Tier IV Data Package
Samples Collected
9/1/11
12-Samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

File name
001621

Job Number: 180-3644-1

Job Description: Focused Site Assessment

For:
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Attention: Mr. James Pinta, Jr.

Carrie L. Gamber

Approved for release.
Carrie L Gamber
Project Manager II
10/5/2011 2:09 PM

Carrie L Gamber
Project Manager II
carrie.gamber@testamericainc.com
10/05/2011

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DIM0192253

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SAMPLE SUMMARY

Client: URS Corporation

Job Number: 180-3644-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
180-3644-1	H-1	Water	09/01/2011 1115	09/06/2011 0900
180-3644-2	FH-1	Water	09/01/2011 0840	09/06/2011 0900
180-3644-3	FPT-1	Water	09/01/2011 0935	09/06/2011 0900
180-3644-4	S-1	Water	09/01/2011 1015	09/06/2011 0900
180-3644-5	R-1	Water	09/01/2011 1320	09/06/2011 0900
180-3644-6	R-2	Water	09/01/2011 1340	09/06/2011 0900
180-3644-7	RD-1	Water	09/01/2011 1410	09/06/2011 0900
180-3644-8	RU-1	Water	09/01/2011 1445	09/06/2011 0900
180-3644-9	KDE-1	Water	09/01/2011 1535	09/06/2011 0900
180-3644-10	N-1	Water	09/01/2011 1745	09/06/2011 0900
180-3644-11	D-1	Water	09/01/2011 1815	09/06/2011 0900
180-3644-12	TRIP BLANK	Water	09/01/2011 0000	09/06/2011 0900

DIM0192253

CABOT-EPA 003754

Chain of Custody Record

Water

TestAmerica Laboratory location: Pittsburgh

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Client Contact			
Company Name: URS Corporation	Client Project Manager: Thomas Merski	Site Contact: Jim Pinta	Lab Contact: Carrie Grumber
Address: 501 Holiday Dr., Suite 300	Telephone: 412-503-4603	Telephone: 412-860-6342 (cell)	Telephone: 412-963-7058
City/State/Zip: Pittsburgh, PA 15220	Email: James_Pinta@urscorp.com	Analysis Turnaround Time (In BUS days)	
Phone: 412-503-4700	David_Blanchild@urscorp.com	TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: K&L Gates Focused Site Assessment	Method of Shipment/Carrier: FedEx Next Day Air		
Project Number: 39938688.00001	Shipping/Tracking No:		
PO#: 6948772			

COC No: 005410 ____ of ____ COCs

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other	Filtered Sample (Y/N)	Composite (Y/N)	VOCs	SVOCs	Metals (TD Dissolved Lab Filtered)	Total Petroleum Hydrocarbons (Short List for Petroleum Products)	TEM	Silica Gel Fractionation	Ammonia	Glycols	DRO/GRO	MBAS	Sample Specific Notes / Special Instructions:
H-1	9/1/11	11:15 AM		X													X	X	X	X	X	X	X	X	X	X	
FH-1	9/1/11	8:40 AM		X																							
FPT-1	9/1/11	9:35 AM		X																							
S-1	9/1/11	10:15 AM		X																							
R-1	9/1/11	1:20 PM		X																							
R-2	9/1/11	1:40 PM		X																							
RD-1	9/1/11	2:10 PM		X																							
RU-1	9/1/11	2:45 PM		X																							
RDE-1	9/1/11	3:35 PM		X																							
N-1	9/1/11	5:45 PM		X																							
D-1	9/1/11	6:15 PM		X																							

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

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

Special Instructions/QC Requirements & Comments:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	URS Corp	9/1/11	[signature]		
[signature]	URS Corp	9/6/11 9:00 AM	[signature]	TA Pitt	9/6/11 0900
			Received in Laboratory by:		

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TAL 0018-1 (04/10)

DIM0192257

FedEx. US Airbill Express

FedEx Tracking Number 8741 6244 2127

0200

FedEx Retrieval Copy

1 From

Date 1/11

Sender's FedEx Account Number 131592515

Sender's Name J Pinto Jr. Phone 412 502-4144

Company URS Corp

Address 501 Holiday Dr.

City Pittsburgh State PA ZIP 15220

2 Your Internal Billing Reference 37938688.00001

3 To Recipient's Name Angelo Rao Phone 412 963-7050

Company Test America

Address 301 Alpha Drive

Address

City Pittsburgh State PA ZIP 15238

01 ☐ HOLD Weekdays

31 ☐ HOLD Saturday

4a Express Package Service

01 ☒ FedEx Priority Overnight

05 ☐ FedEx Standard Overnight

06 ☐ FedEx First Overnight

03 ☐ FedEx 2Day

20 ☐ FedEx Express Saver

Packages up to 150 lbs.

4b Express Freight Service

70 ☐ FedEx 1Day Freight

80 ☐ FedEx 2Day Freight

83 ☐ FedEx 3Day Freight

Packages over 150 lbs.

5 Packaging

06 ☐ FedEx Envelope*

02 ☐ FedEx Pak*

03 ☐ FedEx Box

04 ☐ FedEx Tube

01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ SATURDAY DELIVERY

☐ No Signature Required

10 ☐ Direct Signature

30 ☐ Indirect Signature

Does this shipment contain dangerous goods?

☒ No 04 ☐ Yes

OR ☐ Dry Ice

☐ Cargo Aircraft Only

7 Payment Bill to:

1 ☒ Sender

2 ☐ Recipient

3 ☐ Third Party

4 ☐ Credit Card

5 ☐ Cash/Check

Total Packages 10

Total Weight 600

606

8741 6244 2127

fedex.com 1.800.GoFedEx 1.800.463.3339

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Method 8015B - GRO Blank Data 1190

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CASE NARRATIVE

Client: URS Corporation

Project: Focused Site Assessment

Report Number: 180-3644-1

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.

RECEIPT
The samples were received on 09/06/2011; the samples arrived in good condition, properly preserved and on ice.

The laboratory received a broken 1-liter bottle for sample FPT-1 (180-3644-3).

The laboratory did not receive sulfuric acid preserved vials for samples FPT-1 (180-3644-3) and D-1 (180-3644-11). An aliquot was taken from an un-preserved 1-liter amber glass bottle and preserved for TOC.

No Sodium thiosulfate vials were received for samples FPT-1 (180-3644-3), D-1 (180-3644-11), and N-1 (180-3644-10). An aliquot was taken from an un-preserved 1-liter amber glass bottle and preserved for method 8011.

The DRO volume for sample FPT-1 (180-3644-3) was received in a 1l-liter plastic container.

LOW LEVEL VOLATILE ORGANIC COMPOUNDS
Chloroform, Naphthalene and Toluene were detected in method blank MB 180-14017/3 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

8011 GAS CHROMATOGRAPHY
No difficulties were encountered during the EDB analyses.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
No difficulties were encountered during the semivolatiles analyses.

GAS RANGE ORGANICS
GRO (C6-C10) was detected in method blank MB 480-30437/3 at a level that was above the method detection limit but below the reporting limit. The value should be considered estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

DISSOLVED GASES
Due to the concentration of target compounds detected, samples H-1 (180-3644-1)[1000X], FH-1 (180-3644-2)[20X], R-1 (180-3644-5)[1000X], R-1 (180-3644-5)[200X], R-2 (180-3644-6)[100X], R-2 (180-3644-6)[1000X] and KDE-1 (180-3644-9)[10X] were analyzed at a dilution. The reporting limits have been adjusted accordingly.

GLYCOLS
The matrix spike and matrix spike duplicate of sample H-1 (180-3644-1) recovered outside of the control limits for Triethylene Glycol.

DIESEL RANGE ORGANICS
No difficulties were encountered during the DRO analyses.

METALS
The serial dilution of sample H-1 (180-3644-1) was outside of the percent difference control limits for several metals.

METHOD SUMMARY

Client: URS Corporation

Job Number: 180-3644-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL PIT	SW846 8260B	
Purge and Trap	TAL PIT		SW846 5030B
Semivolatile Organic Compounds by GCMS - Low Levels	TAL PIT	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous			SW846 3520C
Semivolatile Organic Compounds by GCMS - Low Levels	TAL PIT	SW846 8270C LL	
Liquid-Liquid Extraction (Continuous)			SW846 3520C
EDB, DBCP, and 1,2,3-TCP (GC)	TAL PIT	SW846 8011	
Microextraction			SW846 8011
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration			Filtration
Metals (ICP/MS)	TAL PIT	SW846 6020	
Preparation, Total Metals			SW846 3010A
Mercury (CVAA)	TAL PIT	SW846 7470A	
Preparation, Mercury			SW846 7470A
Mercury (CVAA)	TAL PIT	SW846 7470A	
Preparation, Mercury			SW846 7470A
Sample Filtration, Field			FIELD_FLTRD
HEM and SGT-HEM	TAL PIT	1664A 1664A	
HEM and SGT-HEM (SPE)			1664A 1664A
Anions, Ion Chromatography	TAL PIT	MCAWW 300.0	
Nitrogen, Ammonia	TAL PIT	MCAWW 350.1	
Distillation, Ammonia			Distill/Ammonia
Acidity	TAL PIT	SM SM 2310B	
Alkalinity	TAL PIT	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL PIT	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL PIT	SM SM 2540D	
pH	TAL PIT	SM SM 4500 H+ B	
Methylene Blue Active Substances (MBAS)	TAL PIT	SM SM 5540C	
Gasoline Range Organics - (GC)	TAL BUF	SW846 8015B	
Purge and Trap	TAL BUF		SW846 5030B
Glycols -Direct Injection (GC/FID)	TAL BUF	SW846 8015B	
8015 Direct Injection Prep (Aqueous)			SW846 8015 Prep
Dissolved Gases (GC)	TAL BUF	RSK RSK-175	
Diesel Range Organics (DRO) (GC)	TAL BUF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)			SW846 3510C

Lab References:

TAL BUF = TestAmerica Buffalo

TAL PIT = TestAmerica Pittsburgh

METHOD SUMMARY

Client: URS Corporation

Job Number: 180-3644-1

Description	Lab Location	Method	Preparation Method

Method References:

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 180-3644-1

Method	Analyst	Analyst ID
SW846 8260B	Lipay, Josh	JL
SW846 8270C LL	Piccolino, Vincent	VP
SW846 8015B	Neary, Mary Ann	MN
RSK RSK-175	Michalek, Jason	JM
SW846 8011	DeRubeis, James D	JDD
SW846 8015B	Dosier, Christina	CD
SW846 6020	Rosenbaum, Ron	RR
SW846 7470A	Swanson, Jim	JS
1664A 1664A	McLaughlin, Jeremiah W	JWM
MCAWW 300.0	Waclaski, Linx	lw
MCAWW 350.1	Kieda, Chuck	CK
SM SM 2310B	Loheyde, Cheryl	CL
SM SM 2320B	Loheyde, Cheryl	CL
SM SM 2540C	Kunkle, Sarah	SK
SM SM 2540D	Kunkle, Sarah	SK
SM SM 4500 H+ B	Kunkle, Sarah	SK
SM SM 4500 H+ B	Roffol, Sandy L	SLR
SM SM 5540C	Roffol, Sandy L	SLR