Annual Performance Report
Granulated Activated Carbon Treatment System

2011

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St. Louis Park
MINNESOTA

Experience LIFE in the Park

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

March 15, 2012

Regional Administrator
United States Environmental
Protection Agency, Region 5
ATTN: Michelle Kerr
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604

Director, Groundwater and Solid
Waste Division
Minnesota Pollution Control Agency
ATTN: Site Response Section
520 Lafayette Road North
St. Paul, MN 55155

President
Vertellus
300 N. Meridian #1500
Indianapolis, Indiana 46204

Commissioner
Minnesota Department of Health
121 E. Seventh Place
P. O. Box 64975
St. Paul, MN 55164-0975

RE: United States of America, et al. vs. Reilly Tar & Chemical Corporation, et al.
File No. Civ. 4-80-469
CD-RAP 4.3.5

Gentlemen:

Enclosed is the 2011 annual performance report of the Granular Activated Carbon treatment system submitted pursuant to Section 4.3.5. of the Consent Decree Remedial Action Plan in the above captioned matter. This report is issued by the City in accordance with Section 2(a) of the Reilly/St. Louis Park Agreement (Exhibit B to the Consent Decree).

Sincerely,

Scott E. Anderson
Superintendent of Utilities

SEA/bah
Enclosure

cc: William Gregg (w/enclosures)
Tom Scott (w/o enclosures)
Reilly File

ANNUAL PERFORMANCE REPORT
FOR
GRANULAR ACTIVATED CARBON
TREATMENT SYSTEM
2011

Operation:

The City operated the Granular Activated Carbon (GAC) treatment system in substantial compliance with Section 4.2 of the Remedial Action Plan (RAP) during 2011, treating 242.709 million gallons of water pumped from SLP 10. This equates to an average of 20.226 million gallons per month. RAP Section 4.2.1 Operating Rate states, "Reilly shall operate wells SLP 10 and/or SLP 15 and the GAC treatment system at a minimum annual pumping rate of 200 million gallons per year, with a minimum pumping rate of 10 million gallons in any calendar month…" The GAC treatment system did not meet the minimum monthly pumpage for March due to maintenance activities on the well. The monthly pump data for 2011 is recorded in Table 1 of this section.

Monitoring:

The 2011 monitoring was jointly conducted by AECOM and TestAmerica Laboratories. AECOM collected all samples and TestAmerica was responsible for the analytical services. Laboratory analyses were conducted at the TestAmerica laboratory in Arvada, Colorado. Additionally, split samples were sent to PACE laboratory in Minneapolis, Minnesota.

The 2011 monitoring schedule (Table 2), as established in the 2011 Sampling Plan developed in accordance with the requirements of Section 3.3 of the RAP, provided for quarterly monitoring of the treatment system effluent (Table 3, page 1), and annual monitoring of the treatment system feed water (Table 3, page 2) and for acid fraction analysis (Section 4.3.4). The samples were collected and analyzed in compliance with the 2011 Sampling Plan.

Historically, the treated water samples contain little or no PAH and the carbon is replaced prior to breakthrough. However, an anomalous result was obtained from SLP10T extended analysis performed by Test America on September 13, 2011. The extended analysis reported a total of 62.8 ng/l of carcinogenic PAH which is higher than the drinking water criteria and higher than the contemporaneous samples collected from well SLP 10 before and after carbon treatment (analyzed for 31 PAH compounds). None of the "extra" compounds on the extended list contributed to the elevated CPAH total. Also, the split sample sent to PACE laboratory which was analyzed for 25 CPAH compounds did not detect any CPAH. Additional treated water samples were collected in accordance with CD-RAP Section 4.3.2. The reanalysis showed that no CPAH were detected and that relatively high levels of Other PAH were detected in the blanks. As a result of these tests, the carbon is due to be replaced in 2012 in accordance with the normal schedule. The data is provided in Table 3 of this report.

Additional Information:

The CD-RAP provides the operational criteria for the GAC facility located adjacent to Water Treatment Plant No. 1, located at 2936 Idaho Avenue that treats water produced by SLP 10 or SLP 15. The City constructed an additional GAC facility in 1994 located at 4701 West 41st Street

(GAC-4) which treats water produced by SLP 4. This GAC facility is not referenced in the RAP. The City operates the GAC 4 facility within the Drinking Water Criteria established in Section 2.2. The facility is operated on a continuous pumping schedule as directed by the United States Environmental Protection Agency and the Minnesota Pollution Control Agency. The system is operated in a series of four 20,000 pound GAC vessels.

The City operated GAC 4 in substantial compliance with Section 4.2 of the Remedial Action Plan (RAP) during 2011, treating 524.918 million gallons of water pumped from SLP 4. This equates to an average of 43.733 million gallons per month. The monthly pump data is recorded in Table 4 of this section. The 2011 sample result for Total Other PAH's at SLP 4 (feed water to GAC 4) was 119 ng/l. Although, this is below the Drinking Water Advisory level of 175 ng/l established in Section 2.2 of the RAP for Total Other PAH's, the City continued to treat the water with GAC.

TABLE 1

CITY ST. LOUIS PARK
GRANULAR ACTIVATED CARBON
TREATMENT PLANT GAC 1

2011 PRODUCTION

	GAC Production	Well Production SLP 10	Well Production SLP 15
January	12.707	12.707	0.000
February	11.737	11.737	0.000
March	8.74 [1]	8.740	0.000
April	10.589	10.589	0.000
May	17.010	17.010	0.000
June	25.607	25.607	0.000
July	30.209	30.209	0.000
August	33.525	33.525	0.000
September	37.267	37.267	0.000
October	27.609	27.609	0.000
November	14.477	14.477	0.000
December	13.232	13.232	0.000
Total Gallons	**242.709**	242.709	
Monthly Average	**20.226**		

1 - SLP 10 was off line for repair

TABLE 2

2011 SAMPLING PLAN
GAC TREATMENT SYSTEM MONITORING SCHEDULE

RAP Section	Sampling Point	Start of Monitoring	Sample Frequency	Analysis
4.3.1(C)	Treated Water (TRTD	Date of plan approval	Quarterly	PAH (ppt)
4.3.3(D)	Feed Water (FEED)	Date of plan approval	Annually	PAH (ppt)
4.3.4	*Treated Water*	*Date of plan approval*	*Annually*	*PAH (ppt) Extended List*
4.3.4	Treated or Feed Water	Date of plan approval	Annually	Acid Fraction EPA Method 625

TABLE 3

GAC Treatment System
Analytical Results 2011

		1ST Quarter	2nd Quarter	3rd Quarter		Additional Samples [1]		4th Quarter
	Well	SLP10T	SLP 10T	SLP 10T	SLP 10TEX	SLP 10T	SLP 10T	SLP 10T
	Date	3/30/2012	6/9/2012	9/13/2011	9/13/2011	10/20/2011	10/25/2011	12/13/2011
Parameter								
Acenaphthene		1.2	4.3	13.0	12.0	16.0	24.0	10.0
Acenaphthylene			1.1	0.8	1.0	1.0	2.4	
Acridine								
Anthracene								
Benzo (a) anthracene	c				3.3			
Benzo (b) fluoranthene	c				4.0			
Benzo (k) fluoranthene	c				10.0			
2,3 -Benzofuran						0.9		
Benzo (ghi) perylene	c			1.3	13.0			
Benzo (a) pyrene	c				6.7			
Benzo (e) pyrene					4.5			
Benzo (b) thiophene				2.6	1.7	2.4	3.9	2.2
Biphenyl								
Carbazole								
Chrysene	c			1.4	5.6			
Dibenzo (a, h) anthracene	c				11.0			
Dibenzofuran							1.8	
Dibenzothiophene					20.0			
2, 3 -Dihydroindene		3.1	10.0	24.0	21.0	28.0	34.0	17.0
Fluoranthene				1.2				
Fluorene					1.2	1.6	3.1	1.1
Indene							3.7	
Indeno (1, 2, 3 cd) pyrene	c				7.3			
Indole						2.7		1.9
2- Methylnaphtalene			2.8		4.4	3.3	9.3	
1- Methylnaphtalene			2.8	3.9	7.5	4.9	13.0	2.8
Naphthalene			5.4	2.0	5.0	9.4	24.0	1.9
Perylene								
Phenanthrene								
Pyrene		1.0	1.4					
Quinoline	c	0.0						
Sum of benzo (a) pyrene & dibenz (a,h) anthrancene		**0.0**	**0.0**	**0.0**	**17.7**	**0.0**	**0.0**	**0.0**
Carcinogenic PAH		**0.0**	**0.0**	**2.7**	**60.9**	**0.0**	**0.0**	**0.0**
Total Other PAH		**5.3**	**27.8**	**47.5**	**78.3**	**70.2**	**119.2**	**36.9**

1 Additional samples taken per CD-RAP Section 4.3.2

TABLE 3

GAC Treatment System
Analytical Results 2011

Parameter	Well Date	SLP 10 Feed 09/13/11
Acenaphthene		220.0
Acenaphthylene		17.0
Acridine		
Anthracene		1.0
Benzo (a) anthracene		
Benzo (b) fluoranthene		
Benzo (k) fluoranthene		
2,3 -Benzofuran		
Benzo (ghi) perylene		
Benzo (a) pyrene		1.3
Benzo (e) pyrene		
Benzo (b) thiophene		17.0
Biphenyl		1.5
Carbazole		9.0
Chrysene		1.6
Dibenzo (a, h) anthracene		
Dibenzofuran		8.2
Dibenzothiophene		10.0
2, 3 -Dihydroindene		75.0
Fluoranthene		22.0
Fluorene		49.0
Indene		24.0
Indeno (1, 2, 3 cd) pyrene		
Indole		
2- Methylnaphtalene		
1- Methylnaphtalene		32.0
Naphthalene		2.4
Perylene		
Phenanthrene		4.5
Pyrene		44.0
Quinoline		
Sum of benzo (a) pyrene & dibenz (a,h) anthrancene		**1.3**
Carcinogenic PAH		**2.9**
Total Other PAH		**536.6**

TABLE 4

CITY ST. LOUIS PARK
GRANULAR ACTIVATED CARBON
TREATMENT PLANT GAC 4

2011 PRODUCTION

	MILLION GALLONS
January	42.791
February	39.852
March	44.008
April	41.136
May	42.843
June	42.754
July	44.108
August	42.867
September	43.649
October	49.963
November	45.596
December	45.351
TOTAL	**524.918 Gallons**
MONTHLY AVERAGE	**43.743 Gallons**

RAP SECTION 4.3.1 (C)

PAH ANALYSIS

FIRST QUARTER

PAH ANALYSIS

SLP 10 T
3/30/11
1st Qtr

1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-14092-1
Client Project/Site: CSLP - Reilly Tar & Chemical
Revision: 1

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Lisa B. Uriell

Authorized for release by:
12/7/2011 4:27:23 PM

Lisa Uriell
Project Manager II
lisa.uriell@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Job ID: 280-14092-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-14092-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Six samples were received under chain of custody on March 31, 2011. The samples were received at temperatures of 3.4°C, 3.6° C, 3.6°C, 2.4°C, 1.4°C and 2.6°C. All sample containers were received in acceptable condition.

No anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Low levels of Pyrene are present in the method blank associated with prep batch 280-60492. Because the concentration in the method blank is not present at a level greater than one half the reporting limit, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B". Usability of the sample data is not compromised.

The LCS associated with prep batch 280-60492 exhibited the percent recovery below the QC control limits for Acridine at 11 % (limits 30-150%). The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is.

The MS/MSD associated with prep batch 280-60492 was performed using sample SLP10T-033011 (280-14092-1), as requested. MS/MSD exhibited 10 of the 33 Matrix Spike compound recoveries outside the control limits. MS/MSD exhibited 10 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited percent recoveries outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylcholanthrene	Acridine	Benzo[a]pyrene
Benzo[e]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene
Benzo[ghi]perylene	Dibenz(a,h)anthracene	Indeno[1,2,3-cd]pyrene
Perylene		

No other anomalies were noted.

Revision
This report has been revised to correct the reporting limits and method detection limits in the method blank and LCS, as the limits were not calculated correctly in the original submission due to an omitted initial volume.

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-14092-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	33	33
MB Surrogates	3	3
LCS	7	7
LCS Surrogates	3	3
FB/FBD	66	66
MS	7	6
MS Surrogates	3	3
MSD	7	6
MSD Surrogates	3	3
MS/MSD RPD	7	7
Sample/Dup. RPD	33	33
Sample Surrogates	18	18
Samples and QC Internal Standard Area	30	30
TOTAL	**220**	**218**
% Completeness	**99.1%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD					
JOB 280-14092-1					
Sample: SPL10T-033011		DUP: SPL10TD-033011			
Compound	**Result**	**Compound**	**Result**	**RPD**	**RPD>50%**
Acenaphthene	1.2	Acenaphthene	1.1	8.7	
Acenaphthylene	ND	Acenaphthylene	ND	0.0	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	ND	0.0	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	ND	2,3-Benzofuran	ND	0.0	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	ND	Benzo(b)thiophene	ND	0.0	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	ND	Carbazole	ND	0.0	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	ND	Dibenzofuran	ND	0.0	
Dibenzothiophene	ND	Dibenzothiophene	ND	0.0	
2,3-Dihydroindene	3.1	2,3-Dihydroindene	3.6	14.9	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	ND	Fluorene	ND	0.0	
Indene	ND	Indene	ND	0.0	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	ND	Indole	ND	0.0	
2-Methylnaphthalene	ND	2-Methylnaphthalene	ND	0.0	
1-Methylnaphthalene	ND	1-Methylnaphthalene	ND	0.0	
Naphthalene	ND	Naphthalene	ND	0.0	
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	1.0	Pyrene	ND	NC	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

5

Client Sample ID: SLP10T-033011 — Lab Sample ID: 280-14092-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	3.1	J	4.8	0.67	ng/L	1		8270C	Total/NA
Acenaphthene	1.2	J	5.4	0.48	ng/L	1		8270C	Total/NA
Pyrene	1.0	J B	4.0	0.94	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TD-033011 — Lab Sample ID: 280-14092-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	3.6	J	5.3	0.74	ng/L	1		8270C	Total/NA
Acenaphthene	1.1	J	6.0	0.53	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFB-033011 — Lab Sample ID: 280-14092-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	0.96	J	5.4	0.75	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.2	J	6.0	0.96	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	3.5	J	6.4	1.1	ng/L	1		8270C	Total/NA
Naphthalene	5.5	J	9.3	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFBD-033011 — Lab Sample ID: 280-14092-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	1.0	J	5.0	0.70	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.4	J	5.6	0.89	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	3.4	J	5.9	0.98	ng/L	1		8270C	Total/NA
Naphthalene	6.2	J	8.6	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP6-033011 — Lab Sample ID: 280-14092-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.72	J	5.5	0.69	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	54		5.0	0.71	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.7	J	5.7	0.90	ng/L	1		8270C	Total/NA
Acenaphthene	74		5.8	0.50	ng/L	1		8270C	Total/NA
Acenaphthylene	8.6		4.8	0.78	ng/L	1		8270C	Total/NA
Acridine	8.3	*	6.6	6.6	ng/L	1		8270C	Total/NA
Anthracene	2.5	J	4.2	0.81	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	10		5.2	0.76	ng/L	1		8270C	Total/NA
Carbazole	2.4	J	3.8	0.73	ng/L	1		8270C	Total/NA
Dibenzothiophene	1.7	J	4.1	0.99	ng/L	1		8270C	Total/NA
Fluoranthene	4.3	J	4.6	1.7	ng/L	1		8270C	Total/NA
Indene	6.3		4.7	3.3	ng/L	1		8270C	Total/NA
Naphthalene	3.6	J	8.7	1.2	ng/L	1		8270C	Total/NA
Pyrene	4.9	B	4.2	1.0	ng/L	1		8270C	Total/NA

Client Sample ID: W48-033011 — Lab Sample ID: 280-14092-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.96	J	5.4	0.69	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	3.7	J	5.0	0.71	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.5	J	5.6	0.90	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.6	J	5.9	0.99	ng/L	1		8270C	Total/NA
Acenaphthene	76		5.7	0.50	ng/L	1		8270C	Total/NA
Acenaphthylene	1.7	J	4.8	0.78	ng/L	1		8270C	Total/NA
Acridine	10	*	6.6	6.6	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-14092-1	SLP10T-033011	Water	03/30/11 08:30	03/31/11 09:00
280-14092-2	SLP10TD-033011	Water	03/30/11 08:35	03/31/11 09:00
280-14092-3	SLP10TFB-033011	Water	03/30/11 08:20	03/31/11 09:00
280-14092-4	SLP10TFBD-033011	Water	03/30/11 08:25	03/31/11 09:00
280-14092-5	SLP6-033011	Water	03/30/11 09:50	03/31/11 09:00
280-14092-6	W48-033011	Water	03/30/11 11:00	03/31/11 09:00

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Client Sample ID: SLP10T-033011
Date Collected: 03/30/11 08:30
Date Received: 03/31/11 09:00

Lab Sample ID: 280-14092-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.65	ng/L		04/02/11 13:45	04/12/11 19:06	1
2,3-Dihydroindene	**3.1**	**J**	4.8	0.67	ng/L		04/02/11 13:45	04/12/11 19:06	1
1-Methylnaphthalene	ND		5.3	0.85	ng/L		04/02/11 13:45	04/12/11 19:06	1
2-Methylnaphthalene	ND		5.6	0.93	ng/L		04/02/11 13:45	04/12/11 19:06	1
Acenaphthene	**1.2**	**J**	5.4	0.48	ng/L		04/02/11 13:45	04/12/11 19:06	1
Acenaphthylene	ND		4.6	0.73	ng/L		04/02/11 13:45	04/12/11 19:06	1
Acridine	ND	*	6.2	6.2	ng/L		04/02/11 13:45	04/12/11 19:06	1
Anthracene	ND		4.0	0.76	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo(b)thiophene	ND		5.0	0.71	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		04/02/11 13:45	04/12/11 19:06	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		04/02/11 13:45	04/12/11 19:06	1
Carbazole	ND		3.6	0.69	ng/L		04/02/11 13:45	04/12/11 19:06	1
Chrysene	ND		5.3	1.2	ng/L		04/02/11 13:45	04/12/11 19:06	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		04/02/11 13:45	04/12/11 19:06	1
Dibenzofuran	ND		5.4	0.94	ng/L		04/02/11 13:45	04/12/11 19:06	1
Dibenzothiophene	ND		3.9	0.93	ng/L		04/02/11 13:45	04/12/11 19:06	1
Fluoranthene	ND		4.4	1.6	ng/L		04/02/11 13:45	04/12/11 19:06	1
Fluorene	ND		3.9	0.81	ng/L		04/02/11 13:45	04/12/11 19:06	1
Indene	ND		4.5	3.1	ng/L		04/02/11 13:45	04/12/11 19:06	1
Indole	ND		4.5	1.6	ng/L		04/02/11 13:45	04/12/11 19:06	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		04/02/11 13:45	04/12/11 19:06	1
Naphthalene	ND		8.2	1.1	ng/L		04/02/11 13:45	04/12/11 19:06	1
Perylene	ND		3.6	3.6	ng/L		04/02/11 13:45	04/12/11 19:06	1
Phenanthrene	ND		6.0	3.1	ng/L		04/02/11 13:45	04/12/11 19:06	1
Pyrene	**1.0**	**J B**	4.0	0.94	ng/L		04/02/11 13:45	04/12/11 19:06	1
Quinoline	ND		8.6	5.4	ng/L		04/02/11 13:45	04/12/11 19:06	1
Biphenyl	ND		5.3	1.0	ng/L		04/02/11 13:45	04/12/11 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*64*		*23 - 84*	*04/02/11 13:45*	*04/12/11 19:06*	*1*
Chrysene-d12 (Surr)	*31*		*28 - 101*	*04/02/11 13:45*	*04/12/11 19:06*	*1*
Naphthalene-d8 (Surr)	*72*		*22 - 97*	*04/02/11 13:45*	*04/12/11 19:06*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Client Sample ID: SLP10TD-033011
Date Collected: 03/30/11 08:35
Date Received: 03/31/11 09:00

Lab Sample ID: 280-14092-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.7	0.72	ng/L		04/02/11 13:45	04/12/11 20:49	1
2,3-Dihydroindene	**3.6**	**J**	5.3	0.74	ng/L		04/02/11 13:45	04/12/11 20:49	1
1-Methylnaphthalene	ND		5.9	0.94	ng/L		04/02/11 13:45	04/12/11 20:49	1
2-Methylnaphthalene	ND		6.2	1.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Acenaphthene	**1.1**	**J**	6.0	0.53	ng/L		04/02/11 13:45	04/12/11 20:49	1
Acenaphthylene	ND		5.1	0.81	ng/L		04/02/11 13:45	04/12/11 20:49	1
Acridine	ND	*	6.9	6.9	ng/L		04/02/11 13:45	04/12/11 20:49	1
Anthracene	ND		4.4	0.85	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[a]anthracene	ND		4.5	0.97	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[a]pyrene	ND		2.6	1.3	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[e]pyrene	ND		4.5	1.2	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[b]fluoranthene	ND		5.0	1.5	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo(b)thiophene	ND		5.5	0.79	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[k]fluoranthene	ND		4.3	1.3	ng/L		04/02/11 13:45	04/12/11 20:49	1
Benzo[g,h,i]perylene	ND		6.6	1.2	ng/L		04/02/11 13:45	04/12/11 20:49	1
Carbazole	ND		4.0	0.76	ng/L		04/02/11 13:45	04/12/11 20:49	1
Chrysene	ND		5.9	1.3	ng/L		04/02/11 13:45	04/12/11 20:49	1
Dibenz(a,h)anthracene	ND		6.2	1.1	ng/L		04/02/11 13:45	04/12/11 20:49	1
Dibenzofuran	ND		6.0	1.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Dibenzothiophene	ND		4.3	1.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Fluoranthene	ND		4.9	1.8	ng/L		04/02/11 13:45	04/12/11 20:49	1
Fluorene	ND		4.3	0.90	ng/L		04/02/11 13:45	04/12/11 20:49	1
Indene	ND		5.0	3.5	ng/L		04/02/11 13:45	04/12/11 20:49	1
Indole	ND		5.0	1.8	ng/L		04/02/11 13:45	04/12/11 20:49	1
Indeno[1,2,3-cd]pyrene	ND		5.7	1.3	ng/L		04/02/11 13:45	04/12/11 20:49	1
Naphthalene	ND		9.1	1.2	ng/L		04/02/11 13:45	04/12/11 20:49	1
Perylene	ND		4.0	4.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Phenanthrene	ND		6.7	3.4	ng/L		04/02/11 13:45	04/12/11 20:49	1
Pyrene	ND		4.4	1.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Quinoline	ND		9.5	6.0	ng/L		04/02/11 13:45	04/12/11 20:49	1
Biphenyl	ND		5.9	1.1	ng/L		04/02/11 13:45	04/12/11 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*04/02/11 13:45*	*04/12/11 20:49*	*1*
Chrysene-d12 (Surr)	*44*		*28 - 101*	*04/02/11 13:45*	*04/12/11 20:49*	*1*
Naphthalene-d8 (Surr)	*80*		*22 - 97*	*04/02/11 13:45*	*04/12/11 20:49*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Client Sample ID: SLP10TFB-033011
Date Collected: 03/30/11 08:20
Date Received: 03/31/11 09:00

Lab Sample ID: 280-14092-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.8	0.73	ng/L		04/02/11 13:45	04/12/11 21:23	1
2,3-Dihydroindene	**0.96**	**J**	5.4	0.75	ng/L		04/02/11 13:45	04/12/11 21:23	1
1-Methylnaphthalene	**1.2**	**J**	6.0	0.96	ng/L		04/02/11 13:45	04/12/11 21:23	1
2-Methylnaphthalene	**3.5**	**J**	6.4	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Acenaphthene	ND		6.1	0.54	ng/L		04/02/11 13:45	04/12/11 21:23	1
Acenaphthylene	ND		5.2	0.83	ng/L		04/02/11 13:45	04/12/11 21:23	1
Acridine	ND	*	7.0	7.0	ng/L		04/02/11 13:45	04/12/11 21:23	1
Anthracene	ND		4.5	0.86	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[a]anthracene	ND		4.6	0.99	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[a]pyrene	ND		2.7	1.3	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[e]pyrene	ND		4.6	1.2	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[b]fluoranthene	ND		5.1	1.5	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo(b)thiophene	ND		5.6	0.81	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[k]fluoranthene	ND		4.4	1.3	ng/L		04/02/11 13:45	04/12/11 21:23	1
Benzo[g,h,i]perylene	ND		6.7	1.3	ng/L		04/02/11 13:45	04/12/11 21:23	1
Carbazole	ND		4.1	0.78	ng/L		04/02/11 13:45	04/12/11 21:23	1
Chrysene	ND		6.0	1.3	ng/L		04/02/11 13:45	04/12/11 21:23	1
Dibenz(a,h)anthracene	ND		6.4	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Dibenzofuran	ND		6.1	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Dibenzothiophene	ND		4.4	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Fluoranthene	ND		5.0	1.8	ng/L		04/02/11 13:45	04/12/11 21:23	1
Fluorene	ND		4.4	0.92	ng/L		04/02/11 13:45	04/12/11 21:23	1
Indene	ND		5.1	3.5	ng/L		04/02/11 13:45	04/12/11 21:23	1
Indole	ND		5.1	1.9	ng/L		04/02/11 13:45	04/12/11 21:23	1
Indeno[1,2,3-cd]pyrene	ND		5.8	1.4	ng/L		04/02/11 13:45	04/12/11 21:23	1
Naphthalene	**5.5**	**J**	9.3	1.2	ng/L		04/02/11 13:45	04/12/11 21:23	1
Perylene	ND		4.1	4.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Phenanthrene	ND		6.8	3.5	ng/L		04/02/11 13:45	04/12/11 21:23	1
Pyrene	ND		4.5	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Quinoline	ND		9.7	6.1	ng/L		04/02/11 13:45	04/12/11 21:23	1
Biphenyl	ND		6.0	1.1	ng/L		04/02/11 13:45	04/12/11 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*72*		*23 - 84*	*04/02/11 13:45*	*04/12/11 21:23*	*1*
Chrysene-d12 (Surr)	*77*		*28 - 101*	*04/02/11 13:45*	*04/12/11 21:23*	*1*
Naphthalene-d8 (Surr)	*78*		*22 - 97*	*04/02/11 13:45*	*04/12/11 21:23*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Client Sample ID: SLP10TFBD-033011
Date Collected: 03/30/11 08:25
Date Received: 03/31/11 09:00

Lab Sample ID: 280-14092-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		04/02/11 13:45	04/13/11 10:03	1
2,3-Dihydroindene	**1.0**	**J**	5.0	0.70	ng/L		04/02/11 13:45	04/13/11 10:03	1
1-Methylnaphthalene	**1.4**	**J**	5.6	0.89	ng/L		04/02/11 13:45	04/13/11 10:03	1
2-Methylnaphthalene	**3.4**	**J**	5.9	0.98	ng/L		04/02/11 13:45	04/13/11 10:03	1
Acenaphthene	ND		5.7	0.50	ng/L		04/02/11 13:45	04/13/11 10:03	1
Acenaphthylene	ND		4.8	0.77	ng/L		04/02/11 13:45	04/13/11 10:03	1
Acridine	ND	*	6.5	6.5	ng/L		04/02/11 13:45	04/13/11 10:03	1
Anthracene	ND		4.2	0.80	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		04/02/11 13:45	04/13/11 10:03	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		04/02/11 13:45	04/13/11 10:03	1
Carbazole	ND		3.8	0.72	ng/L		04/02/11 13:45	04/13/11 10:03	1
Chrysene	ND		5.6	1.2	ng/L		04/02/11 13:45	04/13/11 10:03	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		04/02/11 13:45	04/13/11 10:03	1
Dibenzofuran	ND		5.7	0.99	ng/L		04/02/11 13:45	04/13/11 10:03	1
Dibenzothiophene	ND		4.1	0.98	ng/L		04/02/11 13:45	04/13/11 10:03	1
Fluoranthene	ND		4.6	1.7	ng/L		04/02/11 13:45	04/13/11 10:03	1
Fluorene	ND		4.1	0.85	ng/L		04/02/11 13:45	04/13/11 10:03	1
Indene	ND		4.7	3.3	ng/L		04/02/11 13:45	04/13/11 10:03	1
Indole	ND		4.7	1.7	ng/L		04/02/11 13:45	04/13/11 10:03	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		04/02/11 13:45	04/13/11 10:03	1
Naphthalene	**6.2**	**J**	8.6	1.1	ng/L		04/02/11 13:45	04/13/11 10:03	1
Perylene	ND		3.8	3.8	ng/L		04/02/11 13:45	04/13/11 10:03	1
Phenanthrene	ND		6.3	3.2	ng/L		04/02/11 13:45	04/13/11 10:03	1
Pyrene	ND		4.2	0.99	ng/L		04/02/11 13:45	04/13/11 10:03	1
Quinoline	ND		9.0	5.7	ng/L		04/02/11 13:45	04/13/11 10:03	1
Biphenyl	ND		5.6	1.1	ng/L		04/02/11 13:45	04/13/11 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*76*		*23 - 84*	*04/02/11 13:45*	*04/13/11 10:03*	*1*
Chrysene-d12 (Surr)	*76*		*28 - 101*	*04/02/11 13:45*	*04/13/11 10:03*	*1*
Naphthalene-d8 (Surr)	*80*		*22 - 97*	*04/02/11 13:45*	*04/13/11 10:03*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FD10	sene-d12 (S	thalene-d8
Lab Sample ID	Client Sample ID	(23-84)	(28-101)	(22-97)
280-14092-1	SLP10T-033011	64	31	72
280-14092-1 MS	SLP10T-033011	70	35	77
280-14092-1 MSD	SLP10T-033011	73	43	79
280-14092-2	SLP10TD-033011	74	44	80
280-14092-3	SLP10TFB-033011	72	77	78
280-14092-4	SLP10TFBD-033011	76	76	80
280-14092-5	SLP6-033011	69	38	69
280-14092-6	W48-033011	70	37	71
LCS 280-60492/2-A	Lab Control Sample	76	86	82
MB 280-60492/1-A	Method Blank	61	77	74

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-60492/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		04/02/11 13:45	04/12/11 17:22	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		04/02/11 13:45	04/12/11 17:22	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		04/02/11 13:45	04/12/11 17:22	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		04/02/11 13:45	04/12/11 17:22	1
Acenaphthene	ND		5.7	0.50	ng/L		04/02/11 13:45	04/12/11 17:22	1
Acenaphthylene	ND		4.8	0.77	ng/L		04/02/11 13:45	04/12/11 17:22	1
Acridine	ND		6.5	6.5	ng/L		04/02/11 13:45	04/12/11 17:22	1
Anthracene	ND		4.2	0.80	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		04/02/11 13:45	04/12/11 17:22	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		04/02/11 13:45	04/12/11 17:22	1
Carbazole	ND		3.8	0.72	ng/L		04/02/11 13:45	04/12/11 17:22	1
Chrysene	ND		5.6	1.2	ng/L		04/02/11 13:45	04/12/11 17:22	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		04/02/11 13:45	04/12/11 17:22	1
Dibenzofuran	ND		5.7	0.99	ng/L		04/02/11 13:45	04/12/11 17:22	1
Dibenzothiophene	ND		4.1	0.98	ng/L		04/02/11 13:45	04/12/11 17:22	1
Fluoranthene	ND		4.6	1.7	ng/L		04/02/11 13:45	04/12/11 17:22	1
Fluorene	ND		4.1	0.85	ng/L		04/02/11 13:45	04/12/11 17:22	1
Indene	ND		4.7	3.3	ng/L		04/02/11 13:45	04/12/11 17:22	1
Indole	ND		4.7	1.7	ng/L		04/02/11 13:45	04/12/11 17:22	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		04/02/11 13:45	04/12/11 17:22	1
Naphthalene	ND		8.6	1.1	ng/L		04/02/11 13:45	04/12/11 17:22	1
Perylene	ND		3.8	3.8	ng/L		04/02/11 13:45	04/12/11 17:22	1
Phenanthrene	ND		6.3	3.2	ng/L		04/02/11 13:45	04/12/11 17:22	1
Pyrene	1.04	J	4.2	0.99	ng/L		04/02/11 13:45	04/12/11 17:22	1
Quinoline	ND		9.0	5.7	ng/L		04/02/11 13:45	04/12/11 17:22	1
Biphenyl	ND		5.6	1.1	ng/L		04/02/11 13:45	04/12/11 17:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*61*		*23 - 84*	*04/02/11 13:45*	*04/12/11 17:22*	*1*
Chrysene-d12 (Surr)	*77*		*28 - 101*	*04/02/11 13:45*	*04/12/11 17:22*	*1*
Naphthalene-d8 (Surr)	*74*		*22 - 97*	*04/02/11 13:45*	*04/12/11 17:22*	*1*

Lab Sample ID: LCS 280-60492/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	75.0	64.1		ng/L		85	30 - 150
2,3-Dihydroindene	75.0	55.8		ng/L		74	30 - 150
1-Methylnaphthalene	75.0	63.5		ng/L		85	30 - 150
2-Methylnaphthalene	75.0	61.7		ng/L		82	25 - 95
3-Methylcholanthrene	75.0	54.8		ng/L		73	30 - 150
Acenaphthene	75.0	58.2		ng/L		78	30 - 150
Acenaphthylene	75.0	56.0		ng/L		75	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-60492/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acridine	75.0	7.95	*	ng/L		11	30 - 150
Anthracene	75.0	65.1		ng/L		87	30 - 150
Benzo[a]anthracene	75.0	57.5		ng/L		77	30 - 150
Benzo[a]pyrene	75.0	65.7		ng/L		88	30 - 150
Benzo[e]pyrene	75.0	69.4		ng/L		93	37 - 105
Benzo[b]fluoranthene	75.0	65.8		ng/L		88	30 - 150
Benzo(b)thiophene	75.0	60.8		ng/L		81	30 - 150
Benzo[k]fluoranthene	75.0	72.9		ng/L		97	30 - 150
Benzo[g,h,i]perylene	75.0	68.0		ng/L		91	30 - 150
Carbazole	75.0	59.5		ng/L		79	30 - 150
Chrysene	75.0	71.4		ng/L		95	20 - 136
Dibenz(a,h)anthracene	75.0	62.7		ng/L		84	30 - 150
Dibenzofuran	75.0	57.0		ng/L		76	30 - 150
Dibenzothiophene	75.0	61.0		ng/L		81	30 - 150
Fluoranthene	75.0	55.6		ng/L		74	30 - 150
Fluorene	75.0	59.3		ng/L		79	34 - 96
Indene	75.0	61.4		ng/L		82	22 - 86
Indole	75.0	55.6		ng/L		74	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	67.3		ng/L		90	30 - 150
Naphthalene	75.0	64.1		ng/L		85	27 - 95
Perylene	75.0	63.2		ng/L		84	30 - 150
Phenanthrene	75.0	59.3		ng/L		79	30 - 150
Pyrene	75.0	58.9		ng/L		79	30 - 150
Quinoline	75.0	42.8		ng/L		57	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	61.5		ng/L		82	30 - 150
Biphenyl	75.0	60.2		ng/L		80	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*76*		*23 - 84*
Chrysene-d12 (Surr)	*86*		*28 - 101*
Naphthalene-d8 (Surr)	*82*		*22 - 97*

Lab Sample ID: 280-14092-1 MS — **Client Sample ID: SLP10T-033011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	ND		77.9	62.2		ng/L		80	30 - 150
2,3-Dihydroindene	3.1	J	77.9	57.9		ng/L		70	30 - 150
1-Methylnaphthalene	ND		77.9	63.7		ng/L		82	30 - 150
2-Methylnaphthalene	ND		77.9	60.3		ng/L		77	25 - 95
3-Methylcholanthrene	ND		77.9	5.65	F	ng/L		7	30 - 150
Acenaphthene	1.2	J	77.9	57.7		ng/L		73	30 - 150
Acenaphthylene	ND		77.9	59.9		ng/L		77	30 - 150
Acridine	ND	*	77.9	11.0	F	ng/L		14	30 - 150
Anthracene	ND		77.9	61.7		ng/L		79	30 - 150
Benzo[a]anthracene	ND		77.9	24.8		ng/L		32	30 - 150
Benzo[a]pyrene	ND		77.9	4.75	F	ng/L		6	30 - 150
Benzo[e]pyrene	ND		77.9	6.27	F	ng/L		8	37 - 105

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-14092-1 MS — **Client Sample ID: SLP10T-033011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	ND		77.9	7.32	F	ng/L		9	30 - 150
Benzo(b)thiophene	ND		77.9	59.8		ng/L		77	30 - 150
Benzo[k]fluoranthene	ND		77.9	6.73	F	ng/L		9	30 - 150
Benzo[g,h,i]perylene	ND		77.9	2.63	J F	ng/L		3	30 - 150
Carbazole	ND		77.9	63.5		ng/L		81	30 - 150
Chrysene	ND		77.9	30.3		ng/L		39	20 - 136
Dibenz(a,h)anthracene	ND		77.9	2.55	J F	ng/L		3	30 - 150
Dibenzofuran	ND		77.9	55.6		ng/L		71	30 - 150
Dibenzothiophene	ND		77.9	59.5		ng/L		76	30 - 150
Fluoranthene	ND		77.9	53.4		ng/L		69	30 - 150
Fluorene	ND		77.9	58.2		ng/L		75	34 - 96
Indene	ND		77.9	60.9		ng/L		78	22 - 86
Indole	ND		77.9	57.7		ng/L		74	30 - 150
Indeno[1,2,3-cd]pyrene	ND		77.9	2.68	J F	ng/L		3	30 - 150
Naphthalene	ND		77.9	63.5		ng/L		82	27 - 95
Perylene	ND		77.9	6.29	F	ng/L		8	30 - 150
Phenanthrene	ND		77.9	56.7		ng/L		73	30 - 150
Pyrene	1.0	J B	77.9	56.0		ng/L		71	30 - 150
Quinoline	ND		77.9	47.1		ng/L		60	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		77.9	52.5		ng/L		67	30 - 150
Biphenyl	ND		77.9	57.5		ng/L		74	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*70*		*23 - 84*
Chrysene-d12 (Surr)	*35*		*28 - 101*
Naphthalene-d8 (Surr)	*77*		*22 - 97*

Lab Sample ID: 280-14092-1 MSD — **Client Sample ID: SLP10T-033011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	ND		80.8	66.1		ng/L		82	30 - 150	6	50
2,3-Dihydroindene	3.1	J	80.8	61.4		ng/L		72	30 - 150	6	50
1-Methylnaphthalene	ND		80.8	68.0		ng/L		84	30 - 150	6	50
2-Methylnaphthalene	ND		80.8	63.3		ng/L		78	25 - 95	5	50
3-Methylcholanthrene	ND		80.8	6.24	F	ng/L		8	30 - 150	10	50
Acenaphthene	1.2	J	80.8	61.0		ng/L		74	30 - 150	6	50
Acenaphthylene	ND		80.8	61.4		ng/L		76	30 - 150	3	50
Acridine	ND	*	80.8	ND	F	ng/L		0	30 - 150	NC	50
Anthracene	ND		80.8	66.8		ng/L		83	30 - 150	8	50
Benzo[a]anthracene	ND		80.8	32.7		ng/L		40	30 - 150	27	50
Benzo[a]pyrene	ND		80.8	6.69	F	ng/L		8	30 - 150	34	50
Benzo[e]pyrene	ND		80.8	7.84	F	ng/L		10	37 - 105	22	50
Benzo[b]fluoranthene	ND		80.8	8.64	F	ng/L		11	30 - 150	17	50
Benzo(b)thiophene	ND		80.8	62.1		ng/L		77	30 - 150	4	50
Benzo[k]fluoranthene	ND		80.8	8.27	F	ng/L		10	30 - 150	21	50
Benzo[g,h,i]perylene	ND		80.8	2.96	J F	ng/L		4	30 - 150	12	50
Carbazole	ND		80.8	63.2		ng/L		78	30 - 150	1	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-14092-1 MSD — **Client Sample ID: SLP10T-033011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62006 — **Prep Batch: 60492**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	ND		80.8	36.9		ng/L		46	20 - 136	20	50
Dibenz(a,h)anthracene	ND		80.8	2.51	J F	ng/L		3	30 - 150	2	50
Dibenzofuran	ND		80.8	58.3		ng/L		72	30 - 150	5	50
Dibenzothiophene	ND		80.8	62.5		ng/L		77	30 - 150	5	50
Fluoranthene	ND		80.8	56.0		ng/L		69	30 - 150	5	50
Fluorene	ND		80.8	60.6		ng/L		75	34 - 96	4	50
Indene	ND		80.8	64.2		ng/L		79	22 - 86	5	50
Indole	ND		80.8	59.3		ng/L		73	30 - 150	3	50
Indeno[1,2,3-cd]pyrene	ND		80.8	2.79	J F	ng/L		3	30 - 150	4	50
Naphthalene	ND		80.8	65.4		ng/L		81	27 - 95	3	50
Perylene	ND		80.8	7.85	F	ng/L		10	30 - 150	22	50
Phenanthrene	ND		80.8	59.0		ng/L		73	30 - 150	4	50
Pyrene	1.0	J B	80.8	59.0		ng/L		72	30 - 150	5	50
Quinoline	ND		80.8	38.9		ng/L		48	20 - 112	19	50
7,12-Dimethylbenz(a)anthracene	ND		80.8	52.6		ng/L		65	30 - 150	0	50
Biphenyl	ND		80.8	61.1		ng/L		76	30 - 150	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*73*		*23 - 84*
Chrysene-d12 (Surr)	*43*		*28 - 101*
Naphthalene-d8 (Surr)	*79*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

GC/MS Semi VOA

Prep Batch: 60492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-14092-1	SLP10T-033011	Total/NA	Water	3520C	
280-14092-1 MS	SLP10T-033011	Total/NA	Water	3520C	
280-14092-1 MSD	SLP10T-033011	Total/NA	Water	3520C	
280-14092-2	SLP10TD-033011	Total/NA	Water	3520C	
280-14092-3	SLP10TFB-033011	Total/NA	Water	3520C	
280-14092-4	SLP10TFBD-033011	Total/NA	Water	3520C	
280-14092-5	SLP6-033011	Total/NA	Water	3520C	
280-14092-6	W48-033011	Total/NA	Water	3520C	
LCS 280-60492/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-60492/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 62006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-14092-1	SLP10T-033011	Total/NA	Water	8270C	60492
280-14092-1 MS	SLP10T-033011	Total/NA	Water	8270C	60492
280-14092-1 MSD	SLP10T-033011	Total/NA	Water	8270C	60492
280-14092-2	SLP10TD-033011	Total/NA	Water	8270C	60492
280-14092-3	SLP10TFB-033011	Total/NA	Water	8270C	60492
LCS 280-60492/2-A	Lab Control Sample	Total/NA	Water	8270C	60492
MB 280-60492/1-A	Method Blank	Total/NA	Water	8270C	60492

Analysis Batch: 62069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-14092-4	SLP10TFBD-033011	Total/NA	Water	8270C	60492
280-14092-5	SLP6-033011	Total/NA	Water	8270C	60492
280-14092-6	W48-033011	Total/NA	Water	8270C	60492

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Client Sample ID: SLP10T-033011 — Lab Sample ID: 280-14092-1

Date Collected: 03/30/11 08:30 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4199.0	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62006	04/12/11 19:06	DPI	TAL DEN

Client Sample ID: SLP10TD-033011 — Lab Sample ID: 280-14092-2

Date Collected: 03/30/11 08:35 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3784.1	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62006	04/12/11 20:49	DPI	TAL DEN

Client Sample ID: SLP10TFB-033011 — Lab Sample ID: 280-14092-3

Date Collected: 03/30/11 08:20 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3714.0	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62006	04/12/11 21:23	DPI	TAL DEN

Client Sample ID: SLP10TFBD-033011 — Lab Sample ID: 280-14092-4

Date Collected: 03/30/11 08:25 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3989.9	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62069	04/13/11 10:03	DPI	TAL DEN

Client Sample ID: SLP6-033011 — Lab Sample ID: 280-14092-5

Date Collected: 03/30/11 09:50 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3962.8	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62069	04/13/11 08:55	DPI	TAL DEN

Client Sample ID: W48-033011 — Lab Sample ID: 280-14092-6

Date Collected: 03/30/11 11:00 — **Matrix: Water**
Date Received: 03/31/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3968.2	1000 uL	60492	04/02/11 13:45	TJA	TAL DEN
Total/NA	Analysis	8270C		1			62069	04/13/11 09:29	DPI	TAL DEN

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

3.4, 3.6, 3.6, 2.1
1.4, 2.6 FP
NP 3/31

Sampler ID _____
Temperature on Receipt _____
Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: City of St. Louis Park	Project Manager: Scott Anderson	Date: 3/30/11	Chain of Custody Number: 139425
Address: 7305 Oxford	Telephone Number (Area Code)/Fax Number: 952-924-2557	Lab Number	Page 1 of 1
City: St. Louis Park; State: MN; Zip Code: 55426	Site Contact: Dan Phelps	Lab Contact: Lisa U.	
Project Name and Location (State): Reilly Site / MN	Carrier/Waybill Number: FedEx		
Contract/Purchase Order/Quote No.: 60145681			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): PFAA PFTS	Special Instructions/ Conditions of Receipt
SLPTOT-033011	3/30/11	0830		X				6							X	
SLP10TD-033011		0835														
SLP10TFB-033011		0820														
SLP10TFBD-033011		0825														
SLP10TMS-033011		0840														
SLP10TMSD-033011		0845														
SLP6-033011		0950														
W48-033011		1100														

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	3/30/11	1500	1. Received By	3/31/11	0900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-14092-1

Login Number: 14092

List Source: TestAmerica Denver

List Number: 1

Creator: Paulsen, Lindsay T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Detection Limit Exceptions Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-14092-1

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8270C	Water	2,3-Benzofuran	ng/L	5.4	20
8270C	Water	2,3-Dihydroindene	ng/L	5.0	20
8270C	Water	1-Methylnaphthalene	ng/L	5.6	20
8270C	Water	2-Methylnaphthalene	ng/L	5.9	20
8270C	Water	Acenaphthene	ng/L	5.7	20
8270C	Water	Acenaphthylene	ng/L	4.8	20
8270C	Water	Acridine	ng/L	6.5	20
8270C	Water	Anthracene	ng/L	4.2	20
8270C	Water	Benzo[a]anthracene	ng/L	4.3	20
8270C	Water	Benzo[a]pyrene	ng/L	2.5	20
8270C	Water	Benzo[e]pyrene	ng/L	4.3	20
8270C	Water	Benzo[b]fluoranthene	ng/L	4.7	20
8270C	Water	Benzo(b)thiophene	ng/L	5.2	20
8270C	Water	Benzo[k]fluoranthene	ng/L	4.1	20
8270C	Water	Benzo[g,h,i]perylene	ng/L	6.2	20
8270C	Water	Carbazole	ng/L	3.8	20
8270C	Water	Chrysene	ng/L	5.6	20
8270C	Water	Dibenz(a,h)anthracene	ng/L	5.9	20
8270C	Water	Dibenzofuran	ng/L	5.7	20
8270C	Water	Dibenzothiophene	ng/L	4.1	20
8270C	Water	Fluoranthene	ng/L	4.6	20
8270C	Water	Fluorene	ng/L	4.1	20
8270C	Water	Indene	ng/L	4.7	20
8270C	Water	Indole	ng/L	4.7	20
8270C	Water	Indeno[1,2,3-cd]pyrene	ng/L	5.4	20
8270C	Water	Naphthalene	ng/L	8.6	20
8270C	Water	Perylene	ng/L	3.8	20
8270C	Water	Phenanthrene	ng/L	6.3	20
8270C	Water	Pyrene	ng/L	4.2	20
8270C	Water	Quinoline	ng/L	9.0	20
8270C	Water	Biphenyl	ng/L	5.6	20

SECOND QUARTER

PAH ANALYSIS

SCP10T
2nd QTR

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-16815-1
Client Project/Site: CSLP - Reilly Tar & Chemical

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Lisa B. Uriell

Authorized for release by:
07/08/2011 10:50:39 AM

Lisa Uriell
Project Manager I
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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Job ID: 280-16815-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-16815-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Eight samples were received under chain of custody on June 10, 2011. The samples were received at temperatures of 4.0°C, 4.8° C, 2.0°C, 4.0°C, 5.8°C, 4.8°C and 4.4°C. All sample containers were received in acceptable condition.

No anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Sample W410-06092011 (280-16815-8) was analyzed at two different dilutions to obtain all target analytes within the linear calibration range. Reporting limits were adjusted accordingly. Surrogate recoveries could not be calculated for the analysis performed at a dilution, because the extracts were diluted beyond the ability to quantitate recoveries.

Surrogates Fluorene-d10 and/or Chrysene-d12 were recovered below the QC control limits in the following samples, as detailed below. Matrix interference was not obvious. Upon re-aliquoting and reanalyzing, the surrogate recovery outlier was still present. Re-extraction was not possible due to insufficient remaining sample volume; therefore, the data is reported as is.

W24-06092011 (280-16815-5) recovered Chrysene-d12 at 27% (limits 28-101%)
SLP6-06092011 (280-16815-6) recovered Chrysene-d12 at 25% (limits 28-101%)
W410-06092011 (280-16815-8) recovered Chrysene-d12 at 17% (limits 28-101%)
W410-06092011 (280-16815-8) recovered Fluorene-d10 at 85% (limits 23-84%)

Low levels of Pyrene are present in the method blank associated with prep batch 280-72093. Because the concentration in the method blank is not present at a level greater than one half the reporting limit, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B". Usability of the sample data is not compromised.

The LCS associated with prep batch 280-72093 exhibited the percent recovery below the QC control limits for Acridine at 7% (limits 30-150%). The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

The MS/MSD associated with prep batch 280-72093 was performed using sample SLP10T-06092011 (280-16815-1), as requested. MS/MSD exhibited 14 of the 33 Matrix Spike compound recoveries and 1 of the 3 surrogate recoveries outside the control limits. MS/MSD exhibited 11 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited 9

Job ID: 280-16815-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

of the 33 Relative Percent Difference (RPD) data outside the control limits. The MS/MSD exhibited percent recoveries and/or RPD data outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylnaphthalene	Acridine	Anthracene
Benzo[a]anthracene	Benzo[a]pyrene	Benzo[e]pyrene
Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[ghi]perylene
Chrysene	Dibenzo(a,h)pyrene	Indole
Indeno[1,2,3-cd]pyrene	Perylene	Quinoline
7,12-Dimethylbenz(a)anthracene		Chrysene-d12

No other anomalies were noted.

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-16815-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	31	31
MB Surrogates	3	3
LCS	7	7
LCS Surrogates	3	3
FB/FBD	62	62
MS	7	6
MS Surrogates	3	2
MSD	7	6
MSD Surrogates	3	3
MS/MSD RPD	7	4
Sample/Dup. RPD	31	29
Sample Surrogates	24	20
Samples and QC Internal Standard Area	36	36
TOTAL	**224**	**212**
% Completeness	**94.6%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD					
JOB 280-16815-1					
Sample: SLP10T-06092011		DUP: SLP10TDUP-06092011			
Compound	Result	Compound	Result	RPD	RPD>50%
Acenaphthene	4.3	Acenaphthene	4.1	4.8	
Acenaphthylene	1.1	Acenaphthylene	ND	NC	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	ND	0.0	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	ND	2,3-Benzofuran	ND	0.0	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	ND	Benzo(b)thiophene	0.91	NC	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	ND	Carbazole	ND	0.0	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	ND	Dibenzofuran	ND	0.0	
Dibenzothiophene	ND	Dibenzothiophene	ND	0.0	
2,3-Dihydroindene	10	2,3-Dihydroindene	9.8	2.0	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	ND	Fluorene	ND	0.0	
Indene	ND	Indene	ND	0.0	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	ND	Indole	ND	0.0	
2-Methylnaphthalene	2.8	2-Methylnaphthalene	1.2	80.0	p
1-Methylnaphthalene	2.8	1-Methylnaphthalene	1.6	54.5	p
Naphthalene	5.4	Naphthalene	3.7	37.4	
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	1.4	Pyrene	ND	NC	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: SLP10T-06092011 — Lab Sample ID: 280-16815-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	10		4.9	0.69	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.8	J	5.5	0.88	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	2.8	J	5.8	0.97	ng/L	1		8270C	Total/NA
Acenaphthene	4.3	J	5.6	0.49	ng/L	1		8270C	Total/NA
Acenaphthylene	1.1	J	4.7	0.76	ng/L	1		8270C	Total/NA
Naphthalene	5.4	J	8.5	1.1	ng/L	1		8270C	Total/NA
Pyrene	1.4	J B	4.2	0.98	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TDUP-06092011 — Lab Sample ID: 280-16815-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	9.8		4.8	0.67	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.6	J	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.2	J	5.6	0.93	ng/L	1		8270C	Total/NA
Acenaphthene	4.1	J	5.4	0.48	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	0.91	J	5.0	0.71	ng/L	1		8270C	Total/NA
Naphthalene	3.7	J	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFB-06092011 — Lab Sample ID: 280-16815-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.5	J	8.3	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFBD-06092011 — Lab Sample ID: 280-16815-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.6	J	8.6	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: W24-06092011 — Lab Sample ID: 280-16815-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.87	J	5.3	0.67	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	2.9	J	4.9	0.69	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	0.92	J	5.5	0.87	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.4	J	5.8	0.96	ng/L	1		8270C	Total/NA
Acenaphthene	2.5	J	5.6	0.49	ng/L	1		8270C	Total/NA
Acenaphthylene	0.87	J	4.7	0.76	ng/L	1		8270C	Total/NA
Acridine	7.1	*	6.4	6.4	ng/L	1		8270C	Total/NA
Anthracene	5.9		4.1	0.79	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	1.2	J	5.1	0.74	ng/L	1		8270C	Total/NA
Carbazole	2.2	J	3.7	0.71	ng/L	1		8270C	Total/NA
Indene	4.4	J	4.6	3.2	ng/L	1		8270C	Total/NA
Indole	2.9	J	4.6	1.7	ng/L	1		8270C	Total/NA
Naphthalene	4.4	J	8.4	1.1	ng/L	1		8270C	Total/NA
Pyrene	2.9	J B	4.1	0.97	ng/L	1		8270C	Total/NA

Client Sample ID: SLP6-06092011 — Lab Sample ID: 280-16815-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	56		5.0	0.69	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.6	J	5.6	0.88	ng/L	1		8270C	Total/NA
Acenaphthene	80		5.7	0.50	ng/L	1		8270C	Total/NA
Acridine	13	*	6.5	6.5	ng/L	1		8270C	Total/NA
Anthracene	2.7	J	4.2	0.79	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-16815-1	SLP10T-06092011	Water	06/09/11 07:10	06/10/11 09:30
280-16815-2	SLP10TDUP-06092011	Water	06/09/11 07:15	06/10/11 09:30
280-16815-3	SLP10TFB-06092011	Water	06/09/11 07:00	06/10/11 09:30
280-16815-4	SLP10TFBD-06092011	Water	06/09/11 07:05	06/10/11 09:30
280-16815-5	W24-06092011	Water	06/09/11 08:55	06/10/11 09:30
280-16815-6	SLP6-06092011	Water	06/09/11 09:10	06/10/11 09:30
280-16815-7	W119-06092011	Water	06/09/11 11:00	06/10/11 09:30
280-16815-8	W410-06092011	Water	06/09/11 10:30	06/10/11 09:30

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: SLP10T-06092011
Date Collected: 06/09/11 07:10
Date Received: 06/10/11 09:30

Lab Sample ID: 280-16815-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.3	0.67	ng/L		06/15/11 17:10	07/06/11 12:46	1
2,3-Dihydroindene	**10**		4.9	0.69	ng/L		06/15/11 17:10	07/06/11 12:46	1
1-Methylnaphthalene	**2.8**	J	5.5	0.88	ng/L		06/15/11 17:10	07/06/11 12:46	1
2-Methylnaphthalene	**2.8**	J	5.8	0.97	ng/L		06/15/11 17:10	07/06/11 12:46	1
Acenaphthene	**4.3**	J	5.6	0.49	ng/L		06/15/11 17:10	07/06/11 12:46	1
Acenaphthylene	**1.1**	J	4.7	0.76	ng/L		06/15/11 17:10	07/06/11 12:46	1
Acridine	ND	*	6.4	6.4	ng/L		06/15/11 17:10	07/06/11 12:46	1
Anthracene	ND		4.2	0.79	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[a]anthracene	ND		4.3	0.91	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[b]fluoranthene	ND		4.6	1.4	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo(b)thiophene	ND		5.1	0.74	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Benzo[g,h,i]perylene	ND		6.1	1.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Carbazole	ND		3.8	0.71	ng/L		06/15/11 17:10	07/06/11 12:46	1
Chrysene	ND		5.5	1.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Dibenz(a,h)anthracene	ND		5.8	1.0	ng/L		06/15/11 17:10	07/06/11 12:46	1
Dibenzofuran	ND		5.6	0.98	ng/L		06/15/11 17:10	07/06/11 12:46	1
Dibenzothiophene	ND		4.1	0.97	ng/L		06/15/11 17:10	07/06/11 12:46	1
Fluoranthene	ND		4.6	1.7	ng/L		06/15/11 17:10	07/06/11 12:46	1
Fluorene	ND		4.1	0.84	ng/L		06/15/11 17:10	07/06/11 12:46	1
Indene	ND		4.6	3.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Indole	ND		4.6	1.7	ng/L		06/15/11 17:10	07/06/11 12:46	1
Indeno[1,2,3-cd]pyrene	ND		5.3	1.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Naphthalene	**5.4**	J	8.5	1.1	ng/L		06/15/11 17:10	07/06/11 12:46	1
Perylene	ND		3.8	3.8	ng/L		06/15/11 17:10	07/06/11 12:46	1
Phenanthrene	ND		6.2	3.2	ng/L		06/15/11 17:10	07/06/11 12:46	1
Pyrene	**1.4**	J B	4.2	0.98	ng/L		06/15/11 17:10	07/06/11 12:46	1
Quinoline	ND		8.9	5.6	ng/L		06/15/11 17:10	07/06/11 12:46	1
Biphenyl	ND		5.5	1.0	ng/L		06/15/11 17:10	07/06/11 12:46	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*76*		*23 - 84*	*06/15/11 17:10*	*07/06/11 12:46*	*1*
Chrysene-d12 (Surr)	*48*		*28 - 101*	*06/15/11 17:10*	*07/06/11 12:46*	*1*
Naphthalene-d8 (Surr)	*78*		*22 - 97*	*06/15/11 17:10*	*07/06/11 12:46*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: SLP10TDUP-06092011
Date Collected: 06/09/11 07:15
Date Received: 06/10/11 09:30

Lab Sample ID: 280-16815-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.65	ng/L		06/15/11 17:10	07/06/11 14:36	1
2,3-Dihydroindene	**9.8**		4.8	0.67	ng/L		06/15/11 17:10	07/06/11 14:36	1
1-Methylnaphthalene	**1.6**	J	5.3	0.85	ng/L		06/15/11 17:10	07/06/11 14:36	1
2-Methylnaphthalene	**1.2**	J	5.6	0.93	ng/L		06/15/11 17:10	07/06/11 14:36	1
Acenaphthene	**4.1**	J	5.4	0.48	ng/L		06/15/11 17:10	07/06/11 14:36	1
Acenaphthylene	ND		4.6	0.73	ng/L		06/15/11 17:10	07/06/11 14:36	1
Acridine	ND	*	6.2	6.2	ng/L		06/15/11 17:10	07/06/11 14:36	1
Anthracene	ND		4.0	0.76	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo(b)thiophene	**0.91**	J	5.0	0.71	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		06/15/11 17:10	07/06/11 14:36	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		06/15/11 17:10	07/06/11 14:36	1
Carbazole	ND		3.6	0.69	ng/L		06/15/11 17:10	07/06/11 14:36	1
Chrysene	ND		5.3	1.2	ng/L		06/15/11 17:10	07/06/11 14:36	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		06/15/11 17:10	07/06/11 14:36	1
Dibenzofuran	ND		5.4	0.94	ng/L		06/15/11 17:10	07/06/11 14:36	1
Dibenzothiophene	ND		3.9	0.93	ng/L		06/15/11 17:10	07/06/11 14:36	1
Fluoranthene	ND		4.4	1.6	ng/L		06/15/11 17:10	07/06/11 14:36	1
Fluorene	ND		3.9	0.81	ng/L		06/15/11 17:10	07/06/11 14:36	1
Indene	ND		4.5	3.1	ng/L		06/15/11 17:10	07/06/11 14:36	1
Indole	ND		4.5	1.6	ng/L		06/15/11 17:10	07/06/11 14:36	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		06/15/11 17:10	07/06/11 14:36	1
Naphthalene	**3.7**	J	8.2	1.1	ng/L		06/15/11 17:10	07/06/11 14:36	1
Perylene	ND		3.6	3.6	ng/L		06/15/11 17:10	07/06/11 14:36	1
Phenanthrene	ND		6.0	3.1	ng/L		06/15/11 17:10	07/06/11 14:36	1
Pyrene	ND		4.0	0.94	ng/L		06/15/11 17:10	07/06/11 14:36	1
Quinoline	ND		8.6	5.4	ng/L		06/15/11 17:10	07/06/11 14:36	1
Biphenyl	ND		5.3	1.0	ng/L		06/15/11 17:10	07/06/11 14:36	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*73*		*23 - 84*	*06/15/11 17:10*	*07/06/11 14:36*	*1*
Chrysene-d12 (Surr)	*32*		*28 - 101*	*06/15/11 17:10*	*07/06/11 14:36*	*1*
Naphthalene-d8 (Surr)	*79*		*22 - 97*	*06/15/11 17:10*	*07/06/11 14:36*	*1*

Client Sample ID: SLP10TFB-06092011

Date Collected: 06/09/11 07:00
Date Received: 06/10/11 09:30

Lab Sample ID: 280-16815-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.2	0.65	ng/L		06/15/11 17:10	07/06/11 15:13	1
2,3-Dihydroindene	ND		4.8	0.67	ng/L		06/15/11 17:10	07/06/11 15:13	1
1-Methylnaphthalene	ND		5.4	0.85	ng/L		06/15/11 17:10	07/06/11 15:13	1
2-Methylnaphthalene	ND		5.7	0.94	ng/L		06/15/11 17:10	07/06/11 15:13	1
Acenaphthene	ND		5.5	0.48	ng/L		06/15/11 17:10	07/06/11 15:13	1
Acenaphthylene	ND		4.6	0.74	ng/L		06/15/11 17:10	07/06/11 15:13	1
Acridine	ND	*	6.2	6.2	ng/L		06/15/11 17:10	07/06/11 15:13	1
Anthracene	ND		4.0	0.77	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo(b)thiophene	ND		5.0	0.72	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		06/15/11 17:10	07/06/11 15:13	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		06/15/11 17:10	07/06/11 15:13	1
Carbazole	ND		3.6	0.69	ng/L		06/15/11 17:10	07/06/11 15:13	1
Chrysene	ND		5.4	1.2	ng/L		06/15/11 17:10	07/06/11 15:13	1
Dibenz(a,h)anthracene	ND		5.7	1.0	ng/L		06/15/11 17:10	07/06/11 15:13	1
Dibenzofuran	ND		5.5	0.95	ng/L		06/15/11 17:10	07/06/11 15:13	1
Dibenzothiophene	ND		3.9	0.94	ng/L		06/15/11 17:10	07/06/11 15:13	1
Fluoranthene	ND		4.4	1.6	ng/L		06/15/11 17:10	07/06/11 15:13	1
Fluorene	ND		3.9	0.82	ng/L		06/15/11 17:10	07/06/11 15:13	1
Indene	ND		4.5	3.1	ng/L		06/15/11 17:10	07/06/11 15:13	1
Indole	ND		4.5	1.7	ng/L		06/15/11 17:10	07/06/11 15:13	1
Indeno[1,2,3-cd]pyrene	ND		5.2	1.2	ng/L		06/15/11 17:10	07/06/11 15:13	1
Naphthalene	1.5	J	8.3	1.1	ng/L		06/15/11 17:10	07/06/11 15:13	1
Perylene	ND		3.7	3.7	ng/L		06/15/11 17:10	07/06/11 15:13	1
Phenanthrene	ND		6.0	3.1	ng/L		06/15/11 17:10	07/06/11 15:13	1
Pyrene	ND		4.0	0.95	ng/L		06/15/11 17:10	07/06/11 15:13	1
Quinoline	ND		8.6	5.4	ng/L		06/15/11 17:10	07/06/11 15:13	1
Biphenyl	ND		5.4	1.0	ng/L		06/15/11 17:10	07/06/11 15:13	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*65*		*23 - 84*	*06/15/11 17:10*	*07/06/11 15:13*	*1*
Chrysene-d12 (Surr)	*68*		*28 - 101*	*06/15/11 17:10*	*07/06/11 15:13*	*1*
Naphthalene-d8 (Surr)	*61*		*22 - 97*	*06/15/11 17:10*	*07/06/11 15:13*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: SLP10TFBD-06092011
Date Collected: 06/09/11 07:05
Date Received: 06/10/11 09:30

Lab Sample ID: 280-16815-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		06/15/11 17:10	07/06/11 15:49	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		06/15/11 17:10	07/06/11 15:49	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		06/15/11 17:10	07/06/11 15:49	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		06/15/11 17:10	07/06/11 15:49	1
Acenaphthene	ND		5.7	0.50	ng/L		06/15/11 17:10	07/06/11 15:49	1
Acenaphthylene	ND		4.8	0.77	ng/L		06/15/11 17:10	07/06/11 15:49	1
Acridine	ND	*	6.5	6.5	ng/L		06/15/11 17:10	07/06/11 15:49	1
Anthracene	ND		4.2	0.80	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		06/15/11 17:10	07/06/11 15:49	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		06/15/11 17:10	07/06/11 15:49	1
Carbazole	ND		3.8	0.72	ng/L		06/15/11 17:10	07/06/11 15:49	1
Chrysene	ND		5.6	1.2	ng/L		06/15/11 17:10	07/06/11 15:49	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		06/15/11 17:10	07/06/11 15:49	1
Dibenzofuran	ND		5.7	0.99	ng/L		06/15/11 17:10	07/06/11 15:49	1
Dibenzothiophene	ND		4.1	0.98	ng/L		06/15/11 17:10	07/06/11 15:49	1
Fluoranthene	ND		4.6	1.7	ng/L		06/15/11 17:10	07/06/11 15:49	1
Fluorene	ND		4.1	0.85	ng/L		06/15/11 17:10	07/06/11 15:49	1
Indene	ND		4.7	3.3	ng/L		06/15/11 17:10	07/06/11 15:49	1
Indole	ND		4.7	1.7	ng/L		06/15/11 17:10	07/06/11 15:49	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		06/15/11 17:10	07/06/11 15:49	1
Naphthalene	**1.6**	J	8.6	1.1	ng/L		06/15/11 17:10	07/06/11 15:49	1
Perylene	ND		3.8	3.8	ng/L		06/15/11 17:10	07/06/11 15:49	1
Phenanthrene	ND		6.3	3.2	ng/L		06/15/11 17:10	07/06/11 15:49	1
Pyrene	ND		4.2	0.99	ng/L		06/15/11 17:10	07/06/11 15:49	1
Quinoline	ND		9.0	5.6	ng/L		06/15/11 17:10	07/06/11 15:49	1
Biphenyl	ND		5.6	1.0	ng/L		06/15/11 17:10	07/06/11 15:49	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*06/15/11 17:10*	*07/06/11 15:49*	*1*
Chrysene-d12 (Surr)	*73*		*28 - 101*	*06/15/11 17:10*	*07/06/11 15:49*	*1*
Naphthalene-d8 (Surr)	*72*		*22 - 97*	*06/15/11 17:10*	*07/06/11 15:49*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FD10	sene-d12 (	thalene-d8
Lab Sample ID	**Client Sample ID**	(23-84)	(28-101)	(22-97)
280-16815-1	SLP10T-06092011	76	48	78
280-16815-1 MS	SLP10T-06092011	69	24 X	72
280-16815-1 MSD	SLP10T-06092011	76	47	74
280-16815-2	SLP10TDUP-06092011	73	32	79
280-16815-3	SLP10TFB-06092011	65	68	61
280-16815-4	SLP10TFBD-06092011	74	73	72
280-16815-5	W24-06092011	78	27 X	79
280-16815-6	SLP6-06092011	74	25 X	77
280-16815-7	W119-06092011	77	34	80
280-16815-8	W410-06092011	85 X	17 X	74
280-16815-8 - DL	W410-06092011	83 D	0 D	71 D
LCS 280-72093/2-A	Lab Control Sample	77	78	76
MB 280-72093/1-A	Method Blank	74	68	77

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-72093/1-A
Matrix: Water
Analysis Batch: 75413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		06/15/11 17:10	07/06/11 11:33	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		06/15/11 17:10	07/06/11 11:33	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		06/15/11 17:10	07/06/11 11:33	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		06/15/11 17:10	07/06/11 11:33	1
3-Methylcholanthrene	ND		5.0	5.0	ng/L		06/15/11 17:10	07/06/11 11:33	1
Acenaphthene	ND		5.7	0.50	ng/L		06/15/11 17:10	07/06/11 11:33	1
Acenaphthylene	ND		4.8	0.77	ng/L		06/15/11 17:10	07/06/11 11:33	1
Acridine	ND		6.5	6.5	ng/L		06/15/11 17:10	07/06/11 11:33	1
Anthracene	ND		4.2	0.80	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		06/15/11 17:10	07/06/11 11:33	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		06/15/11 17:10	07/06/11 11:33	1
Carbazole	ND		3.8	0.72	ng/L		06/15/11 17:10	07/06/11 11:33	1
Chrysene	ND		5.6	1.2	ng/L		06/15/11 17:10	07/06/11 11:33	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		06/15/11 17:10	07/06/11 11:33	1
Dibenzofuran	ND		5.7	0.99	ng/L		06/15/11 17:10	07/06/11 11:33	1
Dibenzothiophene	ND		4.1	0.98	ng/L		06/15/11 17:10	07/06/11 11:33	1
Fluoranthene	ND		4.6	1.7	ng/L		06/15/11 17:10	07/06/11 11:33	1
Fluorene	ND		4.1	0.85	ng/L		06/15/11 17:10	07/06/11 11:33	1
Indene	ND		4.7	3.3	ng/L		06/15/11 17:10	07/06/11 11:33	1
Indole	ND		4.7	1.7	ng/L		06/15/11 17:10	07/06/11 11:33	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		06/15/11 17:10	07/06/11 11:33	1
Naphthalene	ND		8.6	1.1	ng/L		06/15/11 17:10	07/06/11 11:33	1
Perylene	ND		3.8	3.8	ng/L		06/15/11 17:10	07/06/11 11:33	1
Phenanthrene	ND		6.3	3.2	ng/L		06/15/11 17:10	07/06/11 11:33	1
Pyrene	1.55	J	4.2	0.99	ng/L		06/15/11 17:10	07/06/11 11:33	1
Quinoline	ND		9.0	5.7	ng/L		06/15/11 17:10	07/06/11 11:33	1
7,12-Dimethylbenz(a)anthracene	ND		2.8	2.3	ng/L		06/15/11 17:10	07/06/11 11:33	1
Biphenyl	ND		5.6	1.1	ng/L		06/15/11 17:10	07/06/11 11:33	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*06/15/11 17:10*	*07/06/11 11:33*	*1*
Chrysene-d12 (Surr)	*68*		*28 - 101*	*06/15/11 17:10*	*07/06/11 11:33*	*1*
Naphthalene-d8 (Surr)	*77*		*22 - 97*	*06/15/11 17:10*	*07/06/11 11:33*	*1*

Lab Sample ID: LCS 280-72093/2-A
Matrix: Water
Analysis Batch: 75413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	75.0	55.9		ng/L		75	30 - 150
2,3-Dihydroindene	75.0	53.2		ng/L		71	30 - 150
1-Methylnaphthalene	75.0	61.1		ng/L		81	30 - 150
2-Methylnaphthalene	75.0	58.4		ng/L		78	25 - 95
Acenaphthene	75.0	61.1		ng/L		81	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-72093/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 75413 — **Prep Batch: 72093**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthylene	75.0	60.7		ng/L		81	30 - 150
Acridine	75.0	ND	*	ng/L		7	30 - 150
Anthracene	75.0	60.0		ng/L		80	30 - 150
Benzo[a]anthracene	75.0	59.0		ng/L		79	30 - 150
Benzo[a]pyrene	75.0	53.8		ng/L		72	30 - 150
Benzo[e]pyrene	75.0	60.8		ng/L		81	37 - 105
Benzo[b]fluoranthene	75.0	58.4		ng/L		78	30 - 150
Benzo(b)thiophene	75.0	58.1		ng/L		77	30 - 150
Benzo[k]fluoranthene	75.0	67.0		ng/L		89	30 - 150
Benzo[g,h,i]perylene	75.0	69.2		ng/L		92	30 - 150
Carbazole	75.0	59.6		ng/L		80	30 - 150
Chrysene	75.0	62.8		ng/L		84	20 - 136
Dibenz(a,h)anthracene	75.0	69.6		ng/L		93	30 - 150
Dibenzofuran	75.0	59.9		ng/L		80	30 - 150
Dibenzothiophene	75.0	59.6		ng/L		79	30 - 150
Fluoranthene	75.0	65.8		ng/L		88	30 - 150
Fluorene	75.0	62.9		ng/L		84	34 - 96
Indene	75.0	54.0		ng/L		72	22 - 86
Indole	75.0	49.0		ng/L		65	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	72.2		ng/L		96	30 - 150
Naphthalene	75.0	58.9		ng/L		79	27 - 95
Perylene	75.0	51.3		ng/L		68	30 - 150
Phenanthrene	75.0	63.0		ng/L		84	30 - 150
Pyrene	75.0	60.3		ng/L		80	30 - 150
Quinoline	75.0	25.7		ng/L		34	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	36.0		ng/L		48	30 - 150
Biphenyl	75.0	58.3		ng/L		78	30 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*77*		*23 - 84*
Chrysene-d12 (Surr)	*78*		*28 - 101*
Naphthalene-d8 (Surr)	*76*		*22 - 97*

Lab Sample ID: 280-16815-1 MS — **Client Sample ID: SLP10T-06092011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 75413 — **Prep Batch: 72093**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	ND		74.4	51.6		ng/L		69	30 - 150
2,3-Dihydroindene	10		74.4	56.0		ng/L		62	30 - 150
1-Methylnaphthalene	2.8	J	74.4	57.7		ng/L		74	30 - 150
2-Methylnaphthalene	2.8	J	74.4	53.7		ng/L		68	25 - 95
3-Methylcholanthrene	ND		74.4	ND	F	ng/L		0	30 - 150
Acenaphthene	4.3	J	74.4	59.3		ng/L		74	30 - 150
Acenaphthylene	1.1	J	74.4	50.2		ng/L		66	30 - 150
Acridine	ND	*	74.4	9.99	F	ng/L		13	30 - 150
Anthracene	ND		74.4	14.1	F	ng/L		19	30 - 150
Benzo[a]anthracene	ND		74.4	12.9	F	ng/L		17	30 - 150
Benzo[a]pyrene	ND		74.4	ND	F	ng/L		0	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-16815-1 MS — **Client Sample ID: SLP10T-06092011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 75413 — **Prep Batch: 72093**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Benzo[e]pyrene	ND		74.4	4.86	F	ng/L		7	37 - 105
Benzo[b]fluoranthene	ND		74.4	3.60	J F	ng/L		5	30 - 150
Benzo(b)thiophene	ND		74.4	55.2		ng/L		74	30 - 150
Benzo[k]fluoranthene	ND		74.4	6.42	F	ng/L		9	30 - 150
Benzo[g,h,i]perylene	ND		74.4	4.21	J F	ng/L		6	30 - 150
Carbazole	ND		74.4	52.5		ng/L		70	30 - 150
Chrysene	ND		74.4	19.2		ng/L		26	20 - 136
Dibenz(a,h)anthracene	ND		74.4	3.55	J F	ng/L		5	30 - 150
Dibenzofuran	ND		74.4	51.9		ng/L		70	30 - 150
Dibenzothiophene	ND		74.4	47.0		ng/L		63	30 - 150
Fluoranthene	ND		74.4	48.9		ng/L		66	30 - 150
Fluorene	ND		74.4	57.1		ng/L		77	34 - 96
Indene	ND		74.4	40.9		ng/L		55	22 - 86
Indole	ND		74.4	4.58	J F	ng/L		6	30 - 150
Indeno[1,2,3-cd]pyrene	ND		74.4	3.70	J F	ng/L		5	30 - 150
Naphthalene	5.4	J	74.4	56.8		ng/L		69	27 - 95
Perylene	ND		74.4	ND	F	ng/L		0	30 - 150
Phenanthrene	ND		74.4	56.4		ng/L		76	30 - 150
Pyrene	1.4	J B	74.4	43.0		ng/L		56	30 - 150
Quinoline	ND		74.4	28.8		ng/L		39	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		74.4	ND	F	ng/L		0	30 - 150
Biphenyl	ND		74.4	54.1		ng/L		73	30 - 150

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*69*		*23 - 84*
Chrysene-d12 (Surr)	*24*	*X*	*28 - 101*
Naphthalene-d8 (Surr)	*72*		*22 - 97*

Lab Sample ID: 280-16815-1 MSD — **Client Sample ID: SLP10T-06092011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 75413 — **Prep Batch: 72093**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	ND		73.7	52.8		ng/L		72	30 - 150	2	50
2,3-Dihydroindene	10		73.7	56.1		ng/L		62	30 - 150	0	50
1-Methylnaphthalene	2.8	J	73.7	59.0		ng/L		76	30 - 150	2	50
2-Methylnaphthalene	2.8	J	73.7	55.1		ng/L		71	25 - 95	3	50
3-Methylcholanthrene	ND		73.7	ND	F	ng/L		0	30 - 150	NC	50
Acenaphthene	4.3	J	73.7	62.2		ng/L		78	30 - 150	5	50
Acenaphthylene	1.1	J	73.7	55.3		ng/L		73	30 - 150	10	50
Acridine	ND	*	73.7	18.6	F	ng/L		25	30 - 150	60	50
Anthracene	ND		73.7	36.9	F	ng/L		50	30 - 150	89	50
Benzo[a]anthracene	ND		73.7	32.1	F	ng/L		44	30 - 150	85	50
Benzo[a]pyrene	ND		73.7	5.46	F	ng/L		7	30 - 150	NC	50
Benzo[e]pyrene	ND		73.7	9.98	F	ng/L		14	37 - 105	69	50
Benzo[b]fluoranthene	ND		73.7	9.02	F	ng/L		12	30 - 150	86	50
Benzo(b)thiophene	ND		73.7	56.5		ng/L		77	30 - 150	2	50
Benzo[k]fluoranthene	ND		73.7	11.9	F	ng/L		16	30 - 150	60	50
Benzo[g,h,i]perylene	ND		73.7	5.19	J F	ng/L		7	30 - 150	21	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-16815-1 MSD — **Client Sample ID: SLP10T-06092011**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 75413 — **Prep Batch: 72093**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Carbazole	ND		73.7	60.3		ng/L		82	30 - 150	14	50
Chrysene	ND		73.7	37.7	F	ng/L		51	20 - 136	65	50
Dibenz(a,h)anthracene	ND		73.7	4.44	J F	ng/L		6	30 - 150	22	50
Dibenzofuran	ND		73.7	57.2		ng/L		78	30 - 150	10	50
Dibenzothiophene	ND		73.7	56.8		ng/L		77	30 - 150	19	50
Fluoranthene	ND		73.7	62.0		ng/L		84	30 - 150	24	50
Fluorene	ND		73.7	59.2		ng/L		80	34 - 96	4	50
Indene	ND		73.7	47.2		ng/L		64	22 - 86	14	50
Indole	ND		73.7	27.8	F	ng/L		38	30 - 150	143	50
Indeno[1,2,3-cd]pyrene	ND		73.7	4.95	J F	ng/L		7	30 - 150	29	50
Naphthalene	5.4	J	73.7	57.6		ng/L		71	27 - 95	1	50
Perylene	ND		73.7	8.51	F	ng/L		12	30 - 150	NC	50
Phenanthrene	ND		73.7	59.9		ng/L		81	30 - 150	6	50
Pyrene	1.4	J B	73.7	55.0		ng/L		73	30 - 150	24	50
Quinoline	ND		73.7	52.1	F	ng/L		71	20 - 112	58	50
7,12-Dimethylbenz(a)anthracene	ND		73.7	16.4	F	ng/L		22	30 - 150	NC	50
Biphenyl	ND		73.7	55.8		ng/L		76	30 - 150	3	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*76*		*23 - 84*
Chrysene-d12 (Surr)	*47*		*28 - 101*
Naphthalene-d8 (Surr)	*74*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

GC/MS Semi VOA

Prep Batch: 72093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-72093/1-A	Method Blank	Total/NA	Water	3520C	
LCS 280-72093/2-A	Lab Control Sample	Total/NA	Water	3520C	
280-16815-1	SLP10T-06092011	Total/NA	Water	3520C	
280-16815-1 MS	SLP10T-06092011	Total/NA	Water	3520C	
280-16815-1 MSD	SLP10T-06092011	Total/NA	Water	3520C	
280-16815-2	SLP10TDUP-06092011	Total/NA	Water	3520C	
280-16815-3	SLP10TFB-06092011	Total/NA	Water	3520C	
280-16815-4	SLP10TFBD-06092011	Total/NA	Water	3520C	
280-16815-5	W24-06092011	Total/NA	Water	3520C	
280-16815-6	SLP6-06092011	Total/NA	Water	3520C	
280-16815-7	W119-06092011	Total/NA	Water	3520C	
280-16815-8	W410-06092011	Total/NA	Water	3520C	
280-16815-8 - DL	W410-06092011	Total/NA	Water	3520C	

Analysis Batch: 75413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-72093/1-A	Method Blank	Total/NA	Water	8270C	72093
LCS 280-72093/2-A	Lab Control Sample	Total/NA	Water	8270C	72093
280-16815-1	SLP10T-06092011	Total/NA	Water	8270C	72093
280-16815-1 MS	SLP10T-06092011	Total/NA	Water	8270C	72093
280-16815-1 MSD	SLP10T-06092011	Total/NA	Water	8270C	72093
280-16815-2	SLP10TDUP-06092011	Total/NA	Water	8270C	72093
280-16815-3	SLP10TFB-06092011	Total/NA	Water	8270C	72093
280-16815-4	SLP10TFBD-06092011	Total/NA	Water	8270C	72093
280-16815-5	W24-06092011	Total/NA	Water	8270C	72093
280-16815-6	SLP6-06092011	Total/NA	Water	8270C	72093
280-16815-7	W119-06092011	Total/NA	Water	8270C	72093
280-16815-8	W410-06092011	Total/NA	Water	8270C	72093

Analysis Batch: 75518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-16815-8 - DL	W410-06092011	Total/NA	Water	8270C	72093

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: SLP10T-06092011 — Lab Sample ID: 280-16815-1

Date Collected: 06/09/11 07:10
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4043.7 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 12:46	DPI	TAL DEN

Client Sample ID: SLP10TDUP-06092011 — Lab Sample ID: 280-16815-2

Date Collected: 06/09/11 07:15
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4197.9 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 14:36	DPI	TAL DEN

Client Sample ID: SLP10TFB-06092011 — Lab Sample ID: 280-16815-3

Date Collected: 06/09/11 07:00
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4169.3 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 15:13	DPI	TAL DEN

Client Sample ID: SLP10TFBD-06092011 — Lab Sample ID: 280-16815-4

Date Collected: 06/09/11 07:05
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4009.3 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 15:49	DPI	TAL DEN

Client Sample ID: W24-06092011 — Lab Sample ID: 280-16815-5

Date Collected: 06/09/11 08:55
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4071.1 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 16:26	DPI	TAL DEN

Client Sample ID: SLP6-06092011 — Lab Sample ID: 280-16815-6

Date Collected: 06/09/11 09:10
Date Received: 06/10/11 09:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4030 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 17:04	DPI	TAL DEN

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Client Sample ID: W119-06092011

Lab Sample ID: 280-16815-7

Date Collected: 06/09/11 11:00
Matrix: Water
Date Received: 06/10/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4004 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 17:40	DPI	TAL DEN

Client Sample ID: W410-06092011

Lab Sample ID: 280-16815-8

Date Collected: 06/09/11 10:30
Matrix: Water
Date Received: 06/10/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4005 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C		1			75413	07/06/11 18:17	DPI	TAL DEN
Total/NA	Prep	3520C	DL		4005 mL	1000 uL	72093	06/15/11 17:10	JCV	TAL DEN
Total/NA	Analysis	8270C	DL	100			75518	07/07/11 11:02	DPI	TAL DEN

Laboratory References:
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

Sampler ID _____
Temperature on Receipt 4.0, 4.8, 2.0, 4.0, 5.8, 4.8, 4.4 FP ND 6/10

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (1007)

Client	Project Manager	Date	Chain of Custody Number
City of St. Louis Park	Scott Anderson	6/9/11	103633
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
7305 Oxford	952-924-2557		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
St. Louis Park / MN / 55426	Dan Phelps	Lisa U.	
Project Name and Location (State)	**Carrier/Waybill Number**		
Reilly Site / MN	FedEx		
Contract/Purchase Order/Quote No.			
60145681			

Analysis (Attach list if more space is needed): PAH 8270

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	PAH 8270		
SLP10T-06092011	6/9/11	0710		X			6						X		
SLP10TDUP-06092011		0715													
SLP10TFB-06092011		0700													
SLP10TFBD-06092011		0705													
SLP10TMS-06092011		0720													
SLP10TMSD-06092011		0725													
W24-06092011		0855													
SLP6-06092011		0910													
W119-06092011		1100													
~~W48-06092011~~														e Dup	
W410-06092011		1030													

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other STD

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: AECOM	6/9/11	1600	1. Received By: [signature]	6/10/11	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-16815-1

Login Number: 16815
List Number: 1
Creator: Philipp, Nicholas A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Detection Limit Exceptions Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-16815-1

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8270C	Water	2,3-Benzofuran	ng/L	5.4	20
8270C	Water	2,3-Dihydroindene	ng/L	5.0	20
8270C	Water	1-Methylnaphthalene	ng/L	5.6	20
8270C	Water	2-Methylnaphthalene	ng/L	5.9	20
8270C	Water	Acenaphthene	ng/L	5.7	20
8270C	Water	Acenaphthylene	ng/L	4.8	20
8270C	Water	Acridine	ng/L	6.5	20
8270C	Water	Anthracene	ng/L	4.2	20
8270C	Water	Benzo[a]anthracene	ng/L	4.3	20
8270C	Water	Benzo[a]pyrene	ng/L	2.5	20
8270C	Water	Benzo[e]pyrene	ng/L	4.3	20
8270C	Water	Benzo[b]fluoranthene	ng/L	4.7	20
8270C	Water	Benzo(b)thiophene	ng/L	5.2	20
8270C	Water	Benzo[k]fluoranthene	ng/L	4.1	20
8270C	Water	Benzo[g,h,i]perylene	ng/L	6.2	20
8270C	Water	Carbazole	ng/L	3.8	20
8270C	Water	Chrysene	ng/L	5.6	20
8270C	Water	Dibenz(a,h)anthracene	ng/L	5.9	20
8270C	Water	Dibenzofuran	ng/L	5.7	20
8270C	Water	Dibenzothiophene	ng/L	4.1	20
8270C	Water	Fluoranthene	ng/L	4.6	20
8270C	Water	Fluorene	ng/L	4.1	20
8270C	Water	Indene	ng/L	4.7	20
8270C	Water	Indole	ng/L	4.7	20
8270C	Water	Indeno[1,2,3-cd]pyrene	ng/L	5.4	20
8270C	Water	Naphthalene	ng/L	8.6	20
8270C	Water	Perylene	ng/L	3.8	20
8270C	Water	Phenanthrene	ng/L	6.3	20
8270C	Water	Pyrene	ng/L	4.2	20
8270C	Water	Quinoline	ng/L	9.0	20
8270C	Water	Biphenyl	ng/L	5.6	20

THIRD QUARTER

PAH ANALYSIS

SLP10T - 9/13
3rd QTR
SLP10T EX
ACID FRACTION

1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
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Tel: (303)736-0100

TestAmerica Job ID: 280-20302-1
Client Project/Site: CSLP - Reilly Tar & Chemical

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Corinne Krier

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LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Job ID: 280-20302-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-20302-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Sixteen samples were received under chain of custody on June 17, 2011. The samples were received at temperatures of 3.2°C, 4.2°C, 5.1°C, 3.1°C, 3.3°C, 3.9°C, 3.7°C, 4.1°C, 4.4°C, 2.3°C, 3.2°C, 2.8°C, 4.5°C and 4.6°C.

The Relinquished by date and time were not present on the Chains of Custody. The client was notified on September 15, 2011.

No other anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C
All sample holding times were met.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to limited sample volume, sample SLP10TACIDFRACTION-091311 (280-20302-7) had an initial aliquot volume of 982.5 mL. This is below the nominal aliquot volume of 4000 mL. Therefore, the analysis of sample SLP10TACIDFRACTION-091311 (280-20302-7) had to be performed with elevated detection limits. The reporting limits have been adjusted relative to the initial volume available.

No other anomalies were noted.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to limited sample volume, the following samples had an initial aliquot volume below the nominal aliquot volume of 4000 mL. Therefore, the analysis of these samples had to be performed with elevated detection limits. The reporting limits have been adjusted relative to the dilutions required.

SLP10TEXTENDED-091311 (280-20302-1) had an initial volume of 3946.8 mL
SLP12-091311 (280-20302-2) had an initial volume of 3904.9 mL
SLP4-091311 (280-20302-3) had an initial volume of 3904.9 mL
W48-091311 (280-20302-4) had an initial volume of 3922.8 mL
SLP6-091311 (280-20302-5) had an initial volume of 3899.6 mL
W119-091311 (280-20302-6) had an initial volume of 3915.8 mL
SLP10T-091311 (280-20302-8) had an initial volume of 3921.7 mL
SLP10-091311 (280-20302-9) had an initial volume of 3912.6 mL

Job ID: 280-20302-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

SLP11-091311 (280-20302-10) had an initial volume of 3557.1 mL
SLP11DUP-091311 (280-20302-11) had an initial volume of 3618 mL
SLP11FB-091311 (280-20302-12) had an initial volume of 3881.4 mL
SLP11FBD-091311 (280-20302-13) had an initial volume of 3785.8 mL
W401-091411 (280-20302-14) had an initial volume of 3574.3 mL
W402-091411 (280-20302-15) had an initial volume of 3817 mL
W403-091411 (280-20302-16) had an initial volume of 3809.2 mL

Surrogate Fluorene-d10 and/or Chrysene-d12 were recovered outside the QC control limits in the following samples, as detailed below. Matrix interference was not obvious. Upon re-aliquoting and reanalyzing, the surrogate recovery outlier was still present. Re-extraction was not possible due to insufficient remaining sample volume; therefore, the data is reported as is.

SLP10TEXTENDED-091311 (280-20302-1) recovered Chrysene-d12 at 16% (limits 28-101%)
SLP4-091311 (280-20302-3) recovered Chrysene-d12 at 25% (limits 28-101%)
W48-091311 (280-20302-4) recovered Chrysene-d12 at 24% (limits 28-101%)
SLP6-091311 (280-20302-5), recovered Chrysene-d12 at 26% (limits 28-101%)
SLP11FB-091311 (280-20302-12) recovered Fuorene-d10 at 91% (limits 23-84%)
W401-091411 (280-20302-14) recovered Chrysene-d12 at 16% (limits 28-101%)
W403-091411 (280-20302-16) recovered Chrysene-d12 at 24% (limits 28-101%)

Low levels of 2-Methylnaphthalene, Benzo[a]anthracene, Benzo[k]fluoranthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Naphthalene and Pyrene are present in the method blank associated with prep batch 280-86361. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B". Usability of the sample data is not compromised.

Low levels of Acenaphthene are present in the method blank associated with prep batch 280-71519. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B". Usability of the sample data is not compromised.

Low levels of Acenaphtene, Benzo[a]anthracene, Benzo[a]pyrene, Benzo[e]pyrene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene are present in the method blank associated with prep batch 280-87039. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B".

Additionally, levels of Dibenzothiopene and Benzo[k]fluoranthene are present in the method blank associated with prep batch 280-87039 at levels above the RL. The associated positive results in the analytical report have been flagged with "B". Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is.

The LCS/LCSD associated with prep batch 280-86361 exhibited percent recoveries and/or RPD data outside the QC control limits for Acridine, Benzo[k]fluoranthene, Chrysene, 7,12-Dimethylbenz(a)anthracene, and Quinoline. The LCS/LCSD were re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

The LCS associated with prep batch 280-86676 exhibited percent recoveries outside the QC control limits for Acridine at 18% (limits 30-150%) and Naphthalene at 98% (27-95%). The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

The LCS/LCSD associated with prep batch 280-87039 exhibited percent recoveries outside the QC control limits for Acridine and Naphthalene. Additionally, the surrogate Fluorene-d10 was recovered above QC control limits in the LCS. The LCS/LCSD were re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

Job ID: 280-20302-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Additionally, the LCS/LCSD associated with prep batch 280-87039 exhibited the LCS percent recovery below the QC control limits for 7,12-Dimethylbenz(a)anthracene. This analyte is not a compound of interest for this project; therefore, corrective action was deemed unnecessary. The LCS/LCSD was reanalyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume.

The MS/MSD associated with prep batch 280-86676 was performed using sample SLP11-091311 (280-20302-10), as requested. MS/MSD exhibited 11 of the 33 Matrix Spike compound recoveries and 1 of the 3 surrogate recoveries outside the control limits. MS/MSD exhibited 10 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited 3 of the 33 Relative Percent Difference (RPD) data outside the control limits. The MS/MSD exhibited percent recoveries and/or RPD data outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylcholanthrene	Acridine	Benzo[a]pyrene		
Benzo[e]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene		
Benzo[ghi]perylene	Dibenzo(a,h)anthracene	Indene	Indeno[1,2,3-cd]pyrene	Naphthalene
Perylene		Fluorene-d10		

The method required MS/MSD could not be performed for prep batch 280-86361, due to insufficient sample volume.

The method required MS/MSD could not be performed for prep batch 280-87039, due to insufficient sample volume.

No other anomalies were noted.

Data Completeness for Method 8270C Acid Compounds

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below.

DATA COMPLETENES CALCULATION JOB 280-20302-1 ANALYSIS: Acid Compounds by SW846 8270C		
QC Parameter	**Data Planned**	**Valid Data Obtained**
Method Blank	11	11
MB Surrogates	5	5
FB/FBD	NA	NA
MS	16	16
MS Surrogates	6	6
MSD	16	16
MSD Surrogates	6	6
MS/MSD RPD	16	16
Sample/Dup. RPD	NA	NA
LCS	16	16
LCS Surrogates	6	6
Sample Surrogates	5	5
Samples and QC Internal Standard Area	15	15
TOTAL	**118**	**118**
% Completeness	**100.00%**	

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-20302-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	99	97
MB Surrogates	9	9
LCS/LCSD	35	29
LCS/LCSD Surrogates	15	14
FB/FBD	62	62
MS	7	4
MS Surrogates	3	3
MSD	7	6
MSD Surrogates	3	2
MS/MSD RPD	7	7
Sample/Dup. RPD	31	31
Sample Surrogates	45	38
Samples and QC Internal Standard Area	75	75
TOTAL	**398**	**377**
% Completeness	**94.7%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD JOB 280-20302-1					
Sample: SLP11-091311		**DUP: SLP11DUP-091311**			
Compound	**Result**	**Compound**	**Result**	**RPD**	**RPD>50%**
Acenaphthene	9.6	Acenaphthene	9.4	2.1	
Acenaphthylene	ND	Acenaphthylene	ND	0.0	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	2.6	NC	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	3.9	2,3-Benzofuran	4.4	12.0	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	9.9	Benzo(b)thiophene	9.0	9.5	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	2.2	Carbazole	2.0	9.5	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	ND	Dibenzofuran	ND	0.0	
Dibenzothiophene	ND	Dibenzothiophene	21	NC	
2,3-Dihydroindene	20	2,3-Dihydroindene	20	0.0	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	1.1	Fluorene	1.3	16.7	
Indene	19	Indene	21	10.0	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	ND	Indole	ND	0.0	
2-Methylnaphthalene	1.4	2-Methylnaphthalene	ND	NC	
1-Methylnaphthalene	3.3	1-Methylnaphthalene	2.8	16.4	
Naphthalene	22	Naphthalene	18	20.0	
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	ND	Pyrene	ND	0.0	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Definitions/Glossary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10TEXTENDED-091311 — Lab Sample ID: 280-20302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	21		5.1	0.71	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	7.5		5.7	0.90	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	4.4	J B	6.0	0.99	ng/L	1		8270C	Total/NA
Acenaphthene	12		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	1.0	J	4.9	0.78	ng/L	1		8270C	Total/NA
Benzo[a]anthracene	3.3	J B	4.4	0.93	ng/L	1		8270C	Total/NA
Benzo[a]pyrene	6.7		2.5	1.3	ng/L	1		8270C	Total/NA
Benzo[e]pyrene	4.5		4.4	1.2	ng/L	1		8270C	Total/NA
Benzo[b]fluoranthene	4.0	J	4.8	1.4	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	1.7	J	5.3	0.76	ng/L	1		8270C	Total/NA
Benzo[k]fluoranthene	10	B *	4.2	1.3	ng/L	1		8270C	Total/NA
Benzo[g,h,i]perylene	13	B	6.3	1.2	ng/L	1		8270C	Total/NA
Chrysene	5.6	J B *	5.7	1.3	ng/L	1		8270C	Total/NA
Dibenz(a,h)anthracene	11	B	6.0	1.1	ng/L	1		8270C	Total/NA
Dibenzothiophene	20		4.2	0.99	ng/L	1		8270C	Total/NA
Fluorene	1.2	J	4.2	0.86	ng/L	1		8270C	Total/NA
Indeno[1,2,3-cd]pyrene	7.3		5.5	1.3	ng/L	1		8270C	Total/NA
Naphthalene	5.0	J B	8.7	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP12-091311 — Lab Sample ID: 280-20302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	1.5	J	5.1	0.72	ng/L	1		8270C	Total/NA
Naphthalene	2.1	J B	8.8	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP4-091311 — Lab Sample ID: 280-20302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.79	J	5.5	0.70	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	39		5.1	0.72	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.1	J B	6.0	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	49		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	3.4	J	4.9	0.79	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	5.6		5.3	0.77	ng/L	1		8270C	Total/NA
Carbazole	2.6	J	3.9	0.74	ng/L	1		8270C	Total/NA
Fluorene	1.2	J	4.2	0.87	ng/L	1		8270C	Total/NA
Indene	4.3	J	4.8	3.4	ng/L	1		8270C	Total/NA
Indole	2.0	J	4.8	1.8	ng/L	1		8270C	Total/NA
Naphthalene	4.0	J B	8.8	1.2	ng/L	1		8270C	Total/NA
Pyrene	5.0	B	4.3	1.0	ng/L	1		8270C	Total/NA

117.99

Client Sample ID: W48-091311 — Lab Sample ID: 280-20302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	1.2	J	5.5	0.69	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	6.1		5.1	0.71	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.9	J	5.7	0.91	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.9	J B	6.0	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	80		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	2.5	J	4.9	0.79	ng/L	1		8270C	Total/NA
Acridine	9.2	*	6.6	6.6	ng/L	1		8270C	Total/NA
Anthracene	3.6	J	4.3	0.82	ng/L	1		8270C	Total/NA
Benzo[a]anthracene	1.2	J B	4.4	0.94	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	8.2		5.3	0.76	ng/L	1		8270C	Total/NA

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: W48-091311 (Continued) — Lab Sample ID: 280-20302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	1.5	J * B	4.2	1.3	ng/L	1		8270C	Total/NA
Benzo[g,h,i]perylene	2.0	J B	6.3	1.2	ng/L	1		8270C	Total/NA
Carbazole	1.4	J	3.9	0.73	ng/L	1		8270C	Total/NA
Chrysene	1.8	J * B	5.7	1.3	ng/L	1		8270C	Total/NA
Dibenz(a,h)anthracene	1.2	J B	6.0	1.1	ng/L	1		8270C	Total/NA
Indene	25		4.8	3.3	ng/L	1		8270C	Total/NA
Indole	3.5	J	4.8	1.8	ng/L	1		8270C	Total/NA
Naphthalene	5.0	J B	8.8	1.2	ng/L	1		8270C	Total/NA
Pyrene	2.3	J B	4.3	1.0	ng/L	1		8270C	Total/NA

Client Sample ID: SLP6-091311 — Lab Sample ID: 280-20302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.82	J	5.5	0.70	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	54		5.1	0.72	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.3	J	5.7	0.91	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.4	J B	6.1	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	77		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	9.1		4.9	0.79	ng/L	1		8270C	Total/NA
Anthracene	2.3	J	4.3	0.82	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	12		5.3	0.77	ng/L	1		8270C	Total/NA
Carbazole	2.4	J	3.9	0.74	ng/L	1		8270C	Total/NA
Dibenzothiophene	1.7	J	4.2	1.0	ng/L	1		8270C	Total/NA
Fluoranthene	4.1	J	4.7	1.7	ng/L	1		8270C	Total/NA
Fluorene	0.93	J	4.2	0.87	ng/L	1		8270C	Total/NA
Indene	6.9		4.8	3.4	ng/L	1		8270C	Total/NA
Indole	3.4	J	4.8	1.8	ng/L	1		8270C	Total/NA
Naphthalene	5.0	J B	8.8	1.2	ng/L	1		8270C	Total/NA
Pyrene	4.6	B	4.3	1.0	ng/L	1		8270C	Total/NA

Client Sample ID: W119-091311 — Lab Sample ID: 280-20302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	4.9	J	5.1	0.72	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.4	J	5.7	0.91	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.2	J B	6.0	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	42		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	2.6	J	4.9	0.79	ng/L	1		8270C	Total/NA
Anthracene	3.5	J	4.3	0.82	ng/L	1		8270C	Total/NA
Benzo[a]anthracene	1.5	J B	4.4	0.94	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	6.1		5.3	0.77	ng/L	1		8270C	Total/NA
Carbazole	1.5	J	3.9	0.74	ng/L	1		8270C	Total/NA
Chrysene	1.7	J * B	5.7	1.3	ng/L	1		8270C	Total/NA
Indene	11		4.8	3.4	ng/L	1		8270C	Total/NA
Indole	3.3	J	4.8	1.8	ng/L	1		8270C	Total/NA
Naphthalene	3.5	J B	8.8	1.2	ng/L	1		8270C	Total/NA
Pyrene	14	B	4.3	1.0	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TACIDFRACTION-091311 — Lab Sample ID: 280-20302-7

No Detections

Client Sample ID: SLP10T-091311 — Lab Sample ID: 280-20302-8

Client Sample ID: SLP10T-091311 (Continued) — Lab Sample ID: 280-20302-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	24		5.1	0.71	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	3.9	J	5.7	0.91	ng/L	1		8270C	Total/NA
Acenaphthene	13		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	0.84	J	4.9	0.79	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	2.6	J	5.3	0.76	ng/L	1		8270C	Total/NA
Benzo[g,h,i]perylene	1.3	J B	6.3	1.2	ng/L	1		8270C	Total/NA
Chrysene	1.4	J * B	5.7	1.3	ng/L	1		8270C	Total/NA
Fluorene	1.2	J	4.2	0.87	ng/L	1		8270C	Total/NA
Naphthalene	2.0	J B	8.8	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10-091311 — Lab Sample ID: 280-20302-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	75		5.1	0.72	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	32		5.7	0.91	ng/L	1		8270C	Total/NA
Acenaphthene	220		5.8	0.51	ng/L	1		8270C	Total/NA
Acenaphthylene	17		4.9	0.79	ng/L	1		8270C	Total/NA
Anthracene	0.97	J	4.3	0.82	ng/L	1		8270C	Total/NA
Benzo[a]anthracene	1.3	J B	4.4	0.94	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	17		5.3	0.77	ng/L	1		8270C	Total/NA
Carbazole	9.0		3.9	0.74	ng/L	1		8270C	Total/NA
Chrysene	1.6	J * B	5.7	1.3	ng/L	1		8270C	Total/NA
Dibenzofuran	8.2		5.8	1.0	ng/L	1		8270C	Total/NA
Dibenzothiophene	10		4.2	1.0	ng/L	1		8270C	Total/NA
Fluoranthene	22		4.7	1.7	ng/L	1		8270C	Total/NA
Fluorene	49		4.2	0.87	ng/L	1		8270C	Total/NA
Indene	24		4.8	3.4	ng/L	1		8270C	Total/NA
Naphthalene	2.4	J B	8.8	1.2	ng/L	1		8270C	Total/NA
Phenanthrene	4.5	J	6.4	3.3	ng/L	1		8270C	Total/NA
Pyrene	44	B	4.3	1.0	ng/L	1		8270C	Total/NA
Biphenyl	1.5	J	5.7	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP11-091311 — Lab Sample ID: 280-20302-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	3.9	J	6.1	0.76	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	20		5.6	0.79	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	3.3	J	6.3	1.0	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.4	J	6.6	1.1	ng/L	1		8270C	Total/NA
Acenaphthene	9.6	B	6.4	0.56	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	9.9		5.8	0.84	ng/L	1		8270C	Total/NA
Carbazole	2.2	J	4.3	0.81	ng/L	1		8270C	Total/NA
Fluorene	1.1	J	4.6	0.96	ng/L	1		8270C	Total/NA
Indene	19		5.3	3.7	ng/L	1		8270C	Total/NA
Naphthalene	22	*	9.7	1.3	ng/L	1		8270C	Total/NA

Client Sample ID: SLP11DUP-091311 — Lab Sample ID: 280-20302-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	4.4	J	6.0	0.75	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	20		5.5	0.77	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.8	J	6.2	0.98	ng/L	1		8270C	Total/NA
Acenaphthene	9.4	B	6.3	0.55	ng/L	1		8270C	Total/NA
Anthracene	2.6	J	4.6	0.88	ng/L	1		8270C	Total/NA

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11DUP-091311 (Continued) — Lab Sample ID: 280-20302-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(b)thiophene	9.0		5.7	0.83	ng/L	1		8270C	Total/NA
Carbazole	2.0	J	4.2	0.80	ng/L	1		8270C	Total/NA
Dibenzothiophene	21		4.5	1.1	ng/L	1		8270C	Total/NA
Fluorene	1.3	J	4.5	0.94	ng/L	1		8270C	Total/NA
Indene	21		5.2	3.6	ng/L	1		8270C	Total/NA
Naphthalene	18	*	9.5	1.3	ng/L	1		8270C	Total/NA

Client Sample ID: SLP11FB-091311 — Lab Sample ID: 280-20302-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	1.1	J	5.6	0.70	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	1.5	J	5.2	0.72	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.8	J	5.8	0.92	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	3.8	J	6.1	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	0.59	J B	5.9	0.52	ng/L	1		8270C	Total/NA
Acenaphthylene	3.5	J	4.9	0.79	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	5.8		5.4	0.77	ng/L	1		8270C	Total/NA
Dibenzothiophene	20		4.2	1.0	ng/L	1		8270C	Total/NA
Naphthalene	4.6	J *	8.9	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP11FBD-091311 — Lab Sample ID: 280-20302-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	1.1	J	5.7	0.72	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	2.2	J	5.3	0.74	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.5	J	5.9	0.94	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	2.7	J	6.2	1.0	ng/L	1		8270C	Total/NA
Acenaphthene	0.61	J B	6.0	0.53	ng/L	1		8270C	Total/NA
Acenaphthylene	3.0	J	5.1	0.81	ng/L	1		8270C	Total/NA
Anthracene	0.85	J	4.4	0.85	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	5.9		5.5	0.79	ng/L	1		8270C	Total/NA
Dibenzothiophene	21		4.3	1.0	ng/L	1		8270C	Total/NA
Naphthalene	4.5	J *	9.1	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: W401-091411 — Lab Sample ID: 280-20302-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	2.4	J	5.6	0.78	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.2	J	6.3	1.0	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.6	J	6.6	1.1	ng/L	1		8270C	Total/NA
Acenaphthene	6.1	J B	6.4	0.56	ng/L	1		8270C	Total/NA
Anthracene	0.90	J	4.7	0.90	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	6.5		5.8	0.84	ng/L	1		8270C	Total/NA
Carbazole	0.66	J	4.3	0.81	ng/L	1		8270C	Total/NA
Dibenzothiophene	22		4.6	1.1	ng/L	1		8270C	Total/NA
Naphthalene	3.3	J *	9.6	1.3	ng/L	1		8270C	Total/NA
Pyrene	3.4	J	4.7	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: W402-091411 — Lab Sample ID: 280-20302-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.86	J	5.7	0.71	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	4.8	J	5.2	0.73	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.7	J	5.9	0.93	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-20302-1	SLP10TEXTENDED-091311	Water	09/13/11 15:25	09/15/11 09:30
280-20302-2	SLP12-091311	Water	09/13/11 14:15	09/15/11 09:30
280-20302-3	SLP4-091311	Water	09/13/11 14:45	09/15/11 09:30
280-20302-4	W48-091311	Water	09/13/11 11:00	09/15/11 09:30
280-20302-5	SLP6-091311	Water	09/13/11 11:45	09/15/11 09:30
280-20302-6	W119-091311	Water	09/13/11 12:00	09/15/11 09:30
280-20302-7	SLP10TACIDFRACTION-091311	Water	09/13/11 15:20	09/15/11 09:30
280-20302-8	SLP10T-091311	Water	09/13/11 15:15	09/15/11 09:30
280-20302-9	SLP10-091311	Water	09/13/11 13:45	09/15/11 09:30
280-20302-10	SLP11-091311	Water	09/13/11 16:30	09/15/11 09:30
280-20302-11	SLP11DUP-091311	Water	09/13/11 16:35	09/15/11 09:30
280-20302-12	SLP11FB-091311	Water	09/13/11 16:20	09/15/11 09:30
280-20302-13	SLP11FBD-091311	Water	09/13/11 16:25	09/15/11 09:30
280-20302-14	W401-091411	Water	09/14/11 09:00	09/15/11 09:30
280-20302-15	W402-091411	Water	09/14/11 08:55	09/15/11 09:30
280-20302-16	W403-091411	Water	09/14/11 12:00	09/15/11 09:30

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10TEXTENDED-091311
Date Collected: 09/13/11 15:25
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.5	0.69	ng/L		09/16/11 14:15	10/06/11 15:49	1
2,3-Dihydroindene	**21**		5.1	0.71	ng/L		09/16/11 14:15	10/06/11 15:49	1
1-Methylnaphthalene	**7.5**		5.7	0.90	ng/L		09/16/11 14:15	10/06/11 15:49	1
2-Methylnaphthalene	**4.4**	J B	6.0	0.99	ng/L		09/16/11 14:15	10/06/11 15:49	1
3-Methylcholanthrene	ND		5.1	5.1	ng/L		09/16/11 14:15	10/06/11 15:49	1
Acenaphthene	**12**		5.8	0.51	ng/L		09/16/11 14:15	10/06/11 15:49	1
Acenaphthylene	**1.0**	J	4.9	0.78	ng/L		09/16/11 14:15	10/06/11 15:49	1
Acridine	ND	*	6.6	6.6	ng/L		09/16/11 14:15	10/06/11 15:49	1
Anthracene	ND		4.3	0.81	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[a]anthracene	**3.3**	J B	4.4	0.93	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[a]pyrene	**6.7**		2.5	1.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[e]pyrene	**4.5**		4.4	1.2	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[b]fluoranthene	**4.0**	J	4.8	1.4	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo(b)thiophene	**1.7**	J	5.3	0.76	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[k]fluoranthene	**10**	B *	4.2	1.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Benzo[g,h,i]perylene	**13**	B	6.3	1.2	ng/L		09/16/11 14:15	10/06/11 15:49	1
Carbazole	ND		3.9	0.73	ng/L		09/16/11 14:15	10/06/11 15:49	1
Chrysene	**5.6**	J B *	5.7	1.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Dibenz(a,h)anthracene	**11**	B	6.0	1.1	ng/L		09/16/11 14:15	10/06/11 15:49	1
Dibenzofuran	ND		5.8	1.0	ng/L		09/16/11 14:15	10/06/11 15:49	1
Dibenzothiophene	**20**		4.2	0.99	ng/L		09/16/11 14:15	10/06/11 15:49	1
Fluoranthene	ND		4.7	1.7	ng/L		09/16/11 14:15	10/06/11 15:49	1
Fluorene	**1.2**	J	4.2	0.86	ng/L		09/16/11 14:15	10/06/11 15:49	1
Indene	ND		4.8	3.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Indole	ND		4.8	1.8	ng/L		09/16/11 14:15	10/06/11 15:49	1
Indeno[1,2,3-cd]pyrene	**7.3**		5.5	1.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Naphthalene	**5.0**	J B	8.7	1.2	ng/L		09/16/11 14:15	10/06/11 15:49	1
Perylene	ND		3.9	3.9	ng/L		09/16/11 14:15	10/06/11 15:49	1
Phenanthrene	ND		6.4	3.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Pyrene	ND		4.3	1.0	ng/L		09/16/11 14:15	10/06/11 15:49	1
Quinoline	ND	*	9.1	5.7	ng/L		09/16/11 14:15	10/06/11 15:49	1
7,12-Dimethylbenz(a)anthracene	ND	*	2.8	2.3	ng/L		09/16/11 14:15	10/06/11 15:49	1
Biphenyl	ND		5.7	1.1	ng/L		09/16/11 14:15	10/06/11 15:49	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*64*		*23 - 84*	*09/16/11 14:15*	*10/06/11 15:49*	*1*
Chrysene-d12 (Surr)	*16*	*X*	*28 - 101*	*09/16/11 14:15*	*10/06/11 15:49*	*1*
Naphthalene-d8 (Surr)	*58*		*22 - 97*	*09/16/11 14:15*	*10/06/11 15:49*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10T-091311

Date Collected: 09/13/11 15:15
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-8

Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.5	0.69	ng/L		09/16/11 14:15	10/06/11 19:24	1
2,3-Dihydroindene	**24**		5.1	0.71	ng/L		09/16/11 14:15	10/06/11 19:24	1
1-Methylnaphthalene	**3.9**	J	5.7	0.91	ng/L		09/16/11 14:15	10/06/11 19:24	1
2-Methylnaphthalene	ND		6.0	1.0	ng/L		09/16/11 14:15	10/06/11 19:24	1
Acenaphthene	**13**		5.8	0.51	ng/L		09/16/11 14:15	10/06/11 19:24	1
Acenaphthylene	**0.84**	J	4.9	0.79	ng/L		09/16/11 14:15	10/06/11 19:24	1
Acridine	ND	*	6.6	6.6	ng/L		09/16/11 14:15	10/06/11 19:24	1
Anthracene	ND		4.3	0.82	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[a]anthracene	ND		4.4	0.94	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[a]pyrene	ND		2.5	1.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[e]pyrene	ND		4.4	1.2	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[b]fluoranthene	ND		4.8	1.4	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo(b)thiophene	**2.6**	J	5.3	0.76	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[k]fluoranthene	ND	*	4.2	1.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Benzo[g,h,i]perylene	**1.3**	J B	6.3	1.2	ng/L		09/16/11 14:15	10/06/11 19:24	1
Carbazole	ND		3.9	0.73	ng/L		09/16/11 14:15	10/06/11 19:24	1
Chrysene	**1.4**	J * B	5.7	1.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Dibenz(a,h)anthracene	ND		6.0	1.1	ng/L		09/16/11 14:15	10/06/11 19:24	1
Dibenzofuran	ND		5.8	1.0	ng/L		09/16/11 14:15	10/06/11 19:24	1
Dibenzothiophene	ND		4.2	1.0	ng/L		09/16/11 14:15	10/06/11 19:24	1
Fluoranthene	ND		4.7	1.7	ng/L		09/16/11 14:15	10/06/11 19:24	1
Fluorene	**1.2**	J	4.2	0.87	ng/L		09/16/11 14:15	10/06/11 19:24	1
Indene	ND		4.8	3.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Indole	ND		4.8	1.8	ng/L		09/16/11 14:15	10/06/11 19:24	1
Indeno[1,2,3-cd]pyrene	ND		5.5	1.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Naphthalene	**2.0**	J B	8.8	1.2	ng/L		09/16/11 14:15	10/06/11 19:24	1
Perylene	ND		3.9	3.9	ng/L		09/16/11 14:15	10/06/11 19:24	1
Phenanthrene	ND		6.4	3.3	ng/L		09/16/11 14:15	10/06/11 19:24	1
Pyrene	ND		4.3	1.0	ng/L		09/16/11 14:15	10/06/11 19:24	1
Quinoline	ND	*	9.2	5.8	ng/L		09/16/11 14:15	10/06/11 19:24	1
Biphenyl	ND		5.7	1.1	ng/L		09/16/11 14:15	10/06/11 19:24	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*71*		*23 - 84*	*09/16/11 14:15*	*10/06/11 19:24*	*1*
Chrysene-d12 (Surr)	*56*		*28 - 101*	*09/16/11 14:15*	*10/06/11 19:24*	*1*
Naphthalene-d8 (Surr)	*75*		*22 - 97*	*09/16/11 14:15*	*10/06/11 19:24*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11-091311
Date Collected: 09/13/11 16:30
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	**3.9**	J	6.1	0.76	ng/L		09/18/11 15:45	10/06/11 20:36	1
2,3-Dihydroindene	**20**		5.6	0.79	ng/L		09/18/11 15:45	10/06/11 20:36	1
1-Methylnaphthalene	**3.3**	J	6.3	1.0	ng/L		09/18/11 15:45	10/06/11 20:36	1
2-Methylnaphthalene	**1.4**	J	6.6	1.1	ng/L		09/18/11 15:45	10/06/11 20:36	1
Acenaphthene	**9.6**	B	6.4	0.56	ng/L		09/18/11 15:45	10/06/11 20:36	1
Acenaphthylene	ND		5.4	0.87	ng/L		09/18/11 15:45	10/06/11 20:36	1
Acridine	ND	*	7.3	7.3	ng/L		09/18/11 15:45	10/06/11 20:36	1
Anthracene	ND		4.7	0.90	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[a]anthracene	ND		4.8	1.0	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[a]pyrene	ND		2.8	1.4	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[e]pyrene	ND		4.8	1.3	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[b]fluoranthene	ND		5.3	1.6	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo(b)thiophene	**9.9**		5.8	0.84	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[k]fluoranthene	ND		4.6	1.4	ng/L		09/18/11 15:45	10/06/11 20:36	1
Benzo[g,h,i]perylene	ND		7.0	1.3	ng/L		09/18/11 15:45	10/06/11 20:36	1
Carbazole	**2.2**	J	4.3	0.81	ng/L		09/18/11 15:45	10/06/11 20:36	1
Chrysene	ND		6.3	1.4	ng/L		09/18/11 15:45	10/06/11 20:36	1
Dibenz(a,h)anthracene	ND		6.6	1.2	ng/L		09/18/11 15:45	10/06/11 20:36	1
Dibenzofuran	ND		6.4	1.1	ng/L		09/18/11 15:45	10/06/11 20:36	1
Dibenzothiophene	ND		4.6	1.1	ng/L		09/18/11 15:45	10/06/11 20:36	1
Fluoranthene	ND		5.2	1.9	ng/L		09/18/11 15:45	10/06/11 20:36	1
Fluorene	**1.1**	J	4.6	0.96	ng/L		09/18/11 15:45	10/06/11 20:36	1
Indene	**19**		5.3	3.7	ng/L		09/18/11 15:45	10/06/11 20:36	1
Indole	ND		5.3	1.9	ng/L		09/18/11 15:45	10/06/11 20:36	1
Indeno[1,2,3-cd]pyrene	ND		6.1	1.4	ng/L		09/18/11 15:45	10/06/11 20:36	1
Naphthalene	**22**	*	9.7	1.3	ng/L		09/18/11 15:45	10/06/11 20:36	1
Perylene	ND		4.3	4.3	ng/L		09/18/11 15:45	10/06/11 20:36	1
Phenanthrene	ND		7.1	3.6	ng/L		09/18/11 15:45	10/06/11 20:36	1
Pyrene	ND		4.7	1.1	ng/L		09/18/11 15:45	10/06/11 20:36	1
Quinoline	ND		10	6.4	ng/L		09/18/11 15:45	10/06/11 20:36	1
Biphenyl	ND		6.3	1.2	ng/L		09/18/11 15:45	10/06/11 20:36	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*82*		*23 - 84*	*09/18/11 15:45*	*10/06/11 20:36*	*1*
Chrysene-d12 (Surr)	*50*		*28 - 101*	*09/18/11 15:45*	*10/06/11 20:36*	*1*
Naphthalene-d8 (Surr)	*68*		*22 - 97*	*09/18/11 15:45*	*10/06/11 20:36*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11DUP-091311

Date Collected: 09/13/11 16:35
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	**4.4**	J	6.0	0.75	ng/L		09/18/11 15:45	10/06/11 22:24	1
2,3-Dihydroindene	**20**		5.5	0.77	ng/L		09/18/11 15:45	10/06/11 22:24	1
1-Methylnaphthalene	**2.8**	J	6.2	0.98	ng/L		09/18/11 15:45	10/06/11 22:24	1
2-Methylnaphthalene	ND		6.5	1.1	ng/L		09/18/11 15:45	10/06/11 22:24	1
Acenaphthene	**9.4**	B	6.3	0.55	ng/L		09/18/11 15:45	10/06/11 22:24	1
Acenaphthylene	ND		5.3	0.85	ng/L		09/18/11 15:45	10/06/11 22:24	1
Acridine	ND	*	7.2	7.2	ng/L		09/18/11 15:45	10/06/11 22:24	1
Anthracene	**2.6**	J	4.6	0.88	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[a]anthracene	ND		4.8	1.0	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[a]pyrene	ND		2.8	1.4	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[e]pyrene	ND		4.8	1.3	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[b]fluoranthene	ND		5.2	1.5	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo(b)thiophene	**9.0**		5.7	0.83	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[k]fluoranthene	ND		4.5	1.4	ng/L		09/18/11 15:45	10/06/11 22:24	1
Benzo[g,h,i]perylene	ND		6.9	1.3	ng/L		09/18/11 15:45	10/06/11 22:24	1
Carbazole	**2.0**	J	4.2	0.80	ng/L		09/18/11 15:45	10/06/11 22:24	1
Chrysene	ND		6.2	1.4	ng/L		09/18/11 15:45	10/06/11 22:24	1
Dibenz(a,h)anthracene	ND		6.5	1.1	ng/L		09/18/11 15:45	10/06/11 22:24	1
Dibenzofuran	ND		6.3	1.1	ng/L		09/18/11 15:45	10/06/11 22:24	1
Dibenzothiophene	**21**		4.5	1.1	ng/L		09/18/11 15:45	10/06/11 22:24	1
Fluoranthene	ND		5.1	1.9	ng/L		09/18/11 15:45	10/06/11 22:24	1
Fluorene	**1.3**	J	4.5	0.94	ng/L		09/18/11 15:45	10/06/11 22:24	1
Indene	**21**		5.2	3.6	ng/L		09/18/11 15:45	10/06/11 22:24	1
Indole	ND		5.2	1.9	ng/L		09/18/11 15:45	10/06/11 22:24	1
Indeno[1,2,3-cd]pyrene	ND		6.0	1.4	ng/L		09/18/11 15:45	10/06/11 22:24	1
Naphthalene	**18**	*	9.5	1.3	ng/L		09/18/11 15:45	10/06/11 22:24	1
Perylene	ND		4.2	4.2	ng/L		09/18/11 15:45	10/06/11 22:24	1
Phenanthrene	ND		7.0	3.5	ng/L		09/18/11 15:45	10/06/11 22:24	1
Pyrene	ND		4.6	1.1	ng/L		09/18/11 15:45	10/06/11 22:24	1
Quinoline	ND		10	6.2	ng/L		09/18/11 15:45	10/06/11 22:24	1
Biphenyl	ND		6.2	1.2	ng/L		09/18/11 15:45	10/06/11 22:24	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*09/18/11 15:45*	*10/06/11 22:24*	*1*
Chrysene-d12 (Surr)	*41*		*28 - 101*	*09/18/11 15:45*	*10/06/11 22:24*	*1*
Naphthalene-d8 (Surr)	*65*		*22 - 97*	*09/18/11 15:45*	*10/06/11 22:24*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11FB-091311

Date Collected: 09/13/11 16:20
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-12
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	**1.1**	J	5.6	0.70	ng/L		09/18/11 15:45	10/06/11 23:00	1
2,3-Dihydroindene	**1.5**	J	5.2	0.72	ng/L		09/18/11 15:45	10/06/11 23:00	1
1-Methylnaphthalene	**2.8**	J	5.8	0.92	ng/L		09/18/11 15:45	10/06/11 23:00	1
2-Methylnaphthalene	**3.8**	J	6.1	1.0	ng/L		09/18/11 15:45	10/06/11 23:00	1
Acenaphthene	**0.59**	J B	5.9	0.52	ng/L		09/18/11 15:45	10/06/11 23:00	1
Acenaphthylene	**3.5**	J	4.9	0.79	ng/L		09/18/11 15:45	10/06/11 23:00	1
Acridine	ND	*	6.7	6.7	ng/L		09/18/11 15:45	10/06/11 23:00	1
Anthracene	ND		4.3	0.82	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[a]anthracene	ND		4.4	0.95	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[a]pyrene	ND		2.6	1.3	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[e]pyrene	ND		4.4	1.2	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[b]fluoranthene	ND		4.8	1.4	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo(b)thiophene	**5.8**		5.4	0.77	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[k]fluoranthene	ND		4.2	1.3	ng/L		09/18/11 15:45	10/06/11 23:00	1
Benzo[g,h,i]perylene	ND		6.4	1.2	ng/L		09/18/11 15:45	10/06/11 23:00	1
Carbazole	ND		3.9	0.74	ng/L		09/18/11 15:45	10/06/11 23:00	1
Chrysene	ND		5.8	1.3	ng/L		09/18/11 15:45	10/06/11 23:00	1
Dibenz(a,h)anthracene	ND		6.1	1.1	ng/L		09/18/11 15:45	10/06/11 23:00	1
Dibenzofuran	ND		5.9	1.0	ng/L		09/18/11 15:45	10/06/11 23:00	1
Dibenzothiophene	**20**		4.2	1.0	ng/L		09/18/11 15:45	10/06/11 23:00	1
Fluoranthene	ND		4.7	1.7	ng/L		09/18/11 15:45	10/06/11 23:00	1
Fluorene	ND		4.2	0.88	ng/L		09/18/11 15:45	10/06/11 23:00	1
Indene	ND		4.8	3.4	ng/L		09/18/11 15:45	10/06/11 23:00	1
Indole	ND		4.8	1.8	ng/L		09/18/11 15:45	10/06/11 23:00	1
Indeno[1,2,3-cd]pyrene	ND		5.6	1.3	ng/L		09/18/11 15:45	10/06/11 23:00	1
Naphthalene	**4.6**	J *	8.9	1.2	ng/L		09/18/11 15:45	10/06/11 23:00	1
Perylene	ND		3.9	3.9	ng/L		09/18/11 15:45	10/06/11 23:00	1
Phenanthrene	ND		6.5	3.3	ng/L		09/18/11 15:45	10/06/11 23:00	1
Pyrene	ND		4.3	1.0	ng/L		09/18/11 15:45	10/06/11 23:00	1
Quinoline	ND		9.3	5.8	ng/L		09/18/11 15:45	10/06/11 23:00	1
Biphenyl	ND		5.8	1.1	ng/L		09/18/11 15:45	10/06/11 23:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*91*	*X*	*23 - 84*	*09/18/11 15:45*	*10/06/11 23:00*	*1*
Chrysene-d12 (Surr)	*84*		*28 - 101*	*09/18/11 15:45*	*10/06/11 23:00*	*1*
Naphthalene-d8 (Surr)	*84*		*22 - 97*	*09/18/11 15:45*	*10/06/11 23:00*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11FBD-091311

Date Collected: 09/13/11 16:25
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-13
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	**1.1**	J	5.7	0.72	ng/L		09/18/11 15:45	10/06/11 23:37	1
2,3-Dihydroindene	**2.2**	J	5.3	0.74	ng/L		09/18/11 15:45	10/06/11 23:37	1
1-Methylnaphthalene	**1.5**	J	5.9	0.94	ng/L		09/18/11 15:45	10/06/11 23:37	1
2-Methylnaphthalene	**2.7**	J	6.2	1.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Acenaphthene	**0.61**	J B	6.0	0.53	ng/L		09/18/11 15:45	10/06/11 23:37	1
Acenaphthylene	**3.0**	J	5.1	0.81	ng/L		09/18/11 15:45	10/06/11 23:37	1
Acridine	ND	*	6.9	6.9	ng/L		09/18/11 15:45	10/06/11 23:37	1
Anthracene	**0.85**	J	4.4	0.85	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[a]anthracene	ND		4.5	0.97	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[a]pyrene	ND		2.6	1.3	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[e]pyrene	ND		4.5	1.2	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[b]fluoranthene	ND		5.0	1.5	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo(b)thiophene	**5.9**		5.5	0.79	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[k]fluoranthene	ND		4.3	1.3	ng/L		09/18/11 15:45	10/06/11 23:37	1
Benzo[g,h,i]perylene	ND		6.6	1.2	ng/L		09/18/11 15:45	10/06/11 23:37	1
Carbazole	ND		4.0	0.76	ng/L		09/18/11 15:45	10/06/11 23:37	1
Chrysene	ND		5.9	1.3	ng/L		09/18/11 15:45	10/06/11 23:37	1
Dibenz(a,h)anthracene	ND		6.2	1.1	ng/L		09/18/11 15:45	10/06/11 23:37	1
Dibenzofuran	ND		6.0	1.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Dibenzothiophene	**21**		4.3	1.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Fluoranthene	ND		4.9	1.8	ng/L		09/18/11 15:45	10/06/11 23:37	1
Fluorene	ND		4.3	0.90	ng/L		09/18/11 15:45	10/06/11 23:37	1
Indene	ND		5.0	3.5	ng/L		09/18/11 15:45	10/06/11 23:37	1
Indole	ND		5.0	1.8	ng/L		09/18/11 15:45	10/06/11 23:37	1
Indeno[1,2,3-cd]pyrene	ND		5.7	1.3	ng/L		09/18/11 15:45	10/06/11 23:37	1
Naphthalene	**4.5**	J *	9.1	1.2	ng/L		09/18/11 15:45	10/06/11 23:37	1
Perylene	ND		4.0	4.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Phenanthrene	ND		6.7	3.4	ng/L		09/18/11 15:45	10/06/11 23:37	1
Pyrene	ND		4.4	1.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Quinoline	ND		9.5	6.0	ng/L		09/18/11 15:45	10/06/11 23:37	1
Biphenyl	ND		5.9	1.1	ng/L		09/18/11 15:45	10/06/11 23:37	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*80*		*23 - 84*	*09/18/11 15:45*	*10/06/11 23:37*	*1*
Chrysene-d12 (Surr)	*71*		*28 - 101*	*09/18/11 15:45*	*10/06/11 23:37*	*1*
Naphthalene-d8 (Surr)	*85*		*22 - 97*	*09/18/11 15:45*	*10/06/11 23:37*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FD10	sene-d12 (S	thalene-d8
Lab Sample ID	Client Sample ID	(23-84)	(28-101)	(22-97)
280-20302-1	SLP10TEXTENDED-091311	64	16 X	58
280-20302-2	SLP12-091311	67	32	59
280-20302-3	SLP4-091311	72	25 X	77
280-20302-4	W48-091311	69	24 X	79
280-20302-5	SLP6-091311	71	26 X	76
280-20302-6	W119-091311	83	50	87
280-20302-8	SLP10T-091311	71	56	75
280-20302-9	SLP10-091311	66	48	66
280-20302-10	SLP11-091311	82	50	68
280-20302-10 MS	SLP11-091311	84	55	88
280-20302-10 MSD	SLP11-091311	90 X	55	93
280-20302-11	SLP11DUP-091311	74	41	65
280-20302-12	SLP11FB-091311	91 X	84	84
280-20302-13	SLP11FBD-091311	80	71	85
280-20302-14	W401-091411	79	16 X	90
280-20302-15	W402-091411	81	31	75
280-20302-16	W403-091411	61	24 X	76
LCS 280-86361/2-B	Lab Control Sample	54	75	61
LCS 280-86676/2-A	Lab Control Sample	81	93	89
LCS 280-87039/2-A	Lab Control Sample	87 X	98	90
LCSD 280-86361/3-A	Lab Control Sample Dup	67	83	75
LCSD 280-87039/3-A	Lab Control Sample Dup	76	88	81
MB 280-86361/1-B	Method Blank	80	88	82
MB 280-86676/1-A	Method Blank	80	91	66
MB 280-87039/1-A	Method Blank	74	82	67

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPH
Lab Sample ID	Client Sample ID	(51-120)	(51-120)	(48-120)	(38-120)	(57-120)	(50-120)
280-20302-7	SLP10TACIDFRACTION-091311	76	80	82	72		82
LCS 280-86613/2-A	Lab Control Sample	74	77	76	56	95	87
MB 280-86613/1-A	Method Blank	76	76	76	44	84	81

Surrogate Legend

2FP = 2-Fluorophenol
PHL = Phenol-d5
NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TBP = 2,4,6-Tribromophenol
TPH = Terphenyl-d14

QC Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-86613/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 88621 — **Prep Batch: 86613**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	2.0	ug/L		09/17/11 11:25	09/29/11 16:21	1
2-Chlorophenol	ND		10	2.0	ug/L		09/17/11 11:25	09/29/11 16:21	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		09/17/11 11:25	09/29/11 16:21	1
2-Nitrophenol	ND		20	0.39	ug/L		09/17/11 11:25	09/29/11 16:21	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		09/17/11 11:25	09/29/11 16:21	1
4-Chloro-3-methylphenol	ND		20	2.4	ug/L		09/17/11 11:25	09/29/11 16:21	1
2,4,6-Trichlorophenol	ND		20	0.29	ug/L		09/17/11 11:25	09/29/11 16:21	1
2,4-Dinitrophenol	ND		60	10	ug/L		09/17/11 11:25	09/29/11 16:21	1
4-Nitrophenol	ND		50	1.2	ug/L		09/17/11 11:25	09/29/11 16:21	1
4,6-Dinitro-2-methylphenol	ND		60	4.0	ug/L		09/17/11 11:25	09/29/11 16:21	1
Pentachlorophenol	ND		60	20	ug/L		09/17/11 11:25	09/29/11 16:21	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*51 - 120*	*09/17/11 11:25*	*09/29/11 16:21*	*1*
Phenol-d5	*76*		*51 - 120*	*09/17/11 11:25*	*09/29/11 16:21*	*1*
Nitrobenzene-d5	*76*		*48 - 120*	*09/17/11 11:25*	*09/29/11 16:21*	*1*
2-Fluorobiphenyl	*44*		*38 - 120*	*09/17/11 11:25*	*09/29/11 16:21*	*1*
Terphenyl-d14	*81*		*50 - 120*	*09/17/11 11:25*	*09/29/11 16:21*	*1*

Lab Sample ID: LCS 280-86613/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 88621 — **Prep Batch: 86613**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Phenol	80.0	63.3		ug/L		79	52 - 120
2-Chlorophenol	80.0	59.6		ug/L		75	57 - 120
1,4-Dichlorobenzene	80.0	31.1		ug/L		39	27 - 120
2-Methylphenol	80.0	55.8		ug/L		70	50 - 120
N-Nitrosodi-n-propylamine	80.0	56.5		ug/L		71	50 - 120
1,2,4-Trichlorobenzene	80.0	29.5		ug/L		37	23 - 120
4-Chloro-3-methylphenol	80.0	64.1		ug/L		80	63 - 120
2-Methylnaphthalene	80.0	33.7		ug/L		42	32 - 120
2,4,6-Trichlorophenol	80.0	63.1		ug/L		79	52 - 120
Acenaphthene	80.0	51.0		ug/L		64	45 - 120
4-Nitrophenol	80.0	76.7		ug/L		96	49 - 124
2,4-Dinitrotoluene	80.0	77.4		ug/L		97	51 - 120
Pentachlorophenol	80.0	72.5		ug/L		91	40 - 120
Anthracene	80.0	68.0		ug/L		85	56 - 120
Carbazole	80.0	69.6		ug/L		87	48 - 120
Pyrene	80.0	68.1		ug/L		85	56 - 120

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol	*74*		*51 - 120*
Phenol-d5	*77*		*51 - 120*
Nitrobenzene-d5	*76*		*48 - 120*
2-Fluorobiphenyl	*56*		*38 - 120*
2,4,6-Tribromophenol	*95*		*57 - 120*
Terphenyl-d14	*87*		*50 - 120*

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-86361/1-B — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86361**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		09/16/11 14:15	10/05/11 14:31	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		09/16/11 14:15	10/05/11 14:31	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		09/16/11 14:15	10/05/11 14:31	1
2-Methylnaphthalene	1.19	J	5.9	0.98	ng/L		09/16/11 14:15	10/05/11 14:31	1
3-Methylcholanthrene	ND		5.0	5.0	ng/L		09/16/11 14:15	10/05/11 14:31	1
Acenaphthene	ND		5.7	0.50	ng/L		09/16/11 14:15	10/05/11 14:31	1
Acenaphthylene	ND		4.8	0.77	ng/L		09/16/11 14:15	10/05/11 14:31	1
Acridine	ND		6.5	6.5	ng/L		09/16/11 14:15	10/05/11 14:31	1
Anthracene	ND		4.2	0.80	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[a]anthracene	1.10	J	4.3	0.92	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[k]fluoranthene	2.02	J	4.1	1.2	ng/L		09/16/11 14:15	10/05/11 14:31	1
Benzo[g,h,i]perylene	1.45	J	6.2	1.2	ng/L		09/16/11 14:15	10/05/11 14:31	1
Carbazole	ND		3.8	0.72	ng/L		09/16/11 14:15	10/05/11 14:31	1
Chrysene	1.93	J	5.6	1.2	ng/L		09/16/11 14:15	10/05/11 14:31	1
Dibenz(a,h)anthracene	1.28	J	5.9	1.0	ng/L		09/16/11 14:15	10/05/11 14:31	1
Dibenzofuran	ND		5.7	0.99	ng/L		09/16/11 14:15	10/05/11 14:31	1
Dibenzothiophene	ND		4.1	0.98	ng/L		09/16/11 14:15	10/05/11 14:31	1
Fluoranthene	ND		4.6	1.7	ng/L		09/16/11 14:15	10/05/11 14:31	1
Fluorene	ND		4.1	0.85	ng/L		09/16/11 14:15	10/05/11 14:31	1
Indene	ND		4.7	3.3	ng/L		09/16/11 14:15	10/05/11 14:31	1
Indole	ND		4.7	1.7	ng/L		09/16/11 14:15	10/05/11 14:31	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		09/16/11 14:15	10/05/11 14:31	1
Naphthalene	1.22	J	8.6	1.1	ng/L		09/16/11 14:15	10/05/11 14:31	1
Perylene	ND		3.8	3.8	ng/L		09/16/11 14:15	10/05/11 14:31	1
Phenanthrene	ND		6.3	3.2	ng/L		09/16/11 14:15	10/05/11 14:31	1
Pyrene	2.50	J	4.2	0.99	ng/L		09/16/11 14:15	10/05/11 14:31	1
Quinoline	ND		9.0	5.7	ng/L		09/16/11 14:15	10/05/11 14:31	1
7,12-Dimethylbenz(a)anthracene	ND		2.8	2.3	ng/L		09/16/11 14:15	10/05/11 14:31	1
Biphenyl	ND		5.6	1.1	ng/L		09/16/11 14:15	10/05/11 14:31	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*80*		*23 - 84*	*09/16/11 14:15*	*10/05/11 14:31*	*1*
Chrysene-d12 (Surr)	*88*		*28 - 101*	*09/16/11 14:15*	*10/05/11 14:31*	*1*
Naphthalene-d8 (Surr)	*82*		*22 - 97*	*09/16/11 14:15*	*10/05/11 14:31*	*1*

Lab Sample ID: LCS 280-86361/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86361**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	75.0	44.6		ng/L		59	30 - 150
2,3-Dihydroindene	75.0	40.0		ng/L		53	30 - 150
1-Methylnaphthalene	75.0	52.9		ng/L		71	30 - 150
2-Methylnaphthalene	75.0	46.8		ng/L		62	25 - 95
3-Methylcholanthrene	75.0	24.4		ng/L		33	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-86361/2-B — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86361**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acenaphthene	75.0	48.5		ng/L		65	30 - 150
Acenaphthylene	75.0	41.5		ng/L		55	30 - 150
Acridine	75.0	ND	*	ng/L		4	30 - 150
Anthracene	75.0	47.9		ng/L		64	30 - 150
Benzo[a]anthracene	75.0	104		ng/L		139	30 - 150
Benzo[a]pyrene	75.0	84.0		ng/L		112	30 - 150
Benzo[e]pyrene	75.0	48.3		ng/L		64	37 - 105
Benzo[b]fluoranthene	75.0	92.1		ng/L		123	30 - 150
Benzo(b)thiophene	75.0	49.0		ng/L		65	30 - 150
Benzo[k]fluoranthene	75.0	116	*	ng/L		155	30 - 150
Benzo[g,h,i]perylene	75.0	94.9		ng/L		127	30 - 150
Carbazole	75.0	43.0		ng/L		57	30 - 150
Chrysene	75.0	127	*	ng/L		170	20 - 136
Dibenz(a,h)anthracene	75.0	107		ng/L		142	30 - 150
Dibenzofuran	75.0	43.0		ng/L		57	30 - 150
Dibenzothiophene	75.0	45.9		ng/L		61	30 - 150
Fluoranthene	75.0	54.0		ng/L		72	30 - 150
Fluorene	75.0	46.8		ng/L		62	34 - 96
Indene	75.0	42.4		ng/L		57	22 - 86
Indole	75.0	37.4		ng/L		50	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	89.3		ng/L		119	30 - 150
Naphthalene	75.0	54.7		ng/L		73	27 - 95
Perylene	75.0	29.4		ng/L		39	30 - 150
Phenanthrene	75.0	48.2		ng/L		64	30 - 150
Pyrene	75.0	50.6		ng/L		67	30 - 150
Quinoline	75.0	22.6		ng/L		30	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	13.4	*	ng/L		18	30 - 150
Biphenyl	75.0	43.6		ng/L		58	30 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*54*		*23 - 84*
Chrysene-d12 (Surr)	*75*		*28 - 101*
Naphthalene-d8 (Surr)	*61*		*22 - 97*

Lab Sample ID: LCSD 280-86361/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86361**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	75.0	54.0		ng/L		72	30 - 150	19	50
2,3-Dihydroindene	75.0	46.5		ng/L		62	30 - 150	15	50
1-Methylnaphthalene	75.0	59.7		ng/L		80	30 - 150	12	50
2-Methylnaphthalene	75.0	51.8		ng/L		69	25 - 95	10	50
3-Methylcholanthrene	75.0	31.2		ng/L		42	30 - 150	24	50
Acenaphthene	75.0	56.1		ng/L		75	30 - 150	15	50
Acenaphthylene	75.0	50.9		ng/L		68	30 - 150	20	50
Acridine	75.0	11.6	*	ng/L		16	30 - 150	115	50
Anthracene	75.0	61.1		ng/L		82	30 - 150	24	50
Benzo[a]anthracene	75.0	102		ng/L		136	30 - 150	2	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCSD 280-86361/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86361**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	75.0	86.3		ng/L		115	30 - 150	3	50
Benzo[e]pyrene	75.0	56.0		ng/L		75	37 - 105	15	50
Benzo[b]fluoranthene	75.0	90.1		ng/L		120	30 - 150	2	50
Benzo(b)thiophene	75.0	59.6		ng/L		79	30 - 150	19	50
Benzo[k]fluoranthene	75.0	118	*	ng/L		157	30 - 150	1	50
Benzo[g,h,i]perylene	75.0	98.7		ng/L		132	30 - 150	4	50
Carbazole	75.0	49.5		ng/L		66	30 - 150	14	50
Chrysene	75.0	127	*	ng/L		169	20 - 136	0	50
Dibenz(a,h)anthracene	75.0	108		ng/L		144	30 - 150	1	50
Dibenzofuran	75.0	52.0		ng/L		69	30 - 150	19	50
Dibenzothiophene	75.0	56.4		ng/L		75	30 - 150	20	50
Fluoranthene	75.0	61.0		ng/L		81	30 - 150	12	50
Fluorene	75.0	56.5		ng/L		75	34 - 96	19	50
Indene	75.0	51.2		ng/L		68	22 - 86	19	50
Indole	75.0	46.6		ng/L		62	30 - 150	22	50
Indeno[1,2,3-cd]pyrene	75.0	88.6		ng/L		118	30 - 150	1	50
Naphthalene	75.0	59.2		ng/L		79	27 - 95	8	50
Perylene	75.0	42.4		ng/L		56	30 - 150	36	50
Phenanthrene	75.0	57.5		ng/L		77	30 - 150	18	50
Pyrene	75.0	59.2		ng/L		79	30 - 150	16	50
Quinoline	75.0	41.8	*	ng/L		56	20 - 112	59	50
7,12-Dimethylbenz(a)anthracene	75.0	13.8	*	ng/L		18	30 - 150	3	50
Biphenyl	75.0	53.4		ng/L		71	30 - 150	20	50

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*67*		*23 - 84*
Chrysene-d12 (Surr)	*83*		*28 - 101*
Naphthalene-d8 (Surr)	*75*		*22 - 97*

Lab Sample ID: MB 280-86676/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86676**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		09/18/11 15:45	10/05/11 17:34	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		09/18/11 15:45	10/05/11 17:34	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		09/18/11 15:45	10/05/11 17:34	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		09/18/11 15:45	10/05/11 17:34	1
3-Methylcholanthrene	ND		5.0	5.0	ng/L		09/18/11 15:45	10/05/11 17:34	1
Acenaphthene	2.65	J	5.7	0.50	ng/L		09/18/11 15:45	10/05/11 17:34	1
Acenaphthylene	ND		4.8	0.77	ng/L		09/18/11 15:45	10/05/11 17:34	1
Acridine	ND		6.5	6.5	ng/L		09/18/11 15:45	10/05/11 17:34	1
Anthracene	ND		4.2	0.80	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		09/18/11 15:45	10/05/11 17:34	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		09/18/11 15:45	10/05/11 17:34	1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: MB 280-86676/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86676**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		09/18/11 15:45	10/05/11 17:34	1
Carbazole	ND		3.8	0.72	ng/L		09/18/11 15:45	10/05/11 17:34	1
Chrysene	ND		5.6	1.2	ng/L		09/18/11 15:45	10/05/11 17:34	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		09/18/11 15:45	10/05/11 17:34	1
Dibenzofuran	ND		5.7	0.99	ng/L		09/18/11 15:45	10/05/11 17:34	1
Dibenzothiophene	ND		4.1	0.98	ng/L		09/18/11 15:45	10/05/11 17:34	1
Fluoranthene	ND		4.6	1.7	ng/L		09/18/11 15:45	10/05/11 17:34	1
Fluorene	ND		4.1	0.85	ng/L		09/18/11 15:45	10/05/11 17:34	1
Indene	ND		4.7	3.3	ng/L		09/18/11 15:45	10/05/11 17:34	1
Indole	ND		4.7	1.7	ng/L		09/18/11 15:45	10/05/11 17:34	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		09/18/11 15:45	10/05/11 17:34	1
Naphthalene	ND		8.6	1.1	ng/L		09/18/11 15:45	10/05/11 17:34	1
Perylene	ND		3.8	3.8	ng/L		09/18/11 15:45	10/05/11 17:34	1
Phenanthrene	ND		6.3	3.2	ng/L		09/18/11 15:45	10/05/11 17:34	1
Pyrene	ND		4.2	0.99	ng/L		09/18/11 15:45	10/05/11 17:34	1
Quinoline	ND		9.0	5.7	ng/L		09/18/11 15:45	10/05/11 17:34	1
7,12-Dimethylbenz(a)anthracene	ND		2.8	2.3	ng/L		09/18/11 15:45	10/05/11 17:34	1
Biphenyl	ND		5.6	1.1	ng/L		09/18/11 15:45	10/05/11 17:34	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*80*		*23 - 84*	*09/18/11 15:45*	*10/05/11 17:34*	*1*
Chrysene-d12 (Surr)	*91*		*28 - 101*	*09/18/11 15:45*	*10/05/11 17:34*	*1*
Naphthalene-d8 (Surr)	*66*		*22 - 97*	*09/18/11 15:45*	*10/05/11 17:34*	*1*

Lab Sample ID: LCS 280-86676/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86676**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	75.0	66.2		ng/L		88	30 - 150
2,3-Dihydroindene	75.0	62.8		ng/L		84	30 - 150
1-Methylnaphthalene	75.0	74.9		ng/L		100	30 - 150
2-Methylnaphthalene	75.0	65.0		ng/L		87	25 - 95
3-Methylcholanthrene	75.0	48.1		ng/L		64	30 - 150
Acenaphthene	75.0	68.7		ng/L		92	30 - 150
Acenaphthylene	75.0	63.5		ng/L		85	30 - 150
Acridine	75.0	13.6	*	ng/L		18	30 - 150
Anthracene	75.0	67.6		ng/L		90	30 - 150
Benzo[a]anthracene	75.0	60.0		ng/L		80	30 - 150
Benzo[a]pyrene	75.0	61.5		ng/L		82	30 - 150
Benzo[e]pyrene	75.0	64.4		ng/L		86	37 - 105
Benzo[b]fluoranthene	75.0	62.8		ng/L		84	30 - 150
Benzo(b)thiophene	75.0	71.8		ng/L		96	30 - 150
Benzo[k]fluoranthene	75.0	69.6		ng/L		93	30 - 150
Benzo[g,h,i]perylene	75.0	57.4		ng/L		76	30 - 150
Carbazole	75.0	63.4		ng/L		85	30 - 150
Chrysene	75.0	77.4		ng/L		103	20 - 136
Dibenz(a,h)anthracene	75.0	53.8		ng/L		72	30 - 150
Dibenzofuran	75.0	61.8		ng/L		82	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-86676/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 86676**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Dibenzothiophene	75.0	66.0		ng/L		88	30 - 150
Fluoranthene	75.0	67.1		ng/L		89	30 - 150
Fluorene	75.0	66.2		ng/L		88	34 - 96
Indene	75.0	63.8		ng/L		85	22 - 86
Indole	75.0	59.2		ng/L		79	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	53.4		ng/L		71	30 - 150
Naphthalene	75.0	73.3	*	ng/L		98	27 - 95
Perylene	75.0	63.5		ng/L		85	30 - 150
Phenanthrene	75.0	65.9		ng/L		88	30 - 150
Pyrene	75.0	64.2		ng/L		86	30 - 150
Quinoline	75.0	51.1		ng/L		68	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	50.9		ng/L		68	30 - 150
Biphenyl	75.0	64.9		ng/L		86	30 - 150

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*81*		*23 - 84*
Chrysene-d12 (Surr)	*93*		*28 - 101*
Naphthalene-d8 (Surr)	*89*		*22 - 97*

Lab Sample ID: 280-20302-10 MS — **Client Sample ID: SLP11-091311**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89868 — **Prep Batch: 86676**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	3.9	J	83.3	78.6		ng/L		90	30 - 150
2,3-Dihydroindene	20		83.3	92.4		ng/L		87	30 - 150
1-Methylnaphthalene	3.3	J	83.3	83.2		ng/L		96	30 - 150
2-Methylnaphthalene	1.4	J	83.3	68.5		ng/L		81	25 - 95
3-Methylcholanthrene	ND		83.3	8.11	F	ng/L		10	30 - 150
Acenaphthene	9.6	B	83.3	81.5		ng/L		86	30 - 150
Acenaphthylene	ND		83.3	68.5		ng/L		82	30 - 150
Acridine	ND	*	83.3	43.8		ng/L		53	30 - 150
Anthracene	ND		83.3	64.6		ng/L		78	30 - 150
Benzo[a]anthracene	ND		83.3	34.3		ng/L		41	30 - 150
Benzo[a]pyrene	ND		83.3	10.6	F	ng/L		13	30 - 150
Benzo[e]pyrene	ND		83.3	12.5	F	ng/L		15	37 - 105
Benzo[b]fluoranthene	ND		83.3	12.1	F	ng/L		15	30 - 150
Benzo(b)thiophene	9.9		83.3	87.5		ng/L		93	30 - 150
Benzo[k]fluoranthene	ND		83.3	14.3	F	ng/L		17	30 - 150
Benzo[g,h,i]perylene	ND		83.3	2.59	J F	ng/L		3	30 - 150
Carbazole	2.2	J	83.3	68.5		ng/L		80	30 - 150
Chrysene	ND		83.3	49.3		ng/L		59	20 - 136
Dibenz(a,h)anthracene	ND		83.3	1.21	J F	ng/L		1	30 - 150
Dibenzofuran	ND		83.3	71.7		ng/L		86	30 - 150
Dibenzothiophene	ND		83.3	73.4		ng/L		88	30 - 150
Fluoranthene	ND		83.3	70.3		ng/L		84	30 - 150
Fluorene	1.1	J	83.3	77.3		ng/L		91	34 - 96
Indene	19		83.3	91.2	F	ng/L		87	22 - 86
Indole	ND		83.3	62.6		ng/L		75	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-20302-10 MS
Matrix: Water
Analysis Batch: 89868

Client Sample ID: SLP11-091311
Prep Type: Total/NA
Prep Batch: 86676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Indeno[1,2,3-cd]pyrene	ND		83.3	1.58	J F	ng/L		2	30 - 150
Naphthalene	22	*	83.3	103	F	ng/L		97	27 - 95
Perylene	ND		83.3	14.2	F	ng/L		17	30 - 150
Phenanthrene	ND		83.3	74.3		ng/L		89	30 - 150
Pyrene	ND		83.3	67.5		ng/L		81	30 - 150
Quinoline	ND		83.3	62.8		ng/L		75	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		83.3	54.4		ng/L		65	30 - 150
Biphenyl	ND		83.3	70.8		ng/L		85	30 - 150

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*84*		*23 - 84*
Chrysene-d12 (Surr)	*55*		*28 - 101*
Naphthalene-d8 (Surr)	*88*		*22 - 97*

Lab Sample ID: 280-20302-10 MSD
Matrix: Water
Analysis Batch: 89868

Client Sample ID: SLP11-091311
Prep Type: Total/NA
Prep Batch: 86676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	3.9	J	81.6	78.0		ng/L		91	30 - 150	1	50
2,3-Dihydroindene	20		81.6	84.6		ng/L		80	30 - 150	9	50
1-Methylnaphthalene	3.3	J	81.6	83.1		ng/L		98	30 - 150	0	50
2-Methylnaphthalene	1.4	J	81.6	71.7		ng/L		86	25 - 95	4	50
3-Methylcholanthrene	ND		81.6	10.6	F	ng/L		13	30 - 150	27	50
Acenaphthene	9.6	B	81.6	83.7		ng/L		91	30 - 150	3	50
Acenaphthylene	ND		81.6	72.4		ng/L		89	30 - 150	6	50
Acridine	ND	*	81.6	ND	F	ng/L		0	30 - 150	NC	50
Anthracene	ND		81.6	78.4		ng/L		96	30 - 150	19	50
Benzo[a]anthracene	ND		81.6	40.3		ng/L		49	30 - 150	16	50
Benzo[a]pyrene	ND		81.6	15.0	F	ng/L		18	30 - 150	35	50
Benzo[e]pyrene	ND		81.6	14.8	F	ng/L		18	37 - 105	17	50
Benzo[b]fluoranthene	ND		81.6	15.1	F	ng/L		18	30 - 150	22	50
Benzo(b)thiophene	9.9		81.6	86.2		ng/L		94	30 - 150	2	50
Benzo[k]fluoranthene	ND		81.6	17.5	F	ng/L		21	30 - 150	20	50
Benzo[g,h,i]perylene	ND		81.6	5.90	J F	ng/L		7	30 - 150	78	50
Carbazole	2.2	J	81.6	68.9		ng/L		82	30 - 150	0	50
Chrysene	ND		81.6	51.0		ng/L		63	20 - 136	3	50
Dibenz(a,h)anthracene	ND		81.6	4.18	J F	ng/L		5	30 - 150	110	50
Dibenzofuran	ND		81.6	73.2		ng/L		90	30 - 150	2	50
Dibenzothiophene	ND		81.6	75.5		ng/L		93	30 - 150	3	50
Fluoranthene	ND		81.6	77.1		ng/L		94	30 - 150	9	50
Fluorene	1.1	J	81.6	78.5		ng/L		95	34 - 96	2	50
Indene	19		81.6	85.0		ng/L		81	22 - 86	7	50
Indole	ND		81.6	65.3		ng/L		80	30 - 150	4	50
Indeno[1,2,3-cd]pyrene	ND		81.6	5.05	J F	ng/L		6	30 - 150	105	50
Naphthalene	22	*	81.6	96.2		ng/L		91	27 - 95	7	50
Perylene	ND		81.6	15.4	F	ng/L		19	30 - 150	8	50
Phenanthrene	ND		81.6	76.1		ng/L		93	30 - 150	2	50
Pyrene	ND		81.6	74.1		ng/L		91	30 - 150	9	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-20302-10 MSD — **Client Sample ID: SLP11-091311**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89868 — **Prep Batch: 86676**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Quinoline	ND		81.6	52.8		ng/L		65	20 - 112	17	50
7,12-Dimethylbenz(a)anthracene	ND		81.6	59.9		ng/L		73	30 - 150	10	50
Biphenyl	ND		81.6	71.8		ng/L		88	30 - 150	1	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*90*	*X*	*23 - 84*
Chrysene-d12 (Surr)	*55*		*28 - 101*
Naphthalene-d8 (Surr)	*93*		*22 - 97*

Lab Sample ID: MB 280-87039/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 87039**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		09/20/11 18:38	10/05/11 19:59	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		09/20/11 18:38	10/05/11 19:59	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		09/20/11 18:38	10/05/11 19:59	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		09/20/11 18:38	10/05/11 19:59	1
3-Methylcholanthrene	ND		5.0	5.0	ng/L		09/20/11 18:38	10/05/11 19:59	1
Acenaphthene	1.07	J	5.7	0.50	ng/L		09/20/11 18:38	10/05/11 19:59	1
Acenaphthylene	ND		4.8	0.77	ng/L		09/20/11 18:38	10/05/11 19:59	1
Acridine	ND		6.5	6.5	ng/L		09/20/11 18:38	10/05/11 19:59	1
Anthracene	ND		4.2	0.80	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[a]anthracene	2.94	J	4.3	0.92	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[a]pyrene	1.82	J	2.5	1.2	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[e]pyrene	1.70	J	4.3	1.1	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[b]fluoranthene	2.51	J	4.7	1.4	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[k]fluoranthene	4.91		4.1	1.2	ng/L		09/20/11 18:38	10/05/11 19:59	1
Benzo[g,h,i]perylene	1.78	J	6.2	1.2	ng/L		09/20/11 18:38	10/05/11 19:59	1
Carbazole	ND		3.8	0.72	ng/L		09/20/11 18:38	10/05/11 19:59	1
Chrysene	ND		5.6	1.2	ng/L		09/20/11 18:38	10/05/11 19:59	1
Dibenz(a,h)anthracene	1.26	J	5.9	1.0	ng/L		09/20/11 18:38	10/05/11 19:59	1
Dibenzofuran	ND		5.7	0.99	ng/L		09/20/11 18:38	10/05/11 19:59	1
Dibenzothiophene	19.5		4.1	0.98	ng/L		09/20/11 18:38	10/05/11 19:59	1
Fluoranthene	ND		4.6	1.7	ng/L		09/20/11 18:38	10/05/11 19:59	1
Fluorene	ND		4.1	0.85	ng/L		09/20/11 18:38	10/05/11 19:59	1
Indene	ND		4.7	3.3	ng/L		09/20/11 18:38	10/05/11 19:59	1
Indole	ND		4.7	1.7	ng/L		09/20/11 18:38	10/05/11 19:59	1
Indeno[1,2,3-cd]pyrene	1.30	J	5.4	1.3	ng/L		09/20/11 18:38	10/05/11 19:59	1
Naphthalene	ND		8.6	1.1	ng/L		09/20/11 18:38	10/05/11 19:59	1
Perylene	ND		3.8	3.8	ng/L		09/20/11 18:38	10/05/11 19:59	1
Phenanthrene	ND		6.3	3.2	ng/L		09/20/11 18:38	10/05/11 19:59	1
Pyrene	ND		4.2	0.99	ng/L		09/20/11 18:38	10/05/11 19:59	1
Quinoline	ND		9.0	5.7	ng/L		09/20/11 18:38	10/05/11 19:59	1
7,12-Dimethylbenz(a)anthracene	ND		2.8	2.3	ng/L		09/20/11 18:38	10/05/11 19:59	1
Biphenyl	ND		5.6	1.1	ng/L		09/20/11 18:38	10/05/11 19:59	1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: MB 280-87039/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 87039**

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fluorene-d10 (Surr)	74		23 - 84	09/20/11 18:38	10/05/11 19:59	1
Chrysene-d12 (Surr)	82		28 - 101	09/20/11 18:38	10/05/11 19:59	1
Naphthalene-d8 (Surr)	67		22 - 97	09/20/11 18:38	10/05/11 19:59	1

Lab Sample ID: LCS 280-87039/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 87039**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,3-Benzofuran	75.0	64.0		ng/L		85	30 - 150
2,3-Dihydroindene	75.0	65.3		ng/L		87	30 - 150
1-Methylnaphthalene	75.0	75.1		ng/L		100	30 - 150
2-Methylnaphthalene	75.0	65.7		ng/L		88	25 - 95
3-Methylcholanthrene	75.0	35.3		ng/L		47	30 - 150
Acenaphthene	75.0	69.4		ng/L		93	30 - 150
Acenaphthylene	75.0	63.7		ng/L		85	30 - 150
Acridine	75.0	32.5		ng/L		43	30 - 150
Anthracene	75.0	73.2		ng/L		98	30 - 150
Benzo[a]anthracene	75.0	68.5		ng/L		91	30 - 150
Benzo[a]pyrene	75.0	66.1		ng/L		88	30 - 150
Benzo[e]pyrene	75.0	67.3		ng/L		90	37 - 105
Benzo[b]fluoranthene	75.0	64.7		ng/L		86	30 - 150
Benzo(b)thiophene	75.0	70.0		ng/L		93	30 - 150
Benzo[k]fluoranthene	75.0	76.6		ng/L		102	30 - 150
Benzo[g,h,i]perylene	75.0	61.3		ng/L		82	30 - 150
Carbazole	75.0	61.8		ng/L		82	30 - 150
Chrysene	75.0	83.0		ng/L		111	20 - 136
Dibenz(a,h)anthracene	75.0	58.2		ng/L		78	30 - 150
Dibenzofuran	75.0	63.3		ng/L		84	30 - 150
Dibenzothiophene	75.0	68.3		ng/L		91	30 - 150
Fluoranthene	75.0	71.1		ng/L		95	30 - 150
Fluorene	75.0	70.3		ng/L		94	34 - 96
Indene	75.0	63.1		ng/L		84	22 - 86
Indole	75.0	52.1		ng/L		69	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	58.3		ng/L		78	30 - 150
Naphthalene	75.0	72.7	*	ng/L		97	27 - 95
Perylene	75.0	67.4		ng/L		90	30 - 150
Phenanthrene	75.0	68.4		ng/L		91	30 - 150
Pyrene	75.0	68.2		ng/L		91	30 - 150
Quinoline	75.0	43.1		ng/L		57	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	20.5	*	ng/L		27	30 - 150
Biphenyl	75.0	66.7		ng/L		89	30 - 150

Surrogate	LCS % Recovery	LCS Qualifier	Limits
Fluorene-d10 (Surr)	87	X	23 - 84
Chrysene-d12 (Surr)	98		28 - 101
Naphthalene-d8 (Surr)	90		22 - 97

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCSD 280-87039/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 89849 — **Prep Batch: 87039**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	75.0	58.6		ng/L		78	30 - 150	9	50
2,3-Dihydroindene	75.0	59.3		ng/L		79	30 - 150	10	50
1-Methylnaphthalene	75.0	62.7		ng/L		84	30 - 150	18	50
2-Methylnaphthalene	75.0	57.9		ng/L		77	25 - 95	13	50
3-Methylcholanthrene	75.0	39.9		ng/L		53	30 - 150	12	50
Acenaphthene	75.0	62.0		ng/L		83	30 - 150	11	50
Acenaphthylene	75.0	56.0		ng/L		75	30 - 150	13	50
Acridine	75.0	20.5	*	ng/L		27	30 - 150	45	50
Anthracene	75.0	62.6		ng/L		84	30 - 150	16	50
Benzo[a]anthracene	75.0	54.4		ng/L		73	30 - 150	23	50
Benzo[a]pyrene	75.0	61.4		ng/L		82	30 - 150	7	50
Benzo[e]pyrene	75.0	61.8		ng/L		82	37 - 105	9	50
Benzo[b]fluoranthene	75.0	57.9		ng/L		77	30 - 150	11	50
Benzo(b)thiophene	75.0	63.3		ng/L		84	30 - 150	10	50
Benzo[k]fluoranthene	75.0	70.7		ng/L		94	30 - 150	8	50
Benzo[g,h,i]perylene	75.0	59.8		ng/L		80	30 - 150	2	50
Carbazole	75.0	47.3		ng/L		63	30 - 150	27	50
Chrysene	75.0	77.5		ng/L		103	20 - 136	7	50
Dibenz(a,h)anthracene	75.0	56.7		ng/L		76	30 - 150	3	50
Dibenzofuran	75.0	55.1		ng/L		73	30 - 150	14	50
Dibenzothiophene	75.0	59.6		ng/L		79	30 - 150	14	50
Fluoranthene	75.0	61.2		ng/L		82	30 - 150	15	50
Fluorene	75.0	61.0		ng/L		81	34 - 96	14	50
Indene	75.0	57.4		ng/L		77	22 - 86	9	50
Indole	75.0	48.5		ng/L		65	30 - 150	7	50
Indeno[1,2,3-cd]pyrene	75.0	55.9		ng/L		75	30 - 150	4	50
Naphthalene	75.0	66.3		ng/L		88	27 - 95	9	50
Perylene	75.0	65.5		ng/L		87	30 - 150	3	50
Phenanthrene	75.0	58.4		ng/L		78	30 - 150	16	50
Pyrene	75.0	58.4		ng/L		78	30 - 150	16	50
Quinoline	75.0	39.8		ng/L		53	20 - 112	8	50
7,12-Dimethylbenz(a)anthracene	75.0	25.0		ng/L		33	30 - 150	20	50
Biphenyl	75.0	57.9		ng/L		77	30 - 150	14	50

Surrogate	*LCSD % Recovery*	*LCSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*76*		*23 - 84*
Chrysene-d12 (Surr)	*88*		*28 - 101*
Naphthalene-d8 (Surr)	*81*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

GC/MS Semi VOA

Prep Batch: 86361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-1	SLP10TEXTENDED-091311	Total/NA	Water	3520C	
280-20302-2	SLP12-091311	Total/NA	Water	3520C	
280-20302-3	SLP4-091311	Total/NA	Water	3520C	
280-20302-4	W48-091311	Total/NA	Water	3520C	
280-20302-5	SLP6-091311	Total/NA	Water	3520C	
280-20302-6	W119-091311	Total/NA	Water	3520C	
280-20302-8	SLP10T-091311	Total/NA	Water	3520C	
280-20302-9	SLP10-091311	Total/NA	Water	3520C	
LCS 280-86361/2-B	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-86361/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-86361/1-B	Method Blank	Total/NA	Water	3520C	

Prep Batch: 86613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-7	SLP10TACIDFRACTION-091311	Total/NA	Water	3520C	
LCS 280-86613/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-86613/1-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 86676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-10	SLP11-091311	Total/NA	Water	3520C	
280-20302-10 MS	SLP11-091311	Total/NA	Water	3520C	
280-20302-10 MSD	SLP11-091311	Total/NA	Water	3520C	
280-20302-11	SLP11DUP-091311	Total/NA	Water	3520C	
280-20302-12	SLP11FB-091311	Total/NA	Water	3520C	
280-20302-13	SLP11FBD-091311	Total/NA	Water	3520C	
280-20302-14	W401-091411	Total/NA	Water	3520C	
280-20302-15	W402-091411	Total/NA	Water	3520C	
LCS 280-86676/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-86676/1-A	Method Blank	Total/NA	Water	3520C	

Prep Batch: 87039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-16	W403-091411	Total/NA	Water	3520C	
LCS 280-87039/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 280-87039/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 280-87039/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 88621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-7	SLP10TACIDFRACTION-091311	Total/NA	Water	8270C	86613
LCS 280-86613/2-A	Lab Control Sample	Total/NA	Water	8270C	86613
MB 280-86613/1-A	Method Blank	Total/NA	Water	8270C	86613

Analysis Batch: 89849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-86361/2-B	Lab Control Sample	Total/NA	Water	8270C	86361
LCS 280-86676/2-A	Lab Control Sample	Total/NA	Water	8270C	86676
LCS 280-87039/2-A	Lab Control Sample	Total/NA	Water	8270C	87039
LCSD 280-86361/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	86361
LCSD 280-87039/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	87039
MB 280-86361/1-B	Method Blank	Total/NA	Water	8270C	86361

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

GC/MS Semi VOA (Continued)

Analysis Batch: 89849 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-86676/1-A	Method Blank	Total/NA	Water	8270C	86676
MB 280-87039/1-A	Method Blank	Total/NA	Water	8270C	87039

Analysis Batch: 89868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-20302-1	SLP10TEXTENDED-091311	Total/NA	Water	8270C	86361
280-20302-2	SLP12-091311	Total/NA	Water	8270C	86361
280-20302-3	SLP4-091311	Total/NA	Water	8270C	86361
280-20302-4	W48-091311	Total/NA	Water	8270C	86361
280-20302-5	SLP6-091311	Total/NA	Water	8270C	86361
280-20302-6	W119-091311	Total/NA	Water	8270C	86361
280-20302-8	SLP10T-091311	Total/NA	Water	8270C	86361
280-20302-9	SLP10-091311	Total/NA	Water	8270C	86361
280-20302-10	SLP11-091311	Total/NA	Water	8270C	86676
280-20302-10 MS	SLP11-091311	Total/NA	Water	8270C	86676
280-20302-10 MSD	SLP11-091311	Total/NA	Water	8270C	86676
280-20302-11	SLP11DUP-091311	Total/NA	Water	8270C	86676
280-20302-12	SLP11FB-091311	Total/NA	Water	8270C	86676
280-20302-13	SLP11FBD-091311	Total/NA	Water	8270C	86676
280-20302-14	W401-091411	Total/NA	Water	8270C	86676
280-20302-15	W402-091411	Total/NA	Water	8270C	86676
280-20302-16	W403-091411	Total/NA	Water	8270C	87039

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10TEXTENDED-091311

Lab Sample ID: 280-20302-1
Matrix: Water

Date Collected: 09/13/11 15:25
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3946.8 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 15:49	DPI	TAL DEN

Client Sample ID: SLP12-091311

Lab Sample ID: 280-20302-2
Matrix: Water

Date Collected: 09/13/11 14:15
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3904.9 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 16:25	DPI	TAL DEN

Client Sample ID: SLP4-091311

Lab Sample ID: 280-20302-3
Matrix: Water

Date Collected: 09/13/11 14:45
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3904.9 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 17:01	DPI	TAL DEN

Client Sample ID: W48-091311

Lab Sample ID: 280-20302-4
Matrix: Water

Date Collected: 09/13/11 11:00
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3922.8 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 17:37	DPI	TAL DEN

Client Sample ID: SLP6-091311

Lab Sample ID: 280-20302-5
Matrix: Water

Date Collected: 09/13/11 11:45
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3899.6 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 18:13	DPI	TAL DEN

Client Sample ID: W119-091311

Lab Sample ID: 280-20302-6
Matrix: Water

Date Collected: 09/13/11 12:00
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3915.8 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 18:49	DPI	TAL DEN

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10TACIDFRACTION-091311

Lab Sample ID: 280-20302-7
Matrix: Water

Date Collected: 09/13/11 15:20
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			982.5 mL	1000 uL	86613	09/17/11 11:25	JCV	TAL DEN
Total/NA	Analysis	8270C		1			88621	09/29/11 22:51	DCK	TAL DEN

Client Sample ID: SLP10T-091311

Lab Sample ID: 280-20302-8
Matrix: Water

Date Collected: 09/13/11 15:15
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3921.7 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 19:24	DPI	TAL DEN

Client Sample ID: SLP10-091311

Lab Sample ID: 280-20302-9
Matrix: Water

Date Collected: 09/13/11 13:45
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3912.6 mL	1000 uL	86361	09/16/11 14:15	JCV	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 20:00	DPI	TAL DEN

Client Sample ID: SLP11-091311

Lab Sample ID: 280-20302-10
Matrix: Water

Date Collected: 09/13/11 16:30
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3557.1 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 20:36	DPI	TAL DEN

Client Sample ID: SLP11DUP-091311

Lab Sample ID: 280-20302-11
Matrix: Water

Date Collected: 09/13/11 16:35
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3618 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 22:24	DPI	TAL DEN

Client Sample ID: SLP11FB-091311

Lab Sample ID: 280-20302-12
Matrix: Water

Date Collected: 09/13/11 16:20
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3881.4 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 23:00	DPI	TAL DEN

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP11FBD-091311

Lab Sample ID: 280-20302-13
Matrix: Water

Date Collected: 09/13/11 16:25
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3785.8 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 23:37	DPI	TAL DEN

Client Sample ID: W401-091411

Lab Sample ID: 280-20302-14
Matrix: Water

Date Collected: 09/14/11 09:00
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3574.3 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/07/11 00:14	DPI	TAL DEN

Client Sample ID: W402-091411

Lab Sample ID: 280-20302-15
Matrix: Water

Date Collected: 09/14/11 08:55
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3817 mL	1000 uL	86676	09/18/11 15:45	DFB	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/07/11 00:51	DPI	TAL DEN

Client Sample ID: W403-091411

Lab Sample ID: 280-20302-16
Matrix: Water

Date Collected: 09/14/11 12:00
Date Received: 09/15/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3809.2 mL	1000 uL	87039	09/20/11 18:38	EJP	TAL DEN
Total/NA	Analysis	8270C		1			89868	10/06/11 14:36	DPI	TAL DEN

Laboratory References:
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

Sampler ID: DM

Temperature on Receipt: 3.2, 4.2, 5.1, 3.1, 3.3, 3.9, 3.7, 4.1, 4.4, 2.3, 3.2, 2.8, 4.5, 4.6

Drinking Water? Yes ☐ No ☐

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (1007)

Client: City of St. Louis Park (AECOM)	Project Manager: Drew Tarara	Date: 9/13/11	Chain of Custody Number: 103634
Address: 7305 Oxford St.	Telephone Number (Area Code)/Fax Number: 651 367-2335	Lab Number	Page 1 of 2
City: St. Louis Park; State: MN; Zip Code: 55416	Site Contact: Scott Anderson	Lab Contact: Lisa M.	
Project Name and Location (State): Reilly	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 6014 5681			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): PAH PPT	Special Instructions/ Conditions of Receipt
SLP10TExtended-091311	9/13/11	1525		X			6						X	Extended List PAH — Low Level PAH (PPT)
SLP12-091311		1415												
SLP4-091311		1445												
W48-091311		1100												
SLP6-091311		1145												
W119-091311		1200												
SLP10TAcid Fraction-091311		1520												Acid Fraction Extraction Only
SLP10T-091311		1515												
SLP10-091311		1345												
SLP11-091311		1630												
SLP11Dup-091311		1635												
SLP11MS-091311		1640												

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 9/	Time	1. Received By: [signature]	Date: 9/15/11	Time: 930
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (1007)

Client: City of St. Louis Park (AECOM)	Project Manager: Drew Tarara	Date: 9/13/11	Chain of Custody Number: 103635
Address: 7305 Oxford St.	Telephone Number (Area Code)/Fax Number: 651 367-2335	Lab Number	Page 2 of 2
City: St. Louis Park; State: MN; Zip Code: 55416	Site Contact: Scott Anderson	Lab Contact: Lisa U.	
Project Name and Location (State): Reilly	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 6014588			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	Zn-Ac/NaOH	Analysis (Attach list if more space is needed): PAH PPT	Special Instructions/ Conditions of Receipt
SLP11 MSD-091311	9/13/11	1645		X			6						X	
SLP11 FB-091311	↓	1620		↓			↓						↓	
SLP11 FBD-091311	↓	1625		↓			↓						↓	
W401-091411	9/14/11	900		↓			↓						↓	
W402-091411	↓	855		↓			↓						↓	
W403-091411	↓	1200		↓			↓						↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	9/		1. Received By: [signature]	9/15/11	930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-20302-1

Login Number: 20302

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No relinquished date or time listed on the COC's.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Detection Limit Exceptions Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8270C	Water	2,3-Benzofuran	ng/L	5.4	20
8270C	Water	2,3-Dihydroindene	ng/L	5.0	20
8270C	Water	1-Methylnaphthalene	ng/L	5.6	20
8270C	Water	2-Methylnaphthalene	ng/L	5.9	20
8270C	Water	3-Methylcholanthrene	ng/L	5.0	20
8270C	Water	Acenaphthene	ng/L	5.7	20
8270C	Water	Acenaphthylene	ng/L	4.8	20
8270C	Water	Acridine	ng/L	6.5	20
8270C	Water	Anthracene	ng/L	4.2	20
8270C	Water	Benzo[a]anthracene	ng/L	4.3	20
8270C	Water	Benzo[a]pyrene	ng/L	2.5	20
8270C	Water	Benzo[e]pyrene	ng/L	4.3	20
8270C	Water	Benzo[b]fluoranthene	ng/L	4.7	20
8270C	Water	Benzo(b)thiophene	ng/L	5.2	20
8270C	Water	Benzo[k]fluoranthene	ng/L	4.1	20
8270C	Water	Benzo[g,h,i]perylene	ng/L	6.2	20
8270C	Water	Carbazole	ng/L	3.8	20
8270C	Water	Chrysene	ng/L	5.6	20
8270C	Water	Dibenz(a,h)anthracene	ng/L	5.9	20
8270C	Water	Dibenzofuran	ng/L	5.7	20
8270C	Water	Dibenzothiophene	ng/L	4.1	20
8270C	Water	Fluoranthene	ng/L	4.6	20
8270C	Water	Fluorene	ng/L	4.1	20
8270C	Water	Indene	ng/L	4.7	20
8270C	Water	Indole	ng/L	4.7	20
8270C	Water	Indeno[1,2,3-cd]pyrene	ng/L	5.4	20
8270C	Water	Naphthalene	ng/L	8.6	20
8270C	Water	Perylene	ng/L	3.8	20
8270C	Water	Phenanthrene	ng/L	6.3	20
8270C	Water	Pyrene	ng/L	4.2	20
8270C	Water	Quinoline	ng/L	9.0	20
8270C	Water	7,12-Dimethylbenz(a)anthracene	ng/L	2.8	20
8270C	Water	Biphenyl	ng/L	5.6	20

RAP SECTION 4.3.1 (C)

PAH ANALYSIS

RESAMPLES

SLP10T ①
Resampl

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-21871-1
Client Project/Site: CSLP - Reilly Tar & Chemical

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Lisa B. Uriell

Authorized for release by:
11/11/2011 4:33:20 PM

Lisa Uriell
Project Manager I
lisa.uriell@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Job ID: 280-21871-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-21871-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Four samples were received under chain of custody on October 21, 2011. The samples were received at temperatures of 4.2°C, 4.4°C, 3.2°C, 2.9°C and 3.8°C.

No anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to limited sample volume, the following samples had an initial aliquot volume below the nominal aliquot volume of 4000 mL. Therefore, the analysis of these samples had to be performed with elevated detection limits. The reporting limits have been adjusted relative to the dilutions required.

SLP10T-102011 (280-21871-1) had an initial volume of 3595.4 mL
SLP10TDUP-102011 (280-21871-2) had an initial volume of 3566.3 mL
SLP10TFB-102011 (280-21871-3) had an initial volume of 3755 mL
SLP10TFBD-102011 (280-21871-4) had an initial volume of 3600.8 mL

Low levels of Acenaphthylene are present in the method blank associated with prep batch 280-92993. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B".

Additionally, levels of 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Benzo(b)thiophene, Dibenzofuran and Naphthalene are present in the method blank associated with prep batch 280-92993 at levels above the RL. The associated positive results in the analytical report have been flagged with "B". Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is.

The LCS associated with prep batch 280-92993 exhibited percent recoveries below the QC control limits for Acridine at 21% (limits 30-150%) and 7,12-Dimethylbenz(a)anthracene at 29% (limits 30-150%). This 7,12-Dimethylbenz(a)anthracene is not a compound of interest for this project. The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

Job ID: 280-21871-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

The MS/MSD associated with prep batch 280-92993 was performed using sample SLP10T-102011 (280-21871-1), as requested. MS/MSD exhibited 11 of the 33 Matrix Spike compound recoveries and 1 of the 3 surrogate recoveries outside the control limits. MS/MSD exhibited 11 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited 1 of the 33 Relative Percent Difference (RPD) data outside the control limits. The MS/MSD exhibited percent recoveries and/or RPD data outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylnaphthalene	Acridine	Benzo[a]anthracene
Benzo[a]pyrene	Benzo[e]pyrene	Benzo[b]fluoranthene
Benzo[k]fluoranthene	Benzo[ghi]perylene	Dibenzo(a,h)pyrene
Indeno[1,2,3-cd]pyrene	Perylene	Chrysene-d12

No other anomalies were noted.

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-21871-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	31	25
MB Surrogates	3	3
LCS	7	7
LCS Surrogates	3	3
FB/FBD	62	58
MS	7	6
MS Surrogates	3	2
MSD	7	6
MSD Surrogates	3	3
MS/MSD RPD	7	7
Sample/Dup. RPD	31	29
Sample Surrogates	12	12
Samples and QC Internal Standard Area	24	24
TOTAL	**200**	**185**
% Completeness	**92.5%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD					
JOB 280-21871-1					
Sample: SLP10T-102011		DUP: SLP10TDUP-102011			
Compound	**Result**	**Compound**	**Result**	**RPD**	**RPD>50%**
Acenaphthene	16	Acenaphthene	16	0.0	
Acenaphthylene	1.0	Acenaphthylene	0.99	1.0	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	ND	0.0	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	0.92	2,3-Benzofuran	ND	NC	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	2.4	Benzo(b)thiophene	2.4	0.0	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	ND	Carbazole	ND	0.0	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	ND	Dibenzofuran	ND	0.0	
Dibenzothiophene	ND	Dibenzothiophene	ND	0.0	
2,3-Dihydroindene	28	2,3-Dihydroindene	25	11.3	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	1.6	Fluorene	1.4	13.3	
Indene	ND	Indene	ND	0.0	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	2.7	Indole	2.8	3.6	
2-Methylnaphthalene	3.3	2-Methylnaphthalene	1.5	75.0	p
1-Methylnaphthalene	4.9	1-Methylnaphthalene	3.8	25.3	
Naphthalene	9.4	Naphthalene	3.1	100.8	p
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	ND	Pyrene	2.8	NC	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Definitions/Glossary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10T-102011 — Lab Sample ID: 280-21871-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	0.92	J	6.0	0.76	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	28		5.6	0.78	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	4.9	J B	6.2	0.99	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	3.3	J B	6.6	1.1	ng/L	1		8270C	Total/NA
Acenaphthene	16	B	6.3	0.56	ng/L	1		8270C	Total/NA
Acenaphthylene	1.0	J B	5.3	0.86	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	2.4	J B	5.8	0.83	ng/L	1		8270C	Total/NA
Fluorene	1.6	J	4.6	0.95	ng/L	1		8270C	Total/NA
Indole	2.7	J	5.2	1.9	ng/L	1		8270C	Total/NA
Naphthalene	9.4	J B	9.6	1.3	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TDUP-102011 — Lab Sample ID: 280-21871-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	25		5.6	0.79	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	3.8	J B	6.3	1.0	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.5	J B	6.6	1.1	ng/L	1		8270C	Total/NA
Acenaphthene	16	B	6.4	0.56	ng/L	1		8270C	Total/NA
Acenaphthylene	0.99	J B	5.4	0.86	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	2.4	J B	5.8	0.84	ng/L	1		8270C	Total/NA
Fluorene	1.4	J	4.6	0.95	ng/L	1		8270C	Total/NA
Indole	2.8	J	5.3	1.9	ng/L	1		8270C	Total/NA
Naphthalene	3.1	J B	9.6	1.3	ng/L	1		8270C	Total/NA
Pyrene	2.8	J	4.7	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFB-102011 — Lab Sample ID: 280-21871-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	3.6	J	5.3	0.75	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	7.0	B	5.5	0.80	ng/L	1		8270C	Total/NA
Naphthalene	3.2	J B	9.2	1.2	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFBD-102011 — Lab Sample ID: 280-21871-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	1.6	J	5.6	0.78	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	13	B	6.2	0.99	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	14	B	6.6	1.1	ng/L	1		8270C	Total/NA
Acenaphthene	1.8	J B	6.3	0.56	ng/L	1		8270C	Total/NA
Acenaphthylene	1.7	J B	5.3	0.86	ng/L	1		8270C	Total/NA
Dibenzofuran	1.8	J B	6.3	1.1	ng/L	1		8270C	Total/NA
Naphthalene	32	B	9.6	1.3	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-21871-1	SLP10T-102011	Water	10/20/11 13:40	10/21/11 09:30
280-21871-2	SLP10TDUP-102011	Water	10/20/11 13:45	10/21/11 09:30
280-21871-3	SLP10TFB-102011	Water	10/20/11 14:00	10/21/11 09:30
280-21871-4	SLP10TFBD-102011	Water	10/20/11 14:05	10/21/11 09:30

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10T-102011
Date Collected: 10/20/11 13:40
Date Received: 10/21/11 09:30

Lab Sample ID: 280-21871-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	0.92	J	6.0	0.76	ng/L		10/25/11 16:35	11/10/11 15:21	1
2,3-Dihydroindene	28		5.6	0.78	ng/L		10/25/11 16:35	11/10/11 15:21	1
1-Methylnaphthalene	4.9	J B	6.2	0.99	ng/L		10/25/11 16:35	11/10/11 15:21	1
2-Methylnaphthalene	3.3	J B	6.6	1.1	ng/L		10/25/11 16:35	11/10/11 15:21	1
Acenaphthene	16	B	6.3	0.56	ng/L		10/25/11 16:35	11/10/11 15:21	1
Acenaphthylene	1.0	J B	5.3	0.86	ng/L		10/25/11 16:35	11/10/11 15:21	1
Acridine	ND	*	7.2	7.2	ng/L		10/25/11 16:35	11/10/11 15:21	1
Anthracene	ND		4.7	0.89	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[a]anthracene	ND		4.8	1.0	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[a]pyrene	ND		2.8	1.4	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[e]pyrene	ND		4.8	1.3	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[b]fluoranthene	ND		5.2	1.5	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo(b)thiophene	2.4	J B	5.8	0.83	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[k]fluoranthene	ND		4.6	1.4	ng/L		10/25/11 16:35	11/10/11 15:21	1
Benzo[g,h,i]perylene	ND		6.9	1.3	ng/L		10/25/11 16:35	11/10/11 15:21	1
Carbazole	ND		4.2	0.80	ng/L		10/25/11 16:35	11/10/11 15:21	1
Chrysene	ND		6.2	1.4	ng/L		10/25/11 16:35	11/10/11 15:21	1
Dibenz(a,h)anthracene	ND		6.6	1.2	ng/L		10/25/11 16:35	11/10/11 15:21	1
Dibenzofuran	ND		6.3	1.1	ng/L		10/25/11 16:35	11/10/11 15:21	1
Dibenzothiophene	ND		4.6	1.1	ng/L		10/25/11 16:35	11/10/11 15:21	1
Fluoranthene	ND		5.1	1.9	ng/L		10/25/11 16:35	11/10/11 15:21	1
Fluorene	1.6	J	4.6	0.95	ng/L		10/25/11 16:35	11/10/11 15:21	1
Indene	ND		5.2	3.6	ng/L		10/25/11 16:35	11/10/11 15:21	1
Indole	2.7	J	5.2	1.9	ng/L		10/25/11 16:35	11/10/11 15:21	1
Indeno[1,2,3-cd]pyrene	ND		6.0	1.4	ng/L		10/25/11 16:35	11/10/11 15:21	1
Naphthalene	9.4	J B	9.6	1.3	ng/L		10/25/11 16:35	11/10/11 15:21	1
Perylene	ND		4.2	4.2	ng/L		10/25/11 16:35	11/10/11 15:21	1
Phenanthrene	ND		7.0	3.6	ng/L		10/25/11 16:35	11/10/11 15:21	1
Pyrene	ND		4.7	1.1	ng/L		10/25/11 16:35	11/10/11 15:21	1
Quinoline	ND		10	6.3	ng/L		10/25/11 16:35	11/10/11 15:21	1
Biphenyl	ND		6.2	1.2	ng/L		10/25/11 16:35	11/10/11 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*10/25/11 16:35*	*11/10/11 15:21*	*1*
Chrysene-d12 (Surr)	*28*		*28 - 101*	*10/25/11 16:35*	*11/10/11 15:21*	*1*
Naphthalene-d8 (Surr)	*82*		*22 - 97*	*10/25/11 16:35*	*11/10/11 15:21*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10TDUP-102011

Lab Sample ID: 280-21871-2

Date Collected: 10/20/11 13:45
Date Received: 10/21/11 09:30

Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		6.1	0.76	ng/L		10/25/11 16:35	11/10/11 17:10	1
2,3-Dihydroindene	25		5.6	0.79	ng/L		10/25/11 16:35	11/10/11 17:10	1
1-Methylnaphthalene	3.8	J B	6.3	1.0	ng/L		10/25/11 16:35	11/10/11 17:10	1
2-Methylnaphthalene	1.5	J B	6.6	1.1	ng/L		10/25/11 16:35	11/10/11 17:10	1
Acenaphthene	16	B	6.4	0.56	ng/L		10/25/11 16:35	11/10/11 17:10	1
Acenaphthylene	0.99	J B	5.4	0.86	ng/L		10/25/11 16:35	11/10/11 17:10	1
Acridine	ND	*	7.3	7.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Anthracene	ND		4.7	0.90	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[a]anthracene	ND		4.8	1.0	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[a]pyrene	ND		2.8	1.4	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[e]pyrene	ND		4.8	1.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[b]fluoranthene	ND		5.3	1.6	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo(b)thiophene	2.4	J B	5.8	0.84	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[k]fluoranthene	ND		4.6	1.4	ng/L		10/25/11 16:35	11/10/11 17:10	1
Benzo[g,h,i]perylene	ND		7.0	1.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Carbazole	ND		4.3	0.81	ng/L		10/25/11 16:35	11/10/11 17:10	1
Chrysene	ND		6.3	1.4	ng/L		10/25/11 16:35	11/10/11 17:10	1
Dibenz(a,h)anthracene	ND		6.6	1.2	ng/L		10/25/11 16:35	11/10/11 17:10	1
Dibenzofuran	ND		6.4	1.1	ng/L		10/25/11 16:35	11/10/11 17:10	1
Dibenzothiophene	ND		4.6	1.1	ng/L		10/25/11 16:35	11/10/11 17:10	1
Fluoranthene	ND		5.2	1.9	ng/L		10/25/11 16:35	11/10/11 17:10	1
Fluorene	1.4	J	4.6	0.95	ng/L		10/25/11 16:35	11/10/11 17:10	1
Indene	ND		5.3	3.7	ng/L		10/25/11 16:35	11/10/11 17:10	1
Indole	2.8	J	5.3	1.9	ng/L		10/25/11 16:35	11/10/11 17:10	1
Indeno[1,2,3-cd]pyrene	ND		6.1	1.4	ng/L		10/25/11 16:35	11/10/11 17:10	1
Naphthalene	3.1	J B	9.6	1.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Perylene	ND		4.3	4.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Phenanthrene	ND		7.1	3.6	ng/L		10/25/11 16:35	11/10/11 17:10	1
Pyrene	2.8	J	4.7	1.1	ng/L		10/25/11 16:35	11/10/11 17:10	1
Quinoline	ND		10	6.3	ng/L		10/25/11 16:35	11/10/11 17:10	1
Biphenyl	ND		6.3	1.2	ng/L		10/25/11 16:35	11/10/11 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*77*		*23 - 84*	*10/25/11 16:35*	*11/10/11 17:10*	*1*
Chrysene-d12 (Surr)	*36*		*28 - 101*	*10/25/11 16:35*	*11/10/11 17:10*	*1*
Naphthalene-d8 (Surr)	*82*		*22 - 97*	*10/25/11 16:35*	*11/10/11 17:10*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10TFB-102011
Date Collected: 10/20/11 14:00
Date Received: 10/21/11 09:30

Lab Sample ID: 280-21871-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.8	0.72	ng/L		10/25/11 16:35	11/10/11 17:47	1
2,3-Dihydroindene	3.6	J	5.3	0.75	ng/L		10/25/11 16:35	11/10/11 17:47	1
1-Methylnaphthalene	ND		6.0	0.95	ng/L		10/25/11 16:35	11/10/11 17:47	1
2-Methylnaphthalene	ND		6.3	1.0	ng/L		10/25/11 16:35	11/10/11 17:47	1
Acenaphthene	ND		6.1	0.53	ng/L		10/25/11 16:35	11/10/11 17:47	1
Acenaphthylene	ND		5.1	0.82	ng/L		10/25/11 16:35	11/10/11 17:47	1
Acridine	ND	*	6.9	6.9	ng/L		10/25/11 16:35	11/10/11 17:47	1
Anthracene	ND		4.5	0.85	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[a]anthracene	ND		4.6	0.98	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[a]pyrene	ND		2.7	1.3	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[e]pyrene	ND		4.6	1.2	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[b]fluoranthene	ND		5.0	1.5	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo(b)thiophene	7.0	B	5.5	0.80	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[k]fluoranthene	ND		4.4	1.3	ng/L		10/25/11 16:35	11/10/11 17:47	1
Benzo[g,h,i]perylene	ND		6.6	1.2	ng/L		10/25/11 16:35	11/10/11 17:47	1
Carbazole	ND		4.0	0.77	ng/L		10/25/11 16:35	11/10/11 17:47	1
Chrysene	ND		6.0	1.3	ng/L		10/25/11 16:35	11/10/11 17:47	1
Dibenz(a,h)anthracene	ND		6.3	1.1	ng/L		10/25/11 16:35	11/10/11 17:47	1
Dibenzofuran	ND		6.1	1.1	ng/L		10/25/11 16:35	11/10/11 17:47	1
Dibenzothiophene	ND		4.4	1.0	ng/L		10/25/11 16:35	11/10/11 17:47	1
Fluoranthene	ND		4.9	1.8	ng/L		10/25/11 16:35	11/10/11 17:47	1
Fluorene	ND		4.4	0.91	ng/L		10/25/11 16:35	11/10/11 17:47	1
Indene	ND		5.0	3.5	ng/L		10/25/11 16:35	11/10/11 17:47	1
Indole	ND		5.0	1.8	ng/L		10/25/11 16:35	11/10/11 17:47	1
Indeno[1,2,3-cd]pyrene	ND		5.8	1.3	ng/L		10/25/11 16:35	11/10/11 17:47	1
Naphthalene	3.2	J B	9.2	1.2	ng/L		10/25/11 16:35	11/10/11 17:47	1
Perylene	ND		4.1	4.1	ng/L		10/25/11 16:35	11/10/11 17:47	1
Phenanthrene	ND		6.7	3.4	ng/L		10/25/11 16:35	11/10/11 17:47	1
Pyrene	ND		4.5	1.1	ng/L		10/25/11 16:35	11/10/11 17:47	1
Quinoline	ND		9.6	6.0	ng/L		10/25/11 16:35	11/10/11 17:47	1
Biphenyl	ND		6.0	1.1	ng/L		10/25/11 16:35	11/10/11 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*79*		*23 - 84*	*10/25/11 16:35*	*11/10/11 17:47*	*1*
Chrysene-d12 (Surr)	*84*		*28 - 101*	*10/25/11 16:35*	*11/10/11 17:47*	*1*
Naphthalene-d8 (Surr)	*84*		*22 - 97*	*10/25/11 16:35*	*11/10/11 17:47*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10TFBD-102011

Date Collected: 10/20/11 14:05
Date Received: 10/21/11 09:30

Lab Sample ID: 280-21871-4

Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		6.0	0.76	ng/L		10/25/11 16:35	11/10/11 18:24	1
2,3-Dihydroindene	1.6	J	5.6	0.78	ng/L		10/25/11 16:35	11/10/11 18:24	1
1-Methylnaphthalene	13	B	6.2	0.99	ng/L		10/25/11 16:35	11/10/11 18:24	1
2-Methylnaphthalene	14	B	6.6	1.1	ng/L		10/25/11 16:35	11/10/11 18:24	1
Acenaphthene	1.8	J B	6.3	0.56	ng/L		10/25/11 16:35	11/10/11 18:24	1
Acenaphthylene	1.7	J B	5.3	0.86	ng/L		10/25/11 16:35	11/10/11 18:24	1
Acridine	ND	*	7.2	7.2	ng/L		10/25/11 16:35	11/10/11 18:24	1
Anthracene	ND		4.7	0.89	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[a]anthracene	ND		4.8	1.0	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[a]pyrene	ND		2.8	1.4	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[e]pyrene	ND		4.8	1.3	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[b]fluoranthene	ND		5.2	1.5	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo(b)thiophene	ND		5.8	0.83	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[k]fluoranthene	ND		4.6	1.4	ng/L		10/25/11 16:35	11/10/11 18:24	1
Benzo[g,h,i]perylene	ND		6.9	1.3	ng/L		10/25/11 16:35	11/10/11 18:24	1
Carbazole	ND		4.2	0.80	ng/L		10/25/11 16:35	11/10/11 18:24	1
Chrysene	ND		6.2	1.4	ng/L		10/25/11 16:35	11/10/11 18:24	1
Dibenz(a,h)anthracene	ND		6.6	1.2	ng/L		10/25/11 16:35	11/10/11 18:24	1
Dibenzofuran	1.8	J B	6.3	1.1	ng/L		10/25/11 16:35	11/10/11 18:24	1
Dibenzothiophene	ND		4.6	1.1	ng/L		10/25/11 16:35	11/10/11 18:24	1
Fluoranthene	ND		5.1	1.9	ng/L		10/25/11 16:35	11/10/11 18:24	1
Fluorene	ND		4.6	0.94	ng/L		10/25/11 16:35	11/10/11 18:24	1
Indene	ND		5.2	3.6	ng/L		10/25/11 16:35	11/10/11 18:24	1
Indole	ND		5.2	1.9	ng/L		10/25/11 16:35	11/10/11 18:24	1
Indeno[1,2,3-cd]pyrene	ND		6.0	1.4	ng/L		10/25/11 16:35	11/10/11 18:24	1
Naphthalene	32	B	9.6	1.3	ng/L		10/25/11 16:35	11/10/11 18:24	1
Perylene	ND		4.2	4.2	ng/L		10/25/11 16:35	11/10/11 18:24	1
Phenanthrene	ND		7.0	3.6	ng/L		10/25/11 16:35	11/10/11 18:24	1
Pyrene	ND		4.7	1.1	ng/L		10/25/11 16:35	11/10/11 18:24	1
Quinoline	ND		10	6.3	ng/L		10/25/11 16:35	11/10/11 18:24	1
Biphenyl	ND		6.2	1.2	ng/L		10/25/11 16:35	11/10/11 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*78*		*23 - 84*	*10/25/11 16:35*	*11/10/11 18:24*	*1*
Chrysene-d12 (Surr)	*86*		*28 - 101*	*10/25/11 16:35*	*11/10/11 18:24*	*1*
Naphthalene-d8 (Surr)	*84*		*22 - 97*	*10/25/11 16:35*	*11/10/11 18:24*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FD10 (23-84)	sene-d12 (((28-101)	thalene-d8 ((22-97)
280-21871-1	SLP10T-102011	74	28	82
280-21871-1 MS	SLP10T-102011	74	22 X	80
280-21871-1 MSD	SLP10T-102011	73	30	78
280-21871-2	SLP10TDUP-102011	77	36	82
280-21871-3	SLP10TFB-102011	79	84	84
280-21871-4	SLP10TFBD-102011	78	86	84
LCS 280-92993/2-A	Lab Control Sample	71	83	81
MB 280-92993/1-A	Method Blank	71	52	78

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

QC Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-92993/1-A
Matrix: Water
Analysis Batch: 95981

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92993

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		10/25/11 16:35	11/11/11 14:29	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		10/25/11 16:35	11/11/11 14:29	1
1-Methylnaphthalene	18.7		5.6	0.89	ng/L		10/25/11 16:35	11/11/11 14:29	1
2-Methylnaphthalene	20.0		5.9	0.98	ng/L		10/25/11 16:35	11/11/11 14:29	1
Acenaphthene	5.89		5.7	0.50	ng/L		10/25/11 16:35	11/11/11 14:29	1
Acenaphthylene	4.21	J	4.8	0.77	ng/L		10/25/11 16:35	11/11/11 14:29	1
Acridine	ND		6.5	6.5	ng/L		10/25/11 16:35	11/11/11 14:29	1
Anthracene	ND		4.2	0.80	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo(b)thiophene	6.19		5.2	0.75	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		10/25/11 16:35	11/11/11 14:29	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		10/25/11 16:35	11/11/11 14:29	1
Carbazole	ND		3.8	0.72	ng/L		10/25/11 16:35	11/11/11 14:29	1
Chrysene	ND		5.6	1.2	ng/L		10/25/11 16:35	11/11/11 14:29	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		10/25/11 16:35	11/11/11 14:29	1
Dibenzofuran	7.17		5.7	0.99	ng/L		10/25/11 16:35	11/11/11 14:29	1
Dibenzothiophene	ND		4.1	0.98	ng/L		10/25/11 16:35	11/11/11 14:29	1
Fluoranthene	ND		4.6	1.7	ng/L		10/25/11 16:35	11/11/11 14:29	1
Fluorene	ND		4.1	0.85	ng/L		10/25/11 16:35	11/11/11 14:29	1
Indene	ND		4.7	3.3	ng/L		10/25/11 16:35	11/11/11 14:29	1
Indole	ND		4.7	1.7	ng/L		10/25/11 16:35	11/11/11 14:29	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		10/25/11 16:35	11/11/11 14:29	1
Naphthalene	13.2		8.6	1.1	ng/L		10/25/11 16:35	11/11/11 14:29	1
Perylene	ND		3.8	3.8	ng/L		10/25/11 16:35	11/11/11 14:29	1
Phenanthrene	ND		6.3	3.2	ng/L		10/25/11 16:35	11/11/11 14:29	1
Pyrene	ND		4.2	0.99	ng/L		10/25/11 16:35	11/11/11 14:29	1
Quinoline	ND		9.0	5.7	ng/L		10/25/11 16:35	11/11/11 14:29	1
Biphenyl	ND		5.6	1.1	ng/L		10/25/11 16:35	11/11/11 14:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*71*		*23 - 84*	*10/25/11 16:35*	*11/11/11 14:29*	*1*
Chrysene-d12 (Surr)	*52*		*28 - 101*	*10/25/11 16:35*	*11/11/11 14:29*	*1*
Naphthalene-d8 (Surr)	*78*		*22 - 97*	*10/25/11 16:35*	*11/11/11 14:29*	*1*

Lab Sample ID: LCS 280-92993/2-A
Matrix: Water
Analysis Batch: 95856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	75.0	60.8		ng/L		81	30 - 150
2,3-Dihydroindene	75.0	60.9		ng/L		81	30 - 150
1-Methylnaphthalene	75.0	60.7		ng/L		81	30 - 150
2-Methylnaphthalene	75.0	60.9		ng/L		81	25 - 95
3-Methylcholanthrene	75.0	40.9		ng/L		55	30 - 150
Acenaphthene	75.0	60.6		ng/L		81	30 - 150
Acenaphthylene	75.0	54.0		ng/L		72	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-92993/2-A
Matrix: Water
Analysis Batch: 95856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acridine	75.0	16.0	*	ng/L		21	30 - 150
Anthracene	75.0	53.6		ng/L		71	30 - 150
Benzo[a]anthracene	75.0	57.1		ng/L		76	30 - 150
Benzo[a]pyrene	75.0	59.6		ng/L		79	30 - 150
Benzo[e]pyrene	75.0	60.7		ng/L		81	37 - 105
Benzo[b]fluoranthene	75.0	58.9		ng/L		79	30 - 150
Benzo(b)thiophene	75.0	61.0		ng/L		81	30 - 150
Benzo[k]fluoranthene	75.0	61.0		ng/L		81	30 - 150
Benzo[g,h,i]perylene	75.0	56.5		ng/L		75	30 - 150
Carbazole	75.0	58.3		ng/L		78	30 - 150
Chrysene	75.0	64.2		ng/L		86	20 - 136
Dibenz(a,h)anthracene	75.0	53.4		ng/L		71	30 - 150
Dibenzofuran	75.0	61.7		ng/L		82	30 - 150
Dibenzothiophene	75.0	60.0		ng/L		80	30 - 150
Fluoranthene	75.0	64.5		ng/L		86	30 - 150
Fluorene	75.0	58.3		ng/L		78	34 - 96
Indene	75.0	59.2		ng/L		79	22 - 86
Indole	75.0	52.9		ng/L		70	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	56.3		ng/L		75	30 - 150
Naphthalene	75.0	65.2		ng/L		87	27 - 95
Perylene	75.0	56.8		ng/L		76	30 - 150
Phenanthrene	75.0	62.5		ng/L		83	30 - 150
Pyrene	75.0	64.1		ng/L		85	30 - 150
Quinoline	75.0	48.4		ng/L		65	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	21.9	*	ng/L		29	30 - 150
Biphenyl	75.0	59.1		ng/L		79	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*71*		*23 - 84*
Chrysene-d12 (Surr)	*83*		*28 - 101*
Naphthalene-d8 (Surr)	*81*		*22 - 97*

Lab Sample ID: 280-21871-1 MS
Matrix: Water
Analysis Batch: 95856

Client Sample ID: SLP10T-102011
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	0.92	J	81.2	62.0		ng/L		75	30 - 150
2,3-Dihydroindene	28		81.2	82.5		ng/L		67	30 - 150
1-Methylnaphthalene	4.9	J B	81.2	71.7		ng/L		82	30 - 150
2-Methylnaphthalene	3.3	J B	81.2	69.6		ng/L		82	25 - 95
3-Methylcholanthrene	ND		81.2	ND	F	ng/L		0	30 - 150
Acenaphthene	16	B	81.2	82.7		ng/L		82	30 - 150
Acenaphthylene	1.0	J B	81.2	67.6		ng/L		82	30 - 150
Acridine	ND	*	81.2	16.3	F	ng/L		20	30 - 150
Anthracene	ND		81.2	59.8		ng/L		74	30 - 150
Benzo[a]anthracene	ND		81.2	16.0	F	ng/L		20	30 - 150
Benzo[a]pyrene	ND		81.2	4.64	F	ng/L		6	30 - 150
Benzo[e]pyrene	ND		81.2	4.92	F	ng/L		6	37 - 105

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-21871-1 MS
Matrix: Water
Analysis Batch: 95856

Client Sample ID: SLP10T-102011
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	ND		81.2	6.38	F	ng/L		8	30 - 150
Benzo(b)thiophene	2.4	J B	81.2	66.3		ng/L		79	30 - 150
Benzo[k]fluoranthene	ND		81.2	5.06	F	ng/L		6	30 - 150
Benzo[g,h,i]perylene	ND		81.2	2.71	J F	ng/L		3	30 - 150
Carbazole	ND		81.2	65.7		ng/L		81	30 - 150
Chrysene	ND		81.2	17.9		ng/L		22	20 - 136
Dibenz(a,h)anthracene	ND		81.2	2.61	J F	ng/L		3	30 - 150
Dibenzofuran	ND		81.2	65.5		ng/L		81	30 - 150
Dibenzothiophene	ND		81.2	63.6		ng/L		78	30 - 150
Fluoranthene	ND		81.2	51.4		ng/L		63	30 - 150
Fluorene	1.6	J	81.2	64.5		ng/L		77	34 - 96
Indene	ND		81.2	62.6		ng/L		77	22 - 86
Indole	2.7	J	81.2	60.8		ng/L		71	30 - 150
Indeno[1,2,3-cd]pyrene	ND		81.2	2.84	J F	ng/L		3	30 - 150
Naphthalene	9.4	J B	81.2	73.2		ng/L		79	27 - 95
Perylene	ND		81.2	4.53	F	ng/L		6	30 - 150
Phenanthrene	ND		81.2	65.0		ng/L		80	30 - 150
Pyrene	ND		81.2	50.4		ng/L		62	30 - 150
Quinoline	ND		81.2	55.1		ng/L		68	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		81.2	33.6		ng/L		41	30 - 150
Biphenyl	ND		81.2	62.5		ng/L		77	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*74*		*23 - 84*
Chrysene-d12 (Surr)	*22*	*X*	*28 - 101*
Naphthalene-d8 (Surr)	*80*		*22 - 97*

Lab Sample ID: 280-21871-1 MSD
Matrix: Water
Analysis Batch: 95856

Client Sample ID: SLP10T-102011
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	0.92	J	77.3	59.2		ng/L		75	30 - 150	4	50
2,3-Dihydroindene	28		77.3	81.2		ng/L		69	30 - 150	2	50
1-Methylnaphthalene	4.9	J B	77.3	63.3		ng/L		76	30 - 150	12	50
2-Methylnaphthalene	3.3	J B	77.3	60.9		ng/L		74	25 - 95	13	50
3-Methylcholanthrene	ND		77.3	5.20	F	ng/L		7	30 - 150	NC	50
Acenaphthene	16	B	77.3	77.2		ng/L		79	30 - 150	7	50
Acenaphthylene	1.0	J B	77.3	62.2		ng/L		79	30 - 150	8	50
Acridine	ND	*	77.3	13.7	F	ng/L		18	30 - 150	17	50
Anthracene	ND		77.3	59.1		ng/L		76	30 - 150	1	50
Benzo[a]anthracene	ND		77.3	20.5	F	ng/L		26	30 - 150	25	50
Benzo[a]pyrene	ND		77.3	5.84	F	ng/L		8	30 - 150	23	50
Benzo[e]pyrene	ND		77.3	5.97	F	ng/L		8	37 - 105	19	50
Benzo[b]fluoranthene	ND		77.3	7.97	F	ng/L		10	30 - 150	22	50
Benzo(b)thiophene	2.4	J B	77.3	62.7		ng/L		78	30 - 150	6	50
Benzo[k]fluoranthene	ND		77.3	6.35	F	ng/L		8	30 - 150	23	50
Benzo[g,h,i]perylene	ND		77.3	3.55	J F	ng/L		5	30 - 150	27	50
Carbazole	ND		77.3	68.8		ng/L		89	30 - 150	5	50

QC Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-21871-1 MSD
Matrix: Water
Analysis Batch: 95856

Client Sample ID: SLP10T-102011
Prep Type: Total/NA
Prep Batch: 92993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	ND		77.3	22.8		ng/L		29	20 - 136	24	50
Dibenz(a,h)anthracene	ND		77.3	3.56	J F	ng/L		5	30 - 150	31	50
Dibenzofuran	ND		77.3	63.5		ng/L		82	30 - 150	3	50
Dibenzothiophene	ND		77.3	62.8		ng/L		81	30 - 150	1	50
Fluoranthene	ND		77.3	57.3		ng/L		74	30 - 150	11	50
Fluorene	1.6	J	77.3	62.6		ng/L		79	34 - 96	3	50
Indene	ND		77.3	60.0		ng/L		78	22 - 86	4	50
Indole	2.7	J	77.3	59.0		ng/L		73	30 - 150	3	50
Indeno[1,2,3-cd]pyrene	ND		77.3	3.83	J F	ng/L		5	30 - 150	30	50
Naphthalene	9.4	J B	77.3	65.8		ng/L		73	27 - 95	11	50
Perylene	ND		77.3	5.71	F	ng/L		7	30 - 150	23	50
Phenanthrene	ND		77.3	64.1		ng/L		83	30 - 150	1	50
Pyrene	ND		77.3	56.6		ng/L		73	30 - 150	12	50
Quinoline	ND		77.3	50.1		ng/L		65	20 - 112	10	50
7,12-Dimethylbenz(a)anthracene	ND		77.3	39.0		ng/L		50	30 - 150	16	50
Biphenyl	ND		77.3	59.9		ng/L		77	30 - 150	4	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*73*		*23 - 84*
Chrysene-d12 (Surr)	*30*		*28 - 101*
Naphthalene-d8 (Surr)	*78*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

GC/MS Semi VOA

Prep Batch: 92993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-21871-1	SLP10T-102011	Total/NA	Water	3520C	
280-21871-1 MS	SLP10T-102011	Total/NA	Water	3520C	
280-21871-1 MSD	SLP10T-102011	Total/NA	Water	3520C	
280-21871-2	SLP10TDUP-102011	Total/NA	Water	3520C	
280-21871-3	SLP10TFB-102011	Total/NA	Water	3520C	
280-21871-4	SLP10TFBD-102011	Total/NA	Water	3520C	
LCS 280-92993/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-92993/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 95856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-21871-1	SLP10T-102011	Total/NA	Water	8270C	92993
280-21871-1 MS	SLP10T-102011	Total/NA	Water	8270C	92993
280-21871-1 MSD	SLP10T-102011	Total/NA	Water	8270C	92993
280-21871-2	SLP10TDUP-102011	Total/NA	Water	8270C	92993
280-21871-3	SLP10TFB-102011	Total/NA	Water	8270C	92993
280-21871-4	SLP10TFBD-102011	Total/NA	Water	8270C	92993
LCS 280-92993/2-A	Lab Control Sample	Total/NA	Water	8270C	92993

Analysis Batch: 95981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-92993/1-A	Method Blank	Total/NA	Water	8270C	92993

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Client Sample ID: SLP10T-102011

Lab Sample ID: 280-21871-1
Date Collected: 10/20/11 13:40
Matrix: Water
Date Received: 10/21/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3595.4 mL	1000 uL	92993	10/25/11 16:35	DFB	TAL DEN
Total/NA	Analysis	8270C		1			95856	11/10/11 15:21	DPI	TAL DEN

Client Sample ID: SLP10TDUP-102011

Lab Sample ID: 280-21871-2
Date Collected: 10/20/11 13:45
Matrix: Water
Date Received: 10/21/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3566.3 mL	1000 uL	92993	10/25/11 16:35	DFB	TAL DEN
Total/NA	Analysis	8270C		1			95856	11/10/11 17:10	DPI	TAL DEN

Client Sample ID: SLP10TFB-102011

Lab Sample ID: 280-21871-3
Date Collected: 10/20/11 14:00
Matrix: Water
Date Received: 10/21/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3755 mL	1000 uL	92993	10/25/11 16:35	DFB	TAL DEN
Total/NA	Analysis	8270C		1			95856	11/10/11 17:47	DPI	TAL DEN

Client Sample ID: SLP10TFBD-102011

Lab Sample ID: 280-21871-4
Date Collected: 10/20/11 14:05
Matrix: Water
Date Received: 10/21/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3600.8 mL	1000 uL	92993	10/25/11 16:35	DFB	TAL DEN
Total/NA	Analysis	8270C		1			95856	11/10/11 18:24	DPI	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 4.2, 4.4, 3.2, 2.9, 3.8

Drinking Water? Yes ☐ No ☐

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TAL-4124-280 (0508)

Client: AECOM - City of St. Louis Park	Project Manager: Drew Tarara	Date: 10/20/11	Chain of Custody Number: 147849
Address: 7305 Oxford	Telephone Number (Area Code)/Fax Number: 651 367 2335	Lab Number	Page 1 of 1
City: St. Louis Park; State: MN; Zip Code: 55416	Site Contact: Scott Anderson	Lab Contact	
Project Name and Location (State): City of SLP - Reilly	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	PAH PPTS	Special Instructions/ Conditions of Receipt
SLP10T-102011	10/20/11	1340		X			6						X	Low level PAH (PPT)
SLP10TDup-102011	↓	1345		↓			↓						↓	*21-Day TAT*
SLP10TMS-102011		1350												
SLP10TMSD-102011		1355												
SLP10TFB-102011		1400												
SLP10TFBD-102011	↓	1405		↓			↓						↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: AJ	10/20/11	1530	1. Received By: [illegible]	10/21/11	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: * 21 DAY TAT *

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-21871-1

Login Number: 21871

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Detection Limit Exceptions Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-21871-1

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8270C	Water	2,3-Benzofuran	ng/L	5.4	20
8270C	Water	2,3-Dihydroindene	ng/L	5.0	20
8270C	Water	1-Methylnaphthalene	ng/L	5.6	20
8270C	Water	2-Methylnaphthalene	ng/L	5.9	20
8270C	Water	Acenaphthene	ng/L	5.7	20
8270C	Water	Acenaphthylene	ng/L	4.8	20
8270C	Water	Acridine	ng/L	6.5	20
8270C	Water	Anthracene	ng/L	4.2	20
8270C	Water	Benzo[a]anthracene	ng/L	4.3	20
8270C	Water	Benzo[a]pyrene	ng/L	2.5	20
8270C	Water	Benzo[e]pyrene	ng/L	4.3	20
8270C	Water	Benzo[b]fluoranthene	ng/L	4.7	20
8270C	Water	Benzo(b)thiophene	ng/L	5.2	20
8270C	Water	Benzo[k]fluoranthene	ng/L	4.1	20
8270C	Water	Benzo[g,h,i]perylene	ng/L	6.2	20
8270C	Water	Carbazole	ng/L	3.8	20
8270C	Water	Chrysene	ng/L	5.6	20
8270C	Water	Dibenz(a,h)anthracene	ng/L	5.9	20
8270C	Water	Dibenzofuran	ng/L	5.7	20
8270C	Water	Dibenzothiophene	ng/L	4.1	20
8270C	Water	Fluoranthene	ng/L	4.6	20
8270C	Water	Fluorene	ng/L	4.1	20
8270C	Water	Indene	ng/L	4.7	20
8270C	Water	Indole	ng/L	4.7	20
8270C	Water	Indeno[1,2,3-cd]pyrene	ng/L	5.4	20
8270C	Water	Naphthalene	ng/L	8.6	20
8270C	Water	Perylene	ng/L	3.8	20
8270C	Water	Phenanthrene	ng/L	6.3	20
8270C	Water	Pyrene	ng/L	4.2	20
8270C	Water	Quinoline	ng/L	9.0	20
8270C	Water	Biphenyl	ng/L	5.6	20

SLP10T (2)
Resample

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-22046-1
Client Project/Site: CSLP - Reilly Tar & Chemical

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Lisa B. Uriell

Authorized for release by:
11/14/2011 2:03:39 PM

Lisa Uriell
Project Manager I
lisa.uriell@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Job ID: 280-22046-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-22046-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Four samples were received under chain of custody on October 26, 2011. The samples were received at temperatures of 3.6°C, 3.9°C, 4.1°C, 4.5°C, 3.5°C and 2.7°C.

No anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Surrogate Chrysene-d12 was recovered below the QC control limits (28-101%) in sample SLP10TFBD-102511 (280-22046-4) at 0.5%. Upon re-aliquoting and reanalyzing, the surrogate recovery outlier was still present. Re-extraction was not possible due to insufficient remaining sample volume; therefore, the data is reported as is.

Low levels of 2,3-Dihydroindene, 1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene are present in the method blank associated with prep batch 280-93581. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B".

The LCS associated with prep batch 280-93581 exhibited percent recoveries below the QC control limits for Acridine at 4% (limits 30-150%), 3-Methylcholanthrene at 29% (limits 30-150%) and 7,12-Dimethylbenz(a)anthracene at 25% (limits 30-150%). 3-Methylcholanthrene and 7,12-Dimethylbenz(a)anthracene are not compounds of interest for this project. The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

The MS/MSD associated with prep batch 280-93581 was performed using sample SLP10T-102511 (280-22046-1), as requested. MS/MSD exhibited 9 of the 33 Matrix Spike compound recoveries outside the control limits. MS/MSD exhibited 10 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited 2 of the 33 Relative Percent Difference (RPD) data outside the control limits. The MS/MSD exhibited percent recoveries and/or RPD data outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylnaphthalene	Acridine	Benzo[a]pyrene
Benzo[e]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene

Job ID: 280-22046-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Benzo[ghi]perylene Dibenzo(a,h)pyrene Indeno[1,2,3-cd]pyrene
Perylene

No other anomalies were noted.

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-22046-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	31	31
MB Surrogates	3	3
LCS	7	7
LCS Surrogates	3	3
FB/FBD	62	51
MS	7	6
MS Surrogates	3	3
MSD	7	6
MSD Surrogates	3	3
MS/MSD RPD	7	7
Sample/Dup. RPD	31	28
Sample Surrogates	12	11
Samples and QC Internal Standard Area	24	24
TOTAL	**200**	**183**
% Completeness	**91.5%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD					
JOB 280-22046-1					
Sample: SLP10T-102511		**DUP: SLP10TDUP-102511**			
Compound	**Result**	**Compound**	**Result**	**RPD**	**RPD>50%**
Acenaphthene	24	Acenaphthene	21	13.3	
Acenaphthylene	2.4	Acenaphthylene	1.5	46.2	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	ND	0.0	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	ND	2,3-Benzofuran	1.2	NC	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	3.9	Benzo(b)thiophene	3.6	8.0	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	ND	Carbazole	ND	0.0	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	1.8	Dibenzofuran	1.1	48.3	
Dibenzothiophene	ND	Dibenzothiophene	ND	0.0	
2,3-Dihydroindene	34	2,3-Dihydroindene	34	0.0	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	3.1	Fluorene	2.3	29.6	
Indene	3.7	Indene	3.5	5.6	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	ND	Indole	ND	0.0	
2-Methylnaphthalene	9.3	2-Methylnaphthalene	2.2	123.5	p
1-Methylnaphthalene	13	1-Methylnaphthalene	5.5	81.1	p
Naphthalene	24	Naphthalene	6.3	116.8	p
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	ND	Pyrene	ND	0.0	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Definitions/Glossary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

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Client Sample ID: SLP10T-102511 — Lab Sample ID: 280-22046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	34	B	4.8	0.67	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	13	B	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	9.3	B	5.6	0.93	ng/L	1		8270C	Total/NA
Acenaphthene	24		5.4	0.48	ng/L	1		8270C	Total/NA
Acenaphthylene	2.4	J	4.6	0.73	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	3.9	J	4.9	0.71	ng/L	1		8270C	Total/NA
Dibenzofuran	1.8	J	5.4	0.94	ng/L	1		8270C	Total/NA
Fluorene	3.1	J	3.9	0.81	ng/L	1		8270C	Total/NA
Indene	3.7	J	4.5	3.1	ng/L	1		8270C	Total/NA
Naphthalene	24	B	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TDUP-102511 — Lab Sample ID: 280-22046-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	1.2	J	5.2	0.65	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	34	B	4.8	0.67	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	5.5	B	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	2.2	J B	5.6	0.94	ng/L	1		8270C	Total/NA
Acenaphthene	21		5.4	0.48	ng/L	1		8270C	Total/NA
Acenaphthylene	1.5	J	4.6	0.74	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	3.6	J	5.0	0.72	ng/L	1		8270C	Total/NA
Dibenzofuran	1.1	J	5.4	0.95	ng/L	1		8270C	Total/NA
Fluorene	2.3	J	3.9	0.81	ng/L	1		8270C	Total/NA
Indene	3.5	J	4.5	3.1	ng/L	1		8270C	Total/NA
Naphthalene	6.3	J B	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFB-102511 — Lab Sample ID: 280-22046-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Benzofuran	1.0	J	5.1	0.65	ng/L	1		8270C	Total/NA
2,3-Dihydroindene	3.8	J B	4.7	0.66	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	5.2	J B	5.3	0.84	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	6.5	B	5.6	0.93	ng/L	1		8270C	Total/NA
Acenaphthene	1.1	J	5.4	0.47	ng/L	1		8270C	Total/NA
Acenaphthylene	1.0	J	4.6	0.73	ng/L	1		8270C	Total/NA
Anthracene	1.1	J	4.0	0.76	ng/L	1		8270C	Total/NA
Benzo[a]anthracene	3.2	J	4.1	0.87	ng/L	1		8270C	Total/NA
Benzo[a]pyrene	2.7		2.4	1.2	ng/L	1		8270C	Total/NA
Benzo[b]fluoranthene	2.2	J	4.5	1.3	ng/L	1		8270C	Total/NA
Benzo[k]fluoranthene	4.7		3.9	1.2	ng/L	1		8270C	Total/NA
Benzo[g,h,i]perylene	4.2	J	5.9	1.1	ng/L	1		8270C	Total/NA
Chrysene	5.6		5.3	1.2	ng/L	1		8270C	Total/NA
Dibenz(a,h)anthracene	5.3	J	5.6	0.99	ng/L	1		8270C	Total/NA
Dibenzofuran	1.5	J	5.4	0.94	ng/L	1		8270C	Total/NA
Fluorene	1.3	J	3.9	0.81	ng/L	1		8270C	Total/NA
Indeno[1,2,3-cd]pyrene	3.1	J	5.1	1.2	ng/L	1		8270C	Total/NA
Naphthalene	11	B	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFBD-102511 — Lab Sample ID: 280-22046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	1.1	J B	4.8	0.67	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	65	B	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	66	B	5.6	0.93	ng/L	1		8270C	Total/NA

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10TFBD-102511 (Continued)

Lab Sample ID: 280-22046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	19		5.4	0.48	ng/L	1		8270C	Total/NA
Acenaphthylene	9.6		4.6	0.73	ng/L	1		8270C	Total/NA
Dibenzofuran	17		5.4	0.94	ng/L	1		8270C	Total/NA
Naphthalene	41	B	8.2	1.1	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-22046-1	SLP10T-102511	Water	10/25/11 12:00	10/26/11 09:00
280-22046-2	SLP10TDUP-102511	Water	10/25/11 12:05	10/26/11 09:00
280-22046-3	SLP10TFB-102511	Water	10/25/11 12:20	10/26/11 09:00
280-22046-4	SLP10TFBD-102511	Water	10/25/11 12:25	10/26/11 09:00

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10T-102511
Date Collected: 10/25/11 12:00
Date Received: 10/26/11 09:00

Lab Sample ID: 280-22046-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.65	ng/L		10/28/11 10:05	11/10/11 19:00	1
2,3-Dihydroindene	34	B	4.8	0.67	ng/L		10/28/11 10:05	11/10/11 19:00	1
1-Methylnaphthalene	13	B	5.3	0.85	ng/L		10/28/11 10:05	11/10/11 19:00	1
2-Methylnaphthalene	9.3	B	5.6	0.93	ng/L		10/28/11 10:05	11/10/11 19:00	1
Acenaphthene	24		5.4	0.48	ng/L		10/28/11 10:05	11/10/11 19:00	1
Acenaphthylene	2.4	J	4.6	0.73	ng/L		10/28/11 10:05	11/10/11 19:00	1
Acridine	ND	*	6.2	6.2	ng/L		10/28/11 10:05	11/10/11 19:00	1
Anthracene	ND		4.0	0.76	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo(b)thiophene	3.9	J	4.9	0.71	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		10/28/11 10:05	11/10/11 19:00	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		10/28/11 10:05	11/10/11 19:00	1
Carbazole	ND		3.6	0.69	ng/L		10/28/11 10:05	11/10/11 19:00	1
Chrysene	ND		5.3	1.2	ng/L		10/28/11 10:05	11/10/11 19:00	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		10/28/11 10:05	11/10/11 19:00	1
Dibenzofuran	1.8	J	5.4	0.94	ng/L		10/28/11 10:05	11/10/11 19:00	1
Dibenzothiophene	ND		3.9	0.93	ng/L		10/28/11 10:05	11/10/11 19:00	1
Fluoranthene	ND		4.4	1.6	ng/L		10/28/11 10:05	11/10/11 19:00	1
Fluorene	3.1	J	3.9	0.81	ng/L		10/28/11 10:05	11/10/11 19:00	1
Indene	3.7	J	4.5	3.1	ng/L		10/28/11 10:05	11/10/11 19:00	1
Indole	ND		4.5	1.6	ng/L		10/28/11 10:05	11/10/11 19:00	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		10/28/11 10:05	11/10/11 19:00	1
Naphthalene	24	B	8.2	1.1	ng/L		10/28/11 10:05	11/10/11 19:00	1
Perylene	ND		3.6	3.6	ng/L		10/28/11 10:05	11/10/11 19:00	1
Phenanthrene	ND		6.0	3.1	ng/L		10/28/11 10:05	11/10/11 19:00	1
Pyrene	ND		4.0	0.94	ng/L		10/28/11 10:05	11/10/11 19:00	1
Quinoline	ND		8.6	5.4	ng/L		10/28/11 10:05	11/10/11 19:00	1
Biphenyl	ND		5.3	1.0	ng/L		10/28/11 10:05	11/10/11 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*76*		*23 - 84*	*10/28/11 10:05*	*11/10/11 19:00*	*1*
Chrysene-d12 (Surr)	*38*		*28 - 101*	*10/28/11 10:05*	*11/10/11 19:00*	*1*
Naphthalene-d8 (Surr)	*82*		*22 - 97*	*10/28/11 10:05*	*11/10/11 19:00*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10TDUP-102511

Date Collected: 10/25/11 12:05
Date Received: 10/26/11 09:00

Lab Sample ID: 280-22046-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	**1.2**	**J**	5.2	0.65	ng/L		10/28/11 10:05	11/11/11 16:19	1
2,3-Dihydroindene	**34**	**B**	4.8	0.67	ng/L		10/28/11 10:05	11/11/11 16:19	1
1-Methylnaphthalene	**5.5**	**B**	5.3	0.85	ng/L		10/28/11 10:05	11/11/11 16:19	1
2-Methylnaphthalene	**2.2**	**J B**	5.6	0.94	ng/L		10/28/11 10:05	11/11/11 16:19	1
Acenaphthene	**21**		5.4	0.48	ng/L		10/28/11 10:05	11/11/11 16:19	1
Acenaphthylene	**1.5**	**J**	4.6	0.74	ng/L		10/28/11 10:05	11/11/11 16:19	1
Acridine	ND	*	6.2	6.2	ng/L		10/28/11 10:05	11/11/11 16:19	1
Anthracene	ND		4.0	0.76	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo(b)thiophene	**3.6**	**J**	5.0	0.72	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		10/28/11 10:05	11/11/11 16:19	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		10/28/11 10:05	11/11/11 16:19	1
Carbazole	ND		3.6	0.69	ng/L		10/28/11 10:05	11/11/11 16:19	1
Chrysene	ND		5.3	1.2	ng/L		10/28/11 10:05	11/11/11 16:19	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		10/28/11 10:05	11/11/11 16:19	1
Dibenzofuran	**1.1**	**J**	5.4	0.95	ng/L		10/28/11 10:05	11/11/11 16:19	1
Dibenzothiophene	ND		3.9	0.94	ng/L		10/28/11 10:05	11/11/11 16:19	1
Fluoranthene	ND		4.4	1.6	ng/L		10/28/11 10:05	11/11/11 16:19	1
Fluorene	**2.3**	**J**	3.9	0.81	ng/L		10/28/11 10:05	11/11/11 16:19	1
Indene	**3.5**	**J**	4.5	3.1	ng/L		10/28/11 10:05	11/11/11 16:19	1
Indole	ND		4.5	1.7	ng/L		10/28/11 10:05	11/11/11 16:19	1
Indeno[1,2,3-cd]pyrene	ND		5.2	1.2	ng/L		10/28/11 10:05	11/11/11 16:19	1
Naphthalene	**6.3**	**J B**	8.2	1.1	ng/L		10/28/11 10:05	11/11/11 16:19	1
Perylene	ND		3.6	3.6	ng/L		10/28/11 10:05	11/11/11 16:19	1
Phenanthrene	ND		6.0	3.1	ng/L		10/28/11 10:05	11/11/11 16:19	1
Pyrene	ND		4.0	0.95	ng/L		10/28/11 10:05	11/11/11 16:19	1
Quinoline	ND		8.6	5.4	ng/L		10/28/11 10:05	11/11/11 16:19	1
Biphenyl	ND		5.3	1.0	ng/L		10/28/11 10:05	11/11/11 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*59*		*23 - 84*	*10/28/11 10:05*	*11/11/11 16:19*	*1*
Chrysene-d12 (Surr)	*30*		*28 - 101*	*10/28/11 10:05*	*11/11/11 16:19*	*1*
Naphthalene-d8 (Surr)	*77*		*22 - 97*	*10/28/11 10:05*	*11/11/11 16:19*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10TFB-102511
Date Collected: 10/25/11 12:20
Date Received: 10/26/11 09:00

Lab Sample ID: 280-22046-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	1.0	J	5.1	0.65	ng/L		10/28/11 10:05	11/12/11 09:02	1
2,3-Dihydroindene	3.8	J B	4.7	0.66	ng/L		10/28/11 10:05	11/12/11 09:02	1
1-Methylnaphthalene	5.2	J B	5.3	0.84	ng/L		10/28/11 10:05	11/12/11 09:02	1
2-Methylnaphthalene	6.5	B	5.6	0.93	ng/L		10/28/11 10:05	11/12/11 09:02	1
Acenaphthene	1.1	J	5.4	0.47	ng/L		10/28/11 10:05	11/12/11 09:02	1
Acenaphthylene	1.0	J	4.6	0.73	ng/L		10/28/11 10:05	11/12/11 09:02	1
Acridine	ND	*	6.2	6.2	ng/L		10/28/11 10:05	11/12/11 09:02	1
Anthracene	1.1	J	4.0	0.76	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[a]anthracene	3.2	J	4.1	0.87	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[a]pyrene	2.7		2.4	1.2	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[b]fluoranthene	2.2	J	4.5	1.3	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo(b)thiophene	ND		4.9	0.71	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[k]fluoranthene	4.7		3.9	1.2	ng/L		10/28/11 10:05	11/12/11 09:02	1
Benzo[g,h,i]perylene	4.2	J	5.9	1.1	ng/L		10/28/11 10:05	11/12/11 09:02	1
Carbazole	ND		3.6	0.68	ng/L		10/28/11 10:05	11/12/11 09:02	1
Chrysene	5.6		5.3	1.2	ng/L		10/28/11 10:05	11/12/11 09:02	1
Dibenz(a,h)anthracene	5.3	J	5.6	0.99	ng/L		10/28/11 10:05	11/12/11 09:02	1
Dibenzofuran	1.5	J	5.4	0.94	ng/L		10/28/11 10:05	11/12/11 09:02	1
Dibenzothiophene	ND		3.9	0.93	ng/L		10/28/11 10:05	11/12/11 09:02	1
Fluoranthene	ND		4.4	1.6	ng/L		10/28/11 10:05	11/12/11 09:02	1
Fluorene	1.3	J	3.9	0.81	ng/L		10/28/11 10:05	11/12/11 09:02	1
Indene	ND		4.5	3.1	ng/L		10/28/11 10:05	11/12/11 09:02	1
Indole	ND		4.5	1.6	ng/L		10/28/11 10:05	11/12/11 09:02	1
Indeno[1,2,3-cd]pyrene	3.1	J	5.1	1.2	ng/L		10/28/11 10:05	11/12/11 09:02	1
Naphthalene	11	B	8.2	1.1	ng/L		10/28/11 10:05	11/12/11 09:02	1
Perylene	ND		3.6	3.6	ng/L		10/28/11 10:05	11/12/11 09:02	1
Phenanthrene	ND		6.0	3.0	ng/L		10/28/11 10:05	11/12/11 09:02	1
Pyrene	ND		4.0	0.94	ng/L		10/28/11 10:05	11/12/11 09:02	1
Quinoline	ND		8.5	5.4	ng/L		10/28/11 10:05	11/12/11 09:02	1
Biphenyl	ND		5.3	1.0	ng/L		10/28/11 10:05	11/12/11 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*61*		*23 - 84*	*10/28/11 10:05*	*11/12/11 09:02*	*1*
Chrysene-d12 (Surr)	*71*		*28 - 101*	*10/28/11 10:05*	*11/12/11 09:02*	*1*
Naphthalene-d8 (Surr)	*85*		*22 - 97*	*10/28/11 10:05*	*11/12/11 09:02*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10TFBD-102511
Date Collected: 10/25/11 12:25
Date Received: 10/26/11 09:00

Lab Sample ID: 280-22046-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.65	ng/L		10/28/11 10:05	11/11/11 17:33	1
2,3-Dihydroindene	**1.1**	**J B**	4.8	0.67	ng/L		10/28/11 10:05	11/11/11 17:33	1
1-Methylnaphthalene	**65**	**B**	5.3	0.85	ng/L		10/28/11 10:05	11/11/11 17:33	1
2-Methylnaphthalene	**66**	**B**	5.6	0.93	ng/L		10/28/11 10:05	11/11/11 17:33	1
Acenaphthene	**19**		5.4	0.48	ng/L		10/28/11 10:05	11/11/11 17:33	1
Acenaphthylene	**9.6**		4.6	0.73	ng/L		10/28/11 10:05	11/11/11 17:33	1
Acridine	ND	*	6.2	6.2	ng/L		10/28/11 10:05	11/11/11 17:33	1
Anthracene	ND		4.0	0.76	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo(b)thiophene	ND		5.0	0.71	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		10/28/11 10:05	11/11/11 17:33	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		10/28/11 10:05	11/11/11 17:33	1
Carbazole	ND		3.6	0.69	ng/L		10/28/11 10:05	11/11/11 17:33	1
Chrysene	ND		5.3	1.2	ng/L		10/28/11 10:05	11/11/11 17:33	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		10/28/11 10:05	11/11/11 17:33	1
Dibenzofuran	**17**		5.4	0.94	ng/L		10/28/11 10:05	11/11/11 17:33	1
Dibenzothiophene	ND		3.9	0.93	ng/L		10/28/11 10:05	11/11/11 17:33	1
Fluoranthene	ND		4.4	1.6	ng/L		10/28/11 10:05	11/11/11 17:33	1
Fluorene	ND		3.9	0.81	ng/L		10/28/11 10:05	11/11/11 17:33	1
Indene	ND		4.5	3.1	ng/L		10/28/11 10:05	11/11/11 17:33	1
Indole	ND		4.5	1.6	ng/L		10/28/11 10:05	11/11/11 17:33	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		10/28/11 10:05	11/11/11 17:33	1
Naphthalene	**41**	**B**	8.2	1.1	ng/L		10/28/11 10:05	11/11/11 17:33	1
Perylene	ND		3.6	3.6	ng/L		10/28/11 10:05	11/11/11 17:33	1
Phenanthrene	ND		6.0	3.1	ng/L		10/28/11 10:05	11/11/11 17:33	1
Pyrene	ND		4.0	0.94	ng/L		10/28/11 10:05	11/11/11 17:33	1
Quinoline	ND		8.6	5.4	ng/L		10/28/11 10:05	11/11/11 17:33	1
Biphenyl	ND		5.3	1.0	ng/L		10/28/11 10:05	11/11/11 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*46*		*23 - 84*	*10/28/11 10:05*	*11/11/11 17:33*	*1*
Chrysene-d12 (Surr)	*0.5*	*X*	*28 - 101*	*10/28/11 10:05*	*11/11/11 17:33*	*1*
Naphthalene-d8 (Surr)	*51*		*22 - 97*	*10/28/11 10:05*	*11/11/11 17:33*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FD10	sene-d12 (S	lhalene-d8
Lab Sample ID	**Client Sample ID**	(23-84)	(28-101)	(22-97)
280-22046-1	SLP10T-102511	76	38	82
280-22046-1 MS	SLP10T-102511	72	40	86
280-22046-1 MSD	SLP10T-102511	76	41	89
280-22046-2	SLP10TDUP-102511	59	30	77
280-22046-3	SLP10TFB-102511	61	71	85
280-22046-4	SLP10TFBD-102511	46	0.5 X	51
LCS 280-93581/2-A	Lab Control Sample	71	83	83
MB 280-93581/1-A	Method Blank	80	82	88

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

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QC Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-93581/1-A
Matrix: Water
Analysis Batch: 95856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93581

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		10/28/11 10:05	11/10/11 14:08	1
2,3-Dihydroindene	3.81	J	5.0	0.70	ng/L		10/28/11 10:05	11/10/11 14:08	1
1-Methylnaphthalene	0.938	J	5.6	0.89	ng/L		10/28/11 10:05	11/10/11 14:08	1
2-Methylnaphthalene	1.72	J	5.9	0.98	ng/L		10/28/11 10:05	11/10/11 14:08	1
Acenaphthene	ND		5.7	0.50	ng/L		10/28/11 10:05	11/10/11 14:08	1
Acenaphthylene	ND		4.8	0.77	ng/L		10/28/11 10:05	11/10/11 14:08	1
Acridine	ND		6.5	6.5	ng/L		10/28/11 10:05	11/10/11 14:08	1
Anthracene	ND		4.2	0.80	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		10/28/11 10:05	11/10/11 14:08	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		10/28/11 10:05	11/10/11 14:08	1
Carbazole	ND		3.8	0.72	ng/L		10/28/11 10:05	11/10/11 14:08	1
Chrysene	ND		5.6	1.2	ng/L		10/28/11 10:05	11/10/11 14:08	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		10/28/11 10:05	11/10/11 14:08	1
Dibenzofuran	ND		5.7	0.99	ng/L		10/28/11 10:05	11/10/11 14:08	1
Dibenzothiophene	ND		4.1	0.98	ng/L		10/28/11 10:05	11/10/11 14:08	1
Fluoranthene	ND		4.6	1.7	ng/L		10/28/11 10:05	11/10/11 14:08	1
Fluorene	ND		4.1	0.85	ng/L		10/28/11 10:05	11/10/11 14:08	1
Indene	ND		4.7	3.3	ng/L		10/28/11 10:05	11/10/11 14:08	1
Indole	ND		4.7	1.7	ng/L		10/28/11 10:05	11/10/11 14:08	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		10/28/11 10:05	11/10/11 14:08	1
Naphthalene	5.35	J	8.6	1.1	ng/L		10/28/11 10:05	11/10/11 14:08	1
Perylene	ND		3.8	3.8	ng/L		10/28/11 10:05	11/10/11 14:08	1
Phenanthrene	ND		6.3	3.2	ng/L		10/28/11 10:05	11/10/11 14:08	1
Pyrene	ND		4.2	0.99	ng/L		10/28/11 10:05	11/10/11 14:08	1
Quinoline	ND		9.0	5.7	ng/L		10/28/11 10:05	11/10/11 14:08	1
Biphenyl	ND		5.6	1.1	ng/L		10/28/11 10:05	11/10/11 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*80*		*23 - 84*	*10/28/11 10:05*	*11/10/11 14:08*	*1*
Chrysene-d12 (Surr)	*82*		*28 - 101*	*10/28/11 10:05*	*11/10/11 14:08*	*1*
Naphthalene-d8 (Surr)	*88*		*22 - 97*	*10/28/11 10:05*	*11/10/11 14:08*	*1*

Lab Sample ID: LCS 280-93581/2-A
Matrix: Water
Analysis Batch: 95856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93581

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	75.0	63.3		ng/L		84	30 - 150
2,3-Dihydroindene	75.0	61.3		ng/L		82	30 - 150
1-Methylnaphthalene	75.0	65.1		ng/L		87	30 - 150
2-Methylnaphthalene	75.0	65.5		ng/L		87	25 - 95
3-Methylcholanthrene	75.0	21.9	*	ng/L		29	30 - 150
Acenaphthene	75.0	65.9		ng/L		88	30 - 150
Acenaphthylene	75.0	60.8		ng/L		81	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-93581/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95856 — **Prep Batch: 93581**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acridine	75.0	ND	*	ng/L		4	30 - 150
Anthracene	75.0	56.3		ng/L		75	30 - 150
Benzo[a]anthracene	75.0	59.1		ng/L		79	30 - 150
Benzo[a]pyrene	75.0	57.6		ng/L		77	30 - 150
Benzo[e]pyrene	75.0	62.1		ng/L		83	37 - 105
Benzo[b]fluoranthene	75.0	59.3		ng/L		79	30 - 150
Benzo(b)thiophene	75.0	64.0		ng/L		85	30 - 150
Benzo[k]fluoranthene	75.0	63.5		ng/L		85	30 - 150
Benzo[g,h,i]perylene	75.0	59.4		ng/L		79	30 - 150
Carbazole	75.0	62.3		ng/L		83	30 - 150
Chrysene	75.0	67.0		ng/L		89	20 - 136
Dibenz(a,h)anthracene	75.0	60.5		ng/L		81	30 - 150
Dibenzofuran	75.0	62.7		ng/L		84	30 - 150
Dibenzothiophene	75.0	63.3		ng/L		84	30 - 150
Fluoranthene	75.0	67.5		ng/L		90	30 - 150
Fluorene	75.0	63.3		ng/L		84	34 - 96
Indene	75.0	61.6		ng/L		82	22 - 86
Indole	75.0	58.7		ng/L		78	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	57.7		ng/L		77	30 - 150
Naphthalene	75.0	71.0		ng/L		95	27 - 95
Perylene	75.0	58.6		ng/L		78	30 - 150
Phenanthrene	75.0	66.0		ng/L		88	30 - 150
Pyrene	75.0	67.1		ng/L		89	30 - 150
Quinoline	75.0	23.6		ng/L		31	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	18.7	*	ng/L		25	30 - 150
Biphenyl	75.0	62.9		ng/L		84	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*71*		*23 - 84*
Chrysene-d12 (Surr)	*83*		*28 - 101*
Naphthalene-d8 (Surr)	*83*		*22 - 97*

Lab Sample ID: 280-22046-1 MS — **Client Sample ID: SLP10T-102511**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95981 — **Prep Batch: 93581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	ND		71.5	62.6		ng/L		87	30 - 150
2,3-Dihydroindene	34	B	71.5	93.6		ng/L		83	30 - 150
1-Methylnaphthalene	13	B	71.5	66.2		ng/L		74	30 - 150
2-Methylnaphthalene	9.3	B	71.5	61.8		ng/L		73	25 - 95
3-Methylcholanthrene	ND		71.5	4.92	F	ng/L		7	30 - 150
Acenaphthene	24		71.5	84.2		ng/L		84	30 - 150
Acenaphthylene	2.4	J	71.5	59.4		ng/L		80	30 - 150
Acridine	ND	*	71.5	39.3		ng/L		55	30 - 150
Anthracene	ND		71.5	55.8		ng/L		78	30 - 150
Benzo[a]anthracene	ND		71.5	26.9		ng/L		38	30 - 150
Benzo[a]pyrene	ND		71.5	6.82	F	ng/L		10	30 - 150
Benzo[e]pyrene	ND		71.5	7.65	F	ng/L		11	37 - 105

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-22046-1 MS — **Client Sample ID: SLP10T-102511**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95981 — **Prep Batch: 93581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	ND		71.5	8.97	F	ng/L		13	30 - 150
Benzo(b)thiophene	3.9	J	71.5	66.8		ng/L		88	30 - 150
Benzo[k]fluoranthene	ND		71.5	7.94	F	ng/L		11	30 - 150
Benzo[g,h,i]perylene	ND		71.5	2.63	J F	ng/L		4	30 - 150
Carbazole	ND		71.5	65.3		ng/L		91	30 - 150
Chrysene	ND		71.5	30.5		ng/L		43	20 - 136
Dibenz(a,h)anthracene	ND		71.5	2.36	J F	ng/L		3	30 - 150
Dibenzofuran	1.8	J	71.5	64.2		ng/L		87	30 - 150
Dibenzothiophene	ND		71.5	61.7		ng/L		86	30 - 150
Fluoranthene	ND		71.5	60.4		ng/L		84	30 - 150
Fluorene	3.1	J	71.5	61.6		ng/L		82	34 - 96
Indene	3.7	J	71.5	63.4		ng/L		84	22 - 86
Indole	ND		71.5	58.2		ng/L		81	30 - 150
Indeno[1,2,3-cd]pyrene	ND		71.5	2.68	J F	ng/L		4	30 - 150
Naphthalene	24	B	71.5	67.7		ng/L		62	27 - 95
Perylene	ND		71.5	7.24	F	ng/L		10	30 - 150
Phenanthrene	ND		71.5	63.3		ng/L		88	30 - 150
Pyrene	ND		71.5	60.4		ng/L		84	30 - 150
Quinoline	ND		71.5	57.4		ng/L		80	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		71.5	40.9		ng/L		57	30 - 150
Biphenyl	ND		71.5	60.4		ng/L		84	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*72*		*23 - 84*
Chrysene-d12 (Surr)	*40*		*28 - 101*
Naphthalene-d8 (Surr)	*86*		*22 - 97*

Lab Sample ID: 280-22046-1 MSD — **Client Sample ID: SLP10T-102511**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95981 — **Prep Batch: 93581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	ND		71.2	64.1		ng/L		90	30 - 150	2	50
2,3-Dihydroindene	34	B	71.2	93.4		ng/L		83	30 - 150	0	50
1-Methylnaphthalene	13	B	71.2	70.0		ng/L		80	30 - 150	6	50
2-Methylnaphthalene	9.3	B	71.2	65.4		ng/L		79	25 - 95	6	50
3-Methylcholanthrene	ND		71.2	ND	F	ng/L		0	30 - 150	NC	50
Acenaphthene	24		71.2	87.4		ng/L		89	30 - 150	4	50
Acenaphthylene	2.4	J	71.2	61.6		ng/L		83	30 - 150	4	50
Acridine	ND	*	71.2	14.2	F	ng/L		20	30 - 150	94	50
Anthracene	ND		71.2	54.7		ng/L		77	30 - 150	2	50
Benzo[a]anthracene	ND		71.2	27.3		ng/L		38	30 - 150	2	50
Benzo[a]pyrene	ND		71.2	6.47	F	ng/L		9	30 - 150	5	50
Benzo[e]pyrene	ND		71.2	7.84	F	ng/L		11	37 - 105	2	50
Benzo[b]fluoranthene	ND		71.2	8.97	F	ng/L		13	30 - 150	0	50
Benzo(b)thiophene	3.9	J	71.2	69.5		ng/L		92	30 - 150	4	50
Benzo[k]fluoranthene	ND		71.2	8.64	F	ng/L		12	30 - 150	8	50
Benzo[g,h,i]perylene	ND		71.2	3.34	J F	ng/L		5	30 - 150	24	50
Carbazole	ND		71.2	68.0		ng/L		95	30 - 150	4	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-22046-1 MSD — **Client Sample ID: SLP10T-102511**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 95981 — **Prep Batch: 93581**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	ND		71.2	31.6		ng/L		44	20 - 136	3	50
Dibenz(a,h)anthracene	ND		71.2	3.22	J F	ng/L		5	30 - 150	31	50
Dibenzofuran	1.8	J	71.2	67.3		ng/L		92	30 - 150	5	50
Dibenzothiophene	ND		71.2	64.7		ng/L		91	30 - 150	5	50
Fluoranthene	ND		71.2	62.5		ng/L		88	30 - 150	3	50
Fluorene	3.1	J	71.2	65.3		ng/L		87	34 - 96	6	50
Indene	3.7	J	71.2	65.8	F	ng/L		87	22 - 86	4	50
Indole	ND		71.2	57.8		ng/L		81	30 - 150	1	50
Indeno[1,2,3-cd]pyrene	ND		71.2	3.44	J F	ng/L		5	30 - 150	25	50
Naphthalene	24	B	71.2	72.1		ng/L		68	27 - 95	6	50
Perylene	ND		71.2	7.16	F	ng/L		10	30 - 150	1	50
Phenanthrene	ND		71.2	66.9		ng/L		94	30 - 150	6	50
Pyrene	ND		71.2	62.3		ng/L		87	30 - 150	3	50
Quinoline	ND		71.2	43.2		ng/L		61	20 - 112	28	50
7,12-Dimethylbenz(a)anthracene	ND		71.2	33.5		ng/L		47	30 - 150	20	50
Biphenyl	ND		71.2	63.9		ng/L		90	30 - 150	6	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*76*		*23 - 84*
Chrysene-d12 (Surr)	*41*		*28 - 101*
Naphthalene-d8 (Surr)	*89*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

GC/MS Semi VOA

Prep Batch: 93581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22046-1	SLP10T-102511	Total/NA	Water	3520C	
280-22046-1 MS	SLP10T-102511	Total/NA	Water	3520C	
280-22046-1 MSD	SLP10T-102511	Total/NA	Water	3520C	
280-22046-2	SLP10TDUP-102511	Total/NA	Water	3520C	
280-22046-3	SLP10TFB-102511	Total/NA	Water	3520C	
280-22046-4	SLP10TFBD-102511	Total/NA	Water	3520C	
LCS 280-93581/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-93581/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 95856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22046-1	SLP10T-102511	Total/NA	Water	8270C	93581
LCS 280-93581/2-A	Lab Control Sample	Total/NA	Water	8270C	93581
MB 280-93581/1-A	Method Blank	Total/NA	Water	8270C	93581

Analysis Batch: 95981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22046-1 MS	SLP10T-102511	Total/NA	Water	8270C	93581
280-22046-1 MSD	SLP10T-102511	Total/NA	Water	8270C	93581
280-22046-2	SLP10TDUP-102511	Total/NA	Water	8270C	93581
280-22046-4	SLP10TFBD-102511	Total/NA	Water	8270C	93581

Analysis Batch: 96055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-22046-3	SLP10TFB-102511	Total/NA	Water	8270C	93581

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Client Sample ID: SLP10T-102511

Lab Sample ID: 280-22046-1
Matrix: Water

Date Collected: 10/25/11 12:00
Date Received: 10/26/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4203.6 mL	1000 uL	93581	10/28/11 10:05	JCV	TAL DEN
Total/NA	Analysis	8270C		1			95856	11/10/11 19:00	DPI	TAL DEN

Client Sample ID: SLP10TDUP-102511

Lab Sample ID: 280-22046-2
Matrix: Water

Date Collected: 10/25/11 12:05
Date Received: 10/26/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4187.1 mL	1000 uL	93581	10/28/11 10:05	JCV	TAL DEN
Total/NA	Analysis	8270C		1			95981	11/11/11 16:19	DPI	TAL DEN

Client Sample ID: SLP10TFB-102511

Lab Sample ID: 280-22046-3
Matrix: Water

Date Collected: 10/25/11 12:20
Date Received: 10/26/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4213.7 mL	1000 uL	93581	10/28/11 10:05	JCV	TAL DEN
Total/NA	Analysis	8270C		1			96055	11/12/11 09:02	DPI	TAL DEN

Client Sample ID: SLP10TFBD-102511

Lab Sample ID: 280-22046-4
Matrix: Water

Date Collected: 10/25/11 12:25
Date Received: 10/26/11 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4199.2 mL	1000 uL	93581	10/28/11 10:05	JCV	TAL DEN
Total/NA	Analysis	8270C		1			95981	11/11/11 17:33	DPI	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.6, 3.9, 4.1, 4.5, 3.9, 2.7 (A) 10/26

Drinking Water? Yes ☐ No ☐

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TAL-4124-280 (0508)

Client: AECOM - City of SLP	Project Manager: Drew Tavara	Date: 10/25/11	Chain of Custody Number: 141423
Address: 7305 Oxford St.	Telephone Number (Area Code)/Fax Number: 651 367 2335	Lab Number	Page 1 of 1
City: St. Louis Park; State: MN; Zip Code: 55416	Site Contact: Scott Anderson	Lab Contact	
Project Name and Location (State): SLP - Reilly	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): PAH PPTS	Special Instructions/ Conditions of Receipt
SLP10T-102511	10/25/11	1200		X				6							X	*21 Day TAT*
SLP10TDup-102511	↓	1205		↓				↓							↓	↓
SLP10TMS-102511	↓	1210		↓				↓							↓	↓
SLP10TMSD-102511	↓	1215		↓				↓							↓	↓
SLP10TFB-102511	↓	1220		↓				↓							↓	↓
SLP10TFBD-102511	↓	1225		↓				↓							↓	↓

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/25/11	1400	1. Received By: [signature]	10/26/11	0900
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-22046-1

Login Number: 22046

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Detection Limit Exceptions Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-22046-1

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to the lab MDL. It must be noted that results reported below lab standard quantitation limits (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8270C	Water	2,3-Benzofuran	ng/L	5.4	20
8270C	Water	2,3-Dihydroindene	ng/L	5.0	20
8270C	Water	1-Methylnaphthalene	ng/L	5.6	20
8270C	Water	2-Methylnaphthalene	ng/L	5.9	20
8270C	Water	Acenaphthene	ng/L	5.7	20
8270C	Water	Acenaphthylene	ng/L	4.8	20
8270C	Water	Acridine	ng/L	6.5	20
8270C	Water	Anthracene	ng/L	4.2	20
8270C	Water	Benzo[a]anthracene	ng/L	4.3	20
8270C	Water	Benzo[a]pyrene	ng/L	2.5	20
8270C	Water	Benzo[e]pyrene	ng/L	4.3	20
8270C	Water	Benzo[b]fluoranthene	ng/L	4.7	20
8270C	Water	Benzo(b)thiophene	ng/L	5.2	20
8270C	Water	Benzo[k]fluoranthene	ng/L	4.1	20
8270C	Water	Benzo[g,h,i]perylene	ng/L	6.2	20
8270C	Water	Carbazole	ng/L	3.8	20
8270C	Water	Chrysene	ng/L	5.6	20
8270C	Water	Dibenz(a,h)anthracene	ng/L	5.9	20
8270C	Water	Dibenzofuran	ng/L	5.7	20
8270C	Water	Dibenzothiophene	ng/L	4.1	20
8270C	Water	Fluoranthene	ng/L	4.6	20
8270C	Water	Fluorene	ng/L	4.1	20
8270C	Water	Indene	ng/L	4.7	20
8270C	Water	Indole	ng/L	4.7	20
8270C	Water	Indeno[1,2,3-cd]pyrene	ng/L	5.4	20
8270C	Water	Naphthalene	ng/L	8.6	20
8270C	Water	Perylene	ng/L	3.8	20
8270C	Water	Phenanthrene	ng/L	6.3	20
8270C	Water	Pyrene	ng/L	4.2	20
8270C	Water	Quinoline	ng/L	9.0	20
8270C	Water	Biphenyl	ng/L	5.6	20

FOURTH QUARTER

PAH ANALYSIS

2011 - 4th Qtr
SLP10T

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-23788-1
Client Project/Site: CSLP - Reilly Tar & Chemical

For:
City of Saint Louis Park
7305 Oxford Street
Saint Louis Park, Minnesota 55426

Attn: Scott Anderson

Lisa B. Uriell

Authorized for release by:
1/12/2012 3:10:12 PM

Lisa Uriell
Project Manager II
lisa.uriell@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Job ID: 280-23788-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE

Client: City of St. Louis Park

Project: Reilly Tar & Chemical

Report Number: 280-23788-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receiving
Five samples were received under chain of custody on December 14, 2011. The samples were received at temperatures of 4.1°C, 4.0°C, 5.7°C, 3.9°C and 4.6°C.

No anomalies were encountered during sample receipt.

GC/MS Semivolatiles, Method SW846 8270C SIM
All sample holding times were met.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to limited sample volume, sample SLP10TFBD-121311 (280-23788-5) had an initial aliquot volume of 3940 mL. This is below the nominal aliquot volume of 4000 mL. Therefore, the analysis of this sample had to be performed with elevated detection limits. The reporting limits have been adjusted relative to the initial volume available.

Surrogate Fluorene-d10 was recovered slightly above the QC control limits (23-84%) in sample SLP10T-121311 (280-23788-2) at 85%. This is an indicator that data may be biased high. As no detectable concentrations of analytes associated with this surrogate are present above the reporting limits in the sample, corrective action is deemed unnecessary.

Low levels of Naphthalene and Pyrene are present in the method blank associated with prep batch 280-100047. Because the concentrations in the method blank are not present at levels greater than one half the reporting limits, corrective action is deemed unnecessary. The associated positive results in the analytical report have been flagged with "B".

The LCS associated with prep batch 280-100047 exhibited percent recoveries above the QC control limits for 1-Methylnaphthalene at 265% (limits 30-150%), 2-Methylnaphthalene at 387% (limits 25-95%), Fluorene at 118% (limits 34-96%) and Naphthalene at 781% (limits 27-95%). This is an indicator that data may be biased high. As no detectable concentrations of these compounds are present above the reporting limits in the associated samples, corrective action is deemed unnecessary. Associated data in the analytical report have been flagged "*".

Additionally, the LCS associated with prep batch 280-100047 exhibited the percent recovery slightly above the QC control limits for Indene at 87% (limits 22-86%). The LCS was re-aliquoted and re-analyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume. Therefore, the data is reported as is. The associated results in the analytical report have been flagged with "*".

Job ID: 280-23788-1 (Continued)

Laboratory: TestAmerica Denver (Continued)

Furthermore, the LCS associated with prep batch 280-100047 exhibited the percent recovery below the QC control limits for 7,12-Dimethylbenz(a)anthracene at 14% (limits 30-150%). This analyte is not a compound of interest for this project; therefore, corrective action was deemed unnecessary. The LCS was reanalyzed with similar results. Re-extraction was not possible due to insufficient remaining sample volume.

The MS/MSD associated with prep batch 280-100047 was performed using sample SLP10T-121311 (280-23788-2), as requested. MS/MSD exhibited 11 of the 33 Matrix Spike compound recoveries outside the control limits. MS/MSD exhibited 11 of the 33 Matrix Spike Duplicate compound recoveries outside the control limits. The MS/MSD exhibited 1 of the 33 Relative Percent Difference (RPD) data outside the control limits. The MS/MSD exhibited percent recoveries and/or RPD data outside the control limits for the compounds listed below. Details of the specific analyte recoveries can found in the Matrix Spike Sample Recovery and Data Reports.

3-Methylnaphthalene	Acridine	Benzo[a]pyrene
Benzo[e]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene
Benzo[ghi]perylene	Dibenzo(a,h)pyrene	Indeno[1,2,3-cd]pyrene
Perylene	Quinoline	

No other anomalies were noted.

Data Completeness for Method 8270C SIM

The results contained in the report were reviewed relative to data acceptance criteria as specified in the 2008 QAPP, and the percent completeness was determined below. Note that the LCS and MS/MSD data were controlled based on the seven main spike compounds, including Indene, Naphthalene, Quinoline, 2-Methylnaphthalene, Fluorene, Chrysene and Benzo(e)pyrene.

DATA COMPLETENESS CALCULATION
JOB: 280-23788-1
ANALYSIS: SW846-8270C SIM

QC Parameter	Data Planned	Valid Data Obtained
Method Blank	31	31
MB Surrogates	3	3
LCS	7	3
LCS Surrogates	3	3
FB/FBD	62	62
MS	7	5
MS Surrogates	3	3
MSD	7	5
MSD Surrogates	3	3
MS/MSD RPD	7	7
Sample/Dup. RPD	31	31
Sample Surrogates	15	14
Samples and QC Internal Standard Area	27	27
TOTAL	**206**	**197**
% Completeness	**95.6%**	

Sample Duplicate Calculation for Method 8270C SIM

Sample Duplicate RPD					
JOB 280-23788-1					
Sample: SLP10T-121311		DUP: SLP10TD-121311			
Compound	Result	Compound	Result	RPD	RPD>50%
Acenaphthene	10	Acenaphthene	9.6	4.1	
Acenaphthylene	ND	Acenaphthylene	ND	0.0	
Acridine	ND	Acridine	ND	0.0	
Anthracene	ND	Anthracene	ND	0.0	
Benzo(a)anthracene	ND	Benzo(a)anthracene	ND	0.0	
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene	ND	0.0	
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene	ND	0.0	
2,3-Benzofuran	ND	2,3-Benzofuran	ND	0.0	
Benzo(ghi)perylene	ND	Benzo(ghi)perylene	ND	0.0	
Benzo(a)pyrene	ND	Benzo(a)pyrene	ND	0.0	
Benzo(e)pyrene	ND	Benzo(e)pyrene	ND	0.0	
Benzo(b)thiophene	2.2	Benzo(b)thiophene	1.8	20.0	
Biphenyl	ND	Biphenyl	ND	0.0	
Carbazole	ND	Carbazole	ND	0.0	
Chrysene	ND	Chrysene	ND	0.0	
Dibenz(a,h)anthracene	ND	Dibenz(a,h)anthracene	ND	0.0	
Dibenzofuran	ND	Dibenzofuran	ND	0.0	
Dibenzothiophene	ND	Dibenzothiophene	ND	0.0	
2,3-Dihydroindene	17	2,3-Dihydroindene	15	12.5	
Fluoranthene	ND	Fluoranthene	ND	0.0	
Fluorene	1.1	Fluorene	1.1	0.0	
Indene	ND	Indene	ND	0.0	
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene	ND	0.0	
Indole	1.9	Indole	1.6	17.1	
2-Methylnaphthalene	ND	2-Methylnaphthalene	ND	0.0	
1-Methylnaphthalene	2.8	1-Methylnaphthalene	2.8	0.0	
Naphthalene	1.9	Naphthalene	2.2	14.6	
Perylene	ND	Perylene	ND	0.0	
Phenanthrene	ND	Phenanthrene	ND	0.0	
Pyrene	ND	Pyrene	ND	0.0	
Quinoline	ND	Quinoline	ND	0.0	

RPD = Relative Percent Difference
ND = Compound not detected in the sample
p = RPD is outside of control limits
*NC = RPD not calculated, one positive result and one ND.
Considered acceptable if the positive result is less than 4x the RL.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

5

Client Sample ID: W48-121311 — Lab Sample ID: 280-23788-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	3.8	J	4.8	0.67	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	1.5	J *	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.8	J *	5.6	0.93	ng/L	1		8270C	Total/NA
Acenaphthene	86		5.4	0.48	ng/L	1		8270C	Total/NA
Acenaphthylene	2.9	J	4.6	0.73	ng/L	1		8270C	Total/NA
Anthracene	5.2		4.0	0.76	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	7.0		5.0	0.71	ng/L	1		8270C	Total/NA
Carbazole	1.7	J	3.6	0.69	ng/L	1		8270C	Total/NA
Indene	23	*	4.5	3.1	ng/L	1		8270C	Total/NA
Indole	3.5	J	4.5	1.6	ng/L	1		8270C	Total/NA
Naphthalene	4.9	J B *	8.2	1.1	ng/L	1		8270C	Total/NA
Pyrene	3.3	J B	4.0	0.94	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10T-121311 — Lab Sample ID: 280-23788-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	17		4.7	0.66	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.8	J *	5.3	0.84	ng/L	1		8270C	Total/NA
Acenaphthene	10		5.4	0.47	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	2.2	J	4.9	0.71	ng/L	1		8270C	Total/NA
Fluorene	1.1	J *	3.9	0.81	ng/L	1		8270C	Total/NA
Indole	1.9	J	4.5	1.6	ng/L	1		8270C	Total/NA
Naphthalene	1.9	J B *	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TD-121311 — Lab Sample ID: 280-23788-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2,3-Dihydroindene	15		4.7	0.66	ng/L	1		8270C	Total/NA
1-Methylnaphthalene	2.8	J *	5.3	0.84	ng/L	1		8270C	Total/NA
Acenaphthene	9.6		5.4	0.47	ng/L	1		8270C	Total/NA
Benzo(b)thiophene	1.8	J	4.9	0.71	ng/L	1		8270C	Total/NA
Fluorene	1.1	J *	3.9	0.80	ng/L	1		8270C	Total/NA
Indole	1.6	J	4.4	1.6	ng/L	1		8270C	Total/NA
Naphthalene	2.2	J B *	8.1	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFB-121311 — Lab Sample ID: 280-23788-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	1.1	J *	5.3	0.85	ng/L	1		8270C	Total/NA
2-Methylnaphthalene	1.8	J *	5.6	0.93	ng/L	1		8270C	Total/NA
Naphthalene	2.6	J B *	8.2	1.1	ng/L	1		8270C	Total/NA

Client Sample ID: SLP10TFBD-121311 — Lab Sample ID: 280-23788-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.4	J B *	8.7	1.2	ng/L	1		8270C	Total/NA

Method Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compound (GC/MS SIM LL)	SW846	TAL DEN

Protocol References:

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

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-23788-1	W48-121311	Water	12/13/11 12:00	12/14/11 09:30
280-23788-2	SLP10T-121311	Water	12/13/11 13:30	12/14/11 09:30
280-23788-3	SLP10TD-121311	Water	12/13/11 13:35	12/14/11 09:30
280-23788-4	SLP10TFB-121311	Water	12/13/11 13:50	12/14/11 09:30
280-23788-5	SLP10TFBD-121311	Water	12/13/11 13:55	12/14/11 09:30

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Client Sample ID: SLP10T-121311

Date Collected: 12/13/11 13:30
Date Received: 12/14/11 09:30

Lab Sample ID: 280-23788-2

Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.64	ng/L		12/15/11 10:20	12/29/11 10:58	1
2,3-Dihydroindene	**17**		4.7	0.66	ng/L		12/15/11 10:20	12/29/11 10:58	1
1-Methylnaphthalene	**2.8**	J *	5.3	0.84	ng/L		12/15/11 10:20	12/29/11 10:58	1
2-Methylnaphthalene	ND	*	5.6	0.93	ng/L		12/15/11 10:20	12/29/11 10:58	1
Acenaphthene	**10**		5.4	0.47	ng/L		12/15/11 10:20	12/29/11 10:58	1
Acenaphthylene	ND		4.6	0.73	ng/L		12/15/11 10:20	12/29/11 10:58	1
Acridine	ND		6.2	6.2	ng/L		12/15/11 10:20	12/29/11 10:58	1
Anthracene	ND		4.0	0.76	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[a]anthracene	ND		4.1	0.87	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo(b)thiophene	**2.2**	J	4.9	0.71	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		12/15/11 10:20	12/29/11 10:58	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		12/15/11 10:20	12/29/11 10:58	1
Carbazole	ND		3.6	0.68	ng/L		12/15/11 10:20	12/29/11 10:58	1
Chrysene	ND		5.3	1.2	ng/L		12/15/11 10:20	12/29/11 10:58	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		12/15/11 10:20	12/29/11 10:58	1
Dibenzofuran	ND		5.4	0.94	ng/L		12/15/11 10:20	12/29/11 10:58	1
Dibenzothiophene	ND		3.9	0.93	ng/L		12/15/11 10:20	12/29/11 10:58	1
Fluoranthene	ND		4.4	1.6	ng/L		12/15/11 10:20	12/29/11 10:58	1
Fluorene	**1.1**	J *	3.9	0.81	ng/L		12/15/11 10:20	12/29/11 10:58	1
Indene	ND	*	4.5	3.1	ng/L		12/15/11 10:20	12/29/11 10:58	1
Indole	**1.9**	J	4.5	1.6	ng/L		12/15/11 10:20	12/29/11 10:58	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		12/15/11 10:20	12/29/11 10:58	1
Naphthalene	**1.9**	J B *	8.2	1.1	ng/L		12/15/11 10:20	12/29/11 10:58	1
Perylene	ND		3.6	3.6	ng/L		12/15/11 10:20	12/29/11 10:58	1
Phenanthrene	ND		6.0	3.0	ng/L		12/15/11 10:20	12/29/11 10:58	1
Pyrene	ND		4.0	0.94	ng/L		12/15/11 10:20	12/29/11 10:58	1
Quinoline	ND		8.5	5.4	ng/L		12/15/11 10:20	12/29/11 10:58	1
Biphenyl	ND		5.3	1.0	ng/L		12/15/11 10:20	12/29/11 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*85*	*X*	*23 - 84*	*12/15/11 10:20*	*12/29/11 10:58*	*1*
Chrysene-d12 (Surr)	*60*		*28 - 101*	*12/15/11 10:20*	*12/29/11 10:58*	*1*
Naphthalene-d8 (Surr)	*89*		*22 - 97*	*12/15/11 10:20*	*12/29/11 10:58*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Client Sample ID: SLP10TD-121311
Date Collected: 12/13/11 13:35
Date Received: 12/14/11 09:30

Lab Sample ID: 280-23788-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.64	ng/L		12/15/11 10:20	12/29/11 12:46	1
2,3-Dihydroindene	**15**		4.7	0.66	ng/L		12/15/11 10:20	12/29/11 12:46	1
1-Methylnaphthalene	**2.8**	J *	5.3	0.84	ng/L		12/15/11 10:20	12/29/11 12:46	1
2-Methylnaphthalene	ND	*	5.6	0.93	ng/L		12/15/11 10:20	12/29/11 12:46	1
Acenaphthene	**9.6**		5.4	0.47	ng/L		12/15/11 10:20	12/29/11 12:46	1
Acenaphthylene	ND		4.5	0.73	ng/L		12/15/11 10:20	12/29/11 12:46	1
Acridine	ND		6.1	6.1	ng/L		12/15/11 10:20	12/29/11 12:46	1
Anthracene	ND		4.0	0.76	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[a]anthracene	ND		4.1	0.87	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[b]fluoranthene	ND		4.4	1.3	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo(b)thiophene	**1.8**	J	4.9	0.71	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		12/15/11 10:20	12/29/11 12:46	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		12/15/11 10:20	12/29/11 12:46	1
Carbazole	ND		3.6	0.68	ng/L		12/15/11 10:20	12/29/11 12:46	1
Chrysene	ND		5.3	1.2	ng/L		12/15/11 10:20	12/29/11 12:46	1
Dibenz(a,h)anthracene	ND		5.6	0.98	ng/L		12/15/11 10:20	12/29/11 12:46	1
Dibenzofuran	ND		5.4	0.94	ng/L		12/15/11 10:20	12/29/11 12:46	1
Dibenzothiophene	ND		3.9	0.93	ng/L		12/15/11 10:20	12/29/11 12:46	1
Fluoranthene	ND		4.3	1.6	ng/L		12/15/11 10:20	12/29/11 12:46	1
Fluorene	**1.1**	J *	3.9	0.80	ng/L		12/15/11 10:20	12/29/11 12:46	1
Indene	ND	*	4.4	3.1	ng/L		12/15/11 10:20	12/29/11 12:46	1
Indole	**1.6**	J	4.4	1.6	ng/L		12/15/11 10:20	12/29/11 12:46	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		12/15/11 10:20	12/29/11 12:46	1
Naphthalene	**2.2**	J B *	8.1	1.1	ng/L		12/15/11 10:20	12/29/11 12:46	1
Perylene	ND		3.6	3.6	ng/L		12/15/11 10:20	12/29/11 12:46	1
Phenanthrene	ND		6.0	3.0	ng/L		12/15/11 10:20	12/29/11 12:46	1
Pyrene	ND		4.0	0.94	ng/L		12/15/11 10:20	12/29/11 12:46	1
Quinoline	ND		8.5	5.3	ng/L		12/15/11 10:20	12/29/11 12:46	1
Biphenyl	ND		5.3	0.99	ng/L		12/15/11 10:20	12/29/11 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*77*		*23 - 84*	*12/15/11 10:20*	*12/29/11 12:46*	*1*
Chrysene-d12 (Surr)	*51*		*28 - 101*	*12/15/11 10:20*	*12/29/11 12:46*	*1*
Naphthalene-d8 (Surr)	*82*		*22 - 97*	*12/15/11 10:20*	*12/29/11 12:46*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Client Sample ID: SLP10TFB-121311
Date Collected: 12/13/11 13:50
Date Received: 12/14/11 09:30

Lab Sample ID: 280-23788-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.1	0.65	ng/L		12/15/11 10:20	12/29/11 13:22	1
2,3-Dihydroindene	ND		4.8	0.67	ng/L		12/15/11 10:20	12/29/11 13:22	1
1-Methylnaphthalene	**1.1**	J *	5.3	0.85	ng/L		12/15/11 10:20	12/29/11 13:22	1
2-Methylnaphthalene	**1.8**	J *	5.6	0.93	ng/L		12/15/11 10:20	12/29/11 13:22	1
Acenaphthene	ND		5.4	0.48	ng/L		12/15/11 10:20	12/29/11 13:22	1
Acenaphthylene	ND		4.6	0.73	ng/L		12/15/11 10:20	12/29/11 13:22	1
Acridine	ND		6.2	6.2	ng/L		12/15/11 10:20	12/29/11 13:22	1
Anthracene	ND		4.0	0.76	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[a]anthracene	ND		4.1	0.88	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[a]pyrene	ND		2.4	1.2	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[e]pyrene	ND		4.1	1.1	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[b]fluoranthene	ND		4.5	1.3	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo(b)thiophene	ND		4.9	0.71	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[k]fluoranthene	ND		3.9	1.2	ng/L		12/15/11 10:20	12/29/11 13:22	1
Benzo[g,h,i]perylene	ND		5.9	1.1	ng/L		12/15/11 10:20	12/29/11 13:22	1
Carbazole	ND		3.6	0.68	ng/L		12/15/11 10:20	12/29/11 13:22	1
Chrysene	ND		5.3	1.2	ng/L		12/15/11 10:20	12/29/11 13:22	1
Dibenz(a,h)anthracene	ND		5.6	0.99	ng/L		12/15/11 10:20	12/29/11 13:22	1
Dibenzofuran	ND		5.4	0.94	ng/L		12/15/11 10:20	12/29/11 13:22	1
Dibenzothiophene	ND		3.9	0.93	ng/L		12/15/11 10:20	12/29/11 13:22	1
Fluoranthene	ND		4.4	1.6	ng/L		12/15/11 10:20	12/29/11 13:22	1
Fluorene	ND	*	3.9	0.81	ng/L		12/15/11 10:20	12/29/11 13:22	1
Indene	ND	*	4.5	3.1	ng/L		12/15/11 10:20	12/29/11 13:22	1
Indole	ND		4.5	1.6	ng/L		12/15/11 10:20	12/29/11 13:22	1
Indeno[1,2,3-cd]pyrene	ND		5.1	1.2	ng/L		12/15/11 10:20	12/29/11 13:22	1
Naphthalene	**2.6**	J B *	8.2	1.1	ng/L		12/15/11 10:20	12/29/11 13:22	1
Perylene	ND		3.6	3.6	ng/L		12/15/11 10:20	12/29/11 13:22	1
Phenanthrene	ND		6.0	3.1	ng/L		12/15/11 10:20	12/29/11 13:22	1
Pyrene	ND		4.0	0.94	ng/L		12/15/11 10:20	12/29/11 13:22	1
Quinoline	ND		8.6	5.4	ng/L		12/15/11 10:20	12/29/11 13:22	1
Biphenyl	ND		5.3	1.0	ng/L		12/15/11 10:20	12/29/11 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*82*		*23 - 84*	*12/15/11 10:20*	*12/29/11 13:22*	*1*
Chrysene-d12 (Surr)	*90*		*28 - 101*	*12/15/11 10:20*	*12/29/11 13:22*	*1*
Naphthalene-d8 (Surr)	*88*		*22 - 97*	*12/15/11 10:20*	*12/29/11 13:22*	*1*

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Client Sample ID: SLP10TFBD-121311

Date Collected: 12/13/11 13:55
Date Received: 12/14/11 09:30

Lab Sample ID: 280-23788-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.5	0.69	ng/L		12/15/11 10:20	12/29/11 13:58	1
2,3-Dihydroindene	ND		5.1	0.71	ng/L		12/15/11 10:20	12/29/11 13:58	1
1-Methylnaphthalene	ND	*	5.7	0.90	ng/L		12/15/11 10:20	12/29/11 13:58	1
2-Methylnaphthalene	ND	*	6.0	0.99	ng/L		12/15/11 10:20	12/29/11 13:58	1
Acenaphthene	ND		5.8	0.51	ng/L		12/15/11 10:20	12/29/11 13:58	1
Acenaphthylene	ND		4.9	0.78	ng/L		12/15/11 10:20	12/29/11 13:58	1
Acridine	ND		6.6	6.6	ng/L		12/15/11 10:20	12/29/11 13:58	1
Anthracene	ND		4.3	0.81	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[a]anthracene	ND		4.4	0.93	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[a]pyrene	ND		2.5	1.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[e]pyrene	ND		4.4	1.2	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[b]fluoranthene	ND		4.8	1.4	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo(b)thiophene	ND		5.3	0.76	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[k]fluoranthene	ND		4.2	1.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Benzo[g,h,i]perylene	ND		6.3	1.2	ng/L		12/15/11 10:20	12/29/11 13:58	1
Carbazole	ND		3.9	0.73	ng/L		12/15/11 10:20	12/29/11 13:58	1
Chrysene	ND		5.7	1.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Dibenz(a,h)anthracene	ND		6.0	1.1	ng/L		12/15/11 10:20	12/29/11 13:58	1
Dibenzofuran	ND		5.8	1.0	ng/L		12/15/11 10:20	12/29/11 13:58	1
Dibenzothiophene	ND		4.2	0.99	ng/L		12/15/11 10:20	12/29/11 13:58	1
Fluoranthene	ND		4.7	1.7	ng/L		12/15/11 10:20	12/29/11 13:58	1
Fluorene	ND	*	4.2	0.86	ng/L		12/15/11 10:20	12/29/11 13:58	1
Indene	ND	*	4.8	3.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Indole	ND		4.8	1.8	ng/L		12/15/11 10:20	12/29/11 13:58	1
Indeno[1,2,3-cd]pyrene	ND		5.5	1.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Naphthalene	**1.4**	**J B ***	8.7	1.2	ng/L		12/15/11 10:20	12/29/11 13:58	1
Perylene	ND		3.9	3.9	ng/L		12/15/11 10:20	12/29/11 13:58	1
Phenanthrene	ND		6.4	3.3	ng/L		12/15/11 10:20	12/29/11 13:58	1
Pyrene	ND		4.3	1.0	ng/L		12/15/11 10:20	12/29/11 13:58	1
Quinoline	ND		9.1	5.7	ng/L		12/15/11 10:20	12/29/11 13:58	1
Biphenyl	ND		5.7	1.1	ng/L		12/15/11 10:20	12/29/11 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*76*		*23 - 84*	*12/15/11 10:20*	*12/29/11 13:58*	*1*
Chrysene-d12 (Surr)	*89*		*28 - 101*	*12/15/11 10:20*	*12/29/11 13:58*	*1*
Naphthalene-d8 (Surr)	*81*		*22 - 97*	*12/15/11 10:20*	*12/29/11 13:58*	*1*

Surrogate Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FD10	sene-d12 (S	thalene-d8 (
Lab Sample ID	Client Sample ID	(23-84)	(28-101)	(22-97)
280-23788-1	W48-121311	81	36	76
280-23788-2	SLP10T-121311	85 X	60	89
280-23788-2 MS	SLP10T-121311	72	64	74
280-23788-2 MSD	SLP10T-121311	74	45	79
280-23788-3	SLP10TD-121311	77	51	82
280-23788-4	SLP10TFB-121311	82	90	88
280-23788-5	SLP10TFBD-121311	76	89	81
LCS 280-100047/2-A	Lab Control Sample	82	81	87
MB 280-100047/1-A	Method Blank	74	88	78

Surrogate Legend

FD10 = Fluorene-d10 (Surr)
Chrysene-d12 (Surr) = Chrysene-d12 (Surr)
Naphthalene-d8 (Surr) = Naphthalene-d8 (Surr)

9

QC Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 280-100047/1-A
Matrix: Water
Analysis Batch: 101746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.4	0.68	ng/L		12/15/11 10:20	12/29/11 09:10	1
2,3-Dihydroindene	ND		5.0	0.70	ng/L		12/15/11 10:20	12/29/11 09:10	1
1-Methylnaphthalene	ND		5.6	0.89	ng/L		12/15/11 10:20	12/29/11 09:10	1
2-Methylnaphthalene	ND		5.9	0.98	ng/L		12/15/11 10:20	12/29/11 09:10	1
Acenaphthene	ND		5.7	0.50	ng/L		12/15/11 10:20	12/29/11 09:10	1
Acenaphthylene	ND		4.8	0.77	ng/L		12/15/11 10:20	12/29/11 09:10	1
Acridine	ND		6.5	6.5	ng/L		12/15/11 10:20	12/29/11 09:10	1
Anthracene	ND		4.2	0.80	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[a]anthracene	ND		4.3	0.92	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[a]pyrene	ND		2.5	1.2	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[e]pyrene	ND		4.3	1.1	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[b]fluoranthene	ND		4.7	1.4	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo(b)thiophene	ND		5.2	0.75	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[k]fluoranthene	ND		4.1	1.2	ng/L		12/15/11 10:20	12/29/11 09:10	1
Benzo[g,h,i]perylene	ND		6.2	1.2	ng/L		12/15/11 10:20	12/29/11 09:10	1
Carbazole	ND		3.8	0.72	ng/L		12/15/11 10:20	12/29/11 09:10	1
Chrysene	ND		5.6	1.2	ng/L		12/15/11 10:20	12/29/11 09:10	1
Dibenz(a,h)anthracene	ND		5.9	1.0	ng/L		12/15/11 10:20	12/29/11 09:10	1
Dibenzofuran	ND		5.7	0.99	ng/L		12/15/11 10:20	12/29/11 09:10	1
Dibenzothiophene	ND		4.1	0.98	ng/L		12/15/11 10:20	12/29/11 09:10	1
Fluoranthene	ND		4.6	1.7	ng/L		12/15/11 10:20	12/29/11 09:10	1
Fluorene	ND		4.1	0.85	ng/L		12/15/11 10:20	12/29/11 09:10	1
Indene	ND		4.7	3.3	ng/L		12/15/11 10:20	12/29/11 09:10	1
Indole	ND		4.7	1.7	ng/L		12/15/11 10:20	12/29/11 09:10	1
Indeno[1,2,3-cd]pyrene	ND		5.4	1.3	ng/L		12/15/11 10:20	12/29/11 09:10	1
Naphthalene	1.57	J	8.6	1.1	ng/L		12/15/11 10:20	12/29/11 09:10	1
Perylene	ND		3.8	3.8	ng/L		12/15/11 10:20	12/29/11 09:10	1
Phenanthrene	ND		6.3	3.2	ng/L		12/15/11 10:20	12/29/11 09:10	1
Pyrene	1.01	J	4.2	0.99	ng/L		12/15/11 10:20	12/29/11 09:10	1
Quinoline	ND		9.0	5.7	ng/L		12/15/11 10:20	12/29/11 09:10	1
Biphenyl	ND		5.6	1.1	ng/L		12/15/11 10:20	12/29/11 09:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*74*		*23 - 84*	*12/15/11 10:20*	*12/29/11 09:10*	*1*
Chrysene-d12 (Surr)	*88*		*28 - 101*	*12/15/11 10:20*	*12/29/11 09:10*	*1*
Naphthalene-d8 (Surr)	*78*		*22 - 97*	*12/15/11 10:20*	*12/29/11 09:10*	*1*

Lab Sample ID: LCS 280-100047/2-A
Matrix: Water
Analysis Batch: 101746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	75.0	73.4		ng/L		98	30 - 150
2,3-Dihydroindene	75.0	59.1		ng/L		79	30 - 150
1-Methylnaphthalene	75.0	199	*	ng/L		265	30 - 150
2-Methylnaphthalene	75.0	291	*	ng/L		387	25 - 95
3-Methylcholanthrene	75.0	28.0		ng/L		37	30 - 150
Acenaphthene	75.0	107		ng/L		142	30 - 150
Acenaphthylene	75.0	87.9		ng/L		117	30 - 150

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 280-100047/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 101746 — **Prep Batch: 100047**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acridine	75.0	42.2		ng/L		56	30 - 150
Anthracene	75.0	68.2		ng/L		91	30 - 150
Benzo[a]anthracene	75.0	67.2		ng/L		90	30 - 150
Benzo[a]pyrene	75.0	56.8		ng/L		76	30 - 150
Benzo[e]pyrene	75.0	57.8		ng/L		77	37 - 105
Benzo[b]fluoranthene	75.0	58.9		ng/L		79	30 - 150
Benzo(b)thiophene	75.0	68.3		ng/L		91	30 - 150
Benzo[k]fluoranthene	75.0	58.6		ng/L		78	30 - 150
Benzo[g,h,i]perylene	75.0	52.1		ng/L		69	30 - 150
Carbazole	75.0	66.4		ng/L		89	30 - 150
Chrysene	75.0	64.9		ng/L		87	20 - 136
Dibenz(a,h)anthracene	75.0	47.4		ng/L		63	30 - 150
Dibenzofuran	75.0	94.2		ng/L		126	30 - 150
Dibenzothiophene	75.0	64.8		ng/L		86	30 - 150
Fluoranthene	75.0	73.3		ng/L		98	30 - 150
Fluorene	75.0	88.8	*	ng/L		118	34 - 96
Indene	75.0	65.3	*	ng/L		87	22 - 86
Indole	75.0	71.5		ng/L		95	30 - 150
Indeno[1,2,3-cd]pyrene	75.0	46.5		ng/L		62	30 - 150
Naphthalene	75.0	586	E *	ng/L		781	27 - 95
Perylene	75.0	53.7		ng/L		72	30 - 150
Phenanthrene	75.0	88.5		ng/L		118	30 - 150
Pyrene	75.0	70.1		ng/L		94	30 - 150
Quinoline	75.0	51.8		ng/L		69	20 - 112
7,12-Dimethylbenz(a)anthracene	75.0	10.3	*	ng/L		14	30 - 150
Biphenyl	75.0	82.3		ng/L		110	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*82*		*23 - 84*
Chrysene-d12 (Surr)	*81*		*28 - 101*
Naphthalene-d8 (Surr)	*87*		*22 - 97*

Lab Sample ID: 280-23788-2 MS — **Client Sample ID: SLP10T-121311**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 101746 — **Prep Batch: 100047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3-Benzofuran	ND		71.4	51.7		ng/L		72	30 - 150
2,3-Dihydroindene	17		71.4	59.7		ng/L		60	30 - 150
1-Methylnaphthalene	2.8	J *	71.4	55.0		ng/L		73	30 - 150
2-Methylnaphthalene	ND	*	71.4	54.0		ng/L		76	25 - 95
3-Methylcholanthrene	ND		71.4	8.63	F	ng/L		12	30 - 150
Acenaphthene	10		71.4	61.7		ng/L		72	30 - 150
Acenaphthylene	ND		71.4	52.9		ng/L		74	30 - 150
Acridine	ND		71.4	12.3	F	ng/L		17	30 - 150
Anthracene	ND		71.4	57.3		ng/L		80	30 - 150
Benzo[a]anthracene	ND		71.4	45.1		ng/L		63	30 - 150
Benzo[a]pyrene	ND		71.4	10.9	F	ng/L		15	30 - 150
Benzo[e]pyrene	ND		71.4	11.8	F	ng/L		17	37 - 105

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-23788-2 MS — **Client Sample ID: SLP10T-121311**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 101746 — **Prep Batch: 100047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	ND		71.4	13.5	F	ng/L		19	30 - 150
Benzo(b)thiophene	2.2	J	71.4	52.9		ng/L		71	30 - 150
Benzo[k]fluoranthene	ND		71.4	12.6	F	ng/L		18	30 - 150
Benzo[g,h,i]perylene	ND		71.4	5.89	J F	ng/L		8	30 - 150
Carbazole	ND		71.4	59.3		ng/L		83	30 - 150
Chrysene	ND		71.4	46.8		ng/L		66	20 - 136
Dibenz(a,h)anthracene	ND		71.4	5.81	F	ng/L		8	30 - 150
Dibenzofuran	ND		71.4	51.6		ng/L		72	30 - 150
Dibenzothiophene	ND		71.4	54.3		ng/L		76	30 - 150
Fluoranthene	ND		71.4	61.8		ng/L		87	30 - 150
Fluorene	1.1	J *	71.4	57.0		ng/L		78	34 - 96
Indene	ND	*	71.4	52.2		ng/L		73	22 - 86
Indole	1.9	J	71.4	49.9		ng/L		67	30 - 150
Indeno[1,2,3-cd]pyrene	ND		71.4	5.73	F	ng/L		8	30 - 150
Naphthalene	1.9	J B *	71.4	56.7		ng/L		77	27 - 95
Perylene	ND		71.4	13.0	F	ng/L		18	30 - 150
Phenanthrene	ND		71.4	58.4		ng/L		82	30 - 150
Pyrene	ND		71.4	60.9		ng/L		85	30 - 150
Quinoline	ND		71.4	7.02	J F	ng/L		10	20 - 112
7,12-Dimethylbenz(a)anthracene	ND		71.4	32.6		ng/L		46	30 - 150
Biphenyl	ND		71.4	51.2		ng/L		72	30 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Fluorene-d10 (Surr)	*72*		*23 - 84*
Chrysene-d12 (Surr)	*64*		*28 - 101*
Naphthalene-d8 (Surr)	*74*		*22 - 97*

Lab Sample ID: 280-23788-2 MSD — **Client Sample ID: SLP10T-121311**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 101746 — **Prep Batch: 100047**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3-Benzofuran	ND		71.3	54.8		ng/L		77	30 - 150	6	50
2,3-Dihydroindene	17		71.3	62.3		ng/L		64	30 - 150	4	50
1-Methylnaphthalene	2.8	J *	71.3	58.7		ng/L		78	30 - 150	6	50
2-Methylnaphthalene	ND	*	71.3	56.9		ng/L		80	25 - 95	5	50
3-Methylcholanthrene	ND		71.3	5.39	F	ng/L		8	30 - 150	46	50
Acenaphthene	10		71.3	65.7		ng/L		78	30 - 150	6	50
Acenaphthylene	ND		71.3	56.2		ng/L		79	30 - 150	6	50
Acridine	ND		71.3	ND	F	ng/L		0	30 - 150	NC	50
Anthracene	ND		71.3	59.7		ng/L		84	30 - 150	4	50
Benzo[a]anthracene	ND		71.3	31.2		ng/L		44	30 - 150	36	50
Benzo[a]pyrene	ND		71.3	7.25	F	ng/L		10	30 - 150	40	50
Benzo[e]pyrene	ND		71.3	7.30	F	ng/L		10	37 - 105	47	50
Benzo[b]fluoranthene	ND		71.3	9.66	F	ng/L		14	30 - 150	33	50
Benzo(b)thiophene	2.2	J	71.3	56.4		ng/L		76	30 - 150	6	50
Benzo[k]fluoranthene	ND		71.3	9.01	F	ng/L		13	30 - 150	34	50
Benzo[g,h,i]perylene	ND		71.3	4.87	J F	ng/L		7	30 - 150	19	50
Carbazole	ND		71.3	59.0		ng/L		83	30 - 150	1	50

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: 280-23788-2 MSD
Matrix: Water
Analysis Batch: 101746

Client Sample ID: SLP10T-121311
Prep Type: Total/NA
Prep Batch: 100047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	ND		71.3	32.8		ng/L		46	20 - 136	35	50
Dibenz(a,h)anthracene	ND		71.3	4.64	J F	ng/L		7	30 - 150	22	50
Dibenzofuran	ND		71.3	54.6		ng/L		77	30 - 150	6	50
Dibenzothiophene	ND		71.3	56.5		ng/L		79	30 - 150	4	50
Fluoranthene	ND		71.3	59.5		ng/L		83	30 - 150	4	50
Fluorene	1.1	J *	71.3	59.4		ng/L		82	34 - 96	4	50
Indene	ND	*	71.3	55.0		ng/L		77	22 - 86	5	50
Indole	1.9	J	71.3	53.8		ng/L		73	30 - 150	7	50
Indeno[1,2,3-cd]pyrene	ND		71.3	4.57	J F	ng/L		6	30 - 150	22	50
Naphthalene	1.9	J B *	71.3	59.5		ng/L		81	27 - 95	5	50
Perylene	ND		71.3	7.83	F	ng/L		11	30 - 150	49	50
Phenanthrene	ND		71.3	60.2		ng/L		84	30 - 150	3	50
Pyrene	ND		71.3	58.2		ng/L		82	30 - 150	5	50
Quinoline	ND		71.3	11.6	F	ng/L		16	20 - 112	49	50
7,12-Dimethylbenz(a)anthracene	ND		71.3	31.7		ng/L		44	30 - 150	3	50
Biphenyl	ND		71.3	54.6		ng/L		77	30 - 150	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Fluorene-d10 (Surr)	*74*		*23 - 84*
Chrysene-d12 (Surr)	*45*		*28 - 101*
Naphthalene-d8 (Surr)	*79*		*22 - 97*

QC Association Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

GC/MS Semi VOA

Prep Batch: 100047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-23788-1	W48-121311	Total/NA	Water	3520C	
280-23788-2	SLP10T-121311	Total/NA	Water	3520C	
280-23788-2 MS	SLP10T-121311	Total/NA	Water	3520C	
280-23788-2 MSD	SLP10T-121311	Total/NA	Water	3520C	
280-23788-3	SLP10TD-121311	Total/NA	Water	3520C	
280-23788-4	SLP10TFB-121311	Total/NA	Water	3520C	
280-23788-5	SLP10TFBD-121311	Total/NA	Water	3520C	
LCS 280-100047/2-A	Lab Control Sample	Total/NA	Water	3520C	
MB 280-100047/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 101746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-23788-1	W48-121311	Total/NA	Water	8270C	100047
280-23788-2	SLP10T-121311	Total/NA	Water	8270C	100047
280-23788-2 MS	SLP10T-121311	Total/NA	Water	8270C	100047
280-23788-2 MSD	SLP10T-121311	Total/NA	Water	8270C	100047
280-23788-3	SLP10TD-121311	Total/NA	Water	8270C	100047
280-23788-4	SLP10TFB-121311	Total/NA	Water	8270C	100047
280-23788-5	SLP10TFBD-121311	Total/NA	Water	8270C	100047
LCS 280-100047/2-A	Lab Control Sample	Total/NA	Water	8270C	100047
MB 280-100047/1-A	Method Blank	Total/NA	Water	8270C	100047

Lab Chronicle

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Client Sample ID: W48-121311

Lab Sample ID: 280-23788-1
Matrix: Water

Date Collected: 12/13/11 12:00
Date Received: 12/14/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4199.5 mL	1000 uL	100047	12/15/11 10:20	JCV	TAL DEN
Total/NA	Analysis	8270C		1			101746	12/29/11 10:22	DPI	TAL DEN

Client Sample ID: SLP10T-121311

Lab Sample ID: 280-23788-2
Matrix: Water

Date Collected: 12/13/11 13:30
Date Received: 12/14/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4219.1 mL	1000 uL	100047	12/15/11 10:20	JCV	TAL DEN
Total/NA	Analysis	8270C		1			101746	12/29/11 10:58	DPI	TAL DEN

Client Sample ID: SLP10TD-121311

Lab Sample ID: 280-23788-3
Matrix: Water

Date Collected: 12/13/11 13:35
Date Received: 12/14/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4232 mL	1000 uL	100047	12/15/11 10:20	JCV	TAL DEN
Total/NA	Analysis	8270C		1			101746	12/29/11 12:46	DPI	TAL DEN

Client Sample ID: SLP10TFB-121311

Lab Sample ID: 280-23788-4
Matrix: Water

Date Collected: 12/13/11 13:50
Date Received: 12/14/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			4205.5 mL	1000 uL	100047	12/15/11 10:20	JCV	TAL DEN
Total/NA	Analysis	8270C		1			101746	12/29/11 13:22	DPI	TAL DEN

Client Sample ID: SLP10TFBD-121311

Lab Sample ID: 280-23788-5
Matrix: Water

Date Collected: 12/13/11 13:55
Date Received: 12/14/11 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			3940 mL	1000 uL	100047	12/15/11 10:20	JCV	TAL DEN
Total/NA	Analysis	8270C		1			101746	12/29/11 13:58	DPI	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-23788-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 4.1, 4.0, 3.8, 12/13/11 5.7, 3.9, 4.6, #1

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: City of St. Louis Park / AECOM	Project Manager: Drew Tarara	Date: 12-13-11	Chain of Custody Number: 141425
Address: 7305 Oxford Street	Telephone Number (Area Code)/Fax Number: 651 367 2335	Lab Number:	Page 1 of 1
City: St. Louis Park; State: MN; Zip Code: 55 416	Site Contact: Scott Anderson; Lab Contact: Lisa U.		
Project Name and Location (State): Reilly	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	PAH PPTS	Special Instructions/ Conditions of Receipt
W48-12B11	12/13/11	1200		X			6						X	
SLP10T-12B11	↓	1330		↓			↓						↓	
SLP10TD-12B11	↓	1335		↓			↓						↓	
SLP10TMS-12B11	↓	1340		↓			↓						↓	
SLP10TMSD-12B11	↓	1345		↓			↓						↓	
SLP10TFB-12B11	↓	1350		↓			5						↓	
SLP10TFBD-12B11	↓	1355		↓			↓						↓	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	12/13/11	1515	1. Received By: [signature]	12/14/11	0930
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: City of Saint Louis Park

Job Number: 280-23788-1

Login Number: 23788
List Number: 1
Creator: Paulsen, Lindsay T

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

RAP SECTION 4.3.3 (D)

PAH FEED WATER ANALYSIS

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10-091311
Date Collected: 09/13/11 13:45
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compound (GC/MS SIM LL)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3-Benzofuran	ND		5.5	0.70	ng/L		09/16/11 14:15	10/06/11 20:00	1
2,3-Dihydroindene	75		5.1	0.72	ng/L		09/16/11 14:15	10/06/11 20:00	1
1-Methylnaphthalene	32		5.7	0.91	ng/L		09/16/11 14:15	10/06/11 20:00	1
2-Methylnaphthalene	ND		6.0	1.0	ng/L		09/16/11 14:15	10/06/11 20:00	1
Acenaphthene	220		5.8	0.51	ng/L		09/16/11 14:15	10/06/11 20:00	1
Acenaphthylene	17		4.9	0.79	ng/L		09/16/11 14:15	10/06/11 20:00	1
Acridine	ND	*	6.6	6.6	ng/L		09/16/11 14:15	10/06/11 20:00	1
Anthracene	0.97	J	4.3	0.82	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[a]anthracene	1.3	J B	4.4	0.94	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[a]pyrene	ND		2.6	1.3	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[e]pyrene	ND		4.4	1.2	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[b]fluoranthene	ND		4.8	1.4	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo(b)thiophene	17		5.3	0.77	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[k]fluoranthene	ND	*	4.2	1.3	ng/L		09/16/11 14:15	10/06/11 20:00	1
Benzo[g,h,i]perylene	ND		6.3	1.2	ng/L		09/16/11 14:15	10/06/11 20:00	1
Carbazole	9.0		3.9	0.74	ng/L		09/16/11 14:15	10/06/11 20:00	1
Chrysene	1.6	J * B	5.7	1.3	ng/L		09/16/11 14:15	10/06/11 20:00	1
Dibenz(a,h)anthracene	ND		6.0	1.1	ng/L		09/16/11 14:15	10/06/11 20:00	1
Dibenzofuran	8.2		5.8	1.0	ng/L		09/16/11 14:15	10/06/11 20:00	1
Dibenzothiophene	10		4.2	1.0	ng/L		09/16/11 14:15	10/06/11 20:00	1
Fluoranthene	22		4.7	1.7	ng/L		09/16/11 14:15	10/06/11 20:00	1
Fluorene	49		4.2	0.87	ng/L		09/16/11 14:15	10/06/11 20:00	1
Indene	24		4.8	3.4	ng/L		09/16/11 14:15	10/06/11 20:00	1
Indole	ND		4.8	1.8	ng/L		09/16/11 14:15	10/06/11 20:00	1
Indeno[1,2,3-cd]pyrene	ND		5.5	1.3	ng/L		09/16/11 14:15	10/06/11 20:00	1
Naphthalene	2.4	J B	8.8	1.2	ng/L		09/16/11 14:15	10/06/11 20:00	1
Perylene	ND		3.9	3.9	ng/L		09/16/11 14:15	10/06/11 20:00	1
Phenanthrene	4.5	J	6.4	3.3	ng/L		09/16/11 14:15	10/06/11 20:00	1
Pyrene	44	B	4.3	1.0	ng/L		09/16/11 14:15	10/06/11 20:00	1
Quinoline	ND	*	9.2	5.8	ng/L		09/16/11 14:15	10/06/11 20:00	1
Biphenyl	1.5	J	5.7	1.1	ng/L		09/16/11 14:15	10/06/11 20:00	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluorene-d10 (Surr)	*66*		*23 - 84*	*09/16/11 14:15*	*10/06/11 20:00*	*1*
Chrysene-d12 (Surr)	*48*		*28 - 101*	*09/16/11 14:15*	*10/06/11 20:00*	*1*
Naphthalene-d8 (Surr)	*66*		*22 - 97*	*09/16/11 14:15*	*10/06/11 20:00*	*1*

Feed Water QA/QC is located in:

2. RAP Section 4.3.1 (C)
   - PAH Analysis
     - 3rd Quarter

RAP SECTION 4.3.4

ACID FRACTION ANALYSIS

Client Sample Results

Client: City of Saint Louis Park
Project/Site: CSLP - Reilly Tar & Chemical

TestAmerica Job ID: 280-20302-1

Client Sample ID: SLP10TACIDFRACTION-091311
Date Collected: 09/13/11 15:20
Date Received: 09/15/11 09:30

Lab Sample ID: 280-20302-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		10	2.0	ug/L		09/17/11 11:25	09/29/11 22:51	1
2-Chlorophenol	ND		10	2.0	ug/L		09/17/11 11:25	09/29/11 22:51	1
2,4-Dimethylphenol	ND		10	0.59	ug/L		09/17/11 11:25	09/29/11 22:51	1
2-Nitrophenol	ND		20	0.40	ug/L		09/17/11 11:25	09/29/11 22:51	1
2,4-Dichlorophenol	ND		10	0.65	ug/L		09/17/11 11:25	09/29/11 22:51	1
4-Chloro-3-methylphenol	ND		20	2.5	ug/L		09/17/11 11:25	09/29/11 22:51	1
2,4,6-Trichlorophenol	ND		20	0.30	ug/L		09/17/11 11:25	09/29/11 22:51	1
2,4-Dinitrophenol	ND		61	10	ug/L		09/17/11 11:25	09/29/11 22:51	1
4-Nitrophenol	ND		51	1.3	ug/L		09/17/11 11:25	09/29/11 22:51	1
4,6-Dinitro-2-methylphenol	ND		61	4.1	ug/L		09/17/11 11:25	09/29/11 22:51	1
Pentachlorophenol	ND		61	20	ug/L		09/17/11 11:25	09/29/11 22:51	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*76*		*51 - 120*	*09/17/11 11:25*	*09/29/11 22:51*	*1*
Phenol-d5	*80*		*51 - 120*	*09/17/11 11:25*	*09/29/11 22:51*	*1*
Nitrobenzene-d5	*82*		*48 - 120*	*09/17/11 11:25*	*09/29/11 22:51*	*1*
2-Fluorobiphenyl	*72*		*38 - 120*	*09/17/11 11:25*	*09/29/11 22:51*	*1*
Terphenyl-d14	*82*		*50 - 120*	*09/17/11 11:25*	*09/29/11 22:51*	*1*

Acid Fraction QA/QC is located in:

1. RAP Section 4.3.1 (C)
   - PAH Analysis
     - 3rd Quarter