TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 720-73997-1
Client Project/Site: WPCP San Leandro

For:
City of San Leandro
3000 Davis Street
San Leandro, California 94577

Attn: Angelica Berumen

Authorized for release by:
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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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)

Job ID: 720-73997-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-73997-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2016 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 720-208050 and analytical batch 720-208282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside of acceptance limits: SLUDGE BED#14 W (720-73997-8). The sample was not re-analyzed due to confirmed by MS and MSD.

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

GC/MS Semi VOA
Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: SLUDGE BED#14 W (720-73997-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following sample was diluted due to the abundance of non-target analytes: SLUDGE BED#14 W (720-73997-8). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA
Method(s) 8141A: The following samples was diluted due to the nature and thickness of the sample matrix: SLUDGE BED#14 W (720-73997-8), (720-73997-K-8-B MS) and (720-73997-K-8-C MSD). Also sample caused Closing CCV to fail high for Dichlorvos and low for EPN.

Method(s) 8081A: Surrogate recovery for the following sample was outside control limits: SLUDGE BED#14 W (720-73997-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SLUDGE BED#14 W (720-73997-8), (LCS 720-208361/2-A) and (MB 720-208361/1-A).

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.

General Chemistry
Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for fluoride were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for nitrate were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 720-73997-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

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

Organic Prep
Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: SLUDGE BED#14 W (720-73997-8). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W — Lab Sample ID: 720-73997-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Sodium Adsorption Ratio	2.4				NONE	1		20B	Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100	F2 F1 *	49		ug/Kg	1		8260B	Total/NA
Carbon disulfide	5.1	*	4.9		ug/Kg	1		8260B	Total/NA
4-Isopropyltoluene	31	F2 F1 *	4.9		ug/Kg	1		8260B	Total/NA
Nitrate as N	660		220		mg/Kg	100		300.0	Soluble
Barium	220		1.8		mg/Kg	4		6010B	Total/NA
Cadmium	0.99		0.46		mg/Kg	4		6010B	Total/NA
Chromium	39		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	5.3		0.73		mg/Kg	4		6010B	Total/NA
Copper	280		5.5		mg/Kg	4		6010B	Total/NA
Lead	23		1.8		mg/Kg	4		6010B	Total/NA
Molybdenum	9.5		1.8		mg/Kg	4		6010B	Total/NA
Nickel	25		1.8		mg/Kg	4		6010B	Total/NA
Silver	3.1		0.92		mg/Kg	4		6010B	Total/NA
Vanadium	17		1.8		mg/Kg	4		6010B	Total/NA
Zinc	600		5.5		mg/Kg	4		6010B	Total/NA
Sodium	790		18		mg/Kg	4		6010B	Total/NA
Calcium	21000		18		mg/Kg	4		6010B	Total/NA
B	17		3.7		mg/Kg	4		6010B	Total/NA
Mercury	0.67		0.085		mg/Kg	10		7471A	Total/NA
Nitrogen, Kjeldahl	8000		2000		mg/L	25		351.1	Total/NA
Nitrogen, Organic	5200		4.0		mg/Kg	1		Nitrogen,Org	Total/NA
Cyanide, Total	2.5		0.49		mg/Kg	1		SM 4500 CN E	Total/NA
Ammonia	2800		470		mg/Kg	25		SM 4500 NH3 G	Total/NA
Phosphorus as P	8200		1600		mg/Kg	50		SM 4500 P E	Total/NA
Phosphorus as PO4	25000		4900		mg/Kg	50		SM 4500 P E	Total/NA
Phosphorus Pentoxide	19000		3700		mg/Kg	50		SM 4500 P E	Total/NA
Specific Conductance (25C)	3100		0.10		umhos/cm	1		SM 2510B	Soluble

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.2	HF	0.1		SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8
Date Collected: 08/18/16 09:11
Matrix: Solid
Date Received: 08/18/16 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Acetone	**100**	**F2 F1 ***	49		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Benzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Dichlorobromomethane	ND	F2 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Bromobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chlorobromomethane	ND	*	20		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Bromoform	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Bromomethane	ND	*	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
2-Butanone (MEK)	ND	*	49		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
n-Butylbenzene	ND	F2 F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
sec-Butylbenzene	ND	F2 F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
tert-Butylbenzene	ND	F2 F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Carbon disulfide	**5.1**	*****	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Carbon tetrachloride	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chlorobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chloroethane	ND	F1 *	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chloroform	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chloromethane	ND	F1 *	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
2-Chlorotoluene	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
4-Chlorotoluene	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Chlorodibromomethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2-Dichlorobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,3-Dichlorobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,4-Dichlorobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,3-Dichloropropane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1-Dichloropropene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2-Dibromo-3-Chloropropane	ND	*	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Ethylene Dibromide	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Dibromomethane	ND	*	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Dichlorodifluoromethane	ND	F1 *	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1-Dichloroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2-Dichloroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1-Dichloroethene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
cis-1,2-Dichloroethene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
trans-1,2-Dichloroethene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2-Dichloropropane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
cis-1,3-Dichloropropene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
trans-1,3-Dichloropropene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Ethylbenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Hexachlorobutadiene	ND	F2 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
2-Hexanone	ND	*	49		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Isopropylbenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
4-Isopropyltoluene	**31**	**F2 F1 ***	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Methylene Chloride	ND	F1 *	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
4-Methyl-2-pentanone (MIBK)	ND	F1 *	49		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Naphthalene	ND	F2 *	9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
N-Propylbenzene	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Styrene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1,1,2-Tetrachloroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11

Matrix: Solid

Date Received: 08/18/16 16:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Tetrachloroethene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Toluene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2,3-Trichlorobenzene	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1,1-Trichloroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1,2-Trichloroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Trichloroethene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Trichlorofluoromethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2,3-Trichloropropane	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
1,3,5-Trimethylbenzene	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Vinyl acetate	ND	F1 *	20		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Vinyl chloride	ND	F1 *	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
Xylenes, Total	ND		9.8		ug/Kg		08/22/16 20:22	08/26/16 05:38	1
2,2-Dichloropropane	ND	*	4.9		ug/Kg		08/22/16 20:22	08/26/16 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*	*	*45 - 131*	*08/22/16 20:22*	*08/26/16 05:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*	*	*60 - 140*	*08/22/16 20:22*	*08/26/16 05:38*	*1*
Toluene-d8 (Surr)	*83*	*	*58 - 140*	*08/22/16 20:22*	*08/26/16 05:38*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Phenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Chlorophenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
1,3-Dichlorobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
1,4-Dichlorobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzyl alcohol	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
1,2-Dichlorobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Methylphenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Methylphenol, 3 & 4	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
N-Nitrosodi-n-propylamine	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Hexachloroethane	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Nitrobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Isophorone	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Nitrophenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,4-Dimethylphenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Bis(2-chloroethoxy)methane	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,4-Dichlorophenol	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
1,2,4-Trichlorobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Naphthalene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Chloroaniline	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Hexachlorobutadiene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Chloro-3-methylphenol	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Methylnaphthalene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Hexachlorocyclopentadiene	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,4,6-Trichlorophenol	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10

Client Sample ID: SLUDGE BED#14 W
Date Collected: 08/18/16 09:11
Date Received: 08/18/16 16:35

Lab Sample ID: 720-73997-8
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Chloronaphthalene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Nitroaniline	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Dimethyl phthalate	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Acenaphthylene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
3-Nitroaniline	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Acenaphthene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,4-Dinitrophenol	ND		33		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Nitrophenol	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Dibenzofuran	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,4-Dinitrotoluene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2,6-Dinitrotoluene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Diethyl phthalate	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Chlorophenyl phenyl ether	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Fluorene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Nitroaniline	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
2-Methyl-4,6-dinitrophenol	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
N-Nitrosodiphenylamine	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
4-Bromophenyl phenyl ether	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Hexachlorobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Pentachlorophenol	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Phenanthrene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Anthracene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Di-n-butyl phthalate	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Fluoranthene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Pyrene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Butyl benzyl phthalate	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
3,3'-Dichlorobenzidine	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzo[a]anthracene	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Bis(2-ethylhexyl) phthalate	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Chrysene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Di-n-octyl phthalate	ND		8.4		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzo[b]fluoranthene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzo[a]pyrene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzo[k]fluoranthene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Indeno[1,2,3-cd]pyrene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzo[g,h,i]perylene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Benzoic acid	ND		16		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Azobenzene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10
Dibenz(a,h)anthracene	ND		3.3		mg/Kg		08/29/16 11:20	08/31/16 05:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*0*	*X*	*21 - 98*	*08/29/16 11:20*	*08/31/16 05:41*	*10*
2-Fluorobiphenyl	*0*	*X*	*30 - 112*	*08/29/16 11:20*	*08/31/16 05:41*	*10*
Terphenyl-d14	*0*	*X*	*59 - 134*	*08/29/16 11:20*	*08/31/16 05:41*	*10*
2-Fluorophenol	*0*	*X*	*28 - 98*	*08/29/16 11:20*	*08/31/16 05:41*	*10*
Phenol-d5	*0*	*X*	*23 - 101*	*08/29/16 11:20*	*08/31/16 05:41*	*10*
2,4,6-Tribromophenol	*0*	*X*	*37 - 114*	*08/29/16 11:20*	*08/31/16 05:41*	*10*

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11
Matrix: Solid
Date Received: 08/18/16 16:35

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mirex	ND		43		ug/Kg		08/30/16 15:37	09/01/16 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*26*	*X*	*35 - 115*	*08/30/16 15:37*	*09/01/16 00:55*	*1*
DCB Decachlorobiphenyl (Surr)	*23*	*X*	*45 - 120*	*08/30/16 15:37*	*09/01/16 00:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1221	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1232	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1242	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1248	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1254	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1
PCB-1260	ND		50		ug/Kg		08/27/16 08:18	08/29/16 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*45 - 132*	*08/27/16 08:18*	*08/29/16 05:25*	*1*
DCB Decachlorobiphenyl	*84*		*42 - 146*	*08/27/16 08:18*	*08/29/16 05:25*	*1*

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Bolstar	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Chlorpyrifos	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Coumaphos	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Demeton, Total	ND	F1	650		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Demeton-O	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Demeton-S	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Diazinon	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Dichlorvos	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Dimethoate	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Disulfoton	ND	F1 F2	330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
EPN	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Famphur	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Fensulfothion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Fenthion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Malathion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Methyl parathion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Mevinphos	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
O,O,O-Triethyl phosphorothioate	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Parathion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Phorate	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Ronnel	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Stirophos	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Sulfotepp	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Tokuthion	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Trichloronate	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Mocap	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10
Thionazin	ND		330		ug/Kg		08/31/16 03:30	09/01/16 12:58	10

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11
Date Received: 08/18/16 16:35

Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*123*		*45 - 150*	*08/31/16 03:30*	*09/01/16 12:58*	*10*
Tributyl phosphate	*85*		*28 - 150*	*08/31/16 03:30*	*09/01/16 12:58*	*10*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
2,4-D	ND		80		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Silvex (2,4,5-TP)	ND		20		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Dalapon	ND		90		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
2,4-DB	ND		80		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Dicamba	ND		40		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Dichlorprop	ND		80		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Dinoseb	ND		12		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
MCPA	ND		8000		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
Pentachlorophenol	ND		11		ug/Kg		08/23/16 12:47	08/26/16 18:20	20
MCPP	ND		8000		ug/Kg		08/23/16 12:47	08/26/16 18:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*77*		*19 - 122*	*08/23/16 12:47*	*08/26/16 18:20*	*20*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	F1 F2	9.7		mg/Kg			08/19/16 19:48	1
Nitrate as N	**660**		220		mg/Kg			08/19/16 21:48	100

Method: 20B - Sodium Adsorption Ratio - Soluble

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	**2.4**				NONE		08/26/16 10:11	08/30/16 16:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Arsenic	ND		3.7		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Barium	**220**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Beryllium	ND		0.37		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Cadmium	**0.99**		0.46		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Chromium	**39**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Cobalt	**5.3**		0.73		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Copper	**280**		5.5		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Lead	**23**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Molybdenum	**9.5**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Nickel	**25**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Selenium	ND		3.7		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Silver	**3.1**		0.92		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Thallium	ND		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Vanadium	**17**		1.8		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Zinc	**600**		5.5		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Sodium	**790**		18		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
Calcium	**21000**		18		mg/Kg		08/22/16 18:49	08/30/16 15:52	4
B	**17**		3.7		mg/Kg		08/22/16 18:49	08/30/16 15:52	4

Client Sample Results

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11
Matrix: Solid
Date Received: 08/18/16 16:35

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.085		mg/Kg		08/22/16 18:04	08/30/16 17:14	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	8000		2000		mg/L		08/31/16 12:45	09/02/16 12:41	25
Phenols, Total	ND		1.0		mg/Kg		09/07/16 06:00	09/07/16 11:59	1
Chromium, hexavalent	ND		2.0		mg/Kg		08/23/16 15:50	08/24/16 14:26	2
Percent Moisture	53.6		0.1		%			08/23/16 08:55	1
Nitrogen, Organic	5200		4.0		mg/Kg			08/30/16 10:51	1
Cyanide, Total	2.5		0.49		mg/Kg		08/31/16 12:35	08/31/16 16:56	1
Ammonia	2800		470		mg/Kg		08/31/16 19:26	08/31/16 23:31	25
Phosphorus as P	8200		1600		mg/Kg		08/24/16 17:45	08/25/16 14:09	50
Phosphorus as PO4	25000		4900		mg/Kg		08/24/16 17:45	08/25/16 14:09	50
Phosphorus Pentoxide	19000		3700		mg/Kg		08/24/16 17:45	08/25/16 14:09	50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.2	HF	0.1		SU			08/26/16 17:36	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (25C)	3100		0.10		umhos/cm			08/30/16 12:18	1

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

Lab Sample ID: 720-73997-8 MS
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 208050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	ND	F1 *	49.0	75.9	F1 *	ug/Kg		155	69 - 130
Acetone	100	F2 F1 *	245	1570	F1 *	ug/Kg		600	37 - 150
Benzene	ND	*	49.0	49.9	*	ug/Kg		102	70 - 130
Dichlorobromomethane	ND	F2 *	49.0	42.8	*	ug/Kg		87	64 - 135
Bromobenzene	ND	*	49.0	54.5	*	ug/Kg		111	70 - 130
Chlorobromomethane	ND	*	49.0	53.1	*	ug/Kg		108	65 - 130
Bromoform	ND	*	49.0	37.2	*	ug/Kg		76	58 - 132
Bromomethane	ND	*	49.0	49.8	*	ug/Kg		102	56 - 130
2-Butanone (MEK)	ND	*	245	351	*	ug/Kg		143	41 - 150
n-Butylbenzene	ND	F2 F1 *	49.0	73.6	F1 *	ug/Kg		150	60 - 145
sec-Butylbenzene	ND	F2 F1 *	49.0	85.5	F1 *	ug/Kg		174	64 - 137
tert-Butylbenzene	ND	F2 F1 *	49.0	82.7	F1 *	ug/Kg		169	63 - 134
Carbon disulfide	5.1	*	49.0	60.4	*	ug/Kg		113	10 - 150
Carbon tetrachloride	ND	*	49.0	54.8	*	ug/Kg		112	54 - 130
Chlorobenzene	ND	*	49.0	46.3	*	ug/Kg		94	70 - 130
Chloroethane	ND	F1 *	49.0	70.9	F1 *	ug/Kg		145	61 - 130
Chloroform	ND	*	49.0	51.5	*	ug/Kg		105	67 - 130
Chloromethane	ND	F1 *	49.0	82.1	F1 *	ug/Kg		167	50 - 131
2-Chlorotoluene	ND	F1 *	49.0	70.2	F1 *	ug/Kg		143	70 - 130
4-Chlorotoluene	ND	F1 *	49.0	64.4	F1 *	ug/Kg		131	70 - 130
Chlorodibromomethane	ND	*	49.0	30.9	*	ug/Kg		63	60 - 141
1,2-Dichlorobenzene	ND	*	49.0	42.8	*	ug/Kg		87	70 - 130
1,3-Dichlorobenzene	ND	*	49.0	49.2	*	ug/Kg		100	70 - 130
1,4-Dichlorobenzene	ND	*	49.0	46.3	*	ug/Kg		94	70 - 130
1,3-Dichloropropane	ND	*	49.0	40.3	*	ug/Kg		82	70 - 130
1,1-Dichloropropene	ND	*	49.0	49.6	*	ug/Kg		101	67 - 130
1,2-Dibromo-3-Chloropropane	ND	*	49.0	46.4	*	ug/Kg		95	57 - 130
Ethylene Dibromide	ND	*	49.0	36.5	*	ug/Kg		74	66 - 135
Dibromomethane	ND	*	49.0	46.9	*	ug/Kg		96	65 - 131
Dichlorodifluoromethane	ND	F1 *	49.0	66.5	F1 *	ug/Kg		136	38 - 130
1,1-Dichloroethane	ND	*	49.0	59.6	*	ug/Kg		122	67 - 130
1,2-Dichloroethane	ND	*	49.0	57.4	*	ug/Kg		117	70 - 130
1,1-Dichloroethene	ND	*	49.0	54.5	*	ug/Kg		111	64 - 130
cis-1,2-Dichloroethene	ND	*	49.0	57.7	*	ug/Kg		118	68 - 131
trans-1,2-Dichloroethene	ND	*	49.0	56.7	*	ug/Kg		116	70 - 130
1,2-Dichloropropane	ND	*	49.0	49.4	*	ug/Kg		101	65 - 133
cis-1,3-Dichloropropene	ND	*	49.0	38.9	*	ug/Kg		79	46 - 139
trans-1,3-Dichloropropene	ND	*	49.0	36.0	*	ug/Kg		73	55 - 131
Ethylbenzene	ND	*	49.0	54.1	*	ug/Kg		110	65 - 130
Hexachlorobutadiene	ND	F2 *	49.0	52.7	*	ug/Kg		108	58 - 132
2-Hexanone	ND	*	245	278	*	ug/Kg		113	44 - 150
Isopropylbenzene	ND	*	49.0	53.7	*	ug/Kg		110	65 - 130
4-Isopropyltoluene	31	F2 F1 *	49.0	140	F1 *	ug/Kg		224	69 - 134
Methylene Chloride	ND	F1 *	49.0	64.7	F1 *	ug/Kg		132	63 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 *	245	335	*	ug/Kg		137	51 - 140
Naphthalene	ND	F2 *	49.0	23.2	*	ug/Kg		47	45 - 146
N-Propylbenzene	ND	F1 *	49.0	86.8	F1 *	ug/Kg		177	70 - 130
Styrene	ND	*	49.0	38.9	*	ug/Kg		79	58 - 135

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

Lab Sample ID: 720-73997-8 MS
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 208050

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND	*	49.0	45.8	*	ug/Kg		93	64 - 133
1,1,2,2-Tetrachloroethane	ND	F1 *	49.0	64.4	*	ug/Kg		131	70 - 131
Tetrachloroethene	ND	*	49.0	35.7	*	ug/Kg		73	67 - 130
Toluene	ND	*	49.0	61.5	*	ug/Kg		122	70 - 130
1,2,3-Trichlorobenzene	ND	F1 *	49.0	24.6	F1 *	ug/Kg		50	58 - 138
1,2,4-Trichlorobenzene	ND	*	49.0	27.7	*	ug/Kg		57	49 - 144
1,1,1-Trichloroethane	ND	*	49.0	55.1	*	ug/Kg		112	57 - 133
1,1,2-Trichloroethane	ND	*	49.0	39.7	*	ug/Kg		81	68 - 132
Trichloroethene	ND	*	49.0	41.5	*	ug/Kg		85	66 - 130
Trichlorofluoromethane	ND	*	49.0	62.2	*	ug/Kg		127	61 - 130
1,2,3-Trichloropropane	ND	F1 *	49.0	78.8	F1 *	ug/Kg		161	62 - 150
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	49.0	46.3	*	ug/Kg		94	52 - 130
1,2,4-Trimethylbenzene	ND	*	49.0	65.5	*	ug/Kg		134	64 - 140
1,3,5-Trimethylbenzene	ND	F1 *	49.0	74.8	F1 *	ug/Kg		153	67 - 134
Vinyl acetate	ND	F1 *	49.0	ND	F1 *	ug/Kg		0	52 - 150
Vinyl chloride	ND	F1 *	49.0	68.1	F1 *	ug/Kg		139	62 - 130
2,2-Dichloropropane	ND	*	49.0	63.7	*	ug/Kg		130	63 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*82*	*	*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*113*	*	*60 - 140*
Toluene-d8 (Surr)	*80*	*	*58 - 140*

Lab Sample ID: 720-73997-8 MSD
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 208050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND	F1 *	49.1	74.4	F1 *	ug/Kg		152	69 - 130	2	20
Acetone	100	F2 F1 *	246	1230	F1 * F2	ug/Kg		460	37 - 150	24	20
Benzene	ND	*	49.1	49.3	*	ug/Kg		100	70 - 130	1	20
Dichlorobromomethane	ND	F2 *	49.1	54.3	* F2	ug/Kg		111	64 - 135	24	20
Bromobenzene	ND	*	49.1	55.0	*	ug/Kg		112	70 - 130	1	20
Chlorobromomethane	ND	*	49.1	51.7	*	ug/Kg		105	65 - 130	3	20
Bromoform	ND	*	49.1	42.1	*	ug/Kg		86	58 - 132	12	20
Bromomethane	ND	*	49.1	46.5	*	ug/Kg		95	56 - 130	7	20
2-Butanone (MEK)	ND	*	246	324	*	ug/Kg		132	41 - 150	8	20
n-Butylbenzene	ND	F2 F1 *	49.1	57.2	* F2	ug/Kg		116	60 - 145	25	20
sec-Butylbenzene	ND	F2 F1 *	49.1	67.4	* F2	ug/Kg		137	64 - 137	24	20
tert-Butylbenzene	ND	F2 F1 *	49.1	66.4	F1 * F2	ug/Kg		135	63 - 134	22	20
Carbon disulfide	5.1	*	49.1	52.8	*	ug/Kg		97	10 - 150	13	20
Carbon tetrachloride	ND	*	49.1	50.9	*	ug/Kg		104	54 - 130	7	20
Chlorobenzene	ND	*	49.1	44.2	*	ug/Kg		90	70 - 130	5	20
Chloroethane	ND	F1 *	49.1	64.0	*	ug/Kg		130	61 - 130	10	20
Chloroform	ND	*	49.1	51.3	*	ug/Kg		104	67 - 130	0	20
Chloromethane	ND	F1 *	49.1	71.1	F1 *	ug/Kg		145	50 - 131	14	20
2-Chlorotoluene	ND	F1 *	49.1	63.1	*	ug/Kg		128	70 - 130	11	20

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

Lab Sample ID: 720-73997-8 MSD
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 208050

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorotoluene	ND	F1 *	49.1	58.9	*	ug/Kg		120	70 - 130	9	20
Chlorodibromomethane	ND	*	49.1	36.0	*	ug/Kg		73	60 - 141	15	20
1,2-Dichlorobenzene	ND	*	49.1	42.7	*	ug/Kg		87	70 - 130	0	20
1,3-Dichlorobenzene	ND	*	49.1	46.3	*	ug/Kg		94	70 - 130	6	20
1,4-Dichlorobenzene	ND	*	49.1	45.0	*	ug/Kg		92	70 - 130	3	20
1,3-Dichloropropane	ND	*	49.1	44.7	*	ug/Kg		91	70 - 130	11	20
1,1-Dichloropropene	ND	*	49.1	46.3	*	ug/Kg		94	67 - 130	7	20
1,2-Dibromo-3-Chloropropane	ND	*	49.1	56.4	*	ug/Kg		115	57 - 130	20	20
Ethylene Dibromide	ND	*	49.1	42.3	*	ug/Kg		86	66 - 135	15	20
Dibromomethane	ND	*	49.1	49.0	*	ug/Kg		100	65 - 131	4	20
Dichlorodifluoromethane	ND	F1 *	49.1	58.5	*	ug/Kg		119	38 - 130	13	20
1,1-Dichloroethane	ND	*	49.1	57.2	*	ug/Kg		116	67 - 130	4	20
1,2-Dichloroethane	ND	*	49.1	58.3	*	ug/Kg		119	70 - 130	2	20
1,1-Dichloroethene	ND	*	49.1	49.9	*	ug/Kg		102	64 - 130	9	20
cis-1,2-Dichloroethene	ND	*	49.1	55.4	*	ug/Kg		113	68 - 131	4	20
trans-1,2-Dichloroethene	ND	*	49.1	53.9	*	ug/Kg		110	70 - 130	5	20
1,2-Dichloropropane	ND	*	49.1	50.7	*	ug/Kg		103	65 - 133	3	20
cis-1,3-Dichloropropene	ND	*	49.1	41.6	*	ug/Kg		85	46 - 139	7	20
trans-1,3-Dichloropropene	ND	*	49.1	40.7	*	ug/Kg		83	55 - 131	12	20
Ethylbenzene	ND	*	49.1	48.4	*	ug/Kg		99	65 - 130	11	20
Hexachlorobutadiene	ND	F2 *	49.1	40.3	* F2	ug/Kg		82	58 - 132	27	20
2-Hexanone	ND	*	246	299	*	ug/Kg		122	44 - 150	7	20
Isopropylbenzene	ND	*	49.1	46.6	*	ug/Kg		95	65 - 130	14	20
4-Isopropyltoluene	31	F2 F1 *	49.1	82.1	* F2	ug/Kg		105	69 - 134	52	20
Methylene Chloride	ND	F1 *	49.1	60.3	*	ug/Kg		123	63 - 130	7	20
4-Methyl-2-pentanone (MIBK)	ND	F1 *	246	362	F1 *	ug/Kg		147	51 - 140	8	20
Naphthalene	ND	F2 *	49.1	30.1	* F2	ug/Kg		61	45 - 146	26	20
N-Propylbenzene	ND	F1 *	49.1	71.8	F1 *	ug/Kg		146	70 - 130	19	20
Styrene	ND	*	49.1	40.5	*	ug/Kg		83	58 - 135	4	20
1,1,1,2-Tetrachloroethane	ND	*	49.1	45.7	*	ug/Kg		93	64 - 133	0	20
1,1,2,2-Tetrachloroethane	ND	F1 *	49.1	70.9	F1 *	ug/Kg		144	70 - 131	10	20
Tetrachloroethene	ND	*	49.1	34.8	*	ug/Kg		71	67 - 130	3	20
Toluene	ND	*	49.1	55.4	*	ug/Kg		109	70 - 130	10	20
1,2,3-Trichlorobenzene	ND	F1 *	49.1	23.2	* F1	ug/Kg		47	58 - 138	6	20
1,2,4-Trichlorobenzene	ND	*	49.1	25.4	*	ug/Kg		52	49 - 144	9	20
1,1,1-Trichloroethane	ND	*	49.1	51.4	*	ug/Kg		105	57 - 133	7	20
1,1,2-Trichloroethane	ND	*	49.1	44.8	*	ug/Kg		91	68 - 132	12	20
Trichloroethene	ND	*	49.1	41.0	*	ug/Kg		83	66 - 130	1	20
Trichlorofluoromethane	ND	*	49.1	60.3	*	ug/Kg		123	61 - 130	3	20
1,2,3-Trichloropropane	ND	F1 *	49.1	83.9	F1 *	ug/Kg		171	62 - 150	6	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND	*	49.1	42.5	*	ug/Kg		87	52 - 130	8	20
1,2,4-Trimethylbenzene	ND	*	49.1	58.4	*	ug/Kg		119	64 - 140	11	20
1,3,5-Trimethylbenzene	ND	F1 *	49.1	63.1	*	ug/Kg		128	67 - 134	17	20
Vinyl acetate	ND	F1 *	49.1	ND	* F1	ug/Kg		0	52 - 150	NC	20
Vinyl chloride	ND	F1 *	49.1	59.6	*	ug/Kg		121	62 - 130	13	20
2,2-Dichloropropane	ND	*	49.1	60.2	*	ug/Kg		123	63 - 130	6	20

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

Lab Sample ID: 720-73997-8 MSD
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 208050

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*89*	*	*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*118*	*	*60 - 140*
Toluene-d8 (Surr)	*86*	*	*58 - 140*

Lab Sample ID: MB 720-208282/4
Matrix: Solid
Analysis Batch: 208282

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/25/16 19:23	1
Acetone	ND		50		ug/Kg			08/25/16 19:23	1
Benzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Bromobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorobromomethane	ND		20		ug/Kg			08/25/16 19:23	1
Bromoform	ND		5.0		ug/Kg			08/25/16 19:23	1
Bromomethane	ND		10		ug/Kg			08/25/16 19:23	1
2-Butanone (MEK)	ND		50		ug/Kg			08/25/16 19:23	1
n-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Carbon disulfide	ND		5.0		ug/Kg			08/25/16 19:23	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chloroethane	ND		10		ug/Kg			08/25/16 19:23	1
Chloroform	ND		5.0		ug/Kg			08/25/16 19:23	1
Chloromethane	ND		10		ug/Kg			08/25/16 19:23	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			08/25/16 19:23	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/25/16 19:23	1
Dibromomethane	ND		10		ug/Kg			08/25/16 19:23	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/25/16 19:23	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
Ethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1

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

Lab Sample ID: MB 720-208282/4
Matrix: Solid
Analysis Batch: 208282

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		5.0		ug/Kg			08/25/16 19:23	1
2-Hexanone	ND		50		ug/Kg			08/25/16 19:23	1
Isopropylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
Methylene Chloride	ND		10		ug/Kg			08/25/16 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/25/16 19:23	1
Naphthalene	ND		10		ug/Kg			08/25/16 19:23	1
N-Propylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Styrene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Tetrachloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
Toluene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Trichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Vinyl acetate	ND		20		ug/Kg			08/25/16 19:23	1
Vinyl chloride	ND		5.0		ug/Kg			08/25/16 19:23	1
Xylenes, Total	ND		10		ug/Kg			08/25/16 19:23	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*		*08/25/16 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*08/25/16 19:23*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*08/25/16 19:23*	*1*

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	60.4		ug/Kg		121	70 - 144
Acetone	250	239		ug/Kg		95	30 - 162
Benzene	50.0	55.4		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	57.0		ug/Kg		114	70 - 140
Bromobenzene	50.0	52.4		ug/Kg		105	70 - 130
Chlorobromomethane	50.0	52.0		ug/Kg		104	70 - 130
Bromoform	50.0	53.3		ug/Kg		107	59 - 158
Bromomethane	50.0	49.4		ug/Kg		99	59 - 132
2-Butanone (MEK)	250	241		ug/Kg		97	53 - 133
n-Butylbenzene	50.0	55.6		ug/Kg		111	70 - 142

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

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	50.0	55.8		ug/Kg		112	70 - 136
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 130
Carbon disulfide	50.0	54.0		ug/Kg		108	60 - 140
Carbon tetrachloride	50.0	62.3		ug/Kg		125	70 - 142
Chlorobenzene	50.0	51.0		ug/Kg		102	70 - 130
Chloroethane	50.0	53.5		ug/Kg		107	65 - 130
Chloroform	50.0	54.2		ug/Kg		108	77 - 127
Chloromethane	50.0	57.6		ug/Kg		115	55 - 140
2-Chlorotoluene	50.0	56.4		ug/Kg		113	70 - 138
4-Chlorotoluene	50.0	56.1		ug/Kg		112	70 - 136
Chlorodibromomethane	50.0	54.1		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	54.4		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	55.4		ug/Kg		111	70 - 140
Dibromomethane	50.0	55.9		ug/Kg		112	70 - 139
Dichlorodifluoromethane	50.0	53.3		ug/Kg		107	37 - 158
1,1-Dichloroethane	50.0	55.9		ug/Kg		112	70 - 130
1,2-Dichloroethane	50.0	57.6		ug/Kg		115	70 - 130
1,1-Dichloroethene	50.0	49.5		ug/Kg		99	74 - 122
cis-1,2-Dichloroethene	50.0	57.5		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	54.4		ug/Kg		109	67 - 130
1,2-Dichloropropane	50.0	58.3		ug/Kg		117	73 - 127
cis-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	70 - 155
Ethylbenzene	50.0	53.0		ug/Kg		106	80 - 137
Hexachlorobutadiene	50.0	48.7		ug/Kg		97	70 - 132
2-Hexanone	250	283		ug/Kg		113	44 - 133
Isopropylbenzene	50.0	53.5		ug/Kg		107	70 - 130
4-Isopropyltoluene	50.0	53.5		ug/Kg		107	70 - 133
Methylene Chloride	50.0	54.7		ug/Kg		109	70 - 134
4-Methyl-2-pentanone (MIBK)	250	289		ug/Kg		115	60 - 160
Naphthalene	50.0	53.5		ug/Kg		107	60 - 147
N-Propylbenzene	50.0	58.1		ug/Kg		116	70 - 130
Styrene	50.0	52.4		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	58.0		ug/Kg		116	70 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132
Toluene	50.0	52.2		ug/Kg		104	75 - 120
1,2,3-Trichlorobenzene	50.0	49.2		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	50.3		ug/Kg		101	60 - 140
1,1,1-Trichloroethane	50.0	60.2		ug/Kg		120	70 - 130
1,1,2-Trichloroethane	50.0	56.4		ug/Kg		113	70 - 130
Trichloroethene	50.0	50.9		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	57.0		ug/Kg		114	60 - 140

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

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	50.0	58.4		ug/Kg		117	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	55.1		ug/Kg		110	70 - 130
1,3,5-Trimethylbenzene	50.0	55.8		ug/Kg		112	70 - 131
Vinyl acetate	50.0	78.4		ug/Kg		157	38 - 176
Vinyl chloride	50.0	49.0		ug/Kg		98	58 - 125
2,2-Dichloropropane	50.0	69.5		ug/Kg		139	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-208282/6
Matrix: Solid
Analysis Batch: 208282

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	55.2		ug/Kg		110	70 - 144	9	20
Acetone	250	220		ug/Kg		88	30 - 162	8	30
Benzene	50.0	52.3		ug/Kg		105	70 - 130	6	20
Dichlorobromomethane	50.0	53.5		ug/Kg		107	70 - 140	6	20
Bromobenzene	50.0	49.5		ug/Kg		99	70 - 130	6	20
Chlorobromomethane	50.0	48.4		ug/Kg		97	70 - 130	7	20
Bromoform	50.0	49.5		ug/Kg		99	59 - 158	7	20
Bromomethane	50.0	45.9		ug/Kg		92	59 - 132	7	20
2-Butanone (MEK)	250	212		ug/Kg		85	53 - 133	13	20
n-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 142	3	20
sec-Butylbenzene	50.0	53.7		ug/Kg		107	70 - 136	4	20
tert-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 130	3	20
Carbon disulfide	50.0	51.2		ug/Kg		102	60 - 140	5	20
Carbon tetrachloride	50.0	59.6		ug/Kg		119	70 - 142	5	20
Chlorobenzene	50.0	48.8		ug/Kg		98	70 - 130	4	20
Chloroethane	50.0	49.7		ug/Kg		99	65 - 130	7	20
Chloroform	50.0	51.0		ug/Kg		102	77 - 127	6	20
Chloromethane	50.0	53.7		ug/Kg		107	55 - 140	7	20
2-Chlorotoluene	50.0	54.3		ug/Kg		109	70 - 138	4	20
4-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 136	4	20
Chlorodibromomethane	50.0	50.0		ug/Kg		100	70 - 146	8	20
1,2-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 130	4	20
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131	4	20
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 130	4	20
1,3-Dichloropropane	50.0	50.1		ug/Kg		100	70 - 140	8	20
1,1-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	60 - 145	9	20
Ethylene Dibromide	50.0	51.3		ug/Kg		103	70 - 140	8	20
Dibromomethane	50.0	51.3		ug/Kg		103	70 - 139	9	20

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

Lab Sample ID: LCSD 720-208282/6
Matrix: Solid
Analysis Batch: 208282

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			50.0	48.2		ug/Kg		96	37 - 158	10	20
1,1-Dichloroethane			50.0	53.1		ug/Kg		106	70 - 130	5	20
1,2-Dichloroethane			50.0	53.0		ug/Kg		106	70 - 130	8	20
1,1-Dichloroethene			50.0	46.8		ug/Kg		94	74 - 122	6	20
cis-1,2-Dichloroethene			50.0	53.8		ug/Kg		108	70 - 138	7	20
trans-1,2-Dichloroethene			50.0	51.5		ug/Kg		103	67 - 130	5	20
1,2-Dichloropropane			50.0	55.2		ug/Kg		110	73 - 127	5	20
cis-1,3-Dichloropropene			50.0	54.0		ug/Kg		108	68 - 147	8	20
trans-1,3-Dichloropropene			50.0	52.7		ug/Kg		105	70 - 155	8	20
Ethylbenzene			50.0	51.3		ug/Kg		103	80 - 137	3	20
Hexachlorobutadiene			50.0	47.6		ug/Kg		95	70 - 132	2	20
2-Hexanone			250	247		ug/Kg		99	44 - 133	14	20
Isopropylbenzene			50.0	52.0		ug/Kg		104	70 - 130	3	20
4-Isopropyltoluene			50.0	51.9		ug/Kg		104	70 - 133	3	20
Methylene Chloride			50.0	51.5		ug/Kg		103	70 - 134	6	20
4-Methyl-2-pentanone (MIBK)			250	257		ug/Kg		103	60 - 160	12	20
Naphthalene			50.0	50.6		ug/Kg		101	60 - 147	6	20
N-Propylbenzene			50.0	56.0		ug/Kg		112	70 - 130	4	20
Styrene			50.0	50.3		ug/Kg		101	70 - 130	4	20
1,1,1,2-Tetrachloroethane			50.0	49.9		ug/Kg		100	70 - 130	4	20
1,1,2,2-Tetrachloroethane			50.0	52.9		ug/Kg		106	70 - 146	9	20
Tetrachloroethene			50.0	47.3		ug/Kg		95	70 - 132	5	20
Toluene			50.0	50.5		ug/Kg		101	75 - 120	3	20
1,2,3-Trichlorobenzene			50.0	47.4		ug/Kg		95	60 - 140	4	20
1,2,4-Trichlorobenzene			50.0	48.5		ug/Kg		97	60 - 140	3	20
1,1,1-Trichloroethane			50.0	57.1		ug/Kg		114	70 - 130	5	20
1,1,2-Trichloroethane			50.0	51.7		ug/Kg		103	70 - 130	9	20
Trichloroethene			50.0	48.1		ug/Kg		96	70 - 133	6	20
Trichlorofluoromethane			50.0	53.6		ug/Kg		107	60 - 140	6	20
1,2,3-Trichloropropane			50.0	52.7		ug/Kg		105	70 - 146	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.4		ug/Kg		95	60 - 140	5	20
1,2,4-Trimethylbenzene			50.0	53.2		ug/Kg		106	70 - 130	4	20
1,3,5-Trimethylbenzene			50.0	53.7		ug/Kg		107	70 - 131	4	20
Vinyl acetate			50.0	70.9		ug/Kg		142	38 - 176	10	20
Vinyl chloride			50.0	46.2		ug/Kg		92	58 - 125	6	20
2,2-Dichloropropane			50.0	66.3		ug/Kg		133	70 - 162	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-208408/1-A
Matrix: Solid
Analysis Batch: 208520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Phenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Chlorophenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzyl alcohol	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Methylphenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Hexachloroethane	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Nitrobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Isophorone	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Nitrophenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Naphthalene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Chloroaniline	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Hexachlorobutadiene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Methylnaphthalene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Chloronaphthalene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Nitroaniline	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Dimethyl phthalate	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Acenaphthylene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
3-Nitroaniline	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Acenaphthene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Nitrophenol	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Dibenzofuran	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Diethyl phthalate	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Fluorene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Nitroaniline	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Hexachlorobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Pentachlorophenol	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Phenanthrene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Anthracene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-208408/1-A
Matrix: Solid
Analysis Batch: 208520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Fluoranthene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Pyrene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzo[a]anthracene	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Chrysene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzo[a]pyrene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Benzoic acid	ND		0.33		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Azobenzene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		08/29/16 11:20	08/30/16 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*89*		*21 - 98*	*08/29/16 11:20*	*08/30/16 19:51*	*1*
2-Fluorobiphenyl	*94*		*30 - 112*	*08/29/16 11:20*	*08/30/16 19:51*	*1*
Terphenyl-d14	*101*		*59 - 134*	*08/29/16 11:20*	*08/30/16 19:51*	*1*
2-Fluorophenol	*95*		*28 - 98*	*08/29/16 11:20*	*08/30/16 19:51*	*1*
Phenol-d5	*94*		*23 - 101*	*08/29/16 11:20*	*08/30/16 19:51*	*1*
2,4,6-Tribromophenol	*107*		*37 - 114*	*08/29/16 11:20*	*08/30/16 19:51*	*1*

Lab Sample ID: LCS 720-208408/2-A
Matrix: Solid
Analysis Batch: 208520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	1.33	1.07		mg/Kg		81	45 - 115
Phenol	1.33	1.15		mg/Kg		86	48 - 115
2-Chlorophenol	1.33	1.17		mg/Kg		88	48 - 115
1,3-Dichlorobenzene	1.33	1.03		mg/Kg		77	41 - 115
1,4-Dichlorobenzene	1.33	1.04		mg/Kg		78	40 - 115
Benzyl alcohol	1.33	1.18		mg/Kg		88	51 - 115
1,2-Dichlorobenzene	1.33	1.05		mg/Kg		79	44 - 115
2-Methylphenol	1.33	1.18		mg/Kg		88	54 - 115
Methylphenol, 3 & 4	1.33	1.15		mg/Kg		86	42 - 115
N-Nitrosodi-n-propylamine	1.33	1.08		mg/Kg		81	46 - 115
Hexachloroethane	1.33	1.01		mg/Kg		76	44 - 115
Nitrobenzene	1.33	1.12		mg/Kg		84	48 - 115
Isophorone	1.33	1.14		mg/Kg		85	54 - 115
2-Nitrophenol	1.33	1.19		mg/Kg		89	48 - 115
2,4-Dimethylphenol	1.33	1.22		mg/Kg		91	52 - 115
Bis(2-chloroethoxy)methane	1.33	1.11		mg/Kg		84	46 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-208408/2-A
Matrix: Solid
Analysis Batch: 208520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	1.33	1.22		mg/Kg		92	49 - 100
1,2,4-Trichlorobenzene	1.33	1.10		mg/Kg		83	47 - 115
Naphthalene	1.33	1.11		mg/Kg		84	44 - 115
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 115
Hexachlorobutadiene	1.33	1.09		mg/Kg		81	44 - 115
4-Chloro-3-methylphenol	1.33	1.24		mg/Kg		93	58 - 115
2-Methylnaphthalene	1.33	1.15		mg/Kg		86	49 - 115
Hexachlorocyclopentadiene	1.33	0.826		mg/Kg		62	42 - 132
2,4,6-Trichlorophenol	1.33	1.25		mg/Kg		93	45 - 115
2,4,5-Trichlorophenol	1.33	1.24		mg/Kg		93	48 - 115
2-Chloronaphthalene	1.33	1.17		mg/Kg		88	52 - 115
2-Nitroaniline	1.33	1.29		mg/Kg		97	54 - 115
Dimethyl phthalate	1.33	1.22		mg/Kg		91	64 - 119
Acenaphthylene	1.33	1.20		mg/Kg		90	61 - 129
3-Nitroaniline	1.33	1.14		mg/Kg		86	50 - 115
Acenaphthene	1.33	1.18		mg/Kg		89	50 - 115
2,4-Dinitrophenol	2.67	2.22		mg/Kg		83	15 - 115
4-Nitrophenol	2.67	2.54		mg/Kg		95	54 - 125
Dibenzofuran	1.33	1.21		mg/Kg		91	55 - 115
2,4-Dinitrotoluene	1.33	1.29		mg/Kg		97	57 - 115
2,6-Dinitrotoluene	1.33	1.23		mg/Kg		92	54 - 119
Diethyl phthalate	1.33	1.26		mg/Kg		94	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.19		mg/Kg		89	57 - 115
Fluorene	1.33	1.21		mg/Kg		91	54 - 115
4-Nitroaniline	1.33	1.20		mg/Kg		90	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.40		mg/Kg		90	39 - 115
N-Nitrosodiphenylamine	1.33	1.22		mg/Kg		92	56 - 115
4-Bromophenyl phenyl ether	1.33	1.21		mg/Kg		91	53 - 115
Hexachlorobenzene	1.33	1.21		mg/Kg		91	55 - 115
Pentachlorophenol	2.67	2.30		mg/Kg		86	35 - 115
Phenanthrene	1.33	1.24		mg/Kg		93	54 - 115
Anthracene	1.33	1.27		mg/Kg		95	55 - 115
Di-n-butyl phthalate	1.33	1.29		mg/Kg		97	55 - 115
Fluoranthene	1.33	1.27		mg/Kg		95	52 - 130
Pyrene	1.33	1.35		mg/Kg		101	48 - 115
Butyl benzyl phthalate	1.33	1.37		mg/Kg		103	53 - 115
3,3'-Dichlorobenzidine	1.33	1.25		mg/Kg		94	42 - 115
Benzo[a]anthracene	1.33	1.26		mg/Kg		95	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.35		mg/Kg		102	53 - 115
Chrysene	1.33	1.27		mg/Kg		95	58 - 115
Di-n-octyl phthalate	1.33	1.31		mg/Kg		98	53 - 115
Benzo[b]fluoranthene	1.33	1.30		mg/Kg		98	50 - 119
Benzo[a]pyrene	1.33	1.32		mg/Kg		99	57 - 122
Benzo[k]fluoranthene	1.33	1.29		mg/Kg		97	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.27		mg/Kg		95	56 - 115
Benzo[g,h,i]perylene	1.33	1.25		mg/Kg		94	56 - 115
Benzoic acid	1.33	1.17		mg/Kg		88	10 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-208408/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208520 — **Prep Batch: 208408**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Azobenzene			1.33	1.18		mg/Kg		88	52 - 115		
Dibenz(a,h)anthracene			1.33	1.29		mg/Kg		97	57 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*86*		*21 - 98*
2-Fluorobiphenyl	*91*		*30 - 112*
Terphenyl-d14	*104*		*59 - 134*
2-Fluorophenol	*93*		*28 - 98*
Phenol-d5	*94*		*23 - 101*
2,4,6-Tribromophenol	*105*		*37 - 114*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-352753/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352875 — **Prep Batch: 352753**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mirex	ND		10		ug/Kg		08/30/16 15:37	08/31/16 18:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 115*	*08/30/16 15:37*	*08/31/16 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*08/30/16 15:37*	*08/31/16 18:49*	*1*

Lab Sample ID: LCS 440-352753/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 352875 — **Prep Batch: 352753**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mirex			13.3	11.6		ug/Kg		87	10 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-208361/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208384 — **Prep Batch: 208361**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1
PCB-1221	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1
PCB-1232	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1
PCB-1242	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-208361/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208384 — **Prep Batch: 208361**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1
PCB-1254	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1
PCB-1260	ND		50		ug/Kg		08/27/16 08:08	08/29/16 00:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*45 - 132*	*08/27/16 08:08*	*08/29/16 00:59*	*1*
DCB Decachlorobiphenyl	*93*		*42 - 146*	*08/27/16 08:08*	*08/29/16 00:59*	*1*

Lab Sample ID: LCS 720-208361/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208384 — **Prep Batch: 208361**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	133	116		ug/Kg		87	65 - 121
PCB-1260	133	117		ug/Kg		88	68 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*45 - 132*
DCB Decachlorobiphenyl	*84*		*42 - 146*

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 180-186530/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 186671 — **Prep Batch: 186530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Bolstar	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Chlorpyrifos	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Coumaphos	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Demeton, Total	ND		66		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Demeton-O	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Demeton-S	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Diazinon	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Dichlorvos	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Dimethoate	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Disulfoton	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
EPN	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Famphur	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Fensulfothion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Fenthion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Malathion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Methyl parathion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Mevinphos	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
O,O,O-Triethyl phosphorothioate	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Parathion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 180-186530/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 186671 — **Prep Batch: 186530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Ronnel	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Stirophos	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Sulfotepp	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Tokuthion	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Trichloronate	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Mocap	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1
Thionazin	ND		33		ug/Kg		08/31/16 03:30	09/01/16 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*91*		*45 - 150*	*08/31/16 03:30*	*09/01/16 11:52*	*1*
Tributyl phosphate	*83*		*28 - 150*	*08/31/16 03:30*	*09/01/16 11:52*	*1*

Lab Sample ID: LCS 180-186530/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 186671 — **Prep Batch: 186530**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Azinphos-methyl	333	277		ug/Kg		83	55 - 147
Bolstar	333	306		ug/Kg		92	79 - 132
Chlorpyrifos	333	313		ug/Kg		94	80 - 134
Coumaphos	333	306		ug/Kg		92	64 - 144
Demeton, Total	333	306		ug/Kg		92	27 - 150
Demeton-O	93.3	84.8		ug/Kg		91	
Demeton-S	240	221		ug/Kg		92	
Diazinon	333	311		ug/Kg		93	79 - 130
Dichlorvos	333	287		ug/Kg		86	48 - 136
Dimethoate	333	286		ug/Kg		86	36 - 150
Disulfoton	333	299		ug/Kg		90	66 - 142
EPN	333	307		ug/Kg		92	41 - 150
Famphur	333	306		ug/Kg		92	62 - 150
Fensulfothion	333	264		ug/Kg		79	31 - 150
Fenthion	333	316		ug/Kg		95	78 - 133
Malathion	333	316		ug/Kg		95	59 - 150
Methyl parathion	333	300		ug/Kg		90	66 - 141
Mevinphos	333	284		ug/Kg		85	35 - 130
O,O,O-Triethyl phosphorothioate	333	298		ug/Kg		90	52 - 150
Parathion	333	313		ug/Kg		94	54 - 150
Phorate	333	301		ug/Kg		90	75 - 129
Ronnel	333	311		ug/Kg		93	78 - 137
Stirophos	333	291		ug/Kg		87	72 - 140
Sulfotepp	333	314		ug/Kg		94	59 - 150
Tokuthion	333	307		ug/Kg		92	78 - 129
Trichloronate	333	315		ug/Kg		94	79 - 133
Mocap	333	291		ug/Kg		87	75 - 129
Thionazin	333	304		ug/Kg		91	57 - 150

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-186530/2-A
Matrix: Solid
Analysis Batch: 186671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 186530

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*102*		*45 - 150*
Tributyl phosphate	*102*		*28 - 150*

Lab Sample ID: 720-73997-8 MS
Matrix: Solid
Analysis Batch: 186671

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 186530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Azinphos-methyl	ND		331	ND		ug/Kg		78	55 - 147
Bolstar	ND		331	ND		ug/Kg		83	79 - 132
Chlorpyrifos	ND		331	ND		ug/Kg		87	80 - 134
Coumaphos	ND		331	ND		ug/Kg		86	64 - 144
Demeton, Total	ND	F1	331	ND	F1	ug/Kg		0	27 - 150
Demeton-O	ND		92.7	ND		ug/Kg		88	
Demeton-S	ND		238	ND		ug/Kg		87	
Diazinon	ND		331	ND		ug/Kg		85	79 - 130
Dichlorvos	ND		331	348		ug/Kg		105	48 - 136
Dimethoate	ND		331	ND		ug/Kg		73	36 - 150
Disulfoton	ND	F1 F2	331	ND		ug/Kg		85	66 - 142
EPN	ND		331	ND		ug/Kg		90	41 - 150
Famphur	ND		331	ND		ug/Kg		94	62 - 150
Fensulfothion	ND		331	ND		ug/Kg		79	31 - 150
Fenthion	ND		331	ND		ug/Kg		84	78 - 133
Malathion	ND		331	ND		ug/Kg		84	59 - 150
Methyl parathion	ND		331	ND		ug/Kg		83	66 - 141
Mevinphos	ND		331	ND		ug/Kg		78	35 - 130
O,O,O-Triethyl phosphorothioate	ND		331	ND		ug/Kg		80	52 - 150
Parathion	ND		331	ND		ug/Kg		91	54 - 150
Phorate	ND		331	ND		ug/Kg		86	75 - 129
Ronnel	ND		331	ND		ug/Kg		84	78 - 137
Stirophos	ND		331	ND		ug/Kg		81	72 - 140
Sulfotepp	ND		331	ND		ug/Kg		87	59 - 150
Tokuthion	ND		331	ND		ug/Kg		83	78 - 129
Trichloronate	ND		331	ND		ug/Kg		86	79 - 133
Mocap	ND		331	ND		ug/Kg		82	75 - 129
Thionazin	ND		331	ND		ug/Kg		85	57 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Triphenylphosphate	*130*		*45 - 150*
Tributyl phosphate	*97*		*28 - 150*

Lab Sample ID: 720-73997-8 MSD
Matrix: Solid
Analysis Batch: 186671

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 186530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Azinphos-methyl	ND		329	ND		ug/Kg		81	55 - 147	4	17
Bolstar	ND		329	ND		ug/Kg		87	79 - 132	4	15

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: 720-73997-8 MSD
Matrix: Solid
Analysis Batch: 186671

Client Sample ID: SLUDGE BED#14 W
Prep Type: Total/NA
Prep Batch: 186530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorpyrifos	ND		329	ND		ug/Kg		91	80 - 134	4	15
Coumaphos	ND		329	ND		ug/Kg		90	64 - 144	5	24
Demeton, Total	ND	F1	329	ND	F1	ug/Kg		0	27 - 150	NC	15
Demeton-O	ND		92.1	ND		ug/Kg		92		3	
Demeton-S	ND		237	ND		ug/Kg		89		2	
Diazinon	ND		329	ND		ug/Kg		89	79 - 130	4	15
Dichlorvos	ND		329	361		ug/Kg		110	48 - 136	4	15
Dimethoate	ND		329	ND		ug/Kg		74	36 - 150	1	15
Disulfoton	ND	F1 F2	329	ND		ug/Kg		87	66 - 142	3	15
EPN	ND		329	ND		ug/Kg		93	41 - 150	3	16
Famphur	ND		329	ND		ug/Kg		94	62 - 150	0	15
Fensulfothion	ND		329	ND		ug/Kg		80	31 - 150	1	15
Fenthion	ND		329	ND		ug/Kg		87	78 - 133	3	15
Malathion	ND		329	ND		ug/Kg		87	59 - 150	3	15
Methyl parathion	ND		329	ND		ug/Kg		86	66 - 141	3	15
Mevinphos	ND		329	ND		ug/Kg		86	35 - 130	9	15
O,O,O-Triethyl phosphorothioate	ND		329	ND		ug/Kg		84	52 - 150	5	15
Parathion	ND		329	ND		ug/Kg		93	54 - 150	2	15
Phorate	ND		329	ND		ug/Kg		88	75 - 129	2	15
Ronnel	ND		329	ND		ug/Kg		88	78 - 137	3	15
Stirophos	ND		329	ND		ug/Kg		81	72 - 140	1	15
Sulfotepp	ND		329	ND		ug/Kg		90	59 - 150	2	15
Tokuthion	ND		329	ND		ug/Kg		82	78 - 129	1	15
Trichloronate	ND		329	ND		ug/Kg		89	79 - 133	2	15
Mocap	ND		329	ND		ug/Kg		85	75 - 129	3	15
Thionazin	ND		329	ND		ug/Kg		88	57 - 150	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Triphenylphosphate	*130*		*45 - 150*
Tributyl phosphate	*92*		*28 - 150*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-185780/1-A
Matrix: Solid
Analysis Batch: 186145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 185780

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		20		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
2,4-D	ND		80		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Silvex (2,4,5-TP)	ND		20		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Dalapon	ND		90		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
2,4-DB	ND		80		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Dicamba	ND		40		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Dichlorprop	ND		80		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Dinoseb	ND		12		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
MCPA	ND		8000		ug/Kg		08/23/16 12:47	08/26/16 12:39	20
Pentachlorophenol	ND		11		ug/Kg		08/23/16 12:47	08/26/16 12:39	20

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 180-185780/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 186145 — **Prep Batch: 185780**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MCPP	ND		8000		ug/Kg		08/23/16 12:47	08/26/16 12:39	20

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*39*		*19 - 122*	*08/23/16 12:47*	*08/26/16 12:39*	*20*

Lab Sample ID: LCS 180-185780/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 186145 — **Prep Batch: 185780**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	100	54.1		ug/Kg		54	15 - 114
2,4-D	400	129	p	ug/Kg		32	10 - 103
Silvex (2,4,5-TP)	100	62.2		ug/Kg		62	27 - 126
Dalapon	400	174		ug/Kg		44	10 - 123
2,4-DB	400	208		ug/Kg		52	15 - 123
Dicamba	200	118		ug/Kg		59	24 - 130
Dichlorprop	400	226		ug/Kg		57	30 - 120
Dinoseb	400	103		ug/Kg		26	10 - 150
MCPA	40000	13600		ug/Kg		34	10 - 132
Pentachlorophenol	100	77.5		ug/Kg		77	38 - 135
MCPP	40000	10400	p	ug/Kg		26	10 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*56*		*19 - 122*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 720-207946/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		10		mg/Kg			08/19/16 19:14	1

Lab Sample ID: LCS 720-207946/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	100	102		mg/Kg		102	90 - 110

Lab Sample ID: 720-73997-8 MS — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207916

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	ND	F1 F2	99.0	43.6	F1	mg/Kg		44	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 720-73997-8 MSD — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207916

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	F1 F2	99.9	58.1	F1 F2	mg/Kg		58	80 - 120	29	20

Lab Sample ID: MB 720-207946/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		2.3		mg/Kg			08/19/16 19:14	1

Lab Sample ID: LCS 720-207946/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	22.6	21.8		mg/Kg		97	90 - 110

Lab Sample ID: 720-73997-8 MS — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	480	F2	22.4	508	4	mg/Kg		117	80 - 120

Lab Sample ID: 720-73997-8 MSD — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 207917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	480	F2	22.6	365	4 F2	mg/Kg		-515	80 - 120	33	20

Method: 20B - Sodium Adsorption Ratio

Lab Sample ID: MB 560-131305/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 131374 — **Prep Batch: 131305**

Analyte	MB Result	MB Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.000				NONE		08/26/16 10:11	08/30/16 16:59	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-208049/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208506 — **Prep Batch: 208049**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Arsenic	ND		1.0		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Barium	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-208049/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208506 — **Prep Batch: 208049**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.10		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Cadmium	ND		0.13		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Chromium	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Cobalt	ND		0.20		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Copper	ND		1.5		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Lead	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Molybdenum	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Nickel	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Selenium	ND		1.0		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Silver	ND		0.25		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Thallium	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Vanadium	ND		0.50		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Zinc	ND		1.5		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Sodium	ND		5.0		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
Calcium	ND		5.0		mg/Kg		08/22/16 18:49	08/30/16 13:26	1
B	ND		1.0		mg/Kg		08/22/16 18:49	08/30/16 13:26	1

Lab Sample ID: LCS 720-208049/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208506 — **Prep Batch: 208049**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	45.9		mg/Kg		92	80 - 120
Arsenic	50.0	46.5		mg/Kg		93	80 - 120
Barium	50.0	47.6		mg/Kg		95	80 - 120
Beryllium	50.0	47.0		mg/Kg		94	80 - 120
Cadmium	50.0	47.5		mg/Kg		95	80 - 120
Chromium	50.0	48.6		mg/Kg		97	80 - 120
Cobalt	50.0	48.2		mg/Kg		96	80 - 120
Copper	50.0	48.6		mg/Kg		97	80 - 120
Lead	50.0	47.7		mg/Kg		95	80 - 120
Molybdenum	50.0	48.1		mg/Kg		96	80 - 120
Nickel	50.0	47.8		mg/Kg		96	80 - 120
Selenium	50.0	42.4		mg/Kg		85	80 - 120
Silver	25.0	23.9		mg/Kg		95	80 - 120
Thallium	50.0	47.1		mg/Kg		94	80 - 120
Vanadium	50.0	48.4		mg/Kg		97	80 - 120
Zinc	50.0	46.9		mg/Kg		94	80 - 120
Sodium	500	499		mg/Kg		100	80 - 120
Calcium	500	503		mg/Kg		101	80 - 120
B	50.0	45.2		mg/Kg		90	80 - 120

Lab Sample ID: LCSSRM 720-208049/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208506 — **Prep Batch: 208049**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	40.4		mg/Kg		54	11 - 101
Arsenic	45.5	42.7		mg/Kg		94	69 - 119

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-208049/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208506 — **Prep Batch: 208049**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	579	540		mg/Kg		93	61 - 117
Beryllium	155	144		mg/Kg		93	56 - 102
Cadmium	201	186		mg/Kg		93	67 - 118
Chromium	106	99.6		mg/Kg		94	67 - 121
Cobalt	247	241		mg/Kg		98	64 - 133
Copper	130	131		mg/Kg		101	68 - 126
Lead	302	291		mg/Kg		96	62 - 113
Molybdenum	165	153		mg/Kg		93	62 - 128
Nickel	305	289		mg/Kg		95	65 - 117
Selenium	133	119		mg/Kg		90	63 - 126
Silver	33.5	32.6		mg/Kg		97	51 - 130
Thallium	191	191		mg/Kg		100	64 - 124
Vanadium	214	205		mg/Kg		96	67 - 123
Zinc	388	346		mg/Kg		89	62 - 110
Sodium	283	257		mg/Kg		91	69 - 127
Calcium	3240	3000		mg/Kg		93	69 - 105
B	133	119		mg/Kg		89	60 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-208046/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208496 — **Prep Batch: 208046**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/22/16 18:04	08/30/16 13:23	1

Lab Sample ID: LCS 720-208046/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208496 — **Prep Batch: 208046**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.748		mg/Kg		90	80 - 120

Method: 351.1 - Nitrogen, Total Nitrogen

Lab Sample ID: MB 500-349855/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350443 — **Prep Batch: 349855**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	ND		40		mg/L		08/31/16 12:45	09/02/16 11:19	1

Lab Sample ID: LCS 500-349855/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350443 — **Prep Batch: 349855**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	250	214		mg/L		86	80 - 120

Method: 420.1 - Phenolics, Total Recoverable

Lab Sample ID: MB 240-245710/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 245714 — **Prep Batch: 245710**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.99		mg/Kg		09/07/16 06:00	09/07/16 11:53	1

Lab Sample ID: LCS 240-245710/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 245714 — **Prep Batch: 245710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	17.7	16.2		mg/Kg		92	54 - 142

Lab Sample ID: 720-73997-8 MS — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 245714 — **Prep Batch: 245710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	ND		1.97	2.85		mg/Kg		109	75 - 125

Lab Sample ID: 720-73997-8 MSD — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 245714 — **Prep Batch: 245710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenols, Total	ND		1.98	2.99		mg/Kg		115	75 - 125	5	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 500-348920/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349127 — **Prep Batch: 348920**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1.0		mg/Kg		08/23/16 15:50	08/24/16 14:16	1

Lab Sample ID: LCS 500-348920/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349127 — **Prep Batch: 348920**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	10.0	9.62		mg/Kg		96	80 - 120

Lab Sample ID: LCS 500-348920/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349127 — **Prep Batch: 348920**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	1300	1220		mg/Kg		93	80 - 120

Method: 9045C - pH

Lab Sample ID: 720-73997-8 DU — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208345

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.2	HF		6.3		SU				3	20

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 500-350060/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350415 — **Prep Batch: 350060**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50		mg/Kg		08/31/16 12:35	08/31/16 16:55	1

Lab Sample ID: LCS 500-350060/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350415 — **Prep Batch: 350060**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			5.00	5.19		mg/Kg		104	80 - 120		

Lab Sample ID: 720-73997-8 MS — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350415 — **Prep Batch: 350060**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	2.5		1.97	4.61		mg/Kg		108	75 - 125		

Lab Sample ID: 720-73997-8 MSD — **Client Sample ID: SLUDGE BED#14 W**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350415 — **Prep Batch: 350060**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	2.5		1.97	4.91		mg/Kg		123	75 - 125	6	20

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 500-350126/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350249 — **Prep Batch: 350126**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/Kg		08/31/16 19:26	08/31/16 23:22	1

Lab Sample ID: LCS 500-350126/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350249 — **Prep Batch: 350126**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			2.50	2.40		mg/Kg		96	80 - 120		

Method: SM 4500 NH3 G - Ammonia (Continued)

Lab Sample ID: 720-73997-I-8-I MS — **Client Sample ID: 720-73997-I-8-I MS**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350249 — **Prep Batch: 350126**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	2800	F2	377	2960	4	mg/Kg		43	75 - 125		

Lab Sample ID: 720-73997-I-8-J MSD — **Client Sample ID: 720-73997-I-8-J MSD**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 350249 — **Prep Batch: 350126**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	2800	F2	387	3250	4	mg/Kg		115	75 - 125	9	20

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 500-349062/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349275 — **Prep Batch: 349062**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus as P	ND		10		mg/Kg		08/24/16 17:45	08/25/16 14:07	1
Phosphorus as PO4	ND		31		mg/Kg		08/24/16 17:45	08/25/16 14:07	1
Phosphorus Pentoxide	ND		23		mg/Kg		08/24/16 17:45	08/25/16 14:07	1

Lab Sample ID: LCS 500-349062/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 349275 — **Prep Batch: 349062**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus as P	50.0	49.6		mg/Kg		99	80 - 120
Phosphorus as PO4	153	152		mg/Kg		99	80 - 120
Phosphorus Pentoxide	115	114		mg/Kg		99	80 - 120

QC Association Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

GC/MS VOA

Prep Batch: 208050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	5030B	
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	5030B	
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	5030B	

Analysis Batch: 208282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8260B	208050
MB 720-208282/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-208282/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-208282/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	8260B	208050
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	8260B	208050

GC/MS Semi VOA

Prep Batch: 208408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3546	
MB 720-208408/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208408/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 208520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8270C	208408
MB 720-208408/1-A	Method Blank	Total/NA	Solid	8270C	208408
LCS 720-208408/2-A	Lab Control Sample	Total/NA	Solid	8270C	208408

GC Semi VOA

Prep Batch: 185780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8151A	
MB 180-185780/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 180-185780/2-A	Lab Control Sample	Total/NA	Solid	8151A	

Analysis Batch: 186145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8151A	185780
MB 180-185780/1-A	Method Blank	Total/NA	Solid	8151A	185780
LCS 180-185780/2-A	Lab Control Sample	Total/NA	Solid	8151A	185780

Prep Batch: 186530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3541	
MB 180-186530/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-186530/2-A	Lab Control Sample	Total/NA	Solid	3541	
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	3541	
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Analysis Batch: 186671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8141A	186530
MB 180-186530/1-A	Method Blank	Total/NA	Solid	8141A	186530
LCS 180-186530/2-A	Lab Control Sample	Total/NA	Solid	8141A	186530
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	8141A	186530
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	8141A	186530

Prep Batch: 208361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3546	
MB 720-208361/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208361/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 208384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8082	208361
MB 720-208361/1-A	Method Blank	Total/NA	Solid	8082	208361
LCS 720-208361/2-A	Lab Control Sample	Total/NA	Solid	8082	208361

Prep Batch: 352753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3546	
MB 440-352753/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-352753/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 352875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	8081A	352753
MB 440-352753/1-A	Method Blank	Total/NA	Solid	8081A	352753
LCS 440-352753/2-A	Lab Control Sample	Total/NA	Solid	8081A	352753

HPLC/IC

Analysis Batch: 207916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	300.0	207946
MB 720-207946/1-A	Method Blank	Soluble	Solid	300.0	207946
LCS 720-207946/2-A	Lab Control Sample	Soluble	Solid	300.0	207946
720-73997-8 MS	SLUDGE BED#14 W	Soluble	Solid	300.0	207946
720-73997-8 MSD	SLUDGE BED#14 W	Soluble	Solid	300.0	207946

Analysis Batch: 207917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	300.0	207946
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	300.0	207946
MB 720-207946/1-A	Method Blank	Soluble	Solid	300.0	207946
LCS 720-207946/2-A	Lab Control Sample	Soluble	Solid	300.0	207946
720-73997-8 MS	SLUDGE BED#14 W	Soluble	Solid	300.0	207946
720-73997-8 MSD	SLUDGE BED#14 W	Soluble	Solid	300.0	207946

HPLC/IC (Continued)

Leach Batch: 207946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	DI Leach	
MB 720-207946/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 720-207946/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
720-73997-8 MS	SLUDGE BED#14 W	Soluble	Solid	DI Leach	
720-73997-8 MSD	SLUDGE BED#14 W	Soluble	Solid	DI Leach	

Metals

Prep Batch: 131305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	20B	
MB 560-131305/1-A	Method Blank	Soluble	Solid	20B	

Analysis Batch: 131374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	20B	131305
MB 560-131305/1-A	Method Blank	Soluble	Solid	20B	131305

Prep Batch: 208046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	7471A	
MB 720-208046/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-208046/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 208049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3050B	
MB 720-208049/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-208049/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 720-208049/3-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 208496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208046/1-A	Method Blank	Total/NA	Solid	7471A	208046
LCS 720-208046/2-A	Lab Control Sample	Total/NA	Solid	7471A	208046

Analysis Batch: 208506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	6010B	208049
MB 720-208049/1-A	Method Blank	Total/NA	Solid	6010B	208049
LCS 720-208049/2-A	Lab Control Sample	Total/NA	Solid	6010B	208049
LCSSRM 720-208049/3-A	Lab Control Sample	Total/NA	Solid	6010B	208049

Analysis Batch: 208512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	7471A	208046

General Chemistry

Analysis Batch: 208065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	Moisture	

Analysis Batch: 208345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	9045C	
LCS 720-208345/1	Lab Control Sample	Total/NA	Solid	9045C	
720-73997-8 DU	SLUDGE BED#14 W	Total/NA	Solid	9045C	

Prep Batch: 245710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	Distill/Phenol	
MB 240-245710/1-A	Method Blank	Total/NA	Solid	Distill/Phenol	
LCS 240-245710/2-A	Lab Control Sample	Total/NA	Solid	Distill/Phenol	
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	Distill/Phenol	
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	Distill/Phenol	

Analysis Batch: 245714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	420.1	245710
MB 240-245710/1-A	Method Blank	Total/NA	Solid	420.1	245710
LCS 240-245710/2-A	Lab Control Sample	Total/NA	Solid	420.1	245710
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	420.1	245710
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	420.1	245710

Prep Batch: 348920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	3060A	
MB 500-348920/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 500-348920/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCS 500-348920/3-A	Lab Control Sample	Total/NA	Solid	3060A	

Prep Batch: 349062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 P B	
MB 500-349062/1-A	Method Blank	Total/NA	Solid	SM 4500 P B	
LCS 500-349062/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P B	

Analysis Batch: 349127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	7196A	348920
MB 500-348920/1-A	Method Blank	Total/NA	Solid	7196A	348920
LCS 500-348920/2-A	Lab Control Sample	Total/NA	Solid	7196A	348920
LCS 500-348920/3-A	Lab Control Sample	Total/NA	Solid	7196A	348920

Analysis Batch: 349275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 P E	349062
MB 500-349062/1-A	Method Blank	Total/NA	Solid	SM 4500 P E	349062
LCS 500-349062/2-A	Lab Control Sample	Total/NA	Solid	SM 4500 P E	349062

General Chemistry (Continued)

Analysis Batch: 349819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	Nitrogen,Org	

Analysis Batch: 349834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	SM 2510B	349836

Leach Batch: 349836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Soluble	Solid	DI Leach	

Prep Batch: 349855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	351.3_Prep	
MB 500-349855/1-A	Method Blank	Total/NA	Solid	351.3_Prep	
LCS 500-349855/2-A	Lab Control Sample	Total/NA	Solid	351.3_Prep	

Prep Batch: 350060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	Distill/CN	
MB 500-350060/22-A	Method Blank	Total/NA	Solid	Distill/CN	
LCS 500-350060/23-A	Lab Control Sample	Total/NA	Solid	Distill/CN	
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	Distill/CN	
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	Distill/CN	

Prep Batch: 350126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 NH3 B	
MB 500-350126/22-A	Method Blank	Total/NA	Solid	SM 4500 NH3 B	
LCS 500-350126/23-A	Lab Control Sample	Total/NA	Solid	SM 4500 NH3 B	
720-73997-I-8-I MS	720-73997-I-8-I MS	Total/NA	Solid	SM 4500 NH3 B	
720-73997-I-8-J MSD	720-73997-I-8-J MSD	Total/NA	Solid	SM 4500 NH3 B	

Analysis Batch: 350249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 NH3 G	350126
MB 500-350126/22-A	Method Blank	Total/NA	Solid	SM 4500 NH3 G	350126
LCS 500-350126/23-A	Lab Control Sample	Total/NA	Solid	SM 4500 NH3 G	350126
720-73997-I-8-I MS	720-73997-I-8-I MS	Total/NA	Solid	SM 4500 NH3 G	350126
720-73997-I-8-J MSD	720-73997-I-8-J MSD	Total/NA	Solid	SM 4500 NH3 G	350126

Analysis Batch: 350415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 CN E	350060
MB 500-350060/22-A	Method Blank	Total/NA	Solid	SM 4500 CN E	350060
LCS 500-350060/23-A	Lab Control Sample	Total/NA	Solid	SM 4500 CN E	350060
720-73997-8 MS	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 CN E	350060
720-73997-8 MSD	SLUDGE BED#14 W	Total/NA	Solid	SM 4500 CN E	350060

Analysis Batch: 350443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-73997-8	SLUDGE BED#14 W	Total/NA	Solid	351.1	349855

General Chemistry (Continued)

Analysis Batch: 350443 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-349855/1-A	Method Blank	Total/NA	Solid	351.1	349855
LCS 500-349855/2-A	Lab Control Sample	Total/NA	Solid	351.1	349855

Lab Chronicle

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11

Matrix: Solid

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			208050	08/22/16 20:22	CTD	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 05:38	LPL	TAL PLS
Total/NA	Prep	3546			208408	08/29/16 11:20	TTC	TAL PLS
Total/NA	Analysis	8270C		10	208520	08/31/16 05:41	MQL	TAL PLS
Total/NA	Prep	3546			352753	08/30/16 15:37	VA	TAL IRV
Total/NA	Analysis	8081A		1	352875	09/01/16 00:55	CN	TAL IRV
Total/NA	Prep	3546			208361	08/27/16 08:18	TTC	TAL PLS
Total/NA	Analysis	8082		1	208384	08/29/16 05:25	DCH	TAL PLS
Total/NA	Prep	3541			186530	08/31/16 03:30	KLG	TAL PIT
Total/NA	Analysis	8141A		10	186671	09/01/16 12:58	JMO	TAL PIT
Total/NA	Prep	8151A			185780	08/23/16 12:47	CBY	TAL PIT
Total/NA	Analysis	8151A		20	186145	08/26/16 18:20	JMO	TAL PIT
Soluble	Leach	DI Leach			207946	08/19/16 14:19	MEV	TAL PLS
Soluble	Analysis	300.0		1	207916	08/19/16 19:48	MEV	TAL PLS
Soluble	Leach	DI Leach			207946	08/19/16 14:19	MEV	TAL PLS
Soluble	Analysis	300.0		1	207917	08/19/16 19:48	MEV	TAL PLS
Soluble	Leach	DI Leach			207946	08/19/16 14:19	MEV	TAL PLS
Soluble	Analysis	300.0		100	207917	08/19/16 21:48	MEV	TAL PLS
Soluble	Prep	20B			131305	08/26/16 10:11	JEM	TAL CC
Soluble	Analysis	20B		1	131374	08/30/16 16:59	JEM	TAL CC
Total/NA	Prep	3050B			208049	08/22/16 18:49	JNG	TAL PLS
Total/NA	Analysis	6010B		4	208506	08/30/16 15:52	SLK	TAL PLS
Total/NA	Prep	7471A			208046	08/22/16 18:04	JNG	TAL PLS
Total/NA	Analysis	7471A		10	208512	08/30/16 17:14	SLK	TAL PLS
Total/NA	Prep	351.3_Prep			349855	08/31/16 12:45	MTB	TAL CHI
Total/NA	Analysis	351.1		25	350443	09/02/16 12:41	MTB	TAL CHI
Total/NA	Prep	Distill/Phenol			245710	09/07/16 06:00	JAS	TAL CAN
Total/NA	Analysis	420.1		1	245714	09/07/16 11:59	JAS	TAL CAN
Total/NA	Prep	3060A			348920	08/23/16 15:50	EAT	TAL CHI
Total/NA	Analysis	7196A		2	349127		EAT	TAL CHI
					(Start)	08/24/16 14:26		
					(End)	08/24/16 14:27		
Total/NA	Analysis	9045C		1	208345	08/26/16 17:36	MEV	TAL PLS
Total/NA	Analysis	Moisture		1	208065	08/23/16 08:55	NVP	TAL PLS
Total/NA	Analysis	Nitrogen,Org		1	349819	08/30/16 10:51	MTB	TAL CHI
Soluble	Leach	DI Leach			349836	08/30/16 11:15	MTB	TAL CHI
Soluble	Analysis	SM 2510B		1	349834		MTB	TAL CHI
					(Start)	08/30/16 12:18		
					(End)	08/30/16 12:20		
Total/NA	Prep	Distill/CN			350060	08/31/16 12:35	EAT	TAL CHI
Total/NA	Analysis	SM 4500 CN E		1	350415		VIP	TAL CHI
					(Start)	08/31/16 16:56		
					(End)	08/31/16 16:57		
Total/NA	Prep	SM 4500 NH3 B			350126	08/31/16 19:26	JBJ	TAL CHI

TestAmerica Pleasanton

Lab Chronicle

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Client Sample ID: SLUDGE BED#14 W

Lab Sample ID: 720-73997-8

Date Collected: 08/18/16 09:11

Matrix: Solid

Date Received: 08/18/16 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 NH3 G		25	350249		JBJ	TAL CHI
					(Start)	08/31/16 23:31		
					(End)	08/31/16 23:35		
Total/NA	Prep	SM 4500 P B			349062	08/24/16 17:45	JBJ	TAL CHI
Total/NA	Analysis	SM 4500 P E		50	349275		JBJ	TAL CHI
					(Start)	08/25/16 14:09		
					(End)	08/25/16 14:10		

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2903	04-30-18
Georgia	State Program	4	N/A	04-30-17
Georgia	State Program	4	939	04-30-17
Hawaii	State Program	9	N/A	04-30-17
Illinois	NELAP	5	100201	04-30-17
Indiana	State Program	5	C-IL-02	04-30-17
Iowa	State Program	7	82	05-01-18
Kansas	NELAP	7	E-10161	10-31-16 *
Kentucky (UST)	State Program	4	66	04-30-17
Kentucky (WW)	State Program	4	KY90023	12-31-16 *
Mississippi	State Program	4	N/A	04-30-17
New York	NELAP	2	12019	04-01-17
North Carolina (WW/SW)	State Program	4	291	12-31-16 *
North Dakota	State Program	8	R-194	04-30-17
Oklahoma	State Program	6	8908	08-31-17 *
South Carolina	State Program	4	77001	04-30-17
USDA	Federal		P330-15-00038	02-11-18
Wisconsin	State Program	5	999580010	08-31-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Laboratory: TestAmerica Chicago (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
Wyoming	State Program	8	8TMS-Q	04-30-17

Laboratory: TestAmerica Corpus Christi

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	2015-119	08-31-16 *
Texas	NELAP	6	T104704210-16-18	03-31-17
USDA	Federal		P330-14-00328	09-30-17

Laboratory: TestAmerica Irvine

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-17
Arizona	State Program	9	AZ0671	10-13-16 *
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16 *
Nevada	State Program	9	CA015312016-2	07-31-17 *
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-17
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-17

Laboratory: TestAmerica Pittsburgh

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	88-0690	06-27-17
California	State Program	9	2891	03-31-18
Connecticut	State Program	1	PH-0688	09-30-16 *
Florida	NELAP	4	E871008	06-30-17
Illinois	NELAP	5	200005	06-30-17
Kansas	NELAP	7	E-10350	01-31-17
Louisiana	NELAP	6	04041	06-30-17
New Hampshire	NELAP	1	2030	04-04-17
New Jersey	NELAP	2	PA005	06-30-17
New York	NELAP	2	11182	03-31-17
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-17
South Carolina	State Program	4	89014	04-30-17
Texas	NELAP	6	T104704528-15-2	03-31-17
US Fish & Wildlife	Federal		LE94312A-1	10-31-16
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-17
Virginia	NELAP	3	460189	09-14-16 *
West Virginia DEP	State Program	3	142	01-31-17

* Certification renewal pending - certification considered valid.

Laboratory: TestAmerica Pittsburgh (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
Wisconsin	State Program	5	998027800	08-31-17

Method Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
8141A	Organophosphorous Pesticides (GC)	SW846	TAL PIT
8151A	Herbicides (GC)	SW846	TAL PIT
300.0	Anions, Ion Chromatography	MCAWW	TAL PLS
20B	Sodium Adsorption Ratio	USDA	TAL CC
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
351.1	Nitrogen, Total Nitrogen	EPA	TAL CHI
420.1	Phenolics, Total Recoverable	MCAWW	TAL CAN
7196A	Chromium, Hexavalent	SW846	TAL CHI
9045C	pH	SW846	TAL PLS
Moisture	Percent Moisture	EPA	TAL PLS
Nitrogen,Org	Nitrogen, Organic	EPA	TAL CHI
SM 2510B	Conductivity, Specific Conductance	SM	TAL CHI
SM 4500 CN E	Cyanide, Total	SM	TAL CHI
SM 4500 NH3 G	Ammonia	SM	TAL CHI
SM 4500 P E	Phosphorus	SM	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
USDA = "USDA Agriculture Handbook 60, section 20B".

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: City of San Leandro
Project/Site: WPCP San Leandro

TestAmerica Job ID: 720-73997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-73997-8	SLUDGE BED#14 W	Solid	08/18/16 09:11	08/18/16 16:35

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton,CA 94566
925-484-1919

Chain of Custody Record

720-73997

TestA THE LEADER IN

001587241

9/8/2016

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☑ Other

Client Contact	Project Manager: Angelica Berumen	Site Contact: Angelica Berumen	Date: 9/21/2016	COC No:
San Leandro Water Pollution Control Plant	Tel/Fax: 510-577-6942 / 510-427-4022	Lab Contact: Angelica Berumen	Carrier:	1 of 1 COCs
Address: 2000 Davis Street	Analysis Turnaround Time			Sampler: Shahed Abbasi/Angelica Berumen
City/State/Zip: San Leandro, CA 94577	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone: (510) 577-6035	TAT if different from Below ___ Standard			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: WPCP San Leandro 2015 Biosolids Stockpile	☐ 1 week			
Site: San Leandro Sludge Drying Bed # 14 W	☐ 2 days			Job / SDG No.:
P.O.# 53802	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sb, Molline	Fecal Coliform (SM Lab)									Sample Specific Notes:
Sludge BED # 14 W Grab 1	8/18/2016	08:59	G	Soil	1, sterile bag, 180.5 g			X	X									
Sludge BED # 14 W Grab 2	8/18/2016	09:00	G	Soil	1, sterile bag, 225.5 g			X	X									
Sludge BED # 14 W Grab 3	8/18/2016	09:05	G	Soil	1, sterile bag, 228.4 g			X	X									
Sludge BED # 14 W Grab 4	8/18/2016	09:09	G	Soil	1, sterile bag, 219.5 g			X	X									
Sludge BED # 14 W Grab 5	8/18/2016	09:11	G	Soil	1, sterile bag, 203.5 g			X	X									
Sludge BED # 14 W Grab 6	8/18/2016	09:16	G	Soil	1, sterile bag, 196.3 g			X	X									
Sludge BED # 14 W Grab 7	8/18/2016	09:02	G	Soil	1, sterile bag, 246.5 g			X	X									

720-73997 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in this Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ___ Corr'd: ___ Therm ID No.: ___

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Angelica Berumen	SL-WPCP-Lab	8/18/16 1154		BM Labs K	8/18/16 1155
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

170499

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton,CA 94566
925-484-1919

720-73997

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/8/2016

DENALI_004707

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☑ Other:

Client Contact	Project Manager: Angelica Berumen	Site Contact: Angelica Berumen	Date: 9/21/2015	COC No:
San Leandro Water Pollution Control Plant	Tel/Fax: 510-577-6042 / 510-427-0022	Lab Contact: Angelica Berumen	Carrier:	___1___ of __1___ COCs
Address: 3000 Davis Street	Analysis Turnaround Time			Sampler: Shahed Abbasi/Angelica Berumen
City/State/Zip: San Leandro, CA 94577	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
Phone : (510) 577-6035	TAT if different from Below ___Standard			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name:WPCP San Leandro 2015 Biosolids Stockpile	☐ 1 week			
Site: San Leandro Sludge Drying Bed # 14 W	☐ 2 days			Job / SDG No.:
P O # 53802	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	% Moisture	Fecal Coliform (EM Labs)	Phenolic 420.1	Total Cyanide SM4500 CNE	CAM 17 6010B/7471A	Hexavalent Cr 7196A	B, Ca, Na -6010B	TKN, NH3-N,ORGANIC NITROGEN	FLOURIDE,NITRATE & T PHOSPORUS	EPA 8270C ; EPA 8260B ; EPA 6082	EPA 8161A; 8141A; 8081A (KEPONE MIREX	pH, SPECIFIC CONDUCTANCE	Sodium Absorption Ratio			Sample Specific Notes
Sludge BED # 14 W	8/18/2016	9:11	C	Soil	(12) 8 oz, G			X		X	X	X	X	X	X	X	X	X	X	X			Trace Metal- As, Cd,Cr,Cu,Pb,Hg,
Sludge BED # 14 W Grab 1	8/18/2016	08:58	G	Soil	1, sterile bag, 180.5 g			X	X														Ni,Se,Ag,Zn,Mo
Sludge BED # 14 W Grab 2	8/18/2016	09:00	G	Soil	1, sterile bag, 225.9g			X	X														**Note: Please send preliminary**
Sludge BED # 14 W Grab 3	8/18/2016	09:05	G	Soil	1, sterile bag, 223.4 g			X	X														**results to foresee need for STLC.**
Sludge BED # 14 W Grab 4	8/18/2016	09:09	G	Soil	1, sterile bag,219.5 g			X	X														**Please report results on wet-weight**
Sludge BED # 14 W Grab 5	8/18/2016	09:11	G	Soil	1, sterile bag, 203.6 g			X	X														**basis.**
Sludge BED # 14 W Grab 6	8/18/2016	09:10	G	Soil	1, sterile bag, 196.3 g			X	X														
Sludge BED # 14 W Grab 7	8/18/2016	09:02	G	Soil	1, sterile bag, 246.5 g			X	X														
								1	1	1	1	1	1	1	1	1	1	1	1	1			

720-73997 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

3.8°C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	SL-WPCP- Lab	Date/Time: 8/18/16 1325		TH	8/18/16 1325
Relinquished by:	Company:	Date/Time: 8/18/16 1635	Received by:	Company:	Date/Time: 8/18/16 1635
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	Carrier Tracking No(s):	COC No: 720-30060.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-73997-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/6/2016			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: WPCP San Leandro	Project #: 72005475			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	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)	8151A/8151A_SP (MOD) 8151 - Herbicides	8141A/3541 (MOD) 8141 - Pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X	X		

Ref:
Dep:
Date: 19Aug16
Wgt: 11.53 LBS
DV:
Svcs PRIORITY OVERNIGHT
TRCK: 6906 0066 7030
100.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 8/19/16 1420	Company: TA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Cuellar, Cherie

From: Berumen, Angelica <ABerumen@sanleandro.org>
Sent: Tuesday, August 23, 2016 11:49 AM
To: Miller, Beth
Cc: Cuellar, Cherie; Maxwell, Karen; McKnight, Taryn; Abbasi, Shahed
Subject: RE: TestAmerica Quotation 72012064 for the City of San Leandro - 2016 Biosolids

PLEASE CANCEL THE SEVEN FECAL COLIFORM AND ACCOMPANYING PERCENT MOISTURE ANALYSES. THESE SAMPLES WERE HAND DELIVERED BY SAN LEANDRO LAB STAFF TO EMK IN SOUTH SAN FRANCISCO ON THE 18TH BUT THEY WERE SHIPPED TO HOUSTON AND THEN BACK TO CALIFORNIA DUE TO A SAMPLE RECEIVING ERROR((?) AND REMAIN UN-ANALYZED TO THIS DAY. WE ARE USING A DIFFERENT LAB FOR THESE ANALYSES. THANKS.

Angelica Berumen
Laboratory Technician II
City of San Leandro WPCP
3000 Davis St.
San Leandro, CA 94577
(510)577-6042
(510)427-0022 – cell
aberumen@sanleandro.org

720-73997 Chain of Custody

h2Oworks
san leandro wastewater treatment
Serving the Community, Protecting the Bay

From: Miller, Beth [mailto:Beth.Miller@testamericainc.com]
Sent: Monday, August 22, 2016 2:15 PM
To: Berumen, Angelica
Cc: Cuellar, Cherie; Berumen, Angelica; Maxwell, Karen; McKnight, Taryn
Subject: TestAmerica Quotation 72012064 for the City of San Leandro - 2016 Biosolids

Hi Shahed:

Attached is TestAmerica's quotation for the subject project, which is based on the spreadsheet provided. Please carefully review the exceptions and clarifications section of the Project Details page. Do not hesitate to contact us with questions or if you need additional information.

TestAmerica sincerely appreciates your business.

Thank you,

BETH MILLER
Office Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-73997-2

Caparas, Criselda

From: Berumen, Angelica [ABerumen@sanleandro.org]
Sent: Tuesday, September 06, 2016 3:45 PM
To: Caparas, Criselda
Cc: Abbasi, Shahed
Subject: RE: Preliminary Report-TestAmerica report files from 720-73997-1 WPCP San Leandro

Thank you Criselda. Please proceed with STLC for Cu.

From: Caparas, Criselda [mailto:criselda.caparas@testamericainc.com]
Sent: Tuesday, September 06, 2016 3:41 PM
To: Berumen, Angelica
Subject: Preliminary Report-TestAmerica report files from 720-73997-1 WPCP San Leandro

Hi Angelica

Attached please find the preliminary report files for job 720-73997-1; WPCP San Leandro

Looking at your Total Metals result your Cooper is above limit.
Please email me back if you want me to start STLC for Cu.

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

CRISELDA CAPARAS
Project Management Assistant I

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

720-73997 Chain of Custody

Reference. [224880]
Attachments: 1

(412) 963 – 7058
INV:
PO:
REF:
DEPT:
FedEx
Express
E
TRK# 0201 6901
Uncorrected temp
Thermometer ID
CF
Initials
DW
PT-WI-SR-001 effective 7/26/13
720-73997 Waybill
156148V-434 RIT2 07/15
FedEx
Express
SDR
XO
PERISHABL
156289 REV 7/08 RRD

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

720-73997 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	C No: 0-30060.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testam...	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.			Job #: 720-73997-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 9/6/2016		
City: Pittsburgh	TAT Requested (days):		
State, Zip: PA, 15238			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:		
Email:	WO #:		
Project Name: WPCP San Leandro	Project #: 72005475		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	8151A/8151A_SP (MOD) 8151 - Herbicides	8141A/3541 (MOD) 8141 - Pesticides	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X	X	1	

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1420	Company TA	Received by:	Date/Time: 8-20-16 9:10	Company TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

1,3/C2,3

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	Carrier Tracking No(s):	COC No: 720-30055.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-73997-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 9/6/2016			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: WPCP San Leandro	Project #: 72005475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	420.1/Distill_Phenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X	1	

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1430	Company: TA	Received by:		Date/Time: 08/20/16 930	Company: TAL
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative **Login # :**_____

Canton Facility

Client TA Pleasanton Site Name 720-73997-1 Cooler unpacked by: DSD

Cooler Received on 08/20/16 Opened on 08/22/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 2.3 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC574756
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-061316 Cooler Receipt Form.doc djl

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	Carrier Tracking No(s):	COC No: 720-30061.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc				Job #: 720-73997-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 9/6/2016			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: WPCP San Leandro	Project #: 72005475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	8081A/3546 Kepone & Mirex	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X	1	Kepone & Mirex

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1430	Company	Received by:	Date/Time: 8/20/16 1040	Company TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.8/3.6 #78		

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	Carrier Tracking No(s):	COC No: 720-30056.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-73997-1
Address: 2417 Bond Street,	Due Date Requested: 9/6/2016			
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #:			
Email:	WO #:			
Project Name: WPCP San Leandro	Project #: 72005475			
Site:	SSOW#:			

720-73997 COC

Analysis Requested

Preservation Codes:

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 - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	Nitrogen,Org	2510B/DI_LEACH	4500_P_E/SM4500_P_B	7196A/3060A	SM4500_NH3_F/Distill_Ammonia	351.1/351.3_Prep	4500_CN_E/Distill_CN	Total Number of containers	Special Instructions/Note:
			Preservation Code:												
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X	X	X	X	X	X	X	3	

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1430	Company: TA	Received by:	Date/Time: 08/20/16 10:00	Company: TA-CGY
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 0.2

tAmerica Pleasanton
Quarry Lane
anton,CA 94566
84-1919

720-73997

Chain of Custody Record

170499

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☑ Other:

Client Contact	Project Manager: Angelica Berumen	Site Contact: Angelica Berumen	Date: 9/21/2015	COC No:
eandro Water Pollution Control Plant	Tel/Fax: 510-577-6042 / 510-427-0022	Lab Contact: Angelica Berumen	Carrier:	1 of 1 COCs
ss: 3000 Davis Street	Analysis Turnaround Time			Sampler: Shahed Abbasi/Angelica Berumen
tate/Zip: San Leandro, CA 94577	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
e : (510) 577-6035	TAT if different from Below ___Standard			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
t Name:WPCP San Leandro 2015 Biosolids Stockpile	☐ 1 week			
San Leandro Sludge Drying Bed # 14 W	☐ 2 days			Job / SDG No.:
53802	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	% Moisture	Fecal Coliform (EM Labs)	Phenolic 420.1	Total Cyanide SM4500 CNE	CAM 17 6010B/7471A	Hexavalent Cr 7196A	B, Ca, Na - 6010B	TKN, NH3-N,ORGANIC NITROGEN	FLOURIDE,NITRATE & T PHOSPORUS	EPA 8270C ; EPA 8260B ; EPA 8082	EPA 8151A; 8141A; 8081A (KEPONE MIREX)	pH; SPECIFIC CONDUCTANCE	Sodium Absorption Ratio			Sample Specific Notes:
Sludge BED # 14 W	8/18/2016	9:11	C	Soil	(12) 8 oz, G			X		X	X	X	X	X	X	X	X	X	X	X			Trace Metal- As, Cd,Cr,Cu,Pb,Hg,
Sludge BED # 14 W Grab 1	8/18/2016	08:58	G	Soil	1, sterile bag, 180.5 g			X	X														Ni,Se,Ag,Zn,Mo
Sludge BED # 14 W Grab 2	8/18/2016	09:00	G	Soil	1, sterile bag, 225.9g			X	X														**Note: Please send preliminary**
Sludge BED # 14 W Grab 3	8/18/2016	09:05	G	Soil	1, sterile bag, 223.4 g			X	X														**results to foresee need for STLC.**
Sludge BED # 14 W Grab 4	8/18/2016	09:09	G	Soil	1, sterile bag,219.5 g			X	X														**Please report results on wet-weight**
Sludge BED # 14 W Grab 5	8/18/2016	09:11	G	Soil	1, sterile bag, 203.6 g			X	X														**basis.**
Sludge BED # 14 W Grab 6	8/18/2016	09:10	G	Soil	1, sterile bag, 196.3 g			X	X														
Sludge BED # 14 W Grab 7	8/18/2016	09:02	G	Soil	1, sterile bag, 246.5 g			X	X														
								1	1	1	1	1	1	1	1	1	1	1	1	1			

720-73997 Chain of Custody

ervation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other_____

ible Hazard Identification:
ny samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section
lab is to dispose of the sample.
on-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

al Instructions/QC Requirements & Comments:

3.8°C

stody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

quished by:	Company: SL-WPCP- Lab	Date/Time: 8/18/16 1325	Received by:	Company: TA	Date/Time: 8/18/16 1325
quished by:	Company: TA	Date/Time: 8/18/16 1635	Received by:	Company: TA	Date/Time: 8/18/16 1635
quished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cuellar, Cherie	Carrier Tracking No(s):	COC No: 720-30059.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: cherie.cuellar@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-73997-1
Address: 1733 N. Padre Island Drive, ,	Due Date Requested: 9/6/2016			
City: Corpus Christi	TAT Requested (days):			
State, Zip: TX, 78408				
Phone: 361-289-2673(Tel) 361-289-2471(Fax)	PO #:			
Email:	WO #:			
Project Name: WPCP San Leandro	Project #: 72005475			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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 - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	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)	20B_SAR/20B_SAR_P (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SLUDGE BED#14 W (720-73997-8)	8/18/16	09:11 Pacific		Solid			X		

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

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Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 6bs.9 cr.4°C Ic/10		

Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-73997-1

Login Number: 73997
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

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.	N/A	
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	
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 (excluding tests with immediate HTs)	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-73997-1

Login Number: 73997
List Number: 4
Creator: Scott, Sherri L

List Source: TestAmerica Chicago
List Creation: 08/22/16 07:17 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.	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	0.2
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 (excluding tests with immediate HTs)	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: City of San Leandro

Job Number: 720-73997-1

Login Number: 73997
List Number: 5
Creator: Etter, Corey M

List Source: TestAmerica Corpus Christi
List Creation: 08/22/16 10:22 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 (excluding tests with immediate HTs)	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: City of San Leandro

Job Number: 720-73997-1

Login Number: 73997
List Number: 3
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine
List Creation: 08/20/16 11:57 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.	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 (excluding tests with immediate HTs)	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of San Leandro

Job Number: 720-73997-1

Login Number: 73997
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 08/20/16 01:38 PM

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.	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 (excluding tests with immediate HTs)	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	