Wickham, Jerry, Env. Health

From: Peter Sims <psims@ninyoandmoore.com>
Sent: Wednesday, November 12, 2014 1:09 PM
To: Wickham, Jerry, Env. Health
Subject: RE: Ashland Housing Project Stockpile SPC

Thanks Jerry, stockpile SPC will be disposed off-site.

I'll have the in-situ samples analyzed for naphthalene in addition to the analyses previously discussed.

Peter D. Sims, LEED AP
Project Environmental Geologist
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-----Original Message-----
From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Wednesday, November 12, 2014 12:49 PM
To: Peter Sims
Subject: RE: Ashland Housing Project Stockpile SPC

Peter,

Alameda County Environmental Health has reviewed the submitted information and finds that the second soil stockpile (SPC) does not appear to be suitable for reuse on site. Although the concentration of TPH as motor oil (430 mg/kg) is below the IRAP Cleanup Goal of 500 mg/kg, it is above the current ESL ceiling level of 100 mg/kg and the concentration of TPH as diesel (85 mg/kg) is near the ESL ceiling level of 100 mg/kg.

There is one item that I missed in reviewing the proposed analytes for the in-situ soil sampling in Kent Avenue. Please include naphthalene at an analyte for the discrete soil samples using EPA Method 8260.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

From: Peter Sims [mailto:psims@ninyoandmoore.com]
Sent: Wednesday, November 12, 2014 9:26 AM

To: Wickham, Jerry, Env. Health
Subject: Ashland Housing Project Stockpile SPC

Hi Jerry

The lab results are in for the second stockpile (SPC) we sampled and it is acceptable for reuse based on the site cleanup goals (ESLs included in the IRAP). Please confirm that the soil is acceptable for reuse and/or provide comments based on the below information.

1) A map or aerial photo showing the general area where the fill came from. See attached figure showing the location of stockpile SPC and the trench in Kent Avenue where the fill came from.

2) The volume of the stockpiles and volume that each sample represents and which sample goes with which stockpile. The stockpile SPC is approximately 9 cubic yards, each discrete sample represents approximately 2.2 cubic yards.

3) The type of samples - composite or discrete. Composite sample COMP C was analyzed by TPHd, TPHmo, and Title 22 Metals. Discrete sample SPC-3 was analyzed for TPHg and BTEX.

4) The type of fill and the heterogeneity. The fill was observed to be dark brown, moist, silty sand and was generally homogenous.

5) Whether the fill contains any debris or construction material. No debris or construction material was observed in the stockpiled soil.

6) Whether any staining or odor was observed. No staining or odor was observed in the stockpiled soil.

7) Confirmation of where the soil is to be reused. Soil is to be reused as backfill beneath Building A.

8) Laboratory analytical results. See Attached.

Thanks,

Peter D. Sims, LEED AP
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From stockpile sampling

on

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-61118-1
Client Project/Site: Ashland

For:
Ninyo & Moore
1956 Webster Street
Suite 400
Oakland, California 94612

Attn: Mr. Peter D. Sims

Authorized for release by:
11/11/2014 5:15:08 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

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: 720-61118-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-61118-1

Comments
No additional comments.

Receipt
The samples were received on 11/7/2014 3:41 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

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

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

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: COMP C (720-61118-5). 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.

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

Metals
Method 6010B: The following sample was diluted due to the abundance of non-target analyte: COMP C (720-61118-5). 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.

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

Detection Summary

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Client Sample ID: SPC-3 — Lab Sample ID: 720-61118-3

No Detections.

Client Sample ID: COMP C — Lab Sample ID: 720-61118-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	85		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	430		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	4.5		3.1		mg/Kg	4		6010B	Total/NA
Barium	120		1.5		mg/Kg	4		6010B	Total/NA
Chromium	30		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.62		mg/Kg	4		6010B	Total/NA
Copper	22		4.6		mg/Kg	4		6010B	Total/NA
Lead	7.3		1.5		mg/Kg	4		6010B	Total/NA
Nickel	35		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.5		mg/Kg	4		6010B	Total/NA
Zinc	53		4.6		mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.0095		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Client Sample ID: SPC-3
Date Collected: 11/07/14 11:41
Date Received: 11/07/14 15:41

Lab Sample ID: 720-61118-3
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		11/10/14 10:00	11/10/14 14:03	1
Ethylbenzene	ND		4.9		ug/Kg		11/10/14 10:00	11/10/14 14:03	1
Toluene	ND		4.9		ug/Kg		11/10/14 10:00	11/10/14 14:03	1
Xylenes, Total	ND		9.8		ug/Kg		11/10/14 10:00	11/10/14 14:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/10/14 10:00	11/10/14 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*11/10/14 10:00*	*11/10/14 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*	*11/10/14 10:00*	*11/10/14 14:03*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*11/10/14 10:00*	*11/10/14 14:03*	*1*

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Client Sample ID: COMP C
Date Collected: 11/07/14 11:39
Date Received: 11/07/14 15:41

Lab Sample ID: 720-61118-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	85		4.9		mg/Kg		11/10/14 16:59	11/11/14 12:19	5
Motor Oil Range Organics [C24-C36]	430		250		mg/Kg		11/10/14 16:59	11/11/14 12:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/10/14 16:59*	*11/11/14 12:19*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/10/14 16:59*	*11/11/14 12:19*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Arsenic	4.5		3.1		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Barium	120		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Beryllium	ND		0.31		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Cadmium	ND		0.38		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Chromium	30		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Cobalt	8.2		0.62		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Copper	22		4.6		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Lead	7.3		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Molybdenum	ND		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Nickel	35		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Selenium	ND		3.1		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Silver	ND		0.77		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Thallium	ND		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Vanadium	33		1.5		mg/Kg		11/08/14 13:47	11/10/14 19:48	4
Zinc	53		4.6		mg/Kg		11/08/14 13:47	11/10/14 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.0095		mg/Kg		11/08/14 17:04	11/10/14 17:24	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-170545/5
Matrix: Solid
Analysis Batch: 170545

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			11/10/14 09:07	1
Ethylbenzene	ND		5.0		ug/Kg			11/10/14 09:07	1
Toluene	ND		5.0		ug/Kg			11/10/14 09:07	1
Xylenes, Total	ND		10		ug/Kg			11/10/14 09:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/10/14 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*		*11/10/14 09:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 140*		*11/10/14 09:07*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*11/10/14 09:07*	*1*

Lab Sample ID: LCS 720-170545/6
Matrix: Solid
Analysis Batch: 170545

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	48.0		ug/Kg		96	70 - 130		
Ethylbenzene			50.0	42.5		ug/Kg		85	80 - 137		
Toluene			50.0	43.1		ug/Kg		86	80 - 128		
m-Xylene & p-Xylene			50.0	43.1		ug/Kg		86	70 - 146		
o-Xylene			50.0	44.5		ug/Kg		89	70 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*88*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 140*
Toluene-d8 (Surr)	*94*		*58 - 140*

Lab Sample ID: LCS 720-170545/8
Matrix: Solid
Analysis Batch: 170545

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	969		ug/Kg		97	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*
Toluene-d8 (Surr)	*94*		*58 - 140*

Lab Sample ID: LCSD 720-170545/7
Matrix: Solid
Analysis Batch: 170545

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
Benzene			50.0	47.7		ug/Kg		95	70 - 130	1	20
Ethylbenzene			50.0	43.7		ug/Kg		87	80 - 137	3	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-170545/7
Matrix: Solid
Analysis Batch: 170545

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
Toluene			50.0	44.1		ug/Kg		88	80 - 128	2	20
m-Xylene & p-Xylene			50.0	44.3		ug/Kg		89	70 - 146	3	20
o-Xylene			50.0	45.3		ug/Kg		91	70 - 140	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*74*		*60 - 140*
Toluene-d8 (Surr)	*93*		*58 - 140*

Lab Sample ID: LCSD 720-170545/9
Matrix: Solid
Analysis Batch: 170545

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
Gasoline Range Organics (GRO) -C5-C12			1000	951		ug/Kg		95	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 140*
Toluene-d8 (Surr)	*92*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-170589/1-A
Matrix: Solid
Analysis Batch: 170563

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 170589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		11/10/14 13:15	11/10/14 21:48	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/10/14 13:15	11/10/14 21:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*11/10/14 13:15*	*11/10/14 21:48*	*1*
p-Terphenyl	*90*		*38 - 148*	*11/10/14 13:15*	*11/10/14 21:48*	*1*

Lab Sample ID: LCS 720-170589/2-A
Matrix: Solid
Analysis Batch: 170563

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 170589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			83.0	54.3		mg/Kg		65	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*91*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-170539/1-A
Matrix: Solid
Analysis Batch: 170581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Arsenic	ND		1.0		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Barium	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Beryllium	ND		0.10		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Cadmium	ND		0.13		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Chromium	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Cobalt	ND		0.20		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Copper	ND		1.5		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Lead	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Molybdenum	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Nickel	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Selenium	ND		1.0		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Silver	ND		0.25		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Thallium	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Vanadium	ND		0.50		mg/Kg		11/08/14 13:47	11/10/14 09:50	1
Zinc	ND		1.5		mg/Kg		11/08/14 13:47	11/10/14 09:50	1

Lab Sample ID: LCS 720-170539/2-A
Matrix: Solid
Analysis Batch: 170581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.2		mg/Kg		86	80 - 120
Arsenic	50.0	47.7		mg/Kg		95	80 - 120
Barium	50.0	50.5		mg/Kg		101	80 - 120
Beryllium	50.0	48.8		mg/Kg		98	80 - 120
Cadmium	50.0	50.1		mg/Kg		100	80 - 120
Chromium	50.0	52.1		mg/Kg		104	80 - 120
Cobalt	50.0	49.4		mg/Kg		99	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	49.6		mg/Kg		99	80 - 120
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	50.5		mg/Kg		101	80 - 120
Selenium	50.0	47.5		mg/Kg		95	80 - 120
Silver	25.0	25.0		mg/Kg		100	80 - 120
Thallium	50.0	50.2		mg/Kg		100	80 - 120
Vanadium	50.0	49.5		mg/Kg		99	80 - 120
Zinc	50.0	45.8		mg/Kg		92	80 - 120

Lab Sample ID: LCSD 720-170539/3-A
Matrix: Solid
Analysis Batch: 170581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.2		mg/Kg		94	80 - 120	9	20
Arsenic	50.0	47.7		mg/Kg		95	80 - 120	0	20
Barium	50.0	50.0		mg/Kg		100	80 - 120	1	20
Beryllium	50.0	48.9		mg/Kg		98	80 - 120	0	20

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

Lab Sample ID: LCSD 720-170539/3-A
Matrix: Solid
Analysis Batch: 170581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium			50.0	50.1		mg/Kg		100	80 - 120	0	20
Chromium			50.0	51.4		mg/Kg		103	80 - 120	1	20
Cobalt			50.0	49.3		mg/Kg		99	80 - 120	0	20
Copper			50.0	49.6		mg/Kg		99	80 - 120	0	20
Lead			50.0	49.1		mg/Kg		98	80 - 120	1	20
Molybdenum			50.0	50.7		mg/Kg		101	80 - 120	1	20
Nickel			50.0	50.1		mg/Kg		100	80 - 120	1	20
Selenium			50.0	47.8		mg/Kg		96	80 - 120	1	20
Silver			25.0	24.9		mg/Kg		100	80 - 120	0	20
Thallium			50.0	50.3		mg/Kg		101	80 - 120	0	20
Vanadium			50.0	48.9		mg/Kg		98	80 - 120	1	20
Zinc			50.0	50.0		mg/Kg		100	80 - 120	9	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-170541/1-A
Matrix: Solid
Analysis Batch: 170610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/08/14 17:04	11/10/14 16:28	1

Lab Sample ID: LCS 720-170541/2-A
Matrix: Solid
Analysis Batch: 170610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170541

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			0.833	0.858		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 720-170541/3-A
Matrix: Solid
Analysis Batch: 170610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170541

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.850		mg/Kg		102	80 - 120	1	20

GC/MS VOA

Analysis Batch: 170545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-3	SPC-3	Total/NA	Solid	8260B/CA_LUFT MS	170587
LCS 720-170545/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-170545/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170545/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170545/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-170545/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 170587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-3	SPC-3	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 170563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-170589/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	170589
MB 720-170589/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	170589

Prep Batch: 170589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Silica Gel Cleanup	Solid	3546	
LCS 720-170589/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-170589/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 170657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Silica Gel Cleanup	Solid	8015B	170589

Metals

Prep Batch: 170539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Total/NA	Solid	3050B	
LCS 720-170539/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-170539/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-170539/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 170541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Total/NA	Solid	7471A	
LCS 720-170541/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-170541/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-170541/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Analysis Batch: 170581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-170539/2-A	Lab Control Sample	Total/NA	Solid	6010B	170539
LCSD 720-170539/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	170539
MB 720-170539/1-A	Method Blank	Total/NA	Solid	6010B	170539

Analysis Batch: 170610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-170541/2-A	Lab Control Sample	Total/NA	Solid	7471A	170541
LCSD 720-170541/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	170541
MB 720-170541/1-A	Method Blank	Total/NA	Solid	7471A	170541

Analysis Batch: 170623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Total/NA	Solid	7471A	170541

Analysis Batch: 170628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61118-5	COMP C	Total/NA	Solid	6010B	170539

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Client Sample ID: SPC-3

Lab Sample ID: 720-61118-3

Date Collected: 11/07/14 11:41

Matrix: Solid

Date Received: 11/07/14 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			170587	11/10/14 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170545	11/10/14 14:03	ASC	TAL PLS

Client Sample ID: COMP C

Lab Sample ID: 720-61118-5

Date Collected: 11/07/14 11:39

Matrix: Solid

Date Received: 11/07/14 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			170589	11/10/14 16:59	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	170657	11/11/14 12:19	JL	TAL PLS
Total/NA	Prep	3050B			170539	11/08/14 13:47	CTD	TAL PLS
Total/NA	Analysis	6010B		4	170628	11/10/14 19:48	SLK	TAL PLS
Total/NA	Prep	7471A			170541	11/08/14 17:04	ASB	TAL PLS
Total/NA	Analysis	7471A		1	170623	11/10/14 17:24	SLK	TAL PLS

Laboratory References:

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

Certification Summary

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-61118-3	SPC-3	Solid	11/07/14 11:41	11/07/14 15:41
720-61118-5	COMP C	Solid	11/07/14 11:39	11/07/14 15:41

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-61118

Reference #: 157467

Date 11/7/14 Page 1 of 1

11/11/2014

Report To

Attn: Peter Sims
Company: Ninyo & Moore
Address:
Email: psims@ninyoandmoore.com
Bill To: same
Sampled By: M. Temi
Attn:
Phone: 510.343.3000

Analysis Request

Sample ID	Date	Time	Matrix	Preserv
SPC-1 } COMP C	11/7/14	1139	Soil	ice
SPC-2	"	1140	"	"
SPC-3	"	1141	"	"
SPC-4	"	1142	"	"

Volatile Organics GC/MS (VOCs) ☐ EPA 8260B
HVOCs by ☐ EPA 8260B
EPA 8260B: ☒ Gas ☒ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol
TEPH EPA 8015B ☒ Silica Ge ☒ Diesel ☒ Motor Oil ☐ Other
SemiVolatile Organics GC/MS ☐ EPA 8270C
PNA/PAH's by ☐ 8270C ☐ 8270C SIM
Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total
Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082
CAM17 Metals (EPA 6010/7470/7471)
Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:
Metals: ☐ 6020 ☐ 200.8 (ICP-MS):
☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP
Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199
pH ☐ 9040 ☐ SM4500
☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS
Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4
☐ Perchlorate by EPA 314.0
COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity
Number of Containers

Analyze COMP C for TPH diesel & motor oil w/SGC and Title 22 Metals

Analyze SPC-3 for TPH gasoline & BTEX

All 48-hour TAT

RUSH

720-61118 Chain of Custody

Project Info.

Project Name/ #: Ashland 402090002
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 0.9°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | (2 Day) | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
M Temi	Keith Hammerle	
Signature	Signature	Signature
1425 Time	1541 Time	Time
Melissa Temi	Keith Hammerle	
Printed Name	Printed Name	Printed Name
11/7/14 Date	11-7-14 Date	Date
Ninyo & Moore	TA	
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Keith Hammerle	John Mueller	
Signature	Signature	Signature
1425 Time	1541 Time	Time
Keith Hammerle	Mueller	
Printed Name	Printed Name	Printed Name
11-7-14 Date	11-7-14 Date	Date
TA	Test America	
Company	Company	Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-61118-1

Login Number: 61118

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

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.	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	