

# 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: 720-74011-1

Client Project/Site: Menlo Park Soccer Field Stockpile

For:

Swan Engineering Inc.

4470 Yankee Hill Rd.

Suite 200

Rocklin, California 95677

Attn: Justin Swanson



Authorized for release by:

8/31/2016 3:47:26 PM

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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## Definitions/Glossary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

#### GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

#### GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

#### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

# Case Narrative

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Job ID: 720-74011-1**

**Laboratory: TestAmerica Pleasanton**

## Narrative

### Job Narrative 720-74011-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/18/2016 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 29.4° C.

#### GC/MS VOA

Method(s) 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SAMPLE #01 (720-74011-1) and SAMPLE #02 (720-74011-2). The samples were re-analyzed with concurring results, and the original set of data has been reported.

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 SIM: The following samples was diluted due to the abundance of non-target analytes: SAMPLE #01 (720-74011-1) and SAMPLE #02 (720-74011-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD ) precision for preparation batch 720-208088 and analytical batch 720-208120 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS ) was within acceptance limits.

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

#### GC Semi VOA

Method(s) 8081A: The following samples has clear evidence of the presence of chlordane based on the presence of alpha and gamma chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: SAMPLE #01 (720-74011-1) and SAMPLE #02 (720-74011-2). As a result, there is increased quantitative uncertainty associated with this result.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD, 4,4'-DDT, Dieldrin, Endosulfan II, alpha-Chlordane & gamma-Chlordane for the following samples: SAMPLE #01 (720-74011-1). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD, 4,4'-DDT, Dieldrin, Endosulfan II & alpha-Chlordane for the following samples: SAMPLE #02 (720-74011-2). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: (LCS 720-208239/2-A) and (MB 720-208239/1-A).

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

#### Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 720-207923 and analytical batch 720-208076 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) 6010B: The serial dilution performed for the following sample associated with batch 720-208076 was outside control limits: (720-74011-B-1-C SD)

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analytes Fe, Mn: SAMPLE #02 (720-74011-2). Elevated reporting limits (RLs) are provided.

## Case Narrative

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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### Job ID: 720-74011-1 (Continued)

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#### 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

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

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# Detection Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

Client Sample ID: SAMPLE #01

Lab Sample ID: 720-74011-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	60		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230		150		mg/Kg	3		8015B	Total/NA
Dieldrin	5.8	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	79	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	97		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	8.0	p	2.0		ug/Kg	1		8081A	Total/NA
Endosulfan II	4.7	p	2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	48		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.7	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	2.6	p	2.0		ug/Kg	1		8081A	Total/NA
PCB-1260	410		99		ug/Kg	2		8082	Total/NA
Arsenic	8.6		3.7		mg/Kg	4		6010B	Total/NA
Barium	230		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.37		mg/Kg	4		6010B	Total/NA
Cadmium	0.52		0.46		mg/Kg	4		6010B	Total/NA
Chromium	56		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	13		0.74		mg/Kg	4		6010B	Total/NA
Copper	42		5.6		mg/Kg	4		6010B	Total/NA
Lead	110	F1	1.9		mg/Kg	4		6010B	Total/NA
Nickel	55		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	49		1.9		mg/Kg	4		6010B	Total/NA
Zinc	140		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: SAMPLE #02

Lab Sample ID: 720-74011-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	54		48		ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	49		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg	2		8015B	Total/NA
Dieldrin	4.5	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	56	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	72		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	12	p	2.0		ug/Kg	1		8081A	Total/NA
Endosulfan II	4.1	p	2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	41		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.1	p	2.0		ug/Kg	1		8081A	Total/NA
PCB-1260	440		99		ug/Kg	2		8082	Total/NA
Arsenic	8.3		2.9		mg/Kg	4		6010B	Total/NA
Barium	220		1.4		mg/Kg	4		6010B	Total/NA
Beryllium	0.33		0.29		mg/Kg	4		6010B	Total/NA
Cadmium	0.59		0.36		mg/Kg	4		6010B	Total/NA
Chromium	60		1.4		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.57		mg/Kg	4		6010B	Total/NA
Copper	54		4.3		mg/Kg	4		6010B	Total/NA
Lead	150		1.4		mg/Kg	4		6010B	Total/NA
Nickel	53		1.4		mg/Kg	4		6010B	Total/NA
Vanadium	48		1.4		mg/Kg	4		6010B	Total/NA
Zinc	880		4.3		mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.0085		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #01**

**Lab Sample ID: 720-74011-1**

**Date Collected: 08/18/16 16:55**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Acetone	ND		50		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Benzene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Bromobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chlorobromomethane	ND		20		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Bromoform	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Bromomethane	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
2-Butanone (MEK)	ND		50		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
n-Butylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
sec-Butylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
tert-Butylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Carbon disulfide	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chlorobenzene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chloroethane	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chloroform	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chloromethane	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
2-Chlorotoluene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
4-Chlorotoluene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2-Dichlorobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,3-Dichlorobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,4-Dichlorobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Dibromomethane	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Ethylbenzene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Hexachlorobutadiene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
2-Hexanone	ND		50		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Isopropylbenzene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
4-Isopropyltoluene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Methylene Chloride	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Naphthalene	ND	*	10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
N-Propylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Styrene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1

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# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #01**

**Lab Sample ID: 720-74011-1**

**Date Collected: 08/18/16 16:55**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

## 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	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Tetrachloroethene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Toluene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2,3-Trichlorobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2,4-Trichlorobenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Trichloroethene	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2,3-Trichloropropane	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,2,4-Trimethylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
1,3,5-Trimethylbenzene	ND	*	5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Vinyl acetate	ND		20		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Vinyl chloride	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Xylenes, Total	ND		10		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg		08/22/16 20:22	08/24/16 15:52	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	73		45 - 131	08/22/16 20:22	08/24/16 15:52	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	08/22/16 20:22	08/24/16 15:52	1
Toluene-d8 (Surr)	91		58 - 140	08/22/16 20:22	08/24/16 15:52	1

## Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Acenaphthylene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Benzo[a]anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Benzo[a]pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Benzo[b]fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Benzo[g,h,i]perylene	ND	F2	40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Benzo[k]fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Chrysene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Dibenz(a,h)anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Fluorene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Indeno[1,2,3-cd]pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Naphthalene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Phenanthrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4
Pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:11	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	82		33 - 120	08/23/16 13:01	08/23/16 21:11	4
Terphenyl-d14	77		35 - 146	08/23/16 13:01	08/23/16 21:11	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	60		3.0		mg/Kg		08/24/16 14:49	08/25/16 19:30	3

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #01**

**Lab Sample ID: 720-74011-1**

**Date Collected: 08/18/16 16:55**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	230		150		mg/Kg		08/24/16 14:49	08/25/16 19:30	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	55		40 - 130				08/24/16 14:49	08/25/16 19:30	3

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Dieldrin	5.8	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
4,4'-DDT	79	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
4,4'-DDE	97		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
4,4'-DDD	8.0	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endosulfan II	4.7	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Chlordane (technical)	48		40		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
alpha-Chlordane	3.7	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
gamma-Chlordane	2.6	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		57 - 122				08/25/16 10:16	08/29/16 11:47	1
DCB Decachlorobiphenyl	96		21 - 136				08/25/16 10:16	08/29/16 11:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1221	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1232	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1242	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1248	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1254	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
PCB-1260	410		99		ug/Kg		08/25/16 09:51	08/26/16 11:39	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	87		45 - 132				08/25/16 09:51	08/26/16 11:39	2
DCB Decachlorobiphenyl	87		42 - 146				08/25/16 09:51	08/26/16 11:39	2

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #01**

**Lab Sample ID: 720-74011-1**

**Date Collected: 08/18/16 16:55**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Arsenic	8.6		3.7		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Barium	230		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Beryllium	0.37		0.37		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Cadmium	0.52		0.46		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Chromium	56		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Cobalt	13		0.74		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Copper	42		5.6		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Lead	110	F1	1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Molybdenum	ND		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Nickel	55		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Selenium	ND		3.7		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Silver	ND		0.93		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Thallium	ND		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Vanadium	49		1.9		mg/Kg		08/19/16 10:30	08/22/16 19:58	4
Zinc	140		5.6		mg/Kg		08/19/16 10:30	08/22/16 19:58	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.0086		mg/Kg		08/19/16 11:46	08/23/16 12:17	1

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #02**

**Lab Sample ID: 720-74011-2**

**Date Collected: 08/18/16 16:20**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Acetone	54		48		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Benzene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Bromobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chlorobromomethane	ND		19		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Bromoform	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Bromomethane	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
2-Butanone (MEK)	ND		48		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Carbon disulfide	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chlorobenzene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chloroethane	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chloroform	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chloromethane	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Dibromomethane	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Ethylbenzene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
2-Hexanone	ND		48		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Isopropylbenzene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Methylene Chloride	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Naphthalene	ND	*	9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Styrene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

Client Sample ID: **SAMPLE #02**

Lab Sample ID: **720-74011-2**

Date Collected: 08/18/16 16:20

Matrix: Solid

Date Received: 08/18/16 17:15

## 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	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Tetrachloroethene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Toluene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Trichloroethene	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Vinyl acetate	ND		19		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Vinyl chloride	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Xylenes, Total	ND		9.7		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
Gasoline Range Organics (GRO)	ND		240		ug/Kg		08/22/16 20:22	08/24/16 16:21	1
-C5-C12									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	74		45 - 131	08/22/16 20:22	08/24/16 16:21	1
1,2-Dichloroethane-d4 (Surr)	116		60 - 140	08/22/16 20:22	08/24/16 16:21	1
Toluene-d8 (Surr)	89		58 - 140	08/22/16 20:22	08/24/16 16:21	1

## Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Acenaphthylene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Benzo[a]anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Benzo[a]pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Benzo[b]fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Benzo[g,h,i]perylene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Benzo[k]fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Chrysene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Dibenz(a,h)anthracene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Fluoranthene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Fluorene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Indeno[1,2,3-cd]pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Naphthalene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Phenanthrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4
Pyrene	ND		40		ug/Kg		08/23/16 13:01	08/23/16 21:35	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	79		33 - 120	08/23/16 13:01	08/23/16 21:35	4
Terphenyl-d14	76		35 - 146	08/23/16 13:01	08/23/16 21:35	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	49		2.0		mg/Kg		08/24/16 14:49	08/25/16 20:00	2

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Client Sample ID: SAMPLE #02

Lab Sample ID: 720-74011-2

Date Collected: 08/18/16 16:20

Matrix: Solid

Date Received: 08/18/16 17:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg		08/24/16 14:49	08/25/16 20:00	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	49		40 - 130				08/24/16 14:49	08/25/16 20:00	2

### Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Dieldrin	4.5	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
4,4'-DDT	56	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
4,4'-DDE	72		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
4,4'-DDD	12	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endosulfan II	4.1	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Chlordane (technical)	41		40		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
alpha-Chlordane	3.1	p	2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/29/16 12:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		57 - 122				08/25/16 10:16	08/29/16 12:05	1
DCB Decachlorobiphenyl	101		21 - 136				08/25/16 10:16	08/29/16 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1221	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1232	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1242	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1248	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1254	ND		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
PCB-1260	440		99		ug/Kg		08/25/16 09:51	08/26/16 11:56	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		45 - 132				08/25/16 09:51	08/26/16 11:56	2
DCB Decachlorobiphenyl	86		42 - 146				08/25/16 09:51	08/26/16 11:56	2

TestAmerica Pleasanton

# Client Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #02**

**Lab Sample ID: 720-74011-2**

**Date Collected: 08/18/16 16:20**

**Matrix: Solid**

**Date Received: 08/18/16 17:15**

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Arsenic	8.3		2.9		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Barium	220		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Beryllium	0.33		0.29		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Cadmium	0.59		0.36		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Chromium	60		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Cobalt	12		0.57		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Copper	54		4.3		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Lead	150		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Molybdenum	ND		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Nickel	53		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Selenium	ND		2.9		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Silver	ND		0.71		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Thallium	ND		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Vanadium	48		1.4		mg/Kg		08/19/16 10:30	08/22/16 20:03	4
Zinc	880		4.3		mg/Kg		08/19/16 10:30	08/22/16 20:03	4

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.0085		mg/Kg		08/19/16 11:46	08/23/16 12:20	1

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: MB 720-208127/4

Matrix: Solid

Analysis Batch: 208127

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			08/24/16 08:32	1
Acetone	ND		50		ug/Kg			08/24/16 08:32	1
Benzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/24/16 08:32	1
Bromobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Chlorobromomethane	ND		20		ug/Kg			08/24/16 08:32	1
Bromoform	ND		5.0		ug/Kg			08/24/16 08:32	1
Bromomethane	ND		10		ug/Kg			08/24/16 08:32	1
2-Butanone (MEK)	ND		50		ug/Kg			08/24/16 08:32	1
n-Butylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Carbon disulfide	ND		5.0		ug/Kg			08/24/16 08:32	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/24/16 08:32	1
Chlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Chloroethane	ND		10		ug/Kg			08/24/16 08:32	1
Chloroform	ND		5.0		ug/Kg			08/24/16 08:32	1
Chloromethane	ND		10		ug/Kg			08/24/16 08:32	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/24/16 08:32	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/24/16 08:32	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			08/24/16 08:32	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/24/16 08:32	1
Dibromomethane	ND		10		ug/Kg			08/24/16 08:32	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/24/16 08:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/24/16 08:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/24/16 08:32	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/24/16 08:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/24/16 08:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/24/16 08:32	1
Ethylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/24/16 08:32	1
2-Hexanone	ND		50		ug/Kg			08/24/16 08:32	1
Isopropylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/24/16 08:32	1
Methylene Chloride	ND		10		ug/Kg			08/24/16 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/24/16 08:32	1
Naphthalene	ND		10		ug/Kg			08/24/16 08:32	1
N-Propylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Styrene	ND		5.0		ug/Kg			08/24/16 08:32	1

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: MB 720-208127/4

Matrix: Solid

Analysis Batch: 208127

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
Tetrachloroethene	ND		5.0		ug/Kg			08/24/16 08:32	1
Toluene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
Trichloroethene	ND		5.0		ug/Kg			08/24/16 08:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/24/16 08:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/24/16 08:32	1
Vinyl acetate	ND		20		ug/Kg			08/24/16 08:32	1
Vinyl chloride	ND		5.0		ug/Kg			08/24/16 08:32	1
Xylenes, Total	ND		10		ug/Kg			08/24/16 08:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/24/16 08:32	1
Gasoline Range Organics (GRO)	ND		250		ug/Kg			08/24/16 08:32	1
-C5-C12									

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131		08/24/16 08:32	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		08/24/16 08:32	1
Toluene-d8 (Surr)	99		58 - 140		08/24/16 08:32	1

Lab Sample ID: LCS 720-208127/5

Matrix: Solid

Analysis Batch: 208127

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	57.2		ug/Kg		114	70 - 144
Acetone	250	247		ug/Kg		99	30 - 162
Benzene	50.0	54.7		ug/Kg		109	70 - 130
Dichlorobromomethane	50.0	56.0		ug/Kg		112	70 - 140
Bromobenzene	50.0	47.5		ug/Kg		95	70 - 130
Chlorobromomethane	50.0	50.9		ug/Kg		102	70 - 130
Bromoform	50.0	49.2		ug/Kg		98	59 - 158
Bromomethane	50.0	48.6		ug/Kg		97	59 - 132
2-Butanone (MEK)	250	232		ug/Kg		93	53 - 133
n-Butylbenzene	50.0	53.0		ug/Kg		106	70 - 142
sec-Butylbenzene	50.0	52.2		ug/Kg		104	70 - 136
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 130
Carbon disulfide	50.0	55.0		ug/Kg		110	60 - 140
Carbon tetrachloride	50.0	62.6		ug/Kg		125	70 - 142
Chlorobenzene	50.0	47.9		ug/Kg		96	70 - 130
Chloroethane	50.0	51.7		ug/Kg		103	65 - 130
Chloroform	50.0	53.4		ug/Kg		107	77 - 127

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: LCS 720-208127/5

Matrix: Solid

Analysis Batch: 208127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	59.0		ug/Kg		118	55 - 140
2-Chlorotoluene	50.0	52.1		ug/Kg		104	70 - 138
4-Chlorotoluene	50.0	52.2		ug/Kg		104	70 - 136
Chlorodibromomethane	50.0	52.1		ug/Kg		104	70 - 146
1,2-Dichlorobenzene	50.0	48.0		ug/Kg		96	70 - 130
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 131
1,4-Dichlorobenzene	50.0	47.8		ug/Kg		96	70 - 130
1,3-Dichloropropane	50.0	53.0		ug/Kg		106	70 - 140
1,1-Dichloropropene	50.0	55.5		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/Kg		95	60 - 145
Ethylene Dibromide	50.0	54.2		ug/Kg		108	70 - 140
Dibromomethane	50.0	54.3		ug/Kg		109	70 - 139
Dichlorodifluoromethane	50.0	54.5		ug/Kg		109	37 - 158
1,1-Dichloroethane	50.0	55.3		ug/Kg		111	70 - 130
1,2-Dichloroethane	50.0	56.2		ug/Kg		112	70 - 130
1,1-Dichloroethene	50.0	50.4		ug/Kg		101	74 - 122
cis-1,2-Dichloroethene	50.0	57.0		ug/Kg		114	70 - 138
trans-1,2-Dichloroethene	50.0	54.4		ug/Kg		109	67 - 130
1,2-Dichloropropane	50.0	57.6		ug/Kg		115	73 - 127
cis-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	68 - 147
trans-1,3-Dichloropropene	50.0	55.5		ug/Kg		111	70 - 155
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 137
Hexachlorobutadiene	50.0	46.8		ug/Kg		94	70 - 132
2-Hexanone	250	267		ug/Kg		107	44 - 133
Isopropylbenzene	50.0	51.4		ug/Kg		103	70 - 130
4-Isopropyltoluene	50.0	50.2		ug/Kg		100	70 - 133
Methylene Chloride	50.0	52.8		ug/Kg		106	70 - 134
4-Methyl-2-pentanone (MIBK)	250	275		ug/Kg		110	60 - 160
Naphthalene	50.0	47.5		ug/Kg		95	60 - 147
N-Propylbenzene	50.0	54.0		ug/Kg		108	70 - 130
Styrene	50.0	49.3		ug/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.1		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	50.1		ug/Kg		100	70 - 132
Toluene	50.0	49.9		ug/Kg		100	75 - 120
1,2,3-Trichlorobenzene	50.0	43.8		ug/Kg		88	60 - 140
1,2,4-Trichlorobenzene	50.0	46.2		ug/Kg		92	60 - 140
1,1,1-Trichloroethane	50.0	59.3		ug/Kg		119	70 - 130
1,1,2-Trichloroethane	50.0	55.0		ug/Kg		110	70 - 130
Trichloroethene	50.0	51.3		ug/Kg		103	70 - 133
Trichlorofluoromethane	50.0	56.7		ug/Kg		113	60 - 140
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/Kg		103	60 - 140
1,2,4-Trimethylbenzene	50.0	51.5		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 131
Vinyl acetate	50.0	74.8		ug/Kg		150	38 - 176
Vinyl chloride	50.0	48.6		ug/Kg		97	58 - 125

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: LCS 720-208127/5

Matrix: Solid

Analysis Batch: 208127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	50.7		ug/Kg		101	70 - 146
o-Xylene	50.0	49.9		ug/Kg		100	70 - 140
2,2-Dichloropropane	50.0	67.8		ug/Kg		136	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	101		60 - 140
Toluene-d8 (Surr)	100		58 - 140

Lab Sample ID: LCS 720-208127/7

Matrix: Solid

Analysis Batch: 208127

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)	1000	1140		ug/Kg		114	61 - 128
-C5-C12							

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Lab Sample ID: LCSD 720-208127/6

Matrix: Solid

Analysis Batch: 208127

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	60.3		ug/Kg		121	70 - 144	5	20
Acetone	250	261		ug/Kg		105	30 - 162	6	30
Benzene	50.0	54.5		ug/Kg		109	70 - 130	0	20
Dichlorobromomethane	50.0	57.3		ug/Kg		115	70 - 140	2	20
Bromobenzene	50.0	47.9		ug/Kg		96	70 - 130	1	20
Chlorobromomethane	50.0	51.5		ug/Kg		103	70 - 130	1	20
Bromoform	50.0	50.9		ug/Kg		102	59 - 158	3	20
Bromomethane	50.0	47.3		ug/Kg		95	59 - 132	3	20
2-Butanone (MEK)	250	250		ug/Kg		100	53 - 133	8	20
n-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 142	2	20
sec-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 136	2	20
tert-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 130	2	20
Carbon disulfide	50.0	53.4		ug/Kg		107	60 - 140	3	20
Carbon tetrachloride	50.0	61.6		ug/Kg		123	70 - 142	2	20
Chlorobenzene	50.0	47.6		ug/Kg		95	70 - 130	0	20
Chloroethane	50.0	50.0		ug/Kg		100	65 - 130	3	20
Chloroform	50.0	53.6		ug/Kg		107	77 - 127	0	20
Chloromethane	50.0	57.1		ug/Kg		114	55 - 140	3	20
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 138	1	20
4-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 136	2	20
Chlorodibromomethane	50.0	54.7		ug/Kg		109	70 - 146	5	20

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: LCSD 720-208127/6

Matrix: Solid

Analysis Batch: 208127

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
1,2-Dichlorobenzene	50.0	48.5		ug/Kg		97	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.9		ug/Kg		96	70 - 131	1	20
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 130	0	20
1,3-Dichloropropane	50.0	54.6		ug/Kg		109	70 - 140	3	20
1,1-Dichloropropene	50.0	54.7		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/Kg		99	60 - 145	4	20
Ethylene Dibromide	50.0	56.3		ug/Kg		113	70 - 140	4	20
Dibromomethane	50.0	56.0		ug/Kg		112	70 - 139	3	20
Dichlorodifluoromethane	50.0	53.3		ug/Kg		107	37 - 158	2	20
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	70 - 130	0	20
1,2-Dichloroethane	50.0	58.4		ug/Kg		117	70 - 130	4	20
1,1-Dichloroethene	50.0	48.3		ug/Kg		97	74 - 122	4	20
cis-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	67 - 130	2	20
1,2-Dichloropropane	50.0	58.2		ug/Kg		116	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	58.0		ug/Kg		116	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 155	2	20
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 137	2	20
Hexachlorobutadiene	50.0	46.0		ug/Kg		92	70 - 132	2	20
2-Hexanone	250	295		ug/Kg		118	44 - 133	10	20
Isopropylbenzene	50.0	50.2		ug/Kg		100	70 - 130	2	20
4-Isopropyltoluene	50.0	49.1		ug/Kg		98	70 - 133	2	20
Methylene Chloride	50.0	53.0		ug/Kg		106	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	298		ug/Kg		119	60 - 160	8	20
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147	8	20
N-Propylbenzene	50.0	52.9		ug/Kg		106	70 - 130	2	20
Styrene	50.0	49.2		ug/Kg		98	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	50.0	53.4		ug/Kg		107	70 - 146	5	20
Tetrachloroethene	50.0	49.5		ug/Kg		99	70 - 132	1	20
Toluene	50.0	48.4		ug/Kg		97	75 - 120	3	20
1,2,3-Trichlorobenzene	50.0	47.2		ug/Kg		94	60 - 140	8	20
1,2,4-Trichlorobenzene	50.0	48.3		ug/Kg		97	60 - 140	5	20
1,1,1-Trichloroethane	50.0	58.6		ug/Kg		117	70 - 130	1	20
1,1,2-Trichloroethane	50.0	56.6		ug/Kg		113	70 - 130	3	20
Trichloroethene	50.0	50.4		ug/Kg		101	70 - 133	2	20
Trichlorofluoromethane	50.0	55.8		ug/Kg		112	60 - 140	2	20
1,2,3-Trichloropropane	50.0	53.0		ug/Kg		106	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.9		ug/Kg		98	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 131	2	20
Vinyl acetate	50.0	79.7		ug/Kg		159	38 - 176	6	20
Vinyl chloride	50.0	46.5		ug/Kg		93	58 - 125	4	20
m-Xylene & p-Xylene	50.0	49.6		ug/Kg		99	70 - 146	2	20
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140	1	20
2,2-Dichloropropane	50.0	67.7		ug/Kg		135	70 - 162	0	20

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: LCSD 720-208127/6

Matrix: Solid

Analysis Batch: 208127

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Lab Sample ID: LCSD 720-208127/8

Matrix: Solid

Analysis Batch: 208127

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)	1000	1120		ug/Kg		112	61 - 128	2	20
-C5-C12									

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	107		60 - 140
Toluene-d8 (Surr)	101		58 - 140

## Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-208088/1-A

Matrix: Solid

Analysis Batch: 208120

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Acenaphthylene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Anthracene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Benzo[a]anthracene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Benzo[a]pyrene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Chrysene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Fluoranthene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Fluorene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Naphthalene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Phenanthrene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1
Pyrene	ND		5.0		ug/Kg		08/23/16 13:01	08/23/16 19:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	87		33 - 120	08/23/16 13:01	08/23/16 19:36	1
Terphenyl-d14	87		35 - 146	08/23/16 13:01	08/23/16 19:36	1

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-208088/2-A

Matrix: Solid

Analysis Batch: 208120

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	262		ug/Kg		79	43 - 120
Acenaphthylene	333	276		ug/Kg		83	46 - 120
Anthracene	333	289		ug/Kg		87	55 - 120
Benzo[a]anthracene	333	291		ug/Kg		87	65 - 120
Benzo[a]pyrene	333	316		ug/Kg		95	62 - 120
Benzo[b]fluoranthene	333	291		ug/Kg		87	60 - 120
Benzo[g,h,i]perylene	333	280		ug/Kg		84	42 - 120
Benzo[k]fluoranthene	333	309		ug/Kg		93	63 - 120
Chrysene	333	288		ug/Kg		86	54 - 120
Dibenz(a,h)anthracene	333	283		ug/Kg		85	51 - 120
Fluoranthene	333	307		ug/Kg		92	59 - 120
Fluorene	333	269		ug/Kg		81	47 - 120
Indeno[1,2,3-cd]pyrene	333	285		ug/Kg		85	50 - 120
Naphthalene	333	261		ug/Kg		78	42 - 120
Phenanthrene	333	280		ug/Kg		84	51 - 120
Pyrene	333	290		ug/Kg		87	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		33 - 120
Terphenyl-d14	83		35 - 146

Lab Sample ID: 720-74011-1 MS

Matrix: Solid

Analysis Batch: 208120

Client Sample ID: SAMPLE #01

Prep Type: Total/NA

Prep Batch: 208088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		333	264		ug/Kg		79	33 - 120
Acenaphthylene	ND		333	266		ug/Kg		80	28 - 120
Anthracene	ND		333	284		ug/Kg		85	36 - 120
Benzo[a]anthracene	ND		333	306		ug/Kg		92	29 - 120
Benzo[a]pyrene	ND		333	310		ug/Kg		90	24 - 120
Benzo[b]fluoranthene	ND		333	292		ug/Kg		82	17 - 132
Benzo[g,h,i]perylene	ND	F2	333	277		ug/Kg		83	21 - 120
Benzo[k]fluoranthene	ND		333	268		ug/Kg		81	35 - 120
Chrysene	ND		333	313		ug/Kg		91	29 - 120
Dibenz(a,h)anthracene	ND		333	294		ug/Kg		88	36 - 120
Fluoranthene	ND		333	318		ug/Kg		93	24 - 120
Fluorene	ND		333	265		ug/Kg		80	35 - 120
Indeno[1,2,3-cd]pyrene	ND		333	298		ug/Kg		90	20 - 126
Naphthalene	ND		333	257		ug/Kg		77	32 - 120
Phenanthrene	ND		333	287		ug/Kg		86	28 - 120
Pyrene	ND		333	314		ug/Kg		91	24 - 123

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	87		33 - 120
Terphenyl-d14	81		35 - 146

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-74011-1 MSD

Matrix: Solid

Analysis Batch: 208120

Client Sample ID: SAMPLE #01

Prep Type: Total/NA

Prep Batch: 208088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		333	254		ug/Kg		76	33 - 120	4	20
Acenaphthylene	ND		333	260		ug/Kg		78	28 - 120	2	20
Anthracene	ND		333	272		ug/Kg		82	36 - 120	4	20
Benzo[a]anthracene	ND		333	290		ug/Kg		87	29 - 120	6	20
Benzo[a]pyrene	ND		333	289		ug/Kg		84	24 - 120	7	20
Benzo[b]fluoranthene	ND		333	267		ug/Kg		74	17 - 132	9	20
Benzo[g,h,i]perylene	ND	F2	333	217	F2	ug/Kg		65	21 - 120	24	20
Benzo[k]fluoranthene	ND		333	260		ug/Kg		78	35 - 120	3	20
Chrysene	ND		333	286		ug/Kg		83	29 - 120	9	20
Dibenz(a,h)anthracene	ND		333	249		ug/Kg		75	36 - 120	16	20
Fluoranthene	ND		333	295		ug/Kg		86	24 - 120	8	20
Fluorene	ND		333	254		ug/Kg		76	35 - 120	5	20
Indeno[1,2,3-cd]pyrene	ND		333	247		ug/Kg		74	20 - 126	19	20
Naphthalene	ND		333	252		ug/Kg		76	32 - 120	2	20
Phenanthrene	ND		333	262		ug/Kg		79	28 - 120	9	20
Pyrene	ND		333	279		ug/Kg		81	24 - 123	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	80		33 - 120
Terphenyl-d14	76		35 - 146

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

Lab Sample ID: MB 720-208188/1-A

Matrix: Solid

Analysis Batch: 208226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/24/16 14:49	08/25/16 20:59	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/24/16 14:49	08/25/16 20:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	100		40 - 130	08/24/16 14:49	08/25/16 20:59	1

Lab Sample ID: LCS 720-208188/2-A

Matrix: Solid

Analysis Batch: 208226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	74.1		mg/Kg		89	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	95		40 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-208241/1-A

Matrix: Solid

Analysis Batch: 208290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDT	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDE	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDD	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Chlordane (technical)	ND		40		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
alpha-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		57 - 122				08/25/16 10:16	08/26/16 03:51	1
DCB Decachlorobiphenyl	117		21 - 136				08/25/16 10:16	08/26/16 03:51	1

Lab Sample ID: LCS 720-208241/2-A

Matrix: Solid

Analysis Batch: 208290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.9		ug/Kg		90	65 - 120
Dieldrin	16.7	17.7		ug/Kg		106	72 - 120
Endrin aldehyde	16.7	16.8		ug/Kg		101	68 - 120
Endrin	16.7	17.8		ug/Kg		107	68 - 120
Endrin ketone	16.7	20.4		ug/Kg		122	84 - 133
Heptachlor	16.7	16.4		ug/Kg		98	69 - 120
Heptachlor epoxide	16.7	17.6		ug/Kg		105	68 - 120
4,4'-DDT	16.7	18.2		ug/Kg		109	63 - 127
4,4'-DDE	16.7	18.1		ug/Kg		109	84 - 126
4,4'-DDD	16.7	19.1		ug/Kg		115	85 - 128
Endosulfan I	16.7	17.6		ug/Kg		106	62 - 120
Endosulfan II	16.7	18.4		ug/Kg		111	65 - 120
alpha-BHC	16.7	16.2		ug/Kg		97	62 - 120
beta-BHC	16.7	19.1		ug/Kg		114	78 - 136
gamma-BHC (Lindane)	16.7	16.6		ug/Kg		100	72 - 120
delta-BHC	16.7	15.0		ug/Kg		90	43 - 125

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-208241/2-A

Matrix: Solid

Analysis Batch: 208290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	18.3		ug/Kg		110	74 - 121
Methoxychlor	16.7	19.5		ug/Kg		117	71 - 132
alpha-Chlordane	16.7	17.2		ug/Kg		103	70 - 120
gamma-Chlordane	16.7	16.9		ug/Kg		102	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		57 - 122
DCB Decachlorobiphenyl	117		21 - 136

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

Lab Sample ID: MB 720-208239/1-A

Matrix: Solid

Analysis Batch: 208232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 208239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		45 - 132	08/25/16 09:51	08/25/16 21:00	1
DCB Decachlorobiphenyl	88		42 - 146	08/25/16 09:51	08/25/16 21:00	1

Lab Sample ID: LCS 720-208239/2-A

Matrix: Solid

Analysis Batch: 208232

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 208239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	133	111		ug/Kg		83	65 - 121
PCB-1260	133	124		ug/Kg		93	68 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		45 - 132
DCB Decachlorobiphenyl	98		42 - 146

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-207923/1-A

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 207923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Arsenic	ND		1.0		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Barium	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Beryllium	ND		0.10		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Cadmium	ND		0.13		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Chromium	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Cobalt	ND		0.20		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Copper	ND		1.5		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Lead	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Molybdenum	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Nickel	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Selenium	ND		1.0		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Silver	ND		0.25		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Thallium	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Vanadium	ND		0.50		mg/Kg		08/19/16 10:30	08/22/16 19:14	1
Zinc	ND		1.5		mg/Kg		08/19/16 10:30	08/22/16 19:14	1

Lab Sample ID: LCS 720-207923/2-A

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	50.0	49.1		mg/Kg		98	80 - 120
Beryllium	50.0	46.2		mg/Kg		92	80 - 120
Cadmium	50.0	48.5		mg/Kg		97	80 - 120
Chromium	50.0	49.5		mg/Kg		99	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	49.7		mg/Kg		99	80 - 120
Lead	50.0	49.1		mg/Kg		98	80 - 120
Molybdenum	50.0	50.2		mg/Kg		100	80 - 120
Nickel	50.0	49.5		mg/Kg		99	80 - 120
Selenium	50.0	46.8		mg/Kg		94	80 - 120
Silver	25.0	24.6		mg/Kg		98	80 - 120
Thallium	50.0	49.7		mg/Kg		99	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	48.7		mg/Kg		97	80 - 120

Lab Sample ID: LCSSRM 720-207923/3-A

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	38.0		mg/Kg		51	11 - 101
Arsenic	45.5	42.8		mg/Kg		94	69 - 119
Barium	579	502		mg/Kg		87	61 - 117
Beryllium	155	132		mg/Kg		85	56 - 102

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: LCSSRM 720-207923/3-A

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	201	180		mg/Kg		90	67 - 118
Chromium	106	98.1		mg/Kg		93	67 - 121
Cobalt	247	231		mg/Kg		94	64 - 133
Copper	130	122		mg/Kg		94	68 - 126
Lead	302	266		mg/Kg		88	62 - 113
Molybdenum	165	150		mg/Kg		91	62 - 128
Nickel	305	280		mg/Kg		92	65 - 117
Selenium	133	123		mg/Kg		93	63 - 126
Silver	33.5	31.3		mg/Kg		93	51 - 130
Thallium	191	173		mg/Kg		91	64 - 124
Vanadium	214	199		mg/Kg		93	67 - 123
Zinc	388	344		mg/Kg		89	62 - 110

Lab Sample ID: 720-74011-1 MS

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: SAMPLE #01

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	46.7	13.5	F1	mg/Kg		29	75 - 125
Arsenic	8.6		46.7	51.3		mg/Kg		91	75 - 125
Barium	230		46.7	293	4	mg/Kg		136	75 - 125
Beryllium	0.37		46.7	43.9		mg/Kg		93	75 - 125
Cadmium	0.52		46.7	44.5		mg/Kg		94	75 - 125
Chromium	56		46.7	103		mg/Kg		101	75 - 125
Cobalt	13		46.7	57.6		mg/Kg		96	75 - 125
Copper	42		46.7	89.8		mg/Kg		102	75 - 125
Lead	110	F1	46.7	146	F1	mg/Kg		72	75 - 125
Molybdenum	ND		46.7	40.8		mg/Kg		85	75 - 125
Nickel	55		46.7	99.7		mg/Kg		96	75 - 125
Selenium	ND		46.7	41.7		mg/Kg		89	75 - 125
Silver	ND		23.4	23.1		mg/Kg		99	75 - 125
Thallium	ND		46.7	42.6		mg/Kg		91	75 - 125
Vanadium	49		46.7	95.2		mg/Kg		100	75 - 125
Zinc	140		46.7	195		mg/Kg		116	75 - 125

Lab Sample ID: 720-74011-1 MSD

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: SAMPLE #01

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	ND	F1	47.6	13.8	F1	mg/Kg		29	75 - 125	2	20
Arsenic	8.6		47.6	51.8		mg/Kg		91	75 - 125	1	20
Barium	230		47.6	284	4	mg/Kg		115	75 - 125	3	20
Beryllium	0.37		47.6	44.3		mg/Kg		92	75 - 125	1	20
Cadmium	0.52		47.6	44.6		mg/Kg		93	75 - 125	0	20
Chromium	56		47.6	100		mg/Kg		93	75 - 125	3	20
Cobalt	13		47.6	57.0		mg/Kg		93	75 - 125	1	20
Copper	42		47.6	87.7		mg/Kg		95	75 - 125	2	20
Lead	110	F1	47.6	136	F1	mg/Kg		50	75 - 125	7	20

TestAmerica Pleasanton

# QC Sample Results

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

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

Lab Sample ID: 720-74011-1 MSD

Matrix: Solid

Analysis Batch: 208076

Client Sample ID: SAMPLE #01

Prep Type: Total/NA

Prep Batch: 207923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		47.6	40.5		mg/Kg		83	75 - 125	1	20
Nickel	55		47.6	97.8		mg/Kg		91	75 - 125	2	20
Selenium	ND		47.6	41.8		mg/Kg		88	75 - 125	0	20
Silver	ND		23.8	23.3		mg/Kg		98	75 - 125	1	20
Thallium	ND		47.6	43.2		mg/Kg		91	75 - 125	1	20
Vanadium	49		47.6	92.7		mg/Kg		93	75 - 125	3	20
Zinc	140		47.6	186		mg/Kg		96	75 - 125	4	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-207852/1-A

Matrix: Solid

Analysis Batch: 208084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 207852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/18/16 12:15	08/23/16 10:54	1

Lab Sample ID: LCS 720-207852/2-A

Matrix: Solid

Analysis Batch: 208084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 207852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.799		mg/Kg		96	80 - 120

TestAmerica Pleasanton

# QC Association Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## GC/MS VOA

### Prep Batch: 208050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	5030B	
720-74011-2	SAMPLE #02	Total/NA	Solid	5030B	

### Analysis Batch: 208127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	8260B	208050
720-74011-2	SAMPLE #02	Total/NA	Solid	8260B	208050
MB 720-208127/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-208127/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-208127/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-208127/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-208127/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 208088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	3546	
720-74011-2	SAMPLE #02	Total/NA	Solid	3546	
MB 720-208088/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208088/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-74011-1 MS	SAMPLE #01	Total/NA	Solid	3546	
720-74011-1 MSD	SAMPLE #01	Total/NA	Solid	3546	

### Analysis Batch: 208120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	8270C SIM	208088
720-74011-2	SAMPLE #02	Total/NA	Solid	8270C SIM	208088
MB 720-208088/1-A	Method Blank	Total/NA	Solid	8270C SIM	208088
LCS 720-208088/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	208088
720-74011-1 MS	SAMPLE #01	Total/NA	Solid	8270C SIM	208088
720-74011-1 MSD	SAMPLE #01	Total/NA	Solid	8270C SIM	208088

## GC Semi VOA

### Prep Batch: 208188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	3546	
720-74011-2	SAMPLE #02	Total/NA	Solid	3546	
MB 720-208188/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208188/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 208226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208188/1-A	Method Blank	Total/NA	Solid	8015B	208188
LCS 720-208188/2-A	Lab Control Sample	Total/NA	Solid	8015B	208188

### Analysis Batch: 208227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	8015B	208188

TestAmerica Pleasanton

# QC Association Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

## GC Semi VOA (Continued)

### Analysis Batch: 208227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-2	SAMPLE #02	Total/NA	Solid	8015B	208188

### Analysis Batch: 208232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208239/1-A	Method Blank	Total/NA	Solid	8082	208239
LCS 720-208239/2-A	Lab Control Sample	Total/NA	Solid	8082	208239

### Prep Batch: 208239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	3546	
720-74011-2	SAMPLE #02	Total/NA	Solid	3546	
MB 720-208239/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208239/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Prep Batch: 208241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	3546	
720-74011-2	SAMPLE #02	Total/NA	Solid	3546	
MB 720-208241/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208241/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 208290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208241/1-A	Method Blank	Total/NA	Solid	8081A	208241
LCS 720-208241/2-A	Lab Control Sample	Total/NA	Solid	8081A	208241

### Analysis Batch: 208297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	8082	208239
720-74011-2	SAMPLE #02	Total/NA	Solid	8082	208239

### Analysis Batch: 208386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	8081A	208241
720-74011-2	SAMPLE #02	Total/NA	Solid	8081A	208241

## Metals

### Prep Batch: 207852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	7471A	
720-74011-2	SAMPLE #02	Total/NA	Solid	7471A	
MB 720-207852/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-207852/2-A	Lab Control Sample	Total/NA	Solid	7471A	

### Prep Batch: 207923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	3050B	
720-74011-2	SAMPLE #02	Total/NA	Solid	3050B	
MB 720-207923/1-A	Method Blank	Total/NA	Solid	3050B	

TestAmerica Pleasanton

## QC Association Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

### Metals (Continued)

#### Prep Batch: 207923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-207923/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 720-207923/3-A	Lab Control Sample	Total/NA	Solid	3050B	
720-74011-1 MS	SAMPLE #01	Total/NA	Solid	3050B	
720-74011-1 MSD	SAMPLE #01	Total/NA	Solid	3050B	

#### Analysis Batch: 208076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	6010B	207923
720-74011-2	SAMPLE #02	Total/NA	Solid	6010B	207923
MB 720-207923/1-A	Method Blank	Total/NA	Solid	6010B	207923
LCS 720-207923/2-A	Lab Control Sample	Total/NA	Solid	6010B	207923
LCSSRM 720-207923/3-A	Lab Control Sample	Total/NA	Solid	6010B	207923
720-74011-1 MS	SAMPLE #01	Total/NA	Solid	6010B	207923
720-74011-1 MSD	SAMPLE #01	Total/NA	Solid	6010B	207923

#### Analysis Batch: 208084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74011-1	SAMPLE #01	Total/NA	Solid	7471A	207852
720-74011-2	SAMPLE #02	Total/NA	Solid	7471A	207852
MB 720-207852/1-A	Method Blank	Total/NA	Solid	7471A	207852
LCS 720-207852/2-A	Lab Control Sample	Total/NA	Solid	7471A	207852

# Lab Chronicle

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

**Client Sample ID: SAMPLE #01**

**Date Collected: 08/18/16 16:55**

**Date Received: 08/18/16 17:15**

**Lab Sample ID: 720-74011-1**

**Matrix: Solid**

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	208127	08/24/16 15:52	LPL	TAL PLS
Total/NA	Prep	3546			208088	08/23/16 13:01	BSY	TAL PLS
Total/NA	Analysis	8270C SIM		4	208120	08/23/16 21:11	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		3	208227	08/25/16 19:30	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208386	08/29/16 11:47	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		2	208297	08/26/16 11:39	DCH	TAL PLS
Total/NA	Prep	3050B			207923	08/19/16 10:30	JNG	TAL PLS
Total/NA	Analysis	6010B		4	208076	08/22/16 19:58	ASB	TAL PLS
Total/NA	Prep	7471A			207852	08/19/16 11:46	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208084	08/23/16 12:17	ASB	TAL PLS

**Client Sample ID: SAMPLE #02**

**Date Collected: 08/18/16 16:20**

**Date Received: 08/18/16 17:15**

**Lab Sample ID: 720-74011-2**

**Matrix: Solid**

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	208127	08/24/16 16:21	LPL	TAL PLS
Total/NA	Prep	3546			208088	08/23/16 13:01	BSY	TAL PLS
Total/NA	Analysis	8270C SIM		4	208120	08/23/16 21:35	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		2	208227	08/25/16 20:00	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208386	08/29/16 12:05	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		2	208297	08/26/16 11:56	DCH	TAL PLS
Total/NA	Prep	3050B			207923	08/19/16 10:30	JNG	TAL PLS
Total/NA	Analysis	6010B		4	208076	08/22/16 20:03	ASB	TAL PLS
Total/NA	Prep	7471A			207852	08/19/16 11:46	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208084	08/23/16 12:20	ASB	TAL PLS

## Laboratory References:

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

TestAmerica Pleasanton

## Certification Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

### 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

## Method Summary

Client: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	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: Swan Engineering Inc.  
Project/Site: Menlo Park Soccer Field Stockpile

TestAmerica Job ID: 720-74011-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74011-1	SAMPLE #01	Solid	08/18/16 16:55	08/18/16 17:15
720-74011-2	SAMPLE #02	Solid	08/18/16 16:20	08/18/16 17:15

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# 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

Reference #:

770502

Date

Page

8/31/2016

## Report To

## Analysis Request

Attn: Justin Swenson

Company: Susan Engineering, INC.

Address: 4470 Yankee Hill Dr, Redlin, Ca.

Email: jswenson@suseneinc.com

Bill To: Sampled By:

Phone:

Sample ID: Date Time Mat Preserv

Sample # 01	8/16	4:55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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720-74011 Chain of Custody

## Project Info

## Sample Receipt

Project Name: Mende Tank

Head Space: Soccer Field stockpile

Temp: 29.4°C

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

Signature: Jack Miller Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

See Terms and Conditions on reverse

1) Relinquished by:

Signature: Jack Miller Date: 8/16/16

2) Relinquished by:

Signature: Jack Miller Date: 8/16/16

3) Relinquished by:

Signature: Jack Miller Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Jack Miller Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

Signature: Susan Engineering Date: 8/16/16

## Login Sample Receipt Checklist

Client: Swan Engineering Inc.

Job Number: 720-74011-1

**Login Number: 74011**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Mullen, Joan**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	False	NO ICE
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	