DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

Rec'd 10-9-07
Scl-Berk

~TCLP-Creo DF Comp. 2+3

~Total-Creo-DF Comp 2-3

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLES AR00065-AR00071

   SAMPLE AUTHORIZATION NO.: 07SC0011

   SAMPLES INCLUDED IN THIS ANALYTICAL BATCH : AR00065, AR00066, AR00067, AR00068, AR00069, AR00070 and AR00071

2. SAMPLES WERE FROM UCCE RICHMOND FIELD STATION (C/O STEVE QUARIES)

   WOOD SAMPLES WERE CUT ON 6/29/2007 AND 7/12/2007 AND GROUND ON 7/17/2007

   TCLP SAMPLES WERE PREPARED ON 7/12/2007 TO 7/17/2007

3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS MARTIN SNIDER

4. SAMPLES WERE:

   RECEIVED ON 7/18/2007 BY ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH

   TCLP EXTRACTS (AR00065-AR00069) WERE EXTRACTED ON 7/23 - 7/24/2007 BY EPA METHOD 3510 (SEPARATORY FUNNEL LIQ/LIQ EXTRACTION).

   WOOD SAMPLES (AR00070-AR00071) WERE EXTRACTED ON 8/1-8/6/2007 BY EPA METHOD 3540 (SOHXLET EXTRACTION) AND CLEANUP BY EPA METHOD 3640 (GEL PERMEATION COLUMN CLEANUP) ON 8/8-8/13/2007

   SAMPLES AR00065-AR00071 WERE ANALYZED ON 8/24/2007, 8/27/2007 AND 9/10/2007 BY EPA METHOD 8270C (SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS)

   DATA PACKAGE WAS COMPLETED ON 9/27/2007

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CASE NARRATIVE (CONT'D)

5. DURING THE COURSE OF THESE ANALYSES, THE TREATED WOOD SAMPLES (AR00070 and AR00071) HAD CONSIDERABLE BACKGROUND. ADDITIONAL TARGET COMPOUNDS MAYBE PRESENT BUT CANNOT BE BE CONFIRMED DUE TO THE HIGH BACKGROUND.

6. FOR THE QC PARAMETERS / INDICATORS:

FOR THE WOOD SAMPLES (AR00070 & AR00071), THE METHOD STANDARDS AND LABORATORY CONTROL SAMPLES, 1,4-DICHLOROBENZENE AND PENTACHLOROPHENOL RECOVERIES WERE LOW.

FOR THE WOOD SAMPLE (AR00071), THERE WERE SOME NON-TARGET COMPOUNDS PRESENT AT HIGH CONCENTRATIONS THAT INTERFERED WITH THE MATRIX SPIKE COMPOUNDS CAUSING PROBLEMS IN CALCULATING MATRIX SPIKE RECOVERIES

FOR THE WOOD SAMPLE BATCH (AR00070-AR00071), A FEW OF THE SURROGATES IN THE QC SAMPLES WERE OUT OF CONTROL LIMITS. THE OUT OF CONTROL LIMITS COMPOUNDS WERE: 2-FLUOROPHENOL FOR METHOD STANDARD RECOVERY (MSR) AND LABORATORY CONTROL SAMPLE (LCS), NITROBENZENE-D5 FOR BLANK,MSR AND LCS, 2-FLUOROBIPHENOL FOR MSR, AR00068MS AND MSD, 2,4,6-TRIBROMOPHENOL FOR AR00068, AR00068MS AND AR00068MSD

7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE LARGELY MET.

8A. EXTRACTION HOLDING TIME WAS NOT MET FOR TCLP EXTRACT SAMPLES (AR00065-AR00067). SAMPLES WERE EXTRACTED ON 7/23.2007 (10 DAYS)

8B. EXTRACTION HOLDING TIME WAS NOT MET FOR WOOD SAMPLES (AR00070-AR00071). SAMPLES WERE EXTRACTED (COMPLETED) ON 8/6/2007 (20 DAYS AFTER GRINDING).

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EPA 8270C FOR SAMPLES AR00065-AR00071

TOTAL PAGES = 16

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Environmental Chemistry Laboratory

ENVIRONMENTAL CHEMISTRY LABORATORY
SAMPLE ANALYSIS REQUEST

1. Authorization Number: 07SC0011

ECL No.: AR00065 To AR00071

2. Page 1 of 1

3. Requestor: (to Receive Results)
a. Name: Martin Snider
b. Address: 700 Heinz Ave., Suite 100 (street number)
Berkeley, CA 94710 (city, state, zip)
c. Phone: (510) 849-5258 (area code first) d. Fax: 510-540-2505 (area code first)
e. Email: msnider @dtsc.ca.gov

4. Program/Activity: HWM-RPD
5. TAT Level: 2
*Unit Chief's Signature:
(if TAT level = 1)

6. Sampling Information:
a. Date/Time Sampled: (mm/dd/yy) (#:## AM/PM)
b. Location: EPA ID No.
Site: UCCE Richmond Field Station c/o Steve Quarles
Address: 1301 South 46th Street, Building 478 (street number)
Richmond, CA 94804 (city, state, zip)
GPS-Lat: GPS-Long:
GPS-Alt: GPS-Depth:

7. Codes (select from drop down list or fill in if applicable)
a. Office: HWM 05--HQ Units
b. INDEX:
c. PCA: 22090
d. MPC:
e. SITE:
f. County:

8. Samples:

a.ID	b. Collector's No.	c. ECL No.	d. Matrix	e. Container Size	f. Number of containers	g. Preservative / Field Information
AR00065 1	TCLP Ext. Blank		Aq. Liq.	~~2x~~ 1 QT	2	TCLP 7/12-13
AR00066 2	TCLP Ext. DF Creosote - Comp. 2a					cut 6/24; TCLP 7/12-13
AR00067 3	"	"	- Comp. 2b			" "
AR00068 4	TCLP Ext. DF Creosote - Comp. 3a					cut 7/12; TCLP 7/16-17
AR00069 5	"	"	- Comp 3b			" "
AR00070 6	DF Creosote - Comp. 2		Wood	16 oz	1	cut 6/24; ground 7/17
AR00071 7	DF Creosote - Comp. 3		"	"	1	cut 7/12; ground 7/17
8						
9						

2 cans " "

9. Analysis Requested: Enter sample IDs and sample ID ranges separated by commas. For example, 1-3, 5-7, 9

a. Inorganic Analysis	Sample(s) ID	b. Organic Analysis	Sample(s) ID
		8270 - SVOC	1-7
Other Metals:			
c. TCLP Analysis		d. Other Analysis	
TC org. (SVOC only)	1-5		

FIELD

e. Comments for Multiphasic Samples/Analysis Priority:

10. Analysis Objective: Waste classification, regulatory development.

11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.)
TC rule for TCLP

12. Supplemental Requests: Enter sample IDs as described in Item 9

Desired Analysis	Sample(s) ID

Initials:
Date:

ECL

13. ECL Lab Remarks:
1) Ext #1-3 by 7/20 (7 day hold)
2) id and quantify non-TC cmpds in TCLP extracts

LAB

14. Chain of Custody:

	Name	Title	Signature	Inclusive Dates of Custody
a.	MSnider	RPM		6/29/07 to 7/17/07
b.	Barbara Bust	Lab Tech		7/18/07 to
c.				to
d.				to

COC

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
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1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

SCL NO. AR00065-AR00068

SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE REPORTED: 9/27/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

SVOCs BY GC/MS

							QUANTITATION LIMIT				
	SCL NO.		AR00065	AR00066	AR00067	AR00068		AR00065	AR00066	AR00067	AR00068
	COL. NO.	METHOD BLANK	TCLP Ext Blank	TCLP Ext DFCreosote	TCLP Ext DFCreosote	TCLP Ext DFCreosote	METHOD BLANK				
	MATRIX	DI Water	TCLP Ext	COMP 2A TCLP Ext	COMP 2B TCLP Ext	COMP 3A TCLP Ext	DI Water				
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
1,3-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BIS(2-CHLOROETHYL)ETHER		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
1,4-DICHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
1,2-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
HEXACHLOROETHANE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
[illegible]CHLOROISOPROPYL)ETHER		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
N-NITROSO-DI-N-PROPYLAMINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
NITROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
ISOPHORONE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BIS(2-CHLOROETHOXY)METHANE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
HEXACHLOROBUTADIENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
HEXACHLOROCYCLOPENTADIENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2-CHLORONAPHTHALENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DIMETHYLPHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2,6-DINITROTOLUENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
4-CHLOROPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2,4-DINITROTOLUENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DIETHYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE.AMOUNT REPORTED IS AN ESTIMATE

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sinn Oct. 2, 2007	K. Sinn Oct. 2, 2007	10/4/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
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TELEPHONE (213) 580-5797 OR (213) 977-7928

SCL NO.: AR00065-AR00068

SVOCs BY GC/MS

	SCL NO.		AR00065	AR00066	AR00067	AR00068	QUANTITATION LIMIT				
	COL. NO.	METHOD BLANK	TCLP Ext Blank	TCLP Ext DFCreosote	TCLP Ext DFCreosote	TCLP Ext DFCreosote	METHOD BLANK	AR00065	AR00066	AR00067	AR00068
	MATRIX	DI Water	TCLP Ext	COMP 2A TCLP Ext	COMP 2B TCLP Ext	COMP 3A TCLP Ext	DI Water				
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
N-NITROSODIPHENYLAMINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
4-BROMOPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
HEXACHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DI-N-BUTYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BUTYL BENZYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BIS(2-ETHYL HEXYL)PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
3,3-DICHLOROBENZIDINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DI-N-OCTYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
NAPHTHALENE		ND	ND	**3.7****	**3.0****	**4.1****	0.04	0.04	0.04	0.04	0.04
ACENAPHTHALENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
CENAPHTHENE		ND	ND	**0.39**	**0.23**	**0.29**	0.04	0.04	0.04	0.04	0.04
FLUORENE		ND	ND	**0.16**	**0.11**	**0.13**	0.04	0.04	0.04	0.04	0.04
PHENANTHRENE		ND	ND	**0.20**	**0.14**	**0.17**	0.04	0.04	0.04	0.04	0.04
ANTHRACENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
FLUORANTHENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
PYRENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BENZO(A)ANTHRACENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
CHRYSENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BENZO(B)FLUORANTHENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BENZO(K)FLUORANTHENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BENZO(A)PYRENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
IDENO(1,2,3-CD)PYRENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DIBENZ(A,H)ANTHRACENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
BENZO(GHI)PERYLENE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04

NOTES: ND=NOT DETECTED MG/LG=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

( )=ESTIMATED VALUE

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sinn Oct. 2, 2007	K. Sinn Oct. 2, 2007	10/2/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

S. .Cs BY GC/MS

							QUANTITATION LIMIT				
	SCL NO.		AR00065	AR00066	AR00067	AR00068		AR00065	AR00066	AR00067	AR00068
	COL. NO.	METHOD	TCLP Ext	TCLP Ext	TCLP Ext	TCLP Ext	METHOD				
		BLANK	Blank	DFCreosote	DFCreosote	DFCreosote	BLANK				
	MATRIX	DI Water	TCLP Ext	COMP 2A TCLP Ext	COMP 2B TCLP Ext	COMP 3A TCLP Ext	DI Water				
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
2-CHLOROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
PHENOL		ND	ND	**1.0**	**0.75**	**1.3****	0.04	0.04	0.04	0.04	0.04
2-NITROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2,4-DIMETHYL PHENOL		ND	ND	**0.50**	**0.49**	**0.56**	0.04	0.04	0.04	0.04	0.04
2,4-DICHLOROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
4-CHLORO-3-METHYL PHENOL		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2,4-DINITROPHENOL		ND	ND	ND	ND	ND	0.50	0.50	0.50	0.50	0.50
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND	ND	ND	0.50	0.50	0.50	0.50	0.50
4-NITRO PHENOL		ND	ND	ND	ND	ND	0.50	0.50	0.50	0.50	0.50
PENTACHLORO PHENOL (TCLP)		ND	ND	ND	ND	ND	0.50	0.50	0.50	0.50	0.50
BE[illegible]YL ALCOHOL		ND	ND	**0.10**	**0.18**	ND	0.04	0.04	0.04	0.04	0.04
2-[illegible]HYLPHENOL (TCLP)		ND	ND	**0.64**	**0.55**	**0.63**	0.04	0.04	0.04	0.04	0.04
4 &/OR 3-METHYLPHENOL (TCLP)		ND	ND	**1.5****	**1.3****	**1.8****	0.04	0.04	0.04	0.04	0.04
CARBAZOLE		ND	ND	**0.34**	**0.23**	**0.26**	0.04	0.04	0.04	0.04	0.04
4-CHLOROANILINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2-METHYL NAPHTHALENE		ND	ND	**0.44**	**0.35**	**0.49**	0.04	0.04	0.04	0.04	0.04
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
2-NITROANILINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
DIBENZOFURAN		ND	ND	**0.17**	**0.13**	**0.14**	0.04	0.04	0.04	0.04	0.04
3-NITROANILINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04
4-NITROANILINE		ND	ND	ND	ND	ND	0.04	0.04	0.04	0.04	0.04

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

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** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Li Oct. 2, 2007	K. Li Oct. 2, 2007	10/2/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER
SCL NO. AR00069-AR00071
SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804
DATE REPORTED: 9/27/2007

METHODS:

EPA METHOD 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510	SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
EPA METHOD 3540	SOHXLET EXTRACTION
EPA METHOD 3640	GEL PERMEATION COLUMN CLEANUP

SVOCs BY GC/MS

							QUANTITATION LIMIT				
	SCL NO.		AR00069	AR00070	AR00071			AR00069	AR00070	AR00071	
	COL. NO.	METHOD BLANK	TCLP Ext DFCreosote	DFCreosote Comp 2	DFCreosote Comp 3	METHOD BLANK	METHOD BLANK				METHOD BLANK
	MATRIX	DI Water	COMP 3B LIQ EXTRACT	WOOD	WOOD	SAND	WATER				SAND
ANALYTE	UNIT	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG
1,3-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
BIS(2-CHLOROETHYL)ETHER		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
1,4-DICHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
1,2-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
HEXACHLOROETHANE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
P CHLOROISOPROPYL)ETHER		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
N-NITROSO-DI-N-PROPYLAMINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
NITROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
ISOPHORONE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
BIS(2-CHLOROETHOXY)METHANE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
HEXACHLOROBUTADIENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
HEXACHLOROCYCLOPENTADIENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2-CHLORONAPHTHALENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
DIMETHYLPHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2,6-DINITROTOLUENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
4-CHLOROPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2,4-DINITROTOLUENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
DIETHYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2

NOTES: ND=NOT DETECTED MG/KG=MILLIGRAM PER KILOGRAM AND MG/L=MILLIGRAM PER LITER
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)
* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE.AMOUNT REPORTED IS AN ESTIMATE
** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sinn Oct. 2, 2007	K. Sinn Oct. 2, 2007	10/2/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

SCL NO.: AR00069-AR00071

SVOCs BY GC/MS

							QUANTITATION LIMIT				
	SCL NO.		AR00069	AR00070	AR00071			AR00069	AR00070	AR00071	
	COL. NO.	METHOD BLANK	TCLP Ext DFCreosote	DFCreosote Comp 2	DFCreosote Comp 3	METHOD BLANK	METHOD BLANK				METHOD BLANK
	MATRIX	Sand	COMP 3B LIQ EXTRACT	WOOD	WOOD	SAND	DI Water				SAND
ANALYTE	UNIT	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG
N-NITROSODIPHENYLAMINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
4-BROMOPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
HEXACHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
DI-N-BUTYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
BUTYL BENZYL PHTHALATE		ND	ND	**25**	ND	ND	0.04	0.04	4	4	2
BIS(2-ETHYL HEXYL)PHTHALATE		**4.4**	ND	ND	ND	ND	0.04	0.04	4	4	2
3,3-DICHLOROBENZIDINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
DI-N-OCTYL PHTHALATE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
NAPHTHALENE		ND	**3.3****	**3100**	**3200**	ND	0.04	0.04	100	100	2
ACENAPHTHALENE		ND	ND	**83**	**49**	ND	0.04	0.04	4	4	2
ACENAPHTHENE		ND	**0.27**	**1800**	**1600**	ND	0.04	0.04	100	100	2
FLUORENE		ND	**0.13**	**1400**	**1300**	ND	0.04	0.04	100	100	2
PHENANTHRENE		ND	**0.18**	**3900**	**3300**	ND	0.04	0.04	100	100	2
ANTHRACENE		ND	ND	**1200**	**1200**	ND	0.04	0.04	100	100	2
FLUORANTHENE		ND	ND	**2500**	**2100**	ND	0.04	0.04	100	100	2
PYRENE		ND	ND	**2000**	**1700**	ND	0.04	0.04	100	100	2
BENZO(A)ANTHRACENE		ND	ND	**620**	ND	ND	0.04	0.04	4	4	2
CHRYSENE		ND	ND	**660**	**510**	ND	0.04	0.04	100	100	2
BENZO(B)FLUORANTHENE		ND	ND	**490**	**360**	ND	0.04	0.04	100	100	2
BENZO(K)FLUORANTHENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
BENZO(A)PYRENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
IDENO(1,2,3-CD)PYRENE		ND	ND	**92**	**66**	ND	0.04	0.04	4	4	2
DIBENZ(A,H)ANTHRACENE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
BENZO(GHI)PERYLENE		ND	ND	**83**	**53**	ND	0.04	0.04	4	4	2

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER MG/KG=MILLIGRAM PER KILOGRAM

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
N. Sinn Oct. 2, 2007	N. Sinn Oct. 2, 2007	10/2/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

OCs BY GC/MS

							QUANTITATION LIMIT				
	SCL NO.		AR00069	AR00070	AR00071			AR00069	AR00070	AR00071	
	COL. NO.	METHOD	TCLP Ext	DFCreosote	DFCreosote	METHOD	METHOD				METHOD
		BLANK	DFCreosote	Comp 2	Comp 3	BLANK	BLANK				BLANK
	MATRIX	DI Water	COMP 3B LIQ EXTRACT	WOOD	WOOD	SAND	WATER				SAND
ANALYTE	UNIT	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG
2-CHLOROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
PHENOL		ND	**0.82**	**53**	**69**	ND	0.04	0.04	4	4	2
2-NITROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2,4-DIMETHYL PHENOL		ND	**0.34**	**70**	**74**	ND	0.04	0.04	4	4	2
2,4-DICHLOROPHENOL		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
4-CHLORO-3-METHYL PHENOL		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2,4-DINITROPHENOL		ND	ND	ND	ND	ND	0.50	0.50	50	50	25
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND	ND	ND	0.50	0.50	50	50	25
4-NITRO PHENOL		ND	ND	ND	ND	ND	0.50	0.50	50	50	25
PENTACHLORO PHENOL (TCLP)		ND	ND	ND	ND	ND	0.50	0.50	50	50	25
BENZYL ALCOHOL		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
METHYLPHENOL (TCLP)		ND	**0.40**	**32**	**32**	ND	0.04	0.04	4	4	2
4 &/OR 3-METHYLPHENOL (TCLP)		ND	**1.1**	**91**	**100**	ND	0.04	0.04	4	4	2
CARBAZOLE		ND	**0.24**	**480**	**460**	ND	0.04	0.04	4	4	2
4-CHLOROANILINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2-METHYL NAPHTHALENE		ND	**0.40**	**1400**	**1400**	ND	0.04	0.04	100	100	2
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
2-NITROANILINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
DIBENZOFURAN		ND	**0.14**	**1200**	**1000**	ND	0.04	0.04	100	100	2
3-NITROANILINE		ND	ND	ND	ND	ND	0.04	0.04	4	4	2
4-NITROANILINE		ND	ND	**48**	**46**	ND	0.04	0.04	4	4	2

NOTES: CLEANUP PROCEDURE PERFORMED ON AR00070, AR00070 DUPLICATE, AR00071, AR00071MS & AR00071MSD

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER MG/KG=MILLIGRAM PER KILOGRAM

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

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** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYTES IN **BOLD** FOLLOWED BY "**(TCLP)**" ARE ON TC RULE LIST.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sinn Oct. 2, 2007	K. Sinn Oct. 2, 2007	10/2/07
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-9728

REQUESTER: MARTIN SNIDER

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE RECEIVED: 7/18/2007

DATE SAMPLE PREPARED: 7/23/2007-7/24/2007

DATE SAMPLE ANALYZED: 8/24/2007 & 8/27/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

QC REPORT FOR

A: METHOD STANDARD RECOVERY
B: LABORATORY CONTROL SAMPLE
C: SAMPLE DUPLICATE ANALYSIS

	A		B	
	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
	RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
ANALYTE	%	%	UG/L	UG/L
PHENOL	76.2	33.6-124	620	560-1040
2-CHLOROPHENOL	102	64.8-129	840	560-1040
1,4-DICHLOROBENZENE	92	25.3-132	370	280-520
N-NITROSO-DI-N-PROPYLAMINE	102	64.9-132	420	280-520
1,2,4-TRICHLOROBENZENE	95.0	41.2-124	380	280-520
4-CHLORO-3-METHYL PHENOL	106	68.0-119	850	560-1040
ACENAPHTHENE	100	61.9-125	410	280-520
4-NITROPHENOL	82.4	27.9-103	640	560-1040
2,4-DINITROTOLUENE	107	67.9-118	440	280-520
PENTACHLOROPHENOL	68.5	60.1-124	*450	*560-1040
PYRENE	106	71.0-126	430	280-1040

C			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : SCL NO. AR00066			
MATRIX : TCLP Extract			
	RUN 1	RUN 2	RPD
COMPOUND	UG/L	UG/L	%
Phenol	1000	920	8.3
2-Methyl Phenol	640	600	6.4
4-Methyl Phenol	1500	1400	6.9
2,4-DimethylPhenol	500	490	2.0
2-Methyl Naphthalene	440	410	7.1
Acenaphthene	390	350	10.8
Phenanthrene	200	180	11
Carbazole	340	310	9.2

[ ] NOT ANALYZED (SEE NOTES)

NOTE: * = OUTSIDE ESTABLISHED CONTROL LIMIT.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sin 10/2/07	K. Sin Oct. 2, 2007	10/2/07
YUE-DONG MEN DATE	KENNETH SINN DATE	RUSS CHIN DATE
KENNETH SINN		

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-9728

REQUESTER: MARTIN SNIDER

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE RECEIVED: 7/18/2007

DATE SAMPLE PREPARED: 8/1/2007-8/13/2007

DATE SAMPLE ANALYZED: 8/27/2007 & 9/10/2007

METHODS:

EPA METHOD 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540	SOXHLET EXTRACTION
EPA METHOD 3640	GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

A: METHOD STANDARD RECOVERY
B: LABORATORY CONTROL SAMPLE
C: SAMPLE DUPLICATE ANALYSIS

	A		B	
	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
	RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
ANALYTE	%	%	MG/KG	MG/KG
PHENOL	71.8	59.8-117	31.9	28-52
2-CHLOROPHENOL	63.9	50.7-137	30.5	28-52
1,4-DICHLOROBENZENE	7.1*	25.8-100	2.79*	14-26
N-NITROSO-DI-N-PROPYLAMINE	83.5	60.8-115	16.8	14-26
1,2,4-TRICHLOROBENZENE	50.9	48.2-115	12.2*	14-26
4-CHLORO-3-METHYL PHENOL	84.9	68.6-117	36.1	28-52
ACENAPHTHENE	90.9	77.8-111	19.3	14-26
4-NITROPHENOL	86.5	60.0-128	38.3	28-52
2,4-DINITROTOLUENE	96.6	73.0-119	20.1	14-26
PENTACHLOROPHENOL	29.2*	64.7-125	13.5*	28-52
PYRENE	93.5	73.1-117	19.4	14-26

C			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON : SCL NO. AR00070			
MATRIX : WOOD			
	RUN 1	RUN 2	RPD
COMPOUND	MG/KG	MG/KG	%
2-Methyl Phenol	31.9	39.2	20
4-Methyl Phenol	91.2	111	19.6
Acenphthylene	83.5	100	18
Naphthalene	3106	3282	5.5
Acenaphthene	1825	1522	18.1
Dibenzofuran	1228	1363	10.4
Fluorene	1422	1567	9.7
Fluoranthene	2474	2631	6.1
Pyrene	2038	2164	6

[ ] NOT ANALYZED (SEE NOTES)

NOTE: * = OUTSIDE ESTABLISHED CONTROL LIMIT.

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sin 10/2/07	K. Sin Oct. 2, 2007	10/2/07
YUE-DONG MEN DATE	KENNETH SINN DATE	RUSS CHIN DATE
KENNETH SINN		

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

R. JESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 7/18/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/22/2007-7/24/2007

DATE SAMPLE ANALYZED: 8/24/2007-8/27/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AR00068 ☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX TCLP EXTRACT

			MATRIX SPIKE		MATRIX SPIKE DUPLICATE					
	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC	AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
COMPOUND	UG/L	UG/L	UG/L	%	UG/L	%	%	%	%	%
PHENOL	1200	800	2000	100	2000	100	100	57.0-119	0	25
2-CHLOROPHENOL	<40	800	840	105	870	109	107	81.9-119	3.7	25
1 CHLOROBENZENE	<40	400	410	103	400	100	101	24.1-134	2.9	25
N-NITROSO-DI-N-PROPYLAMINE	<40	400	78	20*	81	20*	20*	76.1-121	0	25
1,2,4-TRICHLOROBENZENE	<40	400	390	98	390	98	98	46.8-123	0	25
4-CHLORO-3-METHYL PHENOL	<40	800	860	108	910	114	111	71.6-120	5.4	25
ACENAPHTHENE	290	400	760	118	780	122*	120*	66.9-119	3.3	25
4-NITROPHENOL	<500	800	1300	163*	1300	163*	163*	38.2-116	0	25
2,4-DINITROTOLUENE	<40	400	460	115	500	125	120	62.7-125	8.3	25
PENTACHLOROPHENOL	<500	1200	2200	180*	2200	180*	195*	66.3-124	0	25
PYRENE	<40	800	430	54*	460	58*	56*	66.8-129	7.1	25
O-CRESOL	630	400	1040	102	1020	97	100	66.3-124	5	25
M+P-CRESOL	1800	800	2500	88	2500	88	88	66.3-124	0	25
2,4,5-TRICHLOROPHENOL	<40	400	420	105	420	105	195*	66.3-124	0	25
2,4,6-TRICHLOROPHENOL	<40	400	390	98	390	98	98	66.3-124	0	25

NOTE: * = OUTSIDE OF CONTROL LIMIT.

NOTE: **THE SPIKE COMPOUND IN BOLD WERE THE TCLP SPIKE COMPOUNDS**

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
K. Lin 10/2/07		K. Sinn Oct. 2, 2007		10/2/07	
YUF DONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

RL JESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 7/18/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 8/1/2007-8/13/2007

DATE SAMPLE ANALYZED: 8/27/2007-9/10/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQ./LIQ. EXTRACTION

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON AR00071

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX Wood

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE MG/KG	AMOUNT OF ANALYTE ADDED MG/KG	MATRIX SPIKE AMOUNT RECOVERED MG/KG	MATRIX SPIKE %REC %	MATRIX SPIKE DUPLICATE AMOUNT RECOVERED MG/KG	MATRIX SPIKE DUPLICATE %REC %	AVE % REC %	CONTROL LIMITS FOR % REC %	R % D BETWEEN MS/MSD %	CONTROL LIMITS FOR RPD %
PHENOL	<2	40	SEE NOTE BELOW					57.0-125		25
2-CHLOROPHENOL	<2	40	SEE NOTE BELOW					54.9-118		25
1,4-DICHLOROBENZENE	<2	20	SEE NOTE BELOW					38.3-117		25
N-NITROSO-DI-N-PROPYLAMINE	<2	20	SEE NOTE BELOW					48.9-137		25
1,2,4-TRICHLOROBENZENE	<2	20	SEE NOTE BELOW					63.3-107		25
4-CHLORO-3-METHYL PHENOL	<2	40	SEE NOTE BELOW					60.8-132		25
ACENAPHTHENE	<2	20	SEE NOTE BELOW					74.4-114		25
4-NITROPHENOL	<25	40	SEE NOTE BELOW					35.5-148		25
2,4-DINITROTOLUENE	<2	20	SEE NOTE BELOW					54.3-129		25
PENTACHLOROPHENOL	<25	60	SEE NOTE BELOW					48.5-134		25
PYRENE	<2	40	SEE NOTE BELOW					52.4-131		25

NOTE: THERE WERE HIGH CONCENTRATIONS OF OTHER NON-TARGET ANALYTES IN THE WOOD SAMPLE THAT INTERFERRED WITH THE MATRIX SPIKE COMPOUNDS, THUS CAUSING PROBLEMS IN OBTAINING MATRIX SPIKE RECOVERIES FOR SAMPLE AR00071. WITH 1:50 DILUTION, THE ADDED SPIKE AMOUNT WAS DILUTED BELOW THE LOWEST CALIBRATION STANDARD, THERFORE NO SPIKE RECOVERIES AVAILABLE FOR QUALITY CONTROL CALCULATION

SAMPLE PREPARATION	ANALYST	SUPERVISOR
K. Sin 10/2/07	K. Sin Oct. 2, 2007	10/2/07
YUE-DONG MEN DATE KENNETH SINN	KENNETH SINN DATE	RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 7/18/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 7/23/2007 & 7/24/2007

DATE SAMPLE ANALYZED: 8/24/2007 & 8/27/2007

METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3510 SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC SAMPLES OR SAMPLE NO.	2-FLUORORPHENOL			PHENOL - d6			NITROBENZENE - d5			2 - FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC	UG/L	UG/L	% REC
METHOD BLANK	800	699	87.5	800	601	75.3	400	405	101	400	401	100	800	553	69.3
METHOD STANDARD	800	684	85.5	800	597	74.8	400	376	94	400	394	98.5	800	865	108
LCS	800	777	97.3	800	664	83	400	420	105	400	454	114	800	960	120
J0065	800	676	85	800	588	73.5	400	399	100	400	421	106	800	811	102
AR00066	800	684	85.5	800	604	75.5	400	367	92	400	433	108	800	894	112
AR00066 DUP	800	665	83.3	800	568	71	400	358	89.5	400	406	102	800	831	104
AR00067	800	574	71.8	800	508	63.5	400	304	76	400	345	86	800	746	93.3
AR00069	800	693	86.5	800	634	79.2	400	396	99	400	420	105	800	908	114
AR00068	800	731	92.5	800	662	82.8	400	424	106.0	400	442	110	800	965	120*
AR00068MS	800	783	97.5	800	706	88.3	400	443	111.0	400	488	122*	800	1016	128*
AR00068MSD	800	739	92.5	800	678	84.8	400	438	110	400	482	121*	800	973	122*
CONTROL LIMIT FOR %REC	71.5-122			40.5-123			72.9-118			74.2-112			60.4-110		

NOTES: * = OUTSIDE OF CONTROL LIMIT.

SAMPLE PREPARATION ANALYST SUPERVISOR

M. Li 10/2/07
YUE-DONG MEN DATE
KENNETH SINN

M. Sinn Oct. 2, 2007
KENNETH SINN DATE

10/2/07
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES BRANCH
1449 WEST TEMPLE STREET, LOS ANGELES CA 90026
TELEPHONE (213) 580-5797 OR (213) 977-7928

REQUESTER: MARTIN SNIDER

DATE SAMPLE RECEIVED: 7/18/2007

SAMPLING LOCATION: UCCE RICHMOND FIELD STATION
1301 SOUTH 46TH STREET, BLDG 478
RICHMOND, CA 94804

DATE SAMPLE PREPARED: 8/1/2007-8/13/2007

DATE SAMPLE ANALYZED: 8/27/2007-9/10/2007

METHODS:

EPA METHOD 8270C	SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
EPA METHOD 3540	SOXHLET EXTRACTION
EPA METHOD 3640	GEL PERMEATION CLEANUP

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC SAMPLES OR SAMPLE NO.	2-FLUORORPHENOL			PHENOL - d6			NITROBENZENE - d5			2 - FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	MG/L	MG/KG	MG/KG	% REC
METHOD BLANK	40	30	75.0	40	32.4	81.0	20	12.9	64.5*	20	20.4	102	40	29.4	73.5
METHOD STANDARD	40	14	35*	40	22.6	56.5	20	4.2	20.8*	20	12	60*	40	35.1	87.8
[illegible]	40	18	45*	40	24.7	61.8	20	7.2	36*	20	16	80	40	35.9	89.8
AR00070	40	SEE NOTE **		40	SEE NOTE **		20	SEE NOTE **		20	SEE NOTE **		40	SEE NOTE **	
AR00070 DUP	40	SEE NOTE **		40	SEE NOTE **		20	SEE NOTE **		20	SEE NOTE **		40	SEE NOTE **	
AR00071	40	SEE NOTE **		40	SEE NOTE **		20	SEE NOTE **		20	SEE NOTE **		40	SEE NOTE **	
CONTROL LIMIT FOR %REC	38.6-149			56.7-141			38.2-138			60.1-123			41.6-128		

NOTE: * = OUTSIDE OF CONTROL LIMIT.

NOTE: ** = DUE TO HIGH BACKGROUND SURROGATES RECOVERIES WERE NOT DETERMINED

SAMPLE PREPARATION		ANALYST		SUPERVISOR	
[signature] 10/2/07		[signature] Oct. 2, 2007		[signature] 10/2/07	
YI [illegible] ONG MEN	DATE	KENNETH SINN	DATE	RUSS CHIN	DATE
KE [illegible] ETH SINN					