lab Sample ID: 660-67393-2 MS
Matrix: Water
Analysis Batch: 117354

Client Sample ID: LMW-DP1
Prep Type: Total/NA
Prep Batch: 117345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.0020	U	0.541	0.546		ug/L		101	25 - 135
alpha-BHC	0.0059	U	0.541	0.577		ug/L		107	47 - 130
alpha-Chlordane	0.013	U	0.541	0.654		ug/L		121	50 - 130
beta-BHC	0.013	U	0.541	0.608		ug/L		112	50 - 142
4,4'-DDD	0.013	U	0.541	0.614		ug/L		114	50 - 130
4,4'-DDE	0.013	U	0.541	0.517		ug/L		96	50 - 130
4,4'-DDT	0.013	U	0.541	0.424		ug/L		78	36 - 140
delta-BHC	0.013	U	0.541	0.548		ug/L		101	54 - 124
Dieldrin	0.0020	U	0.541	0.675		ug/L		125	30 - 146
Endosulfan I	0.013	U	0.541	0.589		ug/L		109	44 - 130
Endosulfan II	0.013	U	0.541	0.653		ug/L		121	47 - 130
Endosulfan sulfate	0.013	U	0.541	0.494		ug/L		91	50 - 139
Endrin	0.013	U	0.541	0.602		ug/L		111	38 - 140
Endrin aldehyde	0.013	U	0.541	0.670		ug/L		124	49 - 143
Endrin ketone	0.013	U	0.541	0.659		ug/L		122	39 - 144
gamma-BHC (Lindane)	0.013	U	0.541	0.620		ug/L		115	36 - 135
gamma-Chlordane	0.013	U	0.541	0.587		ug/L		109	50 - 130

Method: 8081B - Organochlorine Pesticides by GC (Continued)

Lab Sample ID: 660-67393-2 MS
Matrix: Water
Analysis Batch: 117354

Client Sample ID: LMW-DP1
Prep Type: Total/NA
Prep Batch: 117345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.013	U	0.541	0.567		ug/L		105	26 - 131
Heptachlor epoxide	0.013	U	0.541	0.669		ug/L		124	50 - 130
Methoxychlor	0.013	U	0.541	0.520	I	ug/L		96	48 - 144

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*51*		*20 - 142*
Dibutylchlorendate	*105*		*25 - 137*
Tetrachloro-m-xylene	*96*		*22 - 134*

Lab Sample ID: 660-67393-2 MSD
Matrix: Water
Analysis Batch: 117354

Client Sample ID: LMW-DP1
Prep Type: Total/NA
Prep Batch: 117345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.0020	U	0.541	0.528		ug/L		98	25 - 135	3	30
alpha-BHC	0.0059	U	0.541	0.538		ug/L		100	47 - 130	7	30
alpha-Chlordane	0.013	U	0.541	0.640		ug/L		118	50 - 130	2	30
beta-BHC	0.013	U	0.541	0.519		ug/L		96	50 - 142	16	30
4,4'-DDD	0.013	U	0.541	0.601		ug/L		111	50 - 130	2	30
4,4'-DDE	0.013	U	0.541	0.502		ug/L		93	50 - 130	3	30
4,4'-DDT	0.013	U	0.541	0.425		ug/L		79	36 - 140	0	24
delta-BHC	0.013	U	0.541	0.491		ug/L		91	54 - 124	11	30
Dieldrin	0.0020	U	0.541	0.656		ug/L		121	30 - 146	3	30
Endosulfan I	0.013	U	0.541	0.561		ug/L		104	44 - 130	5	30
Endosulfan II	0.013	U	0.541	0.634		ug/L		117	47 - 130	3	30
Endosulfan sulfate	0.013	U	0.541	0.473		ug/L		88	50 - 139	4	30
Endrin	0.013	U	0.541	0.602		ug/L		111	38 - 140	0	32
Endrin aldehyde	0.013	U	0.541	0.639		ug/L		118	49 - 143	5	30
Endrin ketone	0.013	U	0.541	0.634		ug/L		117	39 - 144	4	30
gamma-BHC (Lindane)	0.013	U	0.541	0.538		ug/L		100	36 - 135	14	34
gamma-Chlordane	0.013	U	0.541	0.572		ug/L		106	50 - 130	2	30
Heptachlor	0.013	U	0.541	0.572		ug/L		106	26 - 131	1	30
Heptachlor epoxide	0.013	U	0.541	0.645		ug/L		119	50 - 130	4	30
Methoxychlor	0.013	U	0.541	0.486	I	ug/L		90	48 - 144	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*44*		*20 - 142*
Dibutylchlorendate	*106*		*25 - 137*
Tetrachloro-m-xylene	*96*		*22 - 134*

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique

Lab Sample ID: MB 640-117314/1-A
Matrix: Water
Analysis Batch: 117339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117314

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bolstar	0.095	U	1.0	0.095	ug/L		06/15/15 17:16	06/16/15 18:01	1
Chlorpyrifos	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 18:01	1
Coumaphos	0.081	U	1.0	0.081	ug/L		06/15/15 17:16	06/16/15 18:01	1
Demeton, Total	0.15	U	2.5	0.15	ug/L		06/15/15 17:16	06/16/15 18:01	1
Diazinon	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 18:01	1
Dichlorvos	0.26	U	2.0	0.26	ug/L		06/15/15 17:16	06/16/15 18:01	1
Dimethoate	0.32	U	2.0	0.32	ug/L		06/15/15 17:16	06/16/15 18:01	1
Disulfoton	0.12	U	2.0	0.12	ug/L		06/15/15 17:16	06/16/15 18:01	1
EPN	0.071	U	1.0	0.071	ug/L		06/15/15 17:16	06/16/15 18:01	1
Ethyl Parathion	0.080	U	1.0	0.080	ug/L		06/15/15 17:16	06/16/15 18:01	1
Fensulfothion	0.17	U	5.0	0.17	ug/L		06/15/15 17:16	06/16/15 18:01	1
Guthion	0.33	U	1.0	0.33	ug/L		06/15/15 17:16	06/16/15 18:01	1
Malathion	0.092	U	1.0	0.092	ug/L		06/15/15 17:16	06/16/15 18:01	1
Merphos	0.13	U	1.0	0.13	ug/L		06/15/15 17:16	06/16/15 18:01	1
Methyl parathion	0.12	U	0.50	0.12	ug/L		06/15/15 17:16	06/16/15 18:01	1
Mevinphos	0.15	U	2.0	0.15	ug/L		06/15/15 17:16	06/16/15 18:01	1
Mocap	0.41	U	0.50	0.41	ug/L		06/15/15 17:16	06/16/15 18:01	1
Monochrotophos	2.6	U	10	2.6	ug/L		06/15/15 17:16	06/16/15 18:01	1
Naled	0.36	U	5.0	0.36	ug/L		06/15/15 17:16	06/16/15 18:01	1
Phorate	0.16	U	1.0	0.16	ug/L		06/15/15 17:16	06/16/15 18:01	1
Ronnel	0.13	U	1.0	0.13	ug/L		06/15/15 17:16	06/16/15 18:01	1
Sulfotepp	0.055	U	0.50	0.055	ug/L		06/15/15 17:16	06/16/15 18:01	1
Tokuthion	0.087	U	1.0	0.087	ug/L		06/15/15 17:16	06/16/15 18:01	1
Trichloronate	0.11	U	1.0	0.11	ug/L		06/15/15 17:16	06/16/15 18:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate (TPP)	*97*		*37 - 139*	*06/15/15 17:16*	*06/16/15 18:01*	*1*

Lab Sample ID: LCS 640-117314/2-A
Matrix: Water
Analysis Batch: 117339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bolstar	2.50	2.47		ug/L		99	50 - 130
Chlorpyrifos	2.50	2.07		ug/L		83	50 - 130
Coumaphos	2.50	2.16		ug/L		86	50 - 130
Demeton, Total	5.00	3.50		ug/L		70	50 - 130
Diazinon	2.50	1.59		ug/L		64	42 - 132
Dichlorvos	2.50	1.69	I	ug/L		68	50 - 130
EPN	2.50	2.15		ug/L		86	50 - 130
Ethyl Parathion	2.50	2.31		ug/L		92	49 - 134
Fensulfothion	2.50	1.71	I	ug/L		68	50 - 130
Guthion	2.50	2.30		ug/L		92	50 - 130
Malathion	2.50	2.28		ug/L		91	50 - 130
Methyl parathion	2.50	2.18		ug/L		87	43 - 140
Mevinphos	2.50	1.99	I	ug/L		80	50 - 130

Method: 8141B - Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique (Continued)

Lab Sample ID: LCS 640-117314/2-A
Matrix: Water
Analysis Batch: 117339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mocap	2.50	2.26		ug/L		90	50 - 130
Monochrotophos	10.0	4.49	I	ug/L		45	10 - 100
Naled	10.0	6.65		ug/L		66	50 - 130
Phorate	2.50	1.81		ug/L		72	50 - 130
Ronnel	2.50	1.95		ug/L		78	38 - 124
Tokuthion	2.50	2.26		ug/L		90	50 - 130
Trichloronate	2.50	2.04		ug/L		82	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate (TPP)	*97*		*37 - 139*

Lab Sample ID: LCSD 640-117314/3-A
Matrix: Water
Analysis Batch: 117339

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117314

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bolstar	2.50	2.42		ug/L		97	50 - 130	2	30
Chlorpyrifos	2.50	1.89		ug/L		75	50 - 130	9	30
Coumaphos	2.50	2.18		ug/L		87	50 - 130	1	30
Demeton, Total	5.00	3.38		ug/L		68	50 - 130	3	30
Diazinon	2.50	1.45		ug/L		58	42 - 132	11	30
Dichlorvos	2.50	1.51	I	ug/L		61	50 - 130	11	30
EPN	2.50	2.23		ug/L		89	50 - 130	4	30
Ethyl Parathion	2.50	2.03		ug/L		81	49 - 134	13	30
Fensulfothion	2.50	1.85	I	ug/L		74	50 - 130	8	30
Guthion	2.50	2.34		ug/L		94	50 - 130	2	30
Malathion	2.50	2.15		ug/L		86	50 - 130	6	30
Methyl parathion	2.50	2.01		ug/L		81	43 - 140	8	30
Mevinphos	2.50	1.97	I	ug/L		79	50 - 130	1	30
Mocap	2.50	2.16		ug/L		86	50 - 130	5	30
Monochrotophos	10.0	5.29	I	ug/L		53	10 - 100	16	30
Naled	10.0	6.01		ug/L		60	50 - 130	10	30
Phorate	2.50	1.69		ug/L		68	50 - 130	7	30
Ronnel	2.50	1.77		ug/L		71	38 - 124	10	30
Tokuthion	2.50	2.13		ug/L		85	50 - 130	6	30
Trichloronate	2.50	1.87		ug/L		75	50 - 130	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate (TPP)	*101*		*37 - 139*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Lab Sample ID: MB 400-261268/1-A
Matrix: Water
Analysis Batch: 261409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 261268

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	24	U	150	24	ug/L		06/16/15 10:42	06/17/15 13:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-C39	*111*		*42 - 193*	*06/16/15 10:42*	*06/17/15 13:36*	*1*
o-Terphenyl	*111*		*82 - 142*	*06/16/15 10:42*	*06/17/15 13:36*	*1*

Lab Sample ID: LCS 400-261268/2-A
Matrix: Water
Analysis Batch: 261409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 261268

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Petroleum Hydrocarbons (C8-C40)			3400	3360		ug/L		99	55 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-C39	*112*		*42 - 193*
o-Terphenyl	*132*		*82 - 142*

Lab Sample ID: LCSD 400-261268/3-A
Matrix: Water
Analysis Batch: 261409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 261268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Petroleum Hydrocarbons (C8-C40)			3400	3280		ug/L		96	55 - 118	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-C39	*112*		*42 - 193*
o-Terphenyl	*125*		*82 - 142*

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Lab Sample ID: H5G300000018B
Matrix: Water
Analysis Batch: 5211018

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 5211018_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10.0	0.0849	1		pg/L		07/30/15 14:45	08/06/15 15:11	1
Total TCDD	ND		10.0	0.0849			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,7,8-PeCDD	0.152	J I	50.0	0.0519	0.5	0.076	pg/L		07/30/15 14:45	08/06/15 15:11	1
Total PeCDD	0.152	J I	50.0	0.0519			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,4,7,8-HxCDD	ND		50.0	0.102	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,6,7,8-HxCDD	ND		50.0	0.104	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,7,8,9-HxCDD	ND		50.0	0.0976	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
Total HxCDD	ND		50.0	0.101			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,4,6,7,8-HpCDD	1.28	J I	50.0	0.201	0.01	0.013	pg/L		07/30/15 14:45	08/06/15 15:11	1
Total HpCDD	1.96	J I	50.0	0.201			pg/L		07/30/15 14:45	08/06/15 15:11	1

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B) (Continued)

Lab Sample ID: H5G300000018B
Matrix: Water
Analysis Batch: 5211018

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 5211018_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	3.85	J I	100	0.140	0.001	0.0039	pg/L		07/30/15 14:45	08/06/15 15:11	1
2,3,7,8-TCDF	ND		10.0	0.103	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
Total TCDF	ND		10.0	0.103			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,7,8-PeCDF	ND		50.0	0.128	0.05		pg/L		07/30/15 14:45	08/06/15 15:11	1
2,3,4,7,8-PeCDF	ND		50.0	0.125	0.5		pg/L		07/30/15 14:45	08/06/15 15:11	1
Total PeCDF	ND		50.0	0.126			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,4,7,8-HxCDF	ND		50.0	0.107	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,6,7,8-HxCDF	ND		50.0	0.104	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
2,3,4,6,7,8-HxCDF	0.181	J I	50.0	0.118	0.1	0.018	pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,7,8,9-HxCDF	ND		50.0	0.145	0.1		pg/L		07/30/15 14:45	08/06/15 15:11	1
Total HxCDF	0.181	J I	50.0	0.116			pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,4,6,7,8-HpCDF	0.365	J I	50.0	0.0459	0.01	0.0037	pg/L		07/30/15 14:45	08/06/15 15:11	1
1,2,3,4,7,8,9-HpCDF	0.388	J I	50.0	0.0778	0.01	0.0039	pg/L		07/30/15 14:45	08/06/15 15:11	1
Total HpCDF	0.753	J I	50.0	0.0583			pg/L		07/30/15 14:45	08/06/15 15:11	1
OCDF	1.92	I	100	0.0757	0.001	0.0019	pg/L		07/30/15 14:45	08/06/15 15:11	1
Total TEQ						**0.12**					

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*104*		*35 - 197*	*07/30/15 14:45*	*08/06/15 15:11*	*1*

Internal Standard	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*79*		*25 - 164*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*25 - 181*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*32 - 141*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,6,7,8-HxCDD	*77*		*28 - 130*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*82*		*23 - 140*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-OCDD	*68*		*17 - 157*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-2,3,7,8-TCDF	*82*		*24 - 169*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*24 - 185*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-2,3,4,7,8-PeCDF	*79*		*21 - 178*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,4,7,8-HxCDF	*82*		*26 - 152*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,6,7,8-HxCDF	*80*		*26 - 123*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-2,3,4,6,7,8-HxCDF	*79*		*28 - 136*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,7,8,9-HxCDF	*78*		*29 - 147*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*82*		*28 - 143*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*72*		*26 - 138*	*07/30/15 14:45*	*08/06/15 15:11*	*1*
13C-OCDF	*51*		*17 - 157*	*07/30/15 14:45*	*08/06/15 15:11*	*1*

Lab Sample ID: H5G300000018C
Matrix: Water
Analysis Batch: 5211018

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 5211018_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	204		pg/L		102	67 - 158
1,2,3,7,8-PeCDD	1000	1090	V	pg/L		109	70 - 142
1,2,3,4,7,8-HxCDD	1000	1020		pg/L		102	70 - 164
1,2,3,6,7,8-HxCDD	1000	1000		pg/L		100	76 - 134

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B) (Continued)

Lab Sample ID: H5G300000018C
Matrix: Water
Analysis Batch: 5211018

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 5211018_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,7,8,9-HxCDD	1000	1110		pg/L		111	64 - 162
1,2,3,4,6,7,8-HpCDD	1000	969	V	pg/L		97	70 - 140
OCDD	2000	1780	V	pg/L		89	78 - 144
2,3,7,8-TCDF	200	208		pg/L		104	75 - 158
1,2,3,7,8-PeCDF	1000	944		pg/L		94	80 - 134
2,3,4,7,8-PeCDF	1000	1040		pg/L		104	68 - 160
1,2,3,4,7,8-HxCDF	1000	967		pg/L		97	72 - 134
1,2,3,6,7,8-HxCDF	1000	973		pg/L		97	84 - 130
2,3,4,6,7,8-HxCDF	1000	985	V	pg/L		99	70 - 156
1,2,3,7,8,9-HxCDF	1000	938		pg/L		94	78 - 130
1,2,3,4,6,7,8-HpCDF	1000	918	V	pg/L		92	82 - 122
1,2,3,4,7,8,9-HpCDF	1000	981	V	pg/L		98	78 - 138
OCDF	2000	1930	V	pg/L		96	63 - 170

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*109*		*31 - 191*

Internal Standard	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*77*		*20 - 175*
13C-1,2,3,7,8-PeCDD	*75*		*21 - 227*
13C-1,2,3,4,7,8-HxCDD	*79*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*75*		*25 - 163*
13C-1,2,3,4,6,7,8-HpCDD	*88*		*26 - 166*
13C-OCDD	*82*		*13 - 199*
13C-2,3,7,8-TCDF	*74*		*22 - 152*
13C-1,2,3,7,8-PeCDF	*73*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*73*		*13 - 328*
13C-1,2,3,4,7,8-HxCDF	*78*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*76*		*21 - 159*
13C-2,3,4,6,7,8-HxCDF	*78*		*22 - 176*
13C-1,2,3,7,8,9-HxCDF	*77*		*17 - 205*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*81*		*20 - 186*
13C-OCDF	*68*		*13 - 199*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-387936/23-A
Matrix: Water
Analysis Batch: 388223

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 387936

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3	U	2.5	1.3	ug/L		06/17/15 08:23	06/17/15 22:30	1
Barium	1.3	U	5.0	1.3	ug/L		06/17/15 08:23	06/17/15 22:30	1
Cadmium	0.095	U	0.50	0.095	ug/L		06/17/15 08:23	06/17/15 22:30	1
Chromium	2.5	U	5.0	2.5	ug/L		06/17/15 08:23	06/17/15 22:30	1
Lead	0.20	U	1.5	0.20	ug/L		06/17/15 08:23	06/17/15 22:30	1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-387936/23-A
Matrix: Water
Analysis Batch: 388223

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 387936

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	1.0	U	2.5	1.0	ug/L		06/17/15 08:23	06/17/15 22:30	1
Silver	0.25	U	1.0	0.25	ug/L		06/17/15 08:23	06/17/15 22:30	1

Lab Sample ID: LCS 680-387936/24-A
Matrix: Water
Analysis Batch: 388223

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 387936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	101		ug/L		101	75 - 125
Barium	100	106		ug/L		106	75 - 125
Cadmium	50.0	54.0		ug/L		108	75 - 125
Chromium	100	103		ug/L		103	75 - 125
Lead	500	508		ug/L		102	75 - 125
Selenium	100	101		ug/L		101	75 - 125
Silver	50.0	53.1		ug/L		106	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 680-387654/13-A
Matrix: Water
Analysis Batch: 387859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 387654

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		06/15/15 14:04	06/16/15 10:50	1

Lab Sample ID: LCS 680-387654/14-A
Matrix: Water
Analysis Batch: 387859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 387654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.48		ug/L		99	80 - 120

Lab Sample ID: 660-67393-1 MS
Matrix: Water
Analysis Batch: 387859

Client Sample ID: LMW-B4
Prep Type: Total/NA
Prep Batch: 387654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.080	U	1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 660-67393-1 MSD
Matrix: Water
Analysis Batch: 387859

Client Sample ID: LMW-B4
Prep Type: Total/NA
Prep Batch: 387654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.080	U	1.00	1.05		ug/L		105	80 - 120	1	20

Internal Standards Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	,2,3,7,8-P	2,3,4,7,8-H	2,3,6,7,8-H	,3,4,6,7,8-	13C-OCDD	TCDF	,2,3,7,8-P
Lab Sample ID	Client Sample ID	(25-164)	(25-181)	(32-141)	(28-130)	(23-140)	(17-157)	(24-169)	(24-185)
660-67393-1	LMW-B4	83	83	84	85	89	70	83	80
660-67393-2	LMW-DP1	80	77	74	74	79	54	78	82
660-67393-3	LMW-B3	85	80	81	78	85	70	84	84
660-67393-4	LMW-DP2	83	76	80	78	82	67	79	73
660-67393-5	LMW-2A	80	77	83	76	84	69	80	75
H5G300000018B	Method Blank	79	80	81	77	82	68	82	80

		Percent Internal Standard Recovery (Acceptance Limits)							
		PeCDF2	2,3,4,7,8-H	HxCDF2	HxCDF3	HxCDF4	,3,4,6,7,8-	,3,4,7,8,9-	13C-OCDF
Lab Sample ID	Client Sample ID	(21-178)	(26-152)	(26-123)	(28-136)	(29-147)	(28-143)	(26-138)	(17-157)
660-67393-1	LMW-B4	81	86	80	82	84	80	83	59
660-67393-2	LMW-DP1	78	74	73	77	77	77	69	48
660-67393-3	LMW-B3	83	83	77	80	80	79	73	61
660-67393-4	LMW-DP2	75	77	80	80	82	78	77	57
660-67393-5	LMW-2A	75	78	79	77	77	72	66	56
H5G300000018B	Method Blank	79	82	80	79	78	82	72	51

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
13C-1,2,3,7,8-PeCDD = 13C-1,2,3,7,8-PeCDD
13C-1,2,3,4,7,8-HxCDD = 13C-1,2,3,4,7,8-HxCDD
13C-1,2,3,6,7,8-HxCDD = 13C-1,2,3,6,7,8-HxCDD
13C-1,2,3,4,6,7,8-HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
13C-OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
13C-1,2,3,7,8-PeCDF = 13C-1,2,3,7,8-PeCDF
PeCDF2 = 13C-2,3,4,7,8-PeCDF
13C-1,2,3,4,7,8-HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxCDF2 = 13C-1,2,3,6,7,8-HxCDF
HxCDF3 = 13C-2,3,4,6,7,8-HxCDF
HxCDF4 = 13C-1,2,3,7,8,9-HxCDF
13C-1,2,3,4,6,7,8-HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
13C-1,2,3,4,7,8,9-HpCDF = 13C-1,2,3,4,7,8,9-HpCDF
13C-OCDF = 13C-OCDF

Method: 1613B - Dioxins/Furans, HRGC/HRMS (1613B)

Matrix: Water **Prep Type: Total**

		Percent Internal Standard Recovery (Acceptance Limits)							
		TCDD	,2,3,7,8-P	2,3,4,7,8-H	2,3,6,7,8-H	,3,4,6,7,8-	13C-OCDD	TCDF	,2,3,7,8-P
Lab Sample ID	Client Sample ID	(20-175)	(21-227)	(21-193)	(25-163)	(26-166)	(13-199)	(22-152)	(21-192)
H5G300000018C	Lab Control Sample	77	75	79	75	88	82	74	73

		Percent Internal Standard Recovery (Acceptance Limits)							
		PeCDF2	2,3,4,7,8-H	HxCDF2	HxCDF3	HxCDF4	,3,4,6,7,8-	,3,4,7,8,9-	13C-OCDF
Lab Sample ID	Client Sample ID	(13-328)	(19-202)	(21-159)	(22-176)	(17-205)	(21-158)	(20-186)	(13-199)
H5G300000018C	Lab Control Sample	73	78	76	78	77	84	81	68

Internal Standard Legend

TCDD = 13C-2,3,7,8-TCDD
13C-1,2,3,7,8-PeCDD = 13C-1,2,3,7,8-PeCDD

Internal Standards Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

13C-1,2,3,4,7,8-HxCDD = 13C-1,2,3,4,7,8-HxCDD
13C-1,2,3,6,7,8-HxCDD = 13C-1,2,3,6,7,8-HxCDD
13C-1,2,3,4,6,7,8-HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
13C-OCDD = 13C-OCDD
TCDF = 13C-2,3,7,8-TCDF
13C-1,2,3,7,8-PeCDF = 13C-1,2,3,7,8-PeCDF
PeCDF2 = 13C-2,3,4,7,8-PeCDF
13C-1,2,3,4,7,8-HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxCDF2 = 13C-1,2,3,6,7,8-HxCDF
HxCDF3 = 13C-2,3,4,6,7,8-HxCDF
HxCDF4 = 13C-1,2,3,7,8,9-HxCDF
13C-1,2,3,4,6,7,8-HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
13C-1,2,3,4,7,8,9-HpCDF = 13C-1,2,3,4,7,8,9-HpCDF
13C-OCDF = 13C-OCDF

GC/MS VOA

Analysis Batch: 158876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	8260B	
660-67393-2	LMW-DP1	Total/NA	Water	8260B	
660-67393-3	LMW-B3	Total/NA	Water	8260B	
660-67393-4	LMW-DP2	Total/NA	Water	8260B	
660-67393-5	LMW-2A	Total/NA	Water	8260B	
LCS 660-158876/7	Lab Control Sample	Total/NA	Water	8260B	
MB 660-158876/6	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 117308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	3520C	
660-67393-2	LMW-DP1	Total/NA	Water	3520C	
660-67393-3	LMW-B3	Total/NA	Water	3520C	
660-67393-4	LMW-DP2	Total/NA	Water	3520C	
660-67393-5	LMW-2A	Total/NA	Water	3520C	
LCS 640-117308/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-117308/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-117308/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 117333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	8270D LL	117308
660-67393-2	LMW-DP1	Total/NA	Water	8270D LL	117308
660-67393-3	LMW-B3	Total/NA	Water	8270D LL	117308
660-67393-4	LMW-DP2	Total/NA	Water	8270D LL	117308
660-67393-5	LMW-2A	Total/NA	Water	8270D LL	117308
LCS 640-117308/2-A	Lab Control Sample	Total/NA	Water	8270D LL	117308
LCSD 640-117308/3-A	Lab Control Sample Dup	Total/NA	Water	8270D LL	117308
MB 640-117308/1-A	Method Blank	Total/NA	Water	8270D LL	117308

GC Semi VOA

Prep Batch: 117314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	3520C	
660-67393-2	LMW-DP1	Total/NA	Water	3520C	
660-67393-3	LMW-B3	Total/NA	Water	3520C	
660-67393-4	LMW-DP2	Total/NA	Water	3520C	
660-67393-5	LMW-2A	Total/NA	Water	3520C	
LCS 640-117314/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 640-117314/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 640-117314/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 117339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	8141B	117314
660-67393-2	LMW-DP1	Total/NA	Water	8141B	117314
660-67393-3	LMW-B3	Total/NA	Water	8141B	117314

GC Semi VOA (Continued)

Analysis Batch: 117339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-4	LMW-DP2	Total/NA	Water	8141B	117314
660-67393-5	LMW-2A	Total/NA	Water	8141B	117314
LCS 640-117314/2-A	Lab Control Sample	Total/NA	Water	8141B	117314
LCSD 640-117314/3-A	Lab Control Sample Dup	Total/NA	Water	8141B	117314
MB 640-117314/1-A	Method Blank	Total/NA	Water	8141B	117314

Prep Batch: 117345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	3511	
660-67393-2	LMW-DP1	Total/NA	Water	3511	
660-67393-2 MS	LMW-DP1	Total/NA	Water	3511	
660-67393-2 MSD	LMW-DP1	Total/NA	Water	3511	
660-67393-3	LMW-B3	Total/NA	Water	3511	
660-67393-4	LMW-DP2	Total/NA	Water	3511	
660-67393-5	LMW-2A	Total/NA	Water	3511	
LCS 640-117345/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 640-117345/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
MB 640-117345/1-A	Method Blank	Total/NA	Water	3511	

Analysis Batch: 117354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	8081B	117345
660-67393-2 MS	LMW-DP1	Total/NA	Water	8081B	117345
660-67393-2 MSD	LMW-DP1	Total/NA	Water	8081B	117345
LCS 640-117345/2-A	Lab Control Sample	Total/NA	Water	8081B	117345
LCSD 640-117345/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	117345
MB 640-117345/1-A	Method Blank	Total/NA	Water	8081B	117345

Analysis Batch: 117355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-3	LMW-B3	Total/NA	Water	8081B	117345
660-67393-4	LMW-DP2	Total/NA	Water	8081B	117345
660-67393-5	LMW-2A	Total/NA	Water	8081B	117345

Analysis Batch: 117390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-2	LMW-DP1	Total/NA	Water	8081B	117345

Prep Batch: 261268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	3520C	
660-67393-2	LMW-DP1	Total/NA	Water	3520C	
660-67393-3	LMW-B3	Total/NA	Water	3520C	
660-67393-4	LMW-DP2	Total/NA	Water	3520C	
660-67393-5	LMW-2A	Total/NA	Water	3520C	
LCS 400-261268/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-261268/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 400-261268/1-A	Method Blank	Total/NA	Water	3520C	

GC Semi VOA (Continued)

Analysis Batch: 261409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	FL-PRO	261268
660-67393-2	LMW-DP1	Total/NA	Water	FL-PRO	261268
660-67393-3	LMW-B3	Total/NA	Water	FL-PRO	261268
660-67393-4	LMW-DP2	Total/NA	Water	FL-PRO	261268
660-67393-5	LMW-2A	Total/NA	Water	FL-PRO	261268
LCS 400-261268/2-A	Lab Control Sample	Total/NA	Water	FL-PRO	261268
LCSD 400-261268/3-A	Lab Control Sample Dup	Total/NA	Water	FL-PRO	261268
MB 400-261268/1-A	Method Blank	Total/NA	Water	FL-PRO	261268

Specialty Organics

Analysis Batch: 5211018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total	Water	1613B	
660-67393-2	LMW-DP1	Total	Water	1613B	
660-67393-3	LMW-B3	Total	Water	1613B	
660-67393-4	LMW-DP2	Total	Water	1613B	
660-67393-5	LMW-2A	Total	Water	1613B	
H5G300000018B	Method Blank	Total	Water	1613B	
H5G300000018C	Lab Control Sample	Total	Water	1613B	

Prep Batch: 5211018_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total	Water	1613	
660-67393-2	LMW-DP1	Total	Water	1613	
660-67393-3	LMW-B3	Total	Water	1613	
660-67393-4	LMW-DP2	Total	Water	1613	
660-67393-5	LMW-2A	Total	Water	1613	
H5G300000018B	Method Blank	Total	Water	1613	
H5G300000018C	Lab Control Sample	Total	Water	1613	

Metals

Prep Batch: 387654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	7470A	
660-67393-1 MS	LMW-B4	Total/NA	Water	7470A	
660-67393-1 MSD	LMW-B4	Total/NA	Water	7470A	
660-67393-2	LMW-DP1	Total/NA	Water	7470A	
660-67393-3	LMW-B3	Total/NA	Water	7470A	
660-67393-4	LMW-DP2	Total/NA	Water	7470A	
660-67393-5	LMW-2A	Total/NA	Water	7470A	
LCS 680-387654/14-A	Lab Control Sample	Total/NA	Water	7470A	
MB 680-387654/13-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 387859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total/NA	Water	7470A	387654
660-67393-1 MS	LMW-B4	Total/NA	Water	7470A	387654
660-67393-1 MSD	LMW-B4	Total/NA	Water	7470A	387654

Metals (Continued)

Analysis Batch: 387859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-2	LMW-DP1	Total/NA	Water	7470A	387654
660-67393-3	LMW-B3	Total/NA	Water	7470A	387654
660-67393-4	LMW-DP2	Total/NA	Water	7470A	387654
660-67393-5	LMW-2A	Total/NA	Water	7470A	387654
LCS 680-387654/14-A	Lab Control Sample	Total/NA	Water	7470A	387654
MB 680-387654/13-A	Method Blank	Total/NA	Water	7470A	387654

Prep Batch: 387936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total Recoverable	Water	3005A	
660-67393-2	LMW-DP1	Total Recoverable	Water	3005A	
660-67393-3	LMW-B3	Total Recoverable	Water	3005A	
660-67393-4	LMW-DP2	Total Recoverable	Water	3005A	
660-67393-5	LMW-2A	Total Recoverable	Water	3005A	
LCS 680-387936/24-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-387936/23-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 388223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-67393-1	LMW-B4	Total Recoverable	Water	6020A	387936
660-67393-2	LMW-DP1	Total Recoverable	Water	6020A	387936
660-67393-3	LMW-B3	Total Recoverable	Water	6020A	387936
660-67393-4	LMW-DP2	Total Recoverable	Water	6020A	387936
660-67393-5	LMW-2A	Total Recoverable	Water	6020A	387936
LCS 680-387936/24-A	Lab Control Sample	Total Recoverable	Water	6020A	387936
MB 680-387936/23-A	Method Blank	Total Recoverable	Water	6020A	387936

Lab Chronicle

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-B4

Date Collected: 06/11/15 09:23
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	158876	06/18/15 16:08	ECC	TAL TAM
Total/NA	Prep	3520C			117308	06/15/15 14:09	QMC	TAL TAL
Total/NA	Analysis	8270D LL		1	117333	06/16/15 16:47	JMF	TAL TAL
Total/NA	Prep	3511			117345	06/16/15 14:49	RDD	TAL TAL
Total/NA	Analysis	8081B		1	117354	06/18/15 02:05	CWA	TAL TAL
Total/NA	Prep	3520C			117314	06/15/15 17:16	QMC	TAL TAL
Total/NA	Analysis	8141B		1	117339	06/16/15 19:38	MLT	TAL TAL
Total/NA	Prep	3520C			261268	06/16/15 10:42	KH1	TAL PEN
Total/NA	Analysis	FL-PRO		1	261409	06/17/15 14:05	IDR	TAL PEN
Total	Prep	1613			5211018_P	07/30/15 14:45		TAL KNX
Total	Analysis	1613B		1	5211018	08/06/15 16:14	MAD	TAL KNX
Total Recoverable	Prep	3005A			387936	06/17/15 08:23	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	388223	06/17/15 22:55	BWR	TAL SAV
Total/NA	Prep	7470A			387654	06/15/15 14:04	JKL	TAL SAV
Total/NA	Analysis	7470A		1	387859	06/16/15 10:56	JKL	TAL SAV

Client Sample ID: LMW-DP1

Date Collected: 06/11/15 10:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	158876	06/18/15 16:27	ECC	TAL TAM
Total/NA	Prep	3520C			117308	06/15/15 14:09	QMC	TAL TAL
Total/NA	Analysis	8270D LL		1	117333	06/16/15 17:06	JMF	TAL TAL
Total/NA	Prep	3511			117345	06/16/15 14:49	RDD	TAL TAL
Total/NA	Analysis	8081B		1	117390	06/18/15 13:12	CWA	TAL TAL
Total/NA	Prep	3520C			117314	06/15/15 17:16	QMC	TAL TAL
Total/NA	Analysis	8141B		1	117339	06/16/15 19:54	MLT	TAL TAL
Total/NA	Prep	3520C			261268	06/16/15 10:42	KH1	TAL PEN
Total/NA	Analysis	FL-PRO		1	261409	06/17/15 14:15	IDR	TAL PEN
Total	Prep	1613			5211018_P	07/30/15 14:45		TAL KNX
Total	Analysis	1613B		1	5211018	08/06/15 17:16	MAD	TAL KNX
Total Recoverable	Prep	3005A			387936	06/17/15 08:23	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	388223	06/17/15 23:00	BWR	TAL SAV
Total/NA	Prep	7470A			387654	06/15/15 14:04	JKL	TAL SAV
Total/NA	Analysis	7470A		1	387859	06/16/15 11:05	JKL	TAL SAV

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	158876	06/18/15 16:46	ECC	TAL TAM

Client Sample ID: LMW-B3

Date Collected: 06/11/15 12:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			117308	06/15/15 14:09	QMC	TAL TAL
Total/NA	Analysis	8270D LL		1	117333	06/16/15 17:30	JMF	TAL TAL
Total/NA	Prep	3511			117345	06/16/15 14:49	RDD	TAL TAL
Total/NA	Analysis	8081B		1	117355	06/17/15 22:43	CWA	TAL TAL
Total/NA	Prep	3520C			117314	06/15/15 17:16	QMC	TAL TAL
Total/NA	Analysis	8141B		1	117339	06/16/15 20:10	MLT	TAL TAL
Total/NA	Prep	3520C			261268	06/16/15 10:42	KH1	TAL PEN
Total/NA	Analysis	FL-PRO		1	261409	06/17/15 14:25	IDR	TAL PEN
Total	Prep	1613			5211018_P	07/30/15 14:45		TAL KNX
Total	Analysis	1613B		1	5211018	08/06/15 18:17	MAD	TAL KNX
Total Recoverable	Prep	3005A			387936	06/17/15 08:23	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	388223	06/17/15 23:05	BWR	TAL SAV
Total/NA	Prep	7470A			387654	06/15/15 14:04	JKL	TAL SAV
Total/NA	Analysis	7470A		1	387859	06/16/15 11:08	JKL	TAL SAV

Client Sample ID: LMW-DP2

Date Collected: 06/11/15 13:41
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	158876	06/18/15 17:05	ECC	TAL TAM
Total/NA	Prep	3520C			117308	06/15/15 14:09	QMC	TAL TAL
Total/NA	Analysis	8270D LL		1	117333	06/16/15 17:49	JMF	TAL TAL
Total/NA	Prep	3511			117345	06/16/15 14:49	RDD	TAL TAL
Total/NA	Analysis	8081B		1	117355	06/17/15 22:58	CWA	TAL TAL
Total/NA	Prep	3520C			117314	06/15/15 17:16	QMC	TAL TAL
Total/NA	Analysis	8141B		1	117339	06/16/15 20:26	MLT	TAL TAL
Total/NA	Prep	3520C			261268	06/16/15 10:42	KH1	TAL PEN
Total/NA	Analysis	FL-PRO		1	261409	06/17/15 14:35	IDR	TAL PEN
Total	Prep	1613			5211018_P	07/30/15 14:45		TAL KNX
Total	Analysis	1613B		1	5211018	08/06/15 19:19	MAD	TAL KNX
Total Recoverable	Prep	3005A			387936	06/17/15 08:23	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	388223	06/17/15 23:10	BWR	TAL SAV
Total/NA	Prep	7470A			387654	06/15/15 14:04	JKL	TAL SAV
Total/NA	Analysis	7470A		1	387859	06/16/15 11:11	JKL	TAL SAV

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	158876	06/18/15 17:24	ECC	TAL TAM
Total/NA	Prep	3520C			117308	06/15/15 14:09	QMC	TAL TAL

Lab Chronicle

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Client Sample ID: LMW-2A

Date Collected: 06/11/15 15:36
Date Received: 06/12/15 08:50

Lab Sample ID: 660-67393-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	117333	06/16/15 18:08	JMF	TAL TAL
Total/NA	Prep	3511			117345	06/16/15 14:49	RDD	TAL TAL
Total/NA	Analysis	8081B		1	117355	06/17/15 23:13	CWA	TAL TAL
Total/NA	Prep	3520C			117314	06/15/15 17:16	QMC	TAL TAL
Total/NA	Analysis	8141B		1	117339	06/16/15 20:42	MLT	TAL TAL
Total/NA	Prep	3520C			261268	06/16/15 10:42	KH1	TAL PEN
Total/NA	Analysis	FL-PRO		1	261409	06/17/15 14:45	IDR	TAL PEN
Total	Prep	1613			5211018_P	07/30/15 14:45		TAL KNX
Total	Analysis	1613B		1	5211018	08/06/15 20:21	MAD	TAL KNX
Total Recoverable	Prep	3005A			387936	06/17/15 08:23	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	388223	06/17/15 23:15	BWR	TAL SAV
Total/NA	Prep	7470A			387654	06/15/15 14:04	JKL	TAL SAV
Total/NA	Analysis	7470A		1	387859	06/16/15 11:15	JKL	TAL SAV

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL TAL
8081B	Organochlorine Pesticides by GC	SW846	TAL TAL
8141B	Organophosphorous Compounds by Gas Chromatography, Capillary Column Technique	SW846	TAL TAL
FL-PRO	Florida - Petroleum Range Organics (GC)	FL-DEP	TAL PEN
1613B	Dioxins/Furans, HRGC/HRMS (1613B)	EPA-5	TAL KNX
6020A	Metals (ICP/MS)	SW846	TAL SAV
7470A	Mercury (CVAA)	SW846	TAL SAV

Protocol References:

EPA-5 = EPA-5

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Laboratory: TestAmerica Tampa

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E84282	06-30-16

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0688	06-16-16
California	State Program	9	2423	06-30-16
Colorado	State Program	8	N/A	02-28-16
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-16
Georgia	State Program	4	906	04-13-17
Hawaii	State Program	9	N/A	04-13-16
Kansas	NELAP	7	E-10349	10-31-15
Kentucky (DW)	State Program	4	90101	12-31-15
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	83979	06-30-16
Louisiana (DW)	NELAP	6	LA110001	12-31-15
Maryland	State Program	3	277	03-31-16
Michigan	State Program	5	9933	04-13-17
Nevada	State Program	9	TN00009	07-31-16
New Jersey	NELAP	2	TN001	09-30-15
New York	NELAP	2	10781	03-31-16
North Carolina (DW)	State Program	4	21705	07-31-16
North Carolina (WW/SW)	State Program	4	64	12-31-15
Ohio VAP	State Program	5	CL0059	01-16-17
Oklahoma	State Program	6	9415	08-31-15
Pennsylvania	NELAP	3	68-00576	12-31-15
South Carolina	State Program	4	84001	06-30-15
Tennessee	State Program	4	2014	04-13-17
Texas	NELAP	6	T104704380-TX	08-31-15
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-16
Virginia	NELAP	3	460176	09-14-15
Washington	State Program	10	C593	01-19-16
West Virginia (DW)	State Program	3	9955C	12-31-15
West Virginia DEP	State Program	3	345	04-30-16
Wisconsin	State Program	5	998044300	08-31-15

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	01-31-16
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Langan Engineering & Environmental Srvcs
Project/Site: City of Hollywood

TestAmerica Job ID: 660-67393-1

Laboratory: TestAmerica Pensacola (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15 *
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-15 *
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15 *
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87052	06-30-16

Laboratory: TestAmerica Tallahassee

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-16

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8141B	3520C	Water	Demeton, Total

* Certification renewal pending - certification considered valid.

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1/7/2016

Client Information	Sampler: Ruben Ponceleno	Lab PM: Atkins, Amy	Carrier Tracking No(s):	COC No: 660-62633-20108.4
Client Contact: Dan Spector	Phone: (305)-321-2854	E-Mail: amy.atkins@testamericainc.com		Page: Page 4 of 4
Company: Langan Engineering & Environmental Srvcs		**Analysis Requested**		Job #
Address: 15150 NW 79th Court Suite 200	Due Date Requested:			Preservation Codes:
City: Miami Lakes	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: FL, 33016				
Phone: 786-264-7218(Tel)	PO #: Purchase Order not required			Other:
Email: dspector@langan.com	WO #:			
Project Name: City of Hollywood	Project #: 66008634			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B_8082A, 8141B, 8270D, FL_PRO	8260B - Standard 8260 List (QV)	6020A, 7471B	8260B - Standard 8260 List (QV)	8270D_LL - PAH list	FL_PRO - FL-PRO	8081B_8082A - 8081 Standard List	8141B - 8141 Standard List	6020A, 7470A	8290A - 17 Isomers & Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	A	N	N	D	N			
LMW-B4	6/11/15	4:23	GW	Water														
LMW-DP1	6/11/15	10:36	GW	Water														
LMW-B3	6/11/15	12:41	GW	Water														
LMW-DP2	6/11/15	1:41	GW	Water														
LMW-2A	6/11/15	3:36	GW	Water														
				Water														
				Water														
				Water														
				Water														

See Project Requirements

Loc: 660
67393

Ft Lauderdale
660325

660-67393 Chain of Custody

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) -	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: per Sandy on FE	Date/Time: 6/11/15 1600	Company	Received by:	Date/Time: 6/11/15 1600	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/12/15 0850	Company TA TPA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.4/0.9, 0.2/0.7 0.8/1.3 1.0/1.5 0.2/0.7 CU-09

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 660-67393-1

Login Number: 67393
List Number: 1
Creator: Southers, Kristin B

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 660-67393-1

Login Number: 67393
List Number: 4
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 06/13/15 12:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C IR2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 660-67393-1

Login Number: 67393
List Number: 5
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 06/13/15 02:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3°C IR2
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 660-67393-1

Login Number: 67393
List Number: 2
Creator: Baumgartner, Todd

List Source: TestAmerica Savannah
List Creation: 06/13/15 09:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Langan Engineering & Environmental Srvcs

Job Number: 660-67393-1

Login Number: 67393
List Number: 3
Creator: Savoie, Joseph L

List Source: TestAmerica Tallahassee
List Creation: 06/13/15 10:21 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	