Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Wednesday, November 12, 2014 8:18 AM
To: 'Peter Sims'
Subject: RE: Ashland Housing Project Stockpile SPB

Peter,

Based on the information provided, Alameda County Environmental Health has no objection to use of the fill material as proposed.

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: Tuesday, November 11, 2014 10:41 AM
To: Wickham, Jerry, Env. Health
Subject: RE: Ashland Housing Project Stockpile SPB

Hi Jerry,

The lab results are in for the first stockpile 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 SPB 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 SPB is approximately 42 cubic yards, each discrete sample represents approximately 10.5 cubic yards.
3) The type of samples - composite or discrete. Composite sample COMPB was analyzed by TPHd, TPHmo, and TItle 22 Metals. Discrete sample SPB-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
Project Environmental Geologist
Ninyo & Moore

Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
(510) 327-9335 (Cell Phone)
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San Jose office
2149 O'Toole Avenue, Suite 30
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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-----Original Message-----
From: Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]
Sent: Tuesday, November 04, 2014 8:25 AM
To: Peter Sims
Subject: RE: Ashland Housing Project

Hello Peter,

The proposed stockpile sampling and submittal of results to ACEH for review is acceptable. TPHg and VOC analyses are to be performed on discrete samples. When submitting the stockpile sampling results, please include the following:

1) A map or aerial photo showing the general area where the fill came from.
2) The volume of the stockpiles and volume that each sample represents and which sample goes with which stockpile
3) The type of samples - composite or discrete
4) The type of fill and the heterogeneity
5) Whether the fill contains any debris or construction material
6) Whether any staining or odor was observed
7) Confirmation of where the soil is to be reused
8) Laboratory analytical results

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: Monday, November 03, 2014 2:55 PM
To: Wickham, Jerry, Env. Health
Subject: Ashland Housing Project

Hi Jerry,

The contractor at Ashland has more trenching in Kent Avenue to perform and is planning on reusing the soil on site if it is acceptable. We anticipate two 50-cubic yard stockpiles will be generated one after another. Soil will be stockpiled on plastic sheeting on site. The stockpiles will be sampled per Section 6.6 of the IRAP at a rate of one 4-point composite per 50 cubic yards and analyzed for TPHg, TPHd, and TPHmo by EPA Method 8015M; Title 22 Metals by EPA Method 6010B/7471; and BTEX by EPA Method 8260B. Analytical results will be screened by Ninyo & Moore and if they appear acceptable for reuse at the site per the IRAP cleanup goals, then the results will be submitted to you for your review and approval. The planned area for on-site soil reuse is beneath the building

footprint. If soil is not acceptable for reuse then it will be disposed off-site. Results of the sampling, analysis, and reuse or disposal will be reported in the RACR. Please confirm or provide comments regarding the acceptability of the above. We hope to begin the stockpile sampling on this Wednesday.

Thank you,

Peter D. Sims, LEED AP
Project Environmental Geologist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 343-3000 x15216 (Office)
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psims@ninyoandmoore.com

San Jose office
2149 O'Toole Avenue, Suite 30
San Jose, CA 95131
(408) 435-9000
(408) 435-9006 (Fax)

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38'
18'
159 ft
©2014 Google
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Imagery Date: Jun 10, 2014
lat 37.694702° lon -122.114563° elev 41 ft
Eye alt 589 ft

38' x 18' x 5'

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: 720-61038-1
Client Project/Site: Ashland

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

Attn: Mr. Peter D. Sims

Authorized for release by:
11/10/2014 4:03:20 PM

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

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds 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: 720-61038-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-61038-1

Comments
No additional comments.

Receipt
The samples were received on 11/5/2014 3:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
Method 8260B: SPB-3 (720-61038-3)

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

Metals
Method 6010B: The following sample was diluted due to the abundance of non-target analyte: COMP-B (720-61038-5). 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: 720-61038-1

Client Sample ID: SPB-3 — Lab Sample ID: 720-61038-3

No Detections.

Client Sample ID: COMP-B — Lab Sample ID: 720-61038-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	23		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	5.4		3.8		mg/Kg	4		6010B	Total/NA
Barium	150		1.9		mg/Kg	4		6010B	Total/NA
Chromium	45		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.76		mg/Kg	4		6010B	Total/NA
Copper	33		5.7		mg/Kg	4		6010B	Total/NA
Lead	20		1.9		mg/Kg	4		6010B	Total/NA
Nickel	48		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	43		1.9		mg/Kg	4		6010B	Total/NA
Zinc	72		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.0092		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61038-1

Client Sample ID: SPB-3
Date Collected: 11/05/14 09:22
Date Received: 11/05/14 15:05

Lab Sample ID: 720-61038-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		11/05/14 21:41	11/06/14 05:38	1
Benzene	ND		4.6		ug/Kg		11/05/14 21:41	11/06/14 05:38	1
Ethylbenzene	ND		4.6		ug/Kg		11/05/14 21:41	11/06/14 05:38	1
Toluene	ND		4.6		ug/Kg		11/05/14 21:41	11/06/14 05:38	1
Xylenes, Total	ND		9.2		ug/Kg		11/05/14 21:41	11/06/14 05:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		11/05/14 21:41	11/06/14 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*11/05/14 21:41*	*11/06/14 05:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*11/05/14 21:41*	*11/06/14 05:38*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*11/05/14 21:41*	*11/06/14 05:38*	*1*

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61038-1

Client Sample ID: COMP-B
Date Collected: 11/05/14 09:20
Date Received: 11/05/14 15:05

Lab Sample ID: 720-61038-5
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]	**23**		1.0		mg/Kg		11/06/14 15:30	11/07/14 15:16	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/06/14 15:30	11/07/14 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/06/14 15:30*	*11/07/14 15:16*	*1*
p-Terphenyl	*95*		*38 - 148*	*11/06/14 15:30*	*11/07/14 15:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Arsenic	**5.4**		3.8		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Barium	**150**		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Beryllium	ND		0.38		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Cadmium	ND		0.48		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Chromium	**45**		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Cobalt	**11**		0.76		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Copper	**33**		5.7		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Lead	**20**		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Molybdenum	ND		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Nickel	**48**		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Selenium	ND		3.8		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Silver	ND		0.95		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Thallium	ND		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Vanadium	**43**		1.9		mg/Kg		11/05/14 22:47	11/06/14 17:44	4
Zinc	**72**		5.7		mg/Kg		11/05/14 22:47	11/06/14 17:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.0092		mg/Kg		11/05/14 22:39	11/06/14 13:08	1

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

Lab Sample ID: MB 720-170325/4
Matrix: Solid
Analysis Batch: 170325

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			11/05/14 20:13	1
Benzene	ND		5.0		ug/Kg			11/05/14 20:13	1
Ethylbenzene	ND		5.0		ug/Kg			11/05/14 20:13	1
Toluene	ND		5.0		ug/Kg			11/05/14 20:13	1
Xylenes, Total	ND		10		ug/Kg			11/05/14 20:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/05/14 20:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*		*11/05/14 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*11/05/14 20:13*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*		*11/05/14 20:13*	*1*

Lab Sample ID: LCS 720-170325/5
Matrix: Solid
Analysis Batch: 170325

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	46.2		ug/Kg		92	70 - 144
Benzene	50.0	47.8		ug/Kg		96	70 - 130
Ethylbenzene	50.0	46.5		ug/Kg		93	80 - 137
Toluene	50.0	46.5		ug/Kg		93	80 - 128
m-Xylene & p-Xylene	50.0	46.2		ug/Kg		92	70 - 146
o-Xylene	50.0	46.3		ug/Kg		93	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: LCS 720-170325/7
Matrix: Solid
Analysis Batch: 170325

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	1110		ug/Kg		111	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*94*		*58 - 140*

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

Lab Sample ID: LCSD 720-170325/6
Matrix: Solid
Analysis Batch: 170325

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	47.9		ug/Kg		96	70 - 144	4	20
Benzene			50.0	48.1		ug/Kg		96	70 - 130	1	20
Ethylbenzene			50.0	46.6		ug/Kg		93	80 - 137	0	20
Toluene			50.0	46.9		ug/Kg		94	80 - 128	1	20
m-Xylene & p-Xylene			50.0	46.5		ug/Kg		93	70 - 146	1	20
o-Xylene			50.0	46.8		ug/Kg		94	70 - 140	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-170325/8
Matrix: Solid
Analysis Batch: 170325

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	1060		ug/Kg		106	61 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*93*		*58 - 140*

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

Lab Sample ID: MB 720-170415/1-A
Matrix: Solid
Analysis Batch: 170459

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 170415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/06/14 15:30	11/07/14 20:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/06/14 15:30	11/07/14 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*11/06/14 15:30*	*11/07/14 20:07*	*1*
p-Terphenyl	*103*		*38 - 148*	*11/06/14 15:30*	*11/07/14 20:07*	*1*

Lab Sample ID: LCS 720-170415/2-A
Matrix: Solid
Analysis Batch: 170459

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 170415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.6	60.2		mg/Kg		73	36 - 112		

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

Lab Sample ID: LCS 720-170415/2-A
Matrix: Solid
Analysis Batch: 170459

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 170415

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: 720-61038-5 MS
Matrix: Solid
Analysis Batch: 170458

Client Sample ID: COMP-B
Prep Type: Silica Gel Cleanup
Prep Batch: 170415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	23		82.4	97.9		mg/Kg		90	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*93*		*38 - 148*

Lab Sample ID: 720-61038-5 MSD
Matrix: Solid
Analysis Batch: 170458

Client Sample ID: COMP-B
Prep Type: Silica Gel Cleanup
Prep Batch: 170415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	23		82.1	160	F1 F2	mg/Kg		167	50 - 150	48	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*89*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-170362/1-A
Matrix: Solid
Analysis Batch: 170416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Arsenic	ND		1.0		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Barium	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Beryllium	ND		0.10		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Cadmium	ND		0.13		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Chromium	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Cobalt	ND		0.20		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Copper	ND		1.5		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Lead	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Molybdenum	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Nickel	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Selenium	ND		1.0		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Silver	ND		0.25		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Thallium	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Vanadium	ND		0.50		mg/Kg		11/05/14 22:47	11/06/14 14:40	1
Zinc	ND		1.5		mg/Kg		11/05/14 22:47	11/06/14 14:40	1

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

Lab Sample ID: LCS 720-170362/2-A
Matrix: Solid
Analysis Batch: 170416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Arsenic	50.0	48.5		mg/Kg		97	80 - 120
Barium	50.0	50.1		mg/Kg		100	80 - 120
Beryllium	50.0	49.3		mg/Kg		99	80 - 120
Cadmium	50.0	51.3		mg/Kg		103	80 - 120
Chromium	50.0	52.5		mg/Kg		105	80 - 120
Cobalt	50.0	50.4		mg/Kg		101	80 - 120
Copper	50.0	50.7		mg/Kg		101	80 - 120
Lead	50.0	51.4		mg/Kg		103	80 - 120
Molybdenum	50.0	51.4		mg/Kg		103	80 - 120
Nickel	50.0	51.0		mg/Kg		102	80 - 120
Selenium	50.0	49.2		mg/Kg		98	80 - 120
Silver	25.0	24.0		mg/Kg		96	80 - 120
Thallium	50.0	51.0		mg/Kg		102	80 - 120
Vanadium	50.0	49.2		mg/Kg		98	80 - 120
Zinc	50.0	46.3		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 720-170362/3-A
Matrix: Solid
Analysis Batch: 170416

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	50.0		mg/Kg		100	80 - 120	3	20
Arsenic	50.0	48.6		mg/Kg		97	80 - 120	0	20
Barium	50.0	50.3		mg/Kg		101	80 - 120	0	20
Beryllium	50.0	49.4		mg/Kg		99	80 - 120	0	20
Cadmium	50.0	51.4		mg/Kg		103	80 - 120	0	20
Chromium	50.0	52.7		mg/Kg		105	80 - 120	0	20
Cobalt	50.0	50.5		mg/Kg		101	80 - 120	0	20
Copper	50.0	50.9		mg/Kg		102	80 - 120	0	20
Lead	50.0	51.7		mg/Kg		103	80 - 120	1	20
Molybdenum	50.0	52.0		mg/Kg		104	80 - 120	1	20
Nickel	50.0	51.3		mg/Kg		103	80 - 120	1	20
Selenium	50.0	49.8		mg/Kg		100	80 - 120	1	20
Silver	25.0	23.9		mg/Kg		96	80 - 120	0	20
Thallium	50.0	51.2		mg/Kg		102	80 - 120	0	20
Vanadium	50.0	49.2		mg/Kg		98	80 - 120	0	20
Zinc	50.0	46.4		mg/Kg		93	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-170360/1-A
Matrix: Solid
Analysis Batch: 170406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/05/14 21:57	11/06/14 12:48	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-170360/2-A
Matrix: Solid
Analysis Batch: 170406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.665		mg/Kg		80	80 - 120

Lab Sample ID: LCSD 720-170360/3-A
Matrix: Solid
Analysis Batch: 170406

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 170360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.697		mg/Kg		84	80 - 120	5	20

GC/MS VOA

Analysis Batch: 170325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-3	SPB-3	Total/NA	Solid	8260B/CA_LUFT MS	170354
LCS 720-170325/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-170325/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170325/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-170325/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-170325/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 170354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-3	SPB-3	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 170415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Silica Gel Cleanup	Solid	3546	
720-61038-5 MS	COMP-B	Silica Gel Cleanup	Solid	3546	
720-61038-5 MSD	COMP-B	Silica Gel Cleanup	Solid	3546	
LCS 720-170415/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-170415/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 170458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Silica Gel Cleanup	Solid	8015B	170415
720-61038-5 MS	COMP-B	Silica Gel Cleanup	Solid	8015B	170415
720-61038-5 MSD	COMP-B	Silica Gel Cleanup	Solid	8015B	170415

Analysis Batch: 170459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-170415/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	170415
MB 720-170415/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	170415

Metals

Prep Batch: 170360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Total/NA	Solid	7471A	
LCS 720-170360/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-170360/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-170360/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 170362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Total/NA	Solid	3050B	
LCS 720-170362/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-170362/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 170362 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-170362/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 170406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Total/NA	Solid	7471A	170360
LCS 720-170360/2-A	Lab Control Sample	Total/NA	Solid	7471A	170360
LCSD 720-170360/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	170360
MB 720-170360/1-A	Method Blank	Total/NA	Solid	7471A	170360

Analysis Batch: 170416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-170362/2-A	Lab Control Sample	Total/NA	Solid	6010B	170362
LCSD 720-170362/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	170362
MB 720-170362/1-A	Method Blank	Total/NA	Solid	6010B	170362

Analysis Batch: 170439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-61038-5	COMP-B	Total/NA	Solid	6010B	170362

Lab Chronicle

Client: Ninyo & Moore
Project/Site: Ashland

TestAmerica Job ID: 720-61038-1

Client Sample ID: SPB-3

Lab Sample ID: 720-61038-3

Date Collected: 11/05/14 09:22

Matrix: Solid

Date Received: 11/05/14 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			170354	11/05/14 21:41	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	170325	11/06/14 05:38	ASC	TAL PLS

Client Sample ID: COMP-B

Lab Sample ID: 720-61038-5

Date Collected: 11/05/14 09:20

Matrix: Solid

Date Received: 11/05/14 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			170415	11/06/14 15:30	CJG	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	170458	11/07/14 15:16	JL	TAL PLS
Total/NA	Prep	3050B			170362	11/05/14 22:47	CTD	TAL PLS
Total/NA	Analysis	6010B		4	170439	11/06/14 17:44	SLK	TAL PLS
Total/NA	Prep	7471A			170360	11/05/14 22:39	JCR	TAL PLS
Total/NA	Analysis	7471A		1	170406	11/06/14 13:08	EFH	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: 720-61038-1

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: 720-61038-1

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: 720-61038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-61038-3	SPB-3	Solid	11/05/14 09:22	11/05/14 15:05
720-61038-5	COMP-B	Solid	11/05/14 09:20	11/05/14 15:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-61038

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

Reference #: 157396

Date 11/5/14 Page 1 of 1

11/10/2014

Report To

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

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☒ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Ether	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ 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
SPB-1	11/5/14	0920	Soil	ice				X					X												
SPB-2 (COMP B)	"	0921	"	"				X					X												
SPB-3	"	0922	"	"			X	X					X												
SPB-4	"	0923	"	"				X					X												

720-61038 Chain of Custody

RUSH

Analyze COMP B for TPHd, mo (w/SGC) and Title 22 Metals.

Analyze SPB-3 for TPHg & BTEX

Project Info.

Project Name/ #: Ashland 402090.002
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

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:
Signature: M Terry	Signature: Yadvinder S Bhullar	Signature:
Time: 11/5/14	Time: 1505h	Time:
Printed Name: Melissa Terry	Printed Name:	Printed Name:
Date:	Date: 11/05/14	Date:
Company: Ninyo & Moore	Company: YADVINDER S BHULLAR WCG	Company:

1) Received by:	2) Received by:	3) Received by.
Signature: YADVINDER	Signature: 1505	Signature:
Time:	Time:	Time:
Printed Name:	Printed Name: Mullen	Printed Name:
Date: 11/05/14	Date: 11-5-14	Date:
Company: YADVINDER S BHULLAR WCG	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Ninyo & Moore

Job Number: 720-61038-1

Login Number: 61038

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

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	