

Ap. 4.3.4

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

**SUPPLEMENTAL REPORT
CASE NARRATIVE**

1. CREOSOTE WOOD SAMPLE RESULTS PREVIOUSLY REPORTED IN SEPTEMBER AND OCTOBER, 2007 WERE REPROCESSED. THE REPROCESSING WAS DONE IN ORDER TO EVALUATE WHETHER THE SAMPLE QUANTITATION LIMITS COULD HAVE BEEN LOWERED. IT WAS POSSIBLE TO REPORT A LOWER QUANTITATION LIMIT FOR *PENTACHLOROPHENOL* BECAUSE LOWER LEVEL STANDARDS WERE ANALYZED BUT NOT USED IN THE ORIGINAL REPORT CALIBRATION. THE DATA THAT HAVE BEEN REPROCESSED ARE REPORTED HERE. THE ONLY NEW INFORMATION IN THIS SUPPLEMENTAL REPORT ARE THE NEW QUANTITATION LIMITS FOR *PENTACHLOROPHENOL*.

2. THIS SUPPLEMENTAL ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLES AQ02212 - AQ02215
AR00070 - AR00071
SAMPLE AUTHORIZATION NO.: 06SC0279 & 07SC0011
SAMPLES INCLUDED IN THIS ANALYTICAL BATCH : AQ02212, AQ02213, AQ02214, AQ02215,
AR00070 & AR00071

3. SAMPLES WERE FROM: UCCE RICHMOND FIELD STATION (C/O STEVE QUARIES)
WOOD SAMPLES WERE COLLECTED AND GROUND ON VARIOUS DATES.

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

5. SAMPLES AQ02212-AQ02215 WERE RECEIVED ON 6/28/2007 AND
SAMPLES AR00070-AR00071 WERE RECEIVED ON 7/18/2007 BY
ENVIRONMENTAL CHEMISTRY LABORATORY-LOS ANGELES
WOOD SAMPLES (AQ02212-AQ02215) WERE:
EXTRACTED ON 7/2/2007-7/3/2007 BY EPA METHOD 3540 (SOXHLET EXTRACTION)
CLEANUP ON 7/10/2007 BY EPA METHOD 3640 (GEL PERMEATION COLUMN CLEANUP)
ANALYZED ON 7/13/2007 & 7/18/2007 BY EPA METHOD 8270C (SEMIVOLATILE ORGANIC COMPOUNDS
BY GC/MS)
WOOD SAMPLES (AR00070-AR00071) WERE:
EXTRACTED ON 8/1/2007-8/6/2007 BY EPA METHOD 3540 (SOXHLET EXTRACTION)
CLEANUP ON 8/8/2007-8/13/2007 BY EPA METHOD 3640 (GEL PERMEATION COLUMN CLEANUP)
ANALYZED ON 8/24/2007, 8/27/2007 & 9/10/2007 BY EPA METHOD 8270C (SEMIVOLATILE ORGANIC
COMPOUNDS BY GC/MS)
SUPPLEMENTAL DATA PACKAGE WAS COMPLETED ON 7/10/2008

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INDEX

EPA 8270C FOR SAMPLES AQ02212, AQ02213, AQ02214, AQ002215, AR00070 & AR00071

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TOTAL PAGES = 10

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST		1. Authorization Number 06SC0279	ECL No.: <u>AQ02218</u> To <u>AQ02218</u>	2. Page 1 of 1		
3. Requestor:(to Receive Results) a. Name: <u>Martin Snider</u> b. Address: <u>700 Heinz Ave., Suite 100</u> (street number) <u>Bekeley, CA 94710</u> (city, state, zip) c. Phone: <u>(510) 849-5258</u> (area code first) d. Fax: <u>(510) 540-2305</u> (area code first) e. Email: <u>msnider</u> @dtsc.ca.gov			4. Program/Activity: <u>HWM-RPD</u> 5. TAT Level: <u>2</u> *Unit Chief's Signature: (if TAT level = 1)			
6. Sampling Information: a. Date/Time Sampled: <u>see 8(g)</u> (mm/dd/yy) b. Location: EPA ID No. _____ (#:# AM/PM) Site: <u>UCCE Richmond Field Station c/o Steve Quarles</u> Address: <u>1301 South 46th Street, Bldg. 478</u> (street number) <u>Richmond, CA 94804</u> (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 _____ b. INDEX _____ c. PCA <u>22090</u> 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
1	Oak Control	<u>AQ02212</u>	wood	16 oz clear glass jar	1	cut: 4/30/07 grd< 2mm: 5/30/07
2	DF Control	<u>AQ02213</u>	"	"	1	cut: 10/26/06 grd< 2mm: 6/26/07
3	Oak Creosote	<u>AQ02214</u>	"	"	1	cut: 5/17/07 grd< 2mm: 5/30/07
4	DF Creosote-Comp1	<u>AQ02215</u>	"	"	1	cut 6/15/07 grd<2mm 6/26/07
5	TCLP Ext. Blank	<u>AQ02216</u>	Aq. Liq.	<u>1</u> L PTFE jar	<u>2</u>	cut 6/17/07 TCLP 6/26/07
6	TCLP Ext. DF Control	<u>AQ02217</u>	Aq. Liq.	"	<u>2</u>	" "
7	TCLP Ext. DF Creosote-Comp1	<u>AQ02218</u>	Aq. Liq.	"	<u>2</u>	" "
8						
9						
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	
			GCMS--Semivolatiles(8270C)		1-4	
Other Metals:						
c. TCLP Analysis			d. Other Analysis			
Semivolatiles (do TCLP regardless)			5-7			
e. Comments for Multiphasic Samples/Analysis Priority:						
10. Analysis Objective: <u>Waste Characterization</u>						
11. Detection Limit Requirements: (Check ECL User's Manual to assure default DL is sufficient.) <u>TC limit for TCLP extracts</u>						
12. Supplemental Requests: Enter sample IDs as described in Item 9					13. ECL Lab Remarks: Must extract TCLP ext. by 7/4; vol. 1800 mL <u>There were 2 1-L jars @ for samples 5, 6 + 7</u>	
Desired Analysis		Sample(s) ID	Initials:			
			Date:			
14. Chain of Custody:						
Name	Title	Signature	Inclusive Dates of Custody			
a. <u>Martin Snider</u>	<u>RS II</u>	<u>[Signature]</u>	<u>10/26/06</u> to <u>6/28/07</u>			
b. <u>Barbara Bush</u>	<u>Lab Technician</u>	<u>[Signature]</u>	<u>6/28/07</u> to _____			
c.			to _____			
d.			to _____			

FIELD

LAB

COC

ENVIRONMENTAL CHEMISTRY LABORATORY SAMPLE ANALYSIS REQUEST	1. Authorization Number 07SC0011	ECL No.: <u>AR00065</u> To <u>AR00071</u>	2. Page 1 of 1
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3. Requestor: (to Receive Results) a. Name: <u>Martin Snider</u> b. Address: <u>700 Heinz Ave., Suite 100</u> (street number) <u>Berkeley, CA 94710</u> (city, state, zip) c. Phone: <u>(510) 849-5258</u> (area code first) d. Fax: <u>510-540-2505</u> (area code first) e. Email: <u>msnider</u> @dtscc.ca.gov	4. Program/Activity: <u>HWM-RPD</u> 5. TAT Level: <u>2</u> *Unit Chief's Signature: (if TAT level = 1)
---	--

6. Sampling Information: a. Date/Time Sampled: _____ (mm/dd/yy) b. Location: EPA ID No. _____ (#:# AM/PM) Site: <u>UCCE Richmond Field Station c/o Steve Quarles</u> Address: <u>1301 South 46th Street, Building 478</u> (street number) <u>Richmond, CA 94804</u> (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 <u>HWM 05--HQ Units</u> b. INDEX _____ c. PCA <u>22090</u> 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
1			<u>Ag. Liq.</u>	<u>2 x 1 qt</u>	<u>2</u>	<u>TCLP 7/12-13</u>
2			<u>DFCreosote - Comp. 2a</u>			<u>cut 6/29; TCLP 7/12-13</u>
3			<u>" - Comp. 2b</u>			<u>" "</u>
4			<u>TCLP Ext. DFCreosote - Comp. 3a</u>			<u>cut 7/12; TCLP 7/16-17</u>
5			<u>" - Comp. 3b</u>			<u>" "</u>
6			<u>DFCreosote - Comp. 2</u>	<u>wood</u>	<u>1603</u>	<u>cut 6/29; ground 7/17</u>
7			<u>DFCreosote - Comp. 3</u>	<u>"</u>	<u>"</u>	<u>cut 7/12; ground 7/17</u>
8						
9						

AR00065
 AR00066
 AR00067
 AR00068
 AR00069
 AR00070
 AR00071

2008
 "

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
			<u>8270 - SVOC</u>		<u>1-7</u>
Other Metals:					
c. TCLP Analysis			d. Other Analysis		
<u>TC org. (SVOC only) 1-5</u>					

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			E C L	13. ECL Lab Remarks:	
Desired Analysis	Sample(s) ID	Initials:		<u>1) Ext #1-3 by 7/20 (7 day hold)</u> <u>2) id and quantity non-TC comps in TCLP extracts</u>	
		Date:			

14. Chain of Custody:			
Name	Title	Signature	Inclusive Dates of Custody
a. <u>MSnider</u>	<u>RSR</u>	<u>[Signature]</u>	<u>6/29/07 to 7/17/07</u>
b. <u>[Signature]</u>	<u>Lab Tech</u>	<u>[Signature]</u>	<u>7/18/07 to</u>
c.			to
d.			to

REQUESTER: MARTIN SNIDER
 SCL NO. AQ02212-AQ02215
 SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
 1301 SOUTH 46TH STREET, BLDG 478
 RICHMOND, CA 94804
 DATE REPORTED: 7/10/2008
 METHODS: EPA METHOD 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
 EPA METHOD 3540 SOXHLET EXTRACTION
 EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

SVOCs BY GC/MS

ANALYTE	QUANTITATION LIMIT										
	SCL NO.	METHOD	AQ02212	AQ02213	AQ02214	AQ02215	METHOD	AQ02212	AQ02213	AQ02214	AQ02215
	COL. NO.		OAK	DF	OAK	DF CREOSOTE		BLANK			
	MATRIX	BLANK	CONTROL	CONTROL	CREOSOTE	-COMP1	BLANK				
UNIT	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	
1,3-DICHLOROBENZENE		ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-CHLOROETHYL)ETHER		ND	ND	ND	ND	ND	2	2	2	2	2
1,4-DICHLOROBENZENE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
1,2-DICHLOROBENZENE		ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROETHANE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
S(2-CHLOROISOPROPYL)ETHER		ND	ND	ND	ND	ND	2	2	2	2	2
N-NITROSO-DI-N-PROPYLAMINE		ND	ND	ND	ND	ND	2	2	2	2	2
NITROBENZENE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
ISOPHORONE		ND	ND	ND	ND	ND	2	2	2	2	2
1,2,4-TRICHLOROBENZENE		ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-CHLOROETHOXY)METHANE		ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROBUTADIENE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLOROCYCLOPENTADIENE		ND	ND	ND	ND	ND	2	2	2	2	2
2-CHLORONAPHTHALENE		ND	ND	ND	ND	ND	2	2	2	2	2
DIMETHYLPHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2
2,6-DINITROTOLUENE		ND	ND	ND	ND	ND	2	2	2	2	2
4-CHLOROPHENYL PHENYL ETHER		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DINITROTOLUENE (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
DIETHYL PHTHALATE		ND	ND	ND	ND	ND	2	2	2	2	2

NOTES: ND=NOT DETECTED 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

Yue-Dong Men 7/14/08
 YUE-DONG MEN DATE

Kenneth Sinn 7/14/08
 KENNETH SINN DATE

Russ Chin 7/14/08
 RUSS CHIN DATE

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SVOCs BY GC/MS

ANALYTE	SCL NO.						QUANTITATION LIMIT				
	COL. NO.	METHOD	AQ02212	AQ02213	AQ02214	AQ02215	METHOD	AQ02212	AQ02213	AQ02214	AQ02215
		BLANK	OAK CONTROL	DF CONTROL	OAK CREOSOTE	DF CREOSOTE -COMP1	BLANK				
	MATRIX	SAND	WOOD	WOOD	WOOD	WOOD	SAND				
UNIT	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
N-NITROSODIPHENYLAMINE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
4-BROMOPHENYL PHENYL ETHER	ND	ND	ND	ND	ND	ND	2	2	2	2	2
HEXACHLORO BENZENE (TCLP)	ND	ND	ND	ND	ND	ND	2	2	2	2	2
DI-N-BUTYL PHTHALATE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
BUTYL BENZYL PHTHALATE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
BIS(2-ETHYL HEXYL)PHTHALATE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
3,3-DICHLORO BENZIDINE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
DI-N-OCTYL PHTHALATE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
NAPHTHALENE	ND	ND	ND	1200	2000	2000	2	2	2	200	200
ACENAPHTHALENE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
ACENAPHTHENE	ND	ND	ND	700	1000	1000	2	2	2	200	200
FLUORENE	ND	ND	ND	580	700	700	2	2	2	200	200
PHENANTHRENE	ND	ND	ND	2400	2800	2800	2	2	2	200	200
ANTHRACENE	ND	ND	ND	500	640	640	2	2	2	200	200
FLUORANTHENE	ND	ND	ND	1300	1800	1800	2	2	2	200	200
PYRENE	ND	ND	ND	900	1500	1500	2	2	2	200	200
BENZO(A)ANTHRACENE	ND	ND	ND	ND	330	330	2	2	2	2	200
CHRYSENE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
BENZO(B)FLUORANTHENE	ND	ND	ND	ND	(250)	(250)	2	2	2	2	200
BENZO(K)FLUORANTHENE	ND	ND	ND	38	ND	ND	2	2	2	2	2
BENZO(A)PYRENE	ND	ND	ND	(130*)	(200)	(200)	2	2	2	200	200
IDENO(1,2,3-CD)PYRENE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
DIBENZ(A,H)ANTHRACENE	ND	ND	ND	ND	ND	ND	2	2	2	2	2
BENZO(GHI)PERYLENE	ND	ND	ND	ND	ND	ND	2	2	2	2	2

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

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


 YUE-DONG MEN
 7/14/08
 DATE


 KENNETH SINN
 7/14/08
 DATE


 RUSS CHIN
 7/14/08
 DATE

SVOCs BY GC/MS

ANALYTE	SCL NO.	METHOD	AQ02212	AQ02213	AQ02214	AQ02215	QUANTITATION LIMIT				
	COL. NO.		OAK	DF	OAK	DF CREOSOTE	METHOD	AQ02212	AQ02213	AQ02214	AQ02215
	MATRIX	BLANK	CONTROL	CONTROL	CREOSOTE	-COMP1	BLANK				
	UNIT	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
2-CHLOROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
PHENOL		ND	ND	ND	22	34	2	2	2	2	2
2-NITROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DIMETHYL PHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DICHLOROPHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
4-CHLORO-3-METHYL PHENOL		ND	ND	ND	ND	ND	2	2	2	2	2
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
2,4-DINITROPHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
4-NITRO PHENOL		ND	ND	ND	ND	ND	25	25	25	25	25
PENTACHLORO PHENOL (TCLP)		ND	ND	ND	ND	ND	10	10	10	10	10
BENZYL ALCOHOL		ND	ND	ND	ND	ND	2	2	2	2	2
2-METHYLPHENOL (TCLP)		ND	ND	ND	10	17	2	2	2	2	2
4 &/OR 3-METHYLPHENOL (TCLP)		ND	ND	ND	33	52	2	2	2	2	2
CARBAZOLE		ND	ND	ND	220	220	2	2	2	200	200
4-CHLOROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
2-METHYL NAPHTHALENE		ND	ND	ND	400	610	2	2	2	200	200
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND	ND	ND	2	2	2	2	2
2-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
DIBENZOFURAN		ND	ND	ND	460	530	2	2	2	200	200
3-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2
4-NITROANILINE		ND	ND	ND	ND	ND	2	2	2	2	2

NOTES: CLEANUP PROCEDURE PERFORMED ONLY ON SAMPLES AQ02214, AQ02215 AND AQ02214 DUPLICATE.

NOTES: ND=NOT DETECTED 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

Yue-Dong Men
 YUE-DONG MEN
 7/14/08
 DATE

Kenneth Sinn
 KENNETH SINN
 7/14/08
 DATE

Russ Chin
 RUSS CHIN
 7/14/08
 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
 SAMPLE LOCATION: UCCE RICHMOND FIELD STATION
 1301 SOUTH 46TH STREET, BLDG 478
 RICHMOND, CA 94804

SCL NO. AR00070-AR00071

DATE REPORTED: 7/10/2008

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

SVOCs BY GC/MS

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

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


 YUE-DONG MEN - KENNETH SINN DATE 7/14/08


 KENNETH SINN DATE 7/14/08


 RUSS CHIN DATE 7/14/08

SVOCs BY GC/MS

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

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER MG/KG=MILLIGRAM PER KILOGRAM
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ANALYTES IN **BOLD** FOLLOWED BY "(TCLP)" ARE ON TC RULE LIST.

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Yue-Dong Men

7/14/08

Kenneth Sinn

7/14/08

Russ Chin

YUE-DONG MEN - KENNETH SINN DATE

KENNETH SINN DATE

RUSS CHIN DATE

SVOCs BY GC/MS

ANALYTE	SCL NO.		AR00070		AR00071		QUANTITATION LIMIT				
	COL. NO.	METHOD	DFCreosote	DFCreosote			METHOD	AR00070	AR00071		
		BLANK	Comp 2	Comp 3			BLANK				
	MATRIX	SAND	WOOD	WOOD			SAND				
	UNIT	MG/KG	MG/KG	MG/KG			MG/KG	MG/KG	MG/KG		
2-CHLOROPHENOL		ND	ND	ND			2	4	4		
PHENOL		ND	53	69			2	4	4		
2-NITROPHENOL		ND	ND	ND			2	4	4		
2,4-DIMETHYL PHENOL		ND	70	74			2	4	4		
2,4-DICHLOROPHENOL		ND	ND	ND			2	4	4		
4-CHLORO-3-METHYL PHENOL		ND	ND	ND			2	4	4		
2,4,6-TRICHLOROPHENOL (TCLP)		ND	ND	ND			2	4	4		
2,4-DINITROPHENOL		ND	ND	ND			25	50	50		
2-METHYL-4,6-DINITROPHENOL		ND	ND	ND			25	50	50		
4-NITRO PHENOL		ND	ND	ND			25	50	50		
PENTACHLORO PHENOL (TCLP)		ND	ND	ND			10	10	10		
BENZYL ALCOHOL		ND	ND	ND			2	4	4		
2-METHYLPHENOL (TCLP)		ND	32	32			2	4	4		
4 &/OR 3-METHYLPHENOL (TCLP)		ND	91	100			2	4	4		
CARBAZOLE		ND	480	460			2	4	4		
4-CHLOROANILINE		ND	ND	ND			2	4	4		
2-METHYL NAPHTHALENE		ND	1400	1400			2	100	100		
2,4,5-TRICHLOROPHENOL (TCLP)		ND	ND	ND			2	4	4		
2-NITROANILINE		ND	ND	ND			2	4	4		
DIBENZOFURAN		ND	1200	1000			2	100	100		
3-NITROANILINE		ND	ND	ND			2	4	4		
4-NITROANILINE		ND	48	46			2	4	4		

NOTES: ND=NOT DETECTED MG/L=MILLIGRAM PER LITER MG/KG=MILLIGRAM PER KILOGRAM
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SAMPLE PREPARATION	ANALYST	SUPERVISOR
<i>Yue-Dong Men</i>	<i>Kenneth Sinn</i>	<i>Russ Chin</i>
7/14/08	7/14/08	7/14/08
YUE-DONG MEN - KENNETH SINN DATE	KENNETH SINN DATE	RUSS CHIN DATE