

**APPENDIX H**  
**ENVIRONMENTAL SAMPLING TEST RESULTS**



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Shannon & Wilson  
706 W. Broadway Suite 201  
Glendale, CA 91204-1010

Number of Pages 11  
Date Received 12/05/2011  
Date Reported 12/14/2011

Telephone: (818)543-4560  
Attention: Dean Francuch

Job Number	Order Date	Client
64008	12/05/2011	SH&W

**Project ID:** 51-1-10052-001  
**Project Name:** Paseo Del Mar Landslide  
**Site:** 1600 West Paseo Del Mar  
San Pedro, CA 90732

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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**CHAIN OF CUSTODY RECORD**  
 No: 48811

COMPANY: Shawco & Wilson PROJECT MANAGER: Dean Francuch  
 COMPANY ADDRESS: 664 West Broadway Glendale CA PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Paseo Del Mar Lambdale PROJECT #: 57-1-10052-001  
 SITE NAME: 1600 West Paseo Del Mar PO # \_\_\_\_\_  
 AND ADDRESS: San Pedro, CA

AETL JOB No. 64008 Page 1 of 1

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS
1	B3 S-1	6/08/12/3/11	8:00 AM	SOIL	6" SS	ICE			
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 1 PROPERLY COOLED: Y/N/NA  
 CUSTODY SEALS: Y/N/NA SAMPLES INTACT: Y/N/NA  
 RECEIVED IN GOOD COND.: Y/N SAMPLES ACCEPTED: Y/N

TURN AROUND TIME  
 SAME DAY  48 HRS.  
 24 HRS.  72 HRS.

NORMAL  RUSH

RELINQUISHED BY SAMPLER: 1. Signature: [Signature] Date: 12/5/11 Time: 3:45 PM  
 Signature: [Signature] Date: 12/5/11 Time: 3:45 PM  
 Printed Name: Dean Francuch  
 Signature: [Signature] Date: 12/5/11 Time: 1630  
 Printed Name: Kestik Atyam  
 Signature: [Signature] Date: 12/05/11 Time: 1630  
 Printed Name: [Signature]  
 Signature: [Signature] Date: 12/05/11 Time: 1630  
 Printed Name: [Signature]  
 Signature: [Signature] Date: 12/05/11 Time: 1630  
 Printed Name: [Signature]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Shannon & Wilson  
706 W. Broadway Suite 201  
Glendale, CA 91204-1010

Project ID: 51-1-10052-001  
Date Received 12/05/2011  
Date Reported 12/14/2011

Telephone: (818) 543-4560

Attention: Dean Francuch

Job Number	Order Date	Client
64008	12/05/2011	SH&W

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 12/05/2011.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
64008.01	B-3 S-1	12/03/2011	Soil	1

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Shannon & Wilson  
706 W. Broadway  
Suite 201  
Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Dean Francuch

Page: 2

Project ID: 51-1-10052-001

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1207112A2

Our Lab I.D.			Method Blank	64008.01		
Client Sample I.D.				B-3 S-1		
Date Sampled				12/03/2011		
Date Prepared			12/07/2011	12/07/2011		
Preparation Method			5030	5030		
Date Analyzed			12/07/2011	12/08/2011		
Matrix			Soil	Soil		
Units			ug/Kg	ug/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acetone	25	50	ND	ND		
Benzene	1.0	10.0	ND	ND		
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND		
Bromochloromethane	5.0	10.0	ND	ND		
Bromodichloromethane	5.0	10.0	ND	ND		
Bromoform (Tribromomethane)	25	50	ND	ND		
Bromomethane (Methyl bromide)	15	30	ND	ND		
2-Butanone (MEK)	25	50	ND	ND		
n-Butylbenzene	5.0	10.0	ND	ND		
sec-Butylbenzene	5.0	10.0	ND	ND		
tert-Butylbenzene	5.0	10.0	ND	ND		
Carbon Disulfide	25	50	ND	ND		
Carbon tetrachloride	5.0	10.0	ND	ND		
Chlorobenzene	5.0	10.0	ND	ND		
Chloroethane	15	30	ND	ND		
2-Chloroethyl vinyl ether	50	50	ND	ND		
Chloroform (Trichloromethane)	5.0	10.0	ND	ND		
Chloromethane (Methyl chloride)	15	30	ND	ND		
2-Chlorotoluene	5.0	10.0	ND	ND		
4-Chlorotoluene	5.0	10.0	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND		
Dibromochloromethane	5.0	10.0	ND	ND		
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND		
Dibromomethane	5.0	10.0	ND	ND		
1,2-Dichlorobenzene	5.0	10.0	ND	ND		
1,3-Dichlorobenzene	5.0	10.0	ND	ND		
1,4-Dichlorobenzene	5.0	10.0	ND	ND		



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## ANALYTICAL RESULTS

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Project ID: 51-1-10052-001  
Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1207112A2

Our Lab I.D.			Method Blank	64008.01			
Client Sample I.D.				B-3 S-1			
Date Sampled				12/03/2011			
Date Prepared			12/07/2011	12/07/2011			
Preparation Method			5030	5030			
Date Analyzed			12/07/2011	12/08/2011			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	5.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	5.0	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			



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## ANALYTICAL RESULTS

Page: 4

Project ID: 51-1-10052-001  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1207112A2

<b>Our Lab I.D.</b>			Method Blank	<b>64008.01</b>			
Client Sample I.D.				B-3 S-1			
Date Sampled				12/03/2011			
Date Prepared			12/07/2011	12/07/2011			
Preparation Method			5030	5030			
Date Analyzed			12/07/2011	12/08/2011			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	15	30	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>64008.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		103	103			
Dibromofluoromethane	75-125		113	124			
Toluene-d8	75-125		106	102			



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## ANALYTICAL RESULTS

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### Site

1600 West Paseo Del Mar  
San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Dean Francuch

Page: 5

Project ID: 51-1-10052-001

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 120711JB1

Our Lab I.D.			Method Blank	64008.01		
Client Sample I.D.				B-3 S-1		
Date Sampled				12/03/2011		
Date Prepared			12/07/2011	12/07/2011		
Preparation Method			3550B	3550B		
Date Analyzed			12/07/2011	12/07/2011		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.25	0.50	ND	ND		
Acenaphthylene	0.25	0.50	ND	ND		
Anthracene	0.25	0.50	ND	ND		
Azobenzene	0.25	0.50	ND	ND		
Benzidine	0.25	0.50	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND		
Benzoic Acid	0.25	0.50	ND	ND		
Benzyl Alcohol	0.25	0.50	ND	ND		
Bis(2-Chloroethoxy)methane	0.25	0.50	ND	ND		
Bis(2-Chloroethyl)ether	0.25	0.50	ND	ND		
Bis(2-chloroisopropyl) ether	0.25	0.50	ND	ND		
Bis(2-ethylhexyl) phthalate	0.25	0.50	ND	ND		
4-Bromophenyl phenyl ether	0.25	0.50	ND	ND		
Butyl benzyl phthalate	0.25	0.50	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND		
Chrysene	0.25	0.50	ND	ND		
Di-n-butyl phthalate	0.25	0.50	ND	ND		
Di-n-octyl phthalate (Dioctyl ester)	0.25	0.50	ND	ND		
Dibenzo(a,h)anthracene	0.25	0.50	ND	ND		



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## ANALYTICAL RESULTS

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Project ID: 51-1-10052-001  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 120711JB1

Our Lab I.D.		Method Blank	64008.01			
Client Sample I.D.			B-3 S-1			
Date Sampled			12/03/2011			
Date Prepared		12/07/2011	12/07/2011			
Preparation Method		3550B	3550B			
Date Analyzed		12/07/2011	12/07/2011			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Dibenzofuran	0.25	0.50	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND		
Diethyl phthalate (Diethyl ester)	0.25	0.50	ND	ND		
Dimethyl phthalate (Dimethyl ester)	0.25	0.50	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND		
2,6-Dinitrotoluene (2,6-DNT)	0.25	0.50	ND	ND		
Fluoranthene	0.25	0.50	ND	ND		
Fluorene	0.25	0.50	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND		
Isophorone	0.25	0.50	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND		
4-Methylphenol	0.25	0.50	ND	ND		
2-Methylphenol (2-Cresol)	0.25	0.50	ND	ND		
3-Methylphenol (3-Cresol)	0.25	0.50	ND	ND		
N-Nitroso-Di-n-propylamine	0.25	0.50	ND	ND		
Naphthalene	0.25	0.50	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND		
Nitrobenzene (NB)	0.25	0.50	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND		
2-Nitrophenol (o-Nitrophenol)	0.25	0.50	ND	ND		
N-nitrosodiphenylamine	0.25	0.50	ND	ND		



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## ANALYTICAL RESULTS

Page: 7

Project ID: 51-1-10052-001  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 120711JB1

<b>Our Lab I.D.</b>			Method Blank	<b>64008.01</b>			
Client Sample I.D.				B-3 S-1			
Date Sampled				12/03/2011			
Date Prepared			12/07/2011	12/07/2011			
Preparation Method			3550B	3550B			
Date Analyzed			12/07/2011	12/07/2011			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
Pentachlorophenol	0.25	0.50	ND	ND			
Phenanthrene	0.25	0.50	ND	ND			
Phenol	0.25	0.50	ND	ND			
Pyrene	0.25	0.50	ND	ND			
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND			
2,4,5-Trichlorophenol	0.25	0.50	ND	ND			
2,4,6-Trichlorophenol	0.25	0.50	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>64008.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
2-Fluorophenol	25-121		76.6	65.8			
2-Fluorobiphenyl	30-115		84.8	69.2			
Nitrobenzene-d5	23-120		86.0	70.4			
Phenol-d6	21-113		70.0	61.0			
p-Terphenyl-D14	18-137		103	82.8			
2,4,6-Tribromophenol	19-122		78.6	67.6			



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## QUALITY CONTROL RESULTS

### Ordered By

Shannon & Wilson  
 706 W. Broadway  
 Suite 201  
 Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
 San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Dean Francuch

Page: 8

Project ID: 51-1-10052-001

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1207112A2; Dup or Spiked Sample: B1207112A2; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/08/2011;  
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	43.5	87.0	50.0	45.2	90.4	3.83	75-125	<20
Chlorobenzene	0.00	50.0	39.2	78.4	50.0	40.3	80.6	2.77	75-125	<20
1,1-Dichloroethene	0.00	50.0	49.9	99.8	50.0	51.5	103	3.16	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	39.7	79.4	50.0	41.1	82.2	3.47	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	41.7	83.4	50.0	43.7	87.4	4.68	75-125	<20
Trichloroethene	0.00	50.0	47.0	94.0	50.0	50.5	101	7.18	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	50.0	48.8	97.6	50.0	49.0	98.0	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	61.5	123	50.0	60.5	121	1.63	75-125	<20
Toluene-d8	0.00	50.0	48.2	96.4	50.0	47.8	95.5	<1	75-125	<20

QC Batch No: 1207112A2; Dup or Spiked Sample: B1207112A2; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/08/2011;  
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzene	50.0	55.9	112	75-125						
Chlorobenzene	50.0	52.2	104	75-125						
1,1-Dichloroethene	50.0	57.3	115	75-125						
Methyl-tert-butyl ether (MTBE)	50.0	59.8	120	75-125						
Toluene (Methyl benzene)	50.0	53.4	107	75-125						
Trichloroethene	50.0	54.2	108	75-125						
<b>LCS</b>										
Chloroform (Trichloromethane)	50.0	60.2	120	75-125						
Ethylbenzene	50.0	52.0	104	75-125						
1,1,1-Trichloroethane	50.0	51.9	104	75-125						
o-Xylene	50.0	55.6	111	75-125						
m,p-Xylenes	100	107	107	75-125						
<b>Surrogates</b>										
Bromofluorobenzene	50.0	48.3	96.6	75-125						
Dibromofluoromethane	50.0	59.8	120	75-125						



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## QUALITY CONTROL RESULTS

Page: 9

Project ID: 51-1-10052-001  
Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1207112A2; Dup or Spiked Sample: B1207112A2; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/08/2011;  
Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Toluene-d8	50.0	47.6	95.1	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Shannon & Wilson  
 706 W. Broadway  
 Suite 201  
 Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
 San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Dean Francuch

Page: 10

Project ID: 51-1-10052-001

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 120711JB1; Dup or Spiked Sample: 64008.01; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/07/2011;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	1.72	68.8	2.50	1.71	68.4	<1	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	3.34	66.8	5.00	3.46	69.2	3.5	39-98	<20
2-Chlorophenol	0.00	5.00	3.29	65.8	5.00	3.36	67.2	2.1	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	1.67	66.8	2.50	1.69	67.6	1.2	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.56	62.4	2.50	1.71	68.4	9.2	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	1.88	75.2	2.50	2.07	82.8	9.6	41-116	<20
4-Nitrophenol	0.00	5.00	2.69	53.8	5.00	2.54	50.8	5.7	10-110	<20
Pentachlorophenol	0.00	5.00	3.16	63.2	5.00	3.10	62.0	1.9	40-125	<20
Phenol	0.00	5.00	3.25	65.0	5.00	3.33	66.6	2.4	12-89	<20
Pyrene	0.00	5.00	2.24	44.8	5.00	2.16	43.2	3.6	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	1.72	68.8	2.50	1.72	68.8	<1	39-98	<20
<b>Surrogates</b>										
2-Fluorophenol	0.00	5.00	3.09	61.8	5.00	3.08	61.6	<1	25-121	<20
2-Fluorobiphenyl	0.00	2.50	1.74	69.6	2.50	1.71	68.4	1.7	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.73	69.2	2.50	1.72	68.8	<1	23-120	<20
p-Terphenyl-D14	0.00	2.50	2.17	86.8	2.50	2.06	82.4	5.2	18-137	<20
Phenol-d6	0.00	5.00	3.11	62.2	5.00	3.15	63.0	1.3	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	4.15	83.0	5.00	3.77	75.4	9.6	19-122	<20

QC Batch No: 120711JB1; Dup or Spiked Sample: 64008.01; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/07/2011;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Acenaphthene	2.50	2.05	82.0	31-137
4-Chloro-3-methylphenol	5.00	3.82	76.4	40-99
2-Chlorophenol	5.00	3.88	77.6	25-102
1,4-Dichlorobenzene	2.50	1.98	79.2	28-104
2,4-Dinitrotoluene	2.50	2.04	81.6	28-89
N-Nitroso-Di-n-propylamine	2.50	2.32	92.8	41-126
4-Nitrophenol	5.00	2.88	57.6	11-114



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## QUALITY CONTROL RESULTS

Page: 11

Project ID: 51-1-10052-001  
Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64008	12/05/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 120711JB1; Dup or Spiked Sample: 64008.01; LCS: Clean Sand; QC Prepared: 12/07/2011; QC Analyzed: 12/07/2011;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Pentachlorophenol	5.00	3.60	72.0	17-125						
Phenol	5.00	3.87	77.4	26-90						
Pyrene	5.00	2.58	51.6	35-142						
1,2,4-Trichlorobenzene	2.50	2.03	81.2	38-107						
<b>Surrogates</b>										
2-Fluorophenol	5.00	3.90	78.0	25-121						
2-Fluorobiphenyl	2.50	2.16	86.4	30-115						
Nitrobenzene-d5	2.50	2.15	86.0	23-120						
p-Terphenyl-D14	2.50	2.60	104	18-137						
Phenol-d6	5.00	3.83	76.6	24-113						
2,4,6-Tribromophenol	5.00	4.58	91.6	19-122						



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Shannon & Wilson  
706 W. Broadway Suite 201  
Glendale, CA 91204-1010

Number of Pages 10  
Date Received 12/13/2011  
Date Reported 12/28/2011

Telephone: (818)543-4560  
Attention: Deane Francuch

Job Number	Order Date	Client
64109	12/13/2011	SH&W

**Project ID:** 51-1-10052-005  
**Project Name:** Paseo Del Mar Landslide  
**Site:** 1600 West Paseo Del Mar  
San Pedro, CA 90732

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



American Environmental Testing Laboratory Inc.  
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**CHAIN OF CUSTODY RECORD**  
 No 48812

COMPANY: *Shannon & Wilson*  
 PROJECT MANAGER: *Don Fenech*  
 COMPANY ADDRESS: *664 West Broadway Glendale 91204* PHONE: *818-543-4560* FAX: *818-543-4565*  
 PROJECT NAME: *Passo Del Mar Landscule* PROJECT #: *57-1-10052-005* PO #:   
 SITE NAME AND ADDRESS: *1600 West Paseo Del Mar San Pedro CA*

AETL JOB No. *64109* Page *1* of *1*

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
1	B-5@6'	6/10/09	12:00 PM	SOIL	6" 55	ICE				
2	B-4@6'	12/7/2011	12:00 PM	SOIL	6" 55	ICE				
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: *2* PROPERLY COOLED:  Y /  N /  NA  
 CUSTODY SEALS:  Y /  N /  NA  
 RECEIVED IN GOOD COND:  Y /  N

TURN AROUND TIME  
 SAME DAY  24 HRS.  48 HRS.  72 HRS.  
 NORMAL  RUSH

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <i>[Signature]</i> Printed Name: <i>JANELLE MANNING</i> Date: <i>12/13/11</i> Time: <i>2:30</i>	Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Date: <i>12/13/11</i> Time: <i>16:20</i>	Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Date: <i>12/13/11</i> Time: <i>16:20</i>

RECEIVED BY: *[Signature]* *FORRESTER*  
 Signature: *[Signature]* Printed Name: *[Signature]* Date: *12/13/11* Time: *2:30*

RECEIVED BY LABORATORY: *[Signature]*  
 Signature: *[Signature]* Printed Name: *[Signature]* Date: *12/13/11* Time: *16:20*

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Shannon & Wilson  
706 W. Broadway Suite 201  
Glendale, CA 91204-1010

Project ID: 51-1-10052-005  
Date Received 12/13/2011  
Date Reported 12/28/2011

Telephone: (818) 543-4560  
Attention: Deane Francuch

Job Number	Order Date	Client
64109	12/13/2011	SH&W

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 12/13/2011.

Lab ID	Sample ID	Sample Date	Matrix	QTY of Containers
64109.01	B-5 @ 6'	12/09/2011	Soil	1
64109.02	B-4 @ 6'	12/07/2011	Soil	1

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Shannon & Wilson  
706 W. Broadway  
Suite 201  
Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Deane Francuch

Page: 2

Project ID: 51-1-10052-005

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1214112A1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/14/2011	12/14/2011	12/14/2011		
Preparation Method			5030	5030	5030		
Date Analyzed			12/14/2011	12/14/2011	12/14/2011		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Acetone	25	50	ND	ND	ND		
Benzene	1.0	10.0	ND	ND	ND		
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND	ND		
Bromochloromethane	5.0	10.0	ND	ND	ND		
Bromodichloromethane	5.0	10.0	ND	ND	ND		
Bromoform (Tribromomethane)	25	50	ND	ND	ND		
Bromomethane (Methyl bromide)	15	30	ND	ND	ND		
2-Butanone (MEK)	25	50	ND	ND	ND		
n-Butylbenzene	5.0	10.0	ND	ND	ND		
sec-Butylbenzene	5.0	10.0	ND	ND	ND		
tert-Butylbenzene	5.0	10.0	ND	ND	ND		
Carbon Disulfide	25	50	ND	ND	ND		
Carbon tetrachloride	5.0	10.0	ND	ND	ND		
Chlorobenzene	5.0	10.0	ND	ND	ND		
Chloroethane	15	30	ND	ND	ND		
2-Chloroethyl vinyl ether	50	50	ND	ND	ND		
Chloroform (Trichloromethane)	5.0	10.0	ND	ND	ND		
Chloromethane (Methyl chloride)	15	30	ND	ND	ND		
2-Chlorotoluene	5.0	10.0	ND	ND	ND		
4-Chlorotoluene	5.0	10.0	ND	ND	ND		
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND	ND		
Dibromochloromethane	5.0	10.0	ND	ND	ND		
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND	ND		
Dibromomethane	5.0	10.0	ND	ND	ND		
1,2-Dichlorobenzene	5.0	10.0	ND	ND	ND		
1,3-Dichlorobenzene	5.0	10.0	ND	ND	ND		
1,4-Dichlorobenzene	5.0	10.0	ND	ND	ND		



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## ANALYTICAL RESULTS

Page: 3

Project ID: 51-1-10052-005  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1214112A1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/14/2011	12/14/2011	12/14/2011		
Preparation Method			5030	5030	5030		
Date Analyzed			12/14/2011	12/14/2011	12/14/2011		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Dichlorodifluoromethane	15	30	ND	ND	ND		
1,1-Dichloroethane	5.0	10.0	ND	ND	ND		
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND	ND		
1,1-Dichloroethene	5.0	10.0	ND	ND	ND		
cis-1,2-Dichloroethene	5.0	10.0	ND	ND	ND		
trans-1,2-Dichloroethene	5.0	10.0	ND	ND	ND		
1,2-Dichloropropane	5.0	10.0	ND	ND	ND		
1,3-Dichloropropane	5.0	10.0	ND	ND	ND		
2,2-Dichloropropane	5.0	10.0	ND	ND	ND		
1,1-Dichloropropene	5.0	10.0	ND	ND	ND		
cis-1,3-Dichloropropene	5.0	10.0	ND	ND	ND		
trans-1,3-Dichloropropene	5.0	10.0	ND	ND	ND		
Ethylbenzene	1.0	10.0	ND	ND	ND		
Hexachlorobutadiene	15	30	ND	ND	ND		
2-Hexanone	25	50	ND	ND	ND		
Iodomethane	5.0	10.0	ND	ND	ND		
Isopropylbenzene	5.0	10.0	ND	ND	ND		
p-Isopropyltoluene	5.0	10.0	ND	ND	ND		
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND	ND		
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND	ND		
Methylene chloride (DCM)	25	50	ND	ND	ND		
Naphthalene	5.0	10.0	ND	ND	ND		
n-Propylbenzene	5.0	10.0	ND	ND	ND		
Styrene	5.0	10.0	ND	ND	ND		
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND	ND		
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND	ND		
Tetrachloroethene	5.0	10.0	ND	ND	ND		
Toluene (Methyl benzene)	1.0	10.0	ND	ND	ND		
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND	ND		
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND	ND		
1,1,1-Trichloroethane	5.0	10.0	ND	ND	ND		
1,1,2-Trichloroethane	5.0	10.0	ND	ND	ND		
Trichloroethene	5.0	10.0	ND	ND	ND		
Trichlorofluoromethane	5.0	10.0	ND	ND	ND		



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## ANALYTICAL RESULTS

Page: 4

Project ID: 51-1-10052-005  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1214112A1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/14/2011	12/14/2011	12/14/2011		
Preparation Method			5030	5030	5030		
Date Analyzed			12/14/2011	12/14/2011	12/14/2011		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
1,2,3-Trichloropropane	5.0	10.0	ND	ND	ND		
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND	ND		
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND	ND		
Vinyl Acetate	25	50	ND	ND	ND		
Vinyl chloride (Chloroethene)	15	30	ND	ND	ND		
o-Xylene	1.0	10.0	ND	ND	ND		
m,p-Xylenes	1.0	20.0	ND	ND	ND		
Our Lab I.D.			Method Blank	64109.01	64109.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Bromofluorobenzene	75-125		114	105	104		
Dibromofluoromethane	75-125		93.4	111	116		
Toluene-d8	75-125		102	95.9	97.5		



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## ANALYTICAL RESULTS

### Ordered By

Shannon & Wilson  
 706 W. Broadway  
 Suite 201  
 Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
 San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Deane Francuch

Page: 5

Project ID: 51-1-10052-005

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 122011JB1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/20/2011	12/20/2011	12/20/2011		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			12/20/2011	12/20/2011	12/20/2011		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Acenaphthene	0.25	0.50	ND	ND	ND		
Acenaphthylene	0.25	0.50	ND	ND	ND		
Anthracene	0.25	0.50	ND	ND	ND		
Azobenzene	0.25	0.50	ND	ND	ND		
Benzidine	0.25	0.50	ND	ND	ND		
Benzo(a)anthracene	0.25	0.50	ND	ND	ND		
Benzo(a)pyrene	0.25	0.50	ND	ND	ND		
Benzo(b)fluoranthene	0.25	0.50	ND	ND	ND		
Benzo(g,h,i)perylene	0.25	0.50	ND	ND	ND		
Benzo(k)fluoranthene	0.25	0.50	ND	ND	ND		
Benzoic Acid	0.25	0.50	ND	ND	ND		
Benzyl Alcohol	0.25	0.50	ND	ND	ND		
Bis(2-Chloroethoxy)methane	0.25	0.50	ND	ND	ND		
Bis(2-Chloroethyl)ether	0.25	0.50	ND	ND	ND		
Bis(2-chloroisopropyl) ether	0.25	0.50	ND	ND	ND		
Bis(2-ethylhexyl) phthalate	0.25	0.50	ND	ND	ND		
4-Bromophenyl phenyl ether	0.25	0.50	ND	ND	ND		
Butyl benzyl phthalate	0.25	0.50	ND	ND	ND		
4-Chloro-3-methylphenol	0.25	0.50	ND	ND	ND		
4-Chloroaniline	0.25	0.50	ND	ND	ND		
2-Chloronaphthalene	0.25	0.50	ND	ND	ND		
2-Chlorophenol	0.25	0.50	ND	ND	ND		
4-Chlorophenyl phenyl ether	0.25	0.50	ND	ND	ND		
Chrysene	0.25	0.50	ND	ND	ND		
Di-n-butyl phthalate	0.25	0.50	ND	ND	ND		
Di-n-octyl phthalate (Diocetyl ester)	0.25	0.50	ND	ND	ND		
Dibenzo(a,h)anthracene	0.25	0.50	ND	ND	ND		



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## ANALYTICAL RESULTS

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Project ID: 51-1-10052-005  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 122011JB1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/20/2011	12/20/2011	12/20/2011		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			12/20/2011	12/20/2011	12/20/2011		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Dibenzofuran	0.25	0.50	ND	ND	ND		
1,2-Dichlorobenzene	0.25	0.50	ND	ND	ND		
1,3-Dichlorobenzene	0.25	0.50	ND	ND	ND		
1,4-Dichlorobenzene	0.25	0.50	ND	ND	ND		
3,3'-Dichlorobenzidine	0.25	0.50	ND	ND	ND		
2,4-Dichlorophenol	0.25	0.50	ND	ND	ND		
Diethyl phthalate (Diethyl ester)	0.25	0.50	ND	ND	ND		
Dimethyl phthalate (Dimethyl ester)	0.25	0.50	ND	ND	ND		
2,4-Dimethylphenol	0.25	0.50	ND	ND	ND		
4,6-Dinitro-2-methylphenol	0.25	0.50	ND	ND	ND		
2,4-Dinitrophenol	0.25	0.50	ND	ND	ND		
2,4-Dinitrotoluene	0.25	0.50	ND	ND	ND		
2,6-Dinitrotoluene (2,6-DNT)	0.25	0.50	ND	ND	ND		
Fluoranthene	0.25	0.50	ND	ND	ND		
Fluorene	0.25	0.50	ND	ND	ND		
Hexachlorobenzene	0.25	0.50	ND	ND	ND		
Hexachlorobutadiene	0.25	0.50	ND	ND	ND		
Hexachlorocyclopentadiene	0.25	0.50	ND	ND	ND		
Hexachloroethane	0.25	0.50	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.25	0.50	ND	ND	ND		
Isophorone	0.25	0.50	ND	ND	ND		
2-Methylnaphthalene	0.25	0.50	ND	ND	ND		
4-Methylphenol	0.25	0.50	ND	ND	ND		
2-Methylphenol (2-Cresol)	0.25	0.50	ND	ND	ND		
3-Methylphenol (3-Cresol)	0.25	0.50	ND	ND	ND		
N-Nitroso-Di-n-propylamine	0.25	0.50	ND	ND	ND		
Naphthalene	0.25	0.50	ND	ND	ND		
2-Nitroaniline	0.25	0.50	ND	ND	ND		
3-Nitroaniline	0.25	0.50	ND	ND	ND		
4-Nitroaniline	0.25	0.50	ND	ND	ND		
Nitrobenzene (NB)	0.25	0.50	ND	ND	ND		
4-Nitrophenol	0.25	0.50	ND	ND	ND		
2-Nitrophenol (o-Nitrophenol)	0.25	0.50	ND	ND	ND		
N-nitrosodiphenylamine	0.25	0.50	ND	ND	ND		



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## ANALYTICAL RESULTS

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Project ID: 51-1-10052-005  
 Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 122011JB1

Our Lab I.D.			Method Blank	64109.01	64109.02		
Client Sample I.D.				B-5 @ 6'	B-4 @ 6'		
Date Sampled				12/09/2011	12/07/2011		
Date Prepared			12/20/2011	12/20/2011	12/20/2011		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			12/20/2011	12/20/2011	12/20/2011		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Pentachlorophenol	0.25	0.50	ND	ND	ND		
Phenanthrene	0.25	0.50	ND	ND	ND		
Phenol	0.25	0.50	ND	ND	ND		
Pyrene	0.25	0.50	ND	ND	ND		
1,2,4-Trichlorobenzene	0.25	0.50	ND	ND	ND		
2,4,5-Trichlorophenol	0.25	0.50	ND	ND	ND		
2,4,6-Trichlorophenol	0.25	0.50	ND	ND	ND		
Our Lab I.D.			Method Blank	64109.01	64109.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
2-Fluorophenol	25-121		72.0	49.6	61.2		
2-Fluorobiphenyl	30-115		77.6	55.2	69.2		
Nitrobenzene-d5	23-120		76.8	53.6	66.8		
Phenol-d6	21-113		74.2	53.0	64.8		
p-Terphenyl-D14	18-137		80.4	60.0	77.2		
2,4,6-Tribromophenol	19-122		80.6	52.0	67.6		



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## QUALITY CONTROL RESULTS

### Ordered By

Shannon & Wilson  
706 W. Broadway  
Suite 201  
Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Deane Francuch

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Project ID: 51-1-10052-005

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 1214112A1; Dup or Spiked Sample: B1214112A1; LCS: Clean Sand; QC Prepared: 12/14/2011; QC Analyzed: 12/14/2011;  
Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	57.0 X	114	50.0	62.0 X	124	8.4	75-125	<20
Chlorobenzene	0.00	50.0	56.5 X	113	50.0	58.5 X	117	3.5	75-125	<20
1,1-Dichloroethene	0.00	50.0	61.0 X	122	50.0	62.0 X	124	1.6	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	59.5 X	119	50.0	61.5 X	123	3.3	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	56.5 X	113	50.0	59.0 X	118	4.3	75-125	<20
Trichloroethene	0.00	50.0	62.0 X	124	50.0	62.0 X	124	<1	75-125	<20
<b>LCS</b>										
Chloroform (Trichloromethane)	0.00	50.0	60.5 X	121	50.0	61.0 X	122	<1	75-125	<20
Ethylbenzene	0.00	50.0	56.5 X	113	50.0	59.5 X	119	5.2	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	58.0 X	116	50.0	62.5 X	125	7.5	75-125	<20
o-Xylene	0.00	50.0	62.0 X	124	50.0	61.0 X	122	1.6	75-125	<20
m,p-Xylenes	0.00	100	121 X	121	100	124 X	124	2.4	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	50.0	45.4 X	90.8	50.0	47.1 X	94.1	3.6	75-125	<20
Dibromofluoromethane	0.00	50.0	56.5 X	113	50.0	53.0 X	106	6.4	75-125	<20
Toluene-d8	0.00	50.0	45.5 X	90.9	50.0	46.1 X	92.1	1.3	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

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 706 W. Broadway  
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 Glendale, CA 91204-1010

### Site

1600 West Paseo Del Mar  
 San Pedro, CA 90732

Telephone: (818)543-4560

Attn: Deane Francuch

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Project ID: 51-1-10052-005

Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 122011JB1; Dup or Spiked Sample: 64109.02; LCS: Clean Sand; QC Prepared: 12/20/2011; QC Analyzed: 12/20/2011;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Acenaphthene	0.00	2.50	1.71	68.4	2.50	1.77	70.8	3.4	46-118	<20
4-Chloro-3-methylphenol	0.00	5.00	3.26	65.2	5.00	3.45	69.0	5.7	39-98	<20
2-Chlorophenol	0.00	5.00	3.30	66.0	5.00	3.41	68.2	3.3	27-123	<20
1,4-Dichlorobenzene	0.00	2.50	1.70	68.0	2.50	1.78	71.2	4.6	36-97	<20
2,4-Dinitrotoluene	0.00	2.50	1.56	62.4	2.50	1.49	59.6	4.6	24-96	<20
N-Nitroso-Di-n-propylamine	0.00	2.50	2.02	80.8	2.50	1.97	78.8	2.5	41-116	<20
4-Nitrophenol	0.00	5.00	2.22	44.4	5.00	1.97	39.4	11.9	10-110	<20
Pentachlorophenol	0.00	5.00	2.56	51.2	5.00	3.00	60.0	15.8	40-125	<20
Phenol	0.00	5.00	3.07	61.4	5.00	3.41	68.2	10.5	12-89	<20
Pyrene	0.00	5.00	2.26	45.2	5.00	1.86	37.2	19.4	26-127	<20
1,2,4-Trichlorobenzene	0.00	2.50	1.73	69.2	2.50	1.83	73.2	5.6	39-98	<20
<b>Surrogates</b>										
2-Fluorophenol	0.00	5.00	3.26	65.2	5.00	3.42	68.4	4.8	25-121	<20
2-Fluorobiphenyl	0.00	2.50	1.81	72.4	2.50	1.95	78.0	7.4	30-115	<20
Nitrobenzene-d5	0.00	2.50	1.74	69.6	2.50	1.83	73.2	5.0	23-120	<20
p-Terphenyl-D14	0.00	2.50	2.11	84.4	2.50	1.83	73.0	14.5	18-137	<20
Phenol-d6	0.00	5.00	3.17	63.4	5.00	3.38	67.6	6.4	24-113	<20
2,4,6-Tribromophenol	0.00	5.00	3.78	75.6	5.00	4.13	82.6	8.8	19-122	<20

QC Batch No: 122011JB1; Dup or Spiked Sample: 64109.02; LCS: Clean Sand; QC Prepared: 12/20/2011; QC Analyzed: 12/20/2011;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Acenaphthene	2.50	1.91	76.4	31-137
4-Chloro-3-methylphenol	5.00	3.81	76.2	40-99
2-Chlorophenol	5.00	3.56	71.2	25-102
1,4-Dichlorobenzene	2.50	1.85	74.0	28-104
2,4-Dinitrotoluene	2.50	1.79	71.6	28-89
N-Nitroso-Di-n-propylamine	2.50	2.21	88.4	41-126
4-Nitrophenol	5.00	2.82	56.4	11-114



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## QUALITY CONTROL RESULTS

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Project ID: 51-1-10052-005  
Project Name: Paseo Del Mar Landslide

AETL Job Number	Submitted	Client
64109	12/13/2011	SH&W

Method: (8270C), Semivolatile Organic Compounds by GC/MS (SW-846)

QC Batch No: 122011JB1; Dup or Spiked Sample: 64109.02; LCS: Clean Sand; QC Prepared: 12/20/2011; QC Analyzed: 12/20/2011;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Pentachlorophenol	5.00	3.17	63.4	17-125						
Phenol	5.00	3.51	70.2	26-90						
Pyrene	5.00	2.46	49.2	35-142						
1,2,4-Trichlorobenzene	2.50	1.90	76.0	38-107						
<b>Surrogates</b>										
2-Fluorophenol	5.00	3.47	69.4	25-121						
2-Fluorobiphenyl	2.50	1.98	79.2	30-115						
Nitrobenzene-d5	2.50	1.94	77.6	23-120						
p-Terphenyl-D14	2.50	2.39	95.6	18-137						
Phenol-d6	5.00	3.47	69.4	24-113						
2,4,6-Tribromophenol	5.00	4.15	83.0	19-122						



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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