

Uploaded to the VFC Website February 2014

This Document has been provided to you courtesy of Veterans-For-Change!

Feel free to pass to any veteran who might be able to use this information!

For thousands more files like this and hundreds of links to useful information, and hundreds of "Frequently Asked Questions, please go to:

Veterans-For-Change

Veterans-For-Change is a A 501(c)(3) Non-Profit Organizaton Tax ID #27-3820181 CA Incorporation ID #3340400 CA Dept. of Charities ID #: CT-0190794

If Veterans don't help Veterans, who will?

We appreciate all donations to continue to provide information and services to Veterans and their families.

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=WGT2M5UTB9A78

Note: VFC is not liable for source information in this document, it is merely provided as a courtesy to our members & subscribers.



Client Sample ID : E11-140-S1

Reviewed By / Date :

Lab Report Batch : 31101879

Analysis Type: RES

Sample Date : 07/14/2011

Lab Sample ID: 31101879012

Approved By / Date :

Lab ID : SGSW

Page 298 of 353

e.

đщ.

Sample Matrix : SO

Analyte Name	Result	Uncertainty/ Error	Result Units	Lab Qual		Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV CCV
Analysis Method : 8081					Dilutio	n:1				-1-1-1 km										
Toxaphene	34.2		ug/Kg	U	YES									<u> </u>	[]				<u> </u>	
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-T	0.0171		mg/kg	Ų	YES				L			1	1		I				<u> </u>	
2,4,5-TP (Silvex)	0.0171		mg/kg	U	YES	UJ			l		UJ	Į	I		1]		I	<u>.</u>
2,4'-D	0.0171		mg/kg	U	YES	UJ				1	UJ	[I				1		<u> </u>	
2,4-DB	0.0171		mg/kg	U	YES	1					[1	1					1	
Dicamba	0.0171		mg/kg	U	YES	ĺ	I							1					1	1
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Telrachloroethane	4.92		ug/Kg	υ	YES]]					1
1,1,1-Trichloroethane	4.92		ug/Kg	υ	YES								1				1		1	1
1,1,2,2-Tetrachloroethane	4.92		ug/Kg	U	YES		1					1	1	l			1		1	1
1,1,2-Trichloroethane	4.92		ug/Kg	U	YES	1	1					{		į			Ì		1	1
1,1-Dichloroelhane	4.92		ug/Kg	U	YES	ĺ							}	Ì	1					1
1,1-Dichloroethene	4.92		ид/Кд	U	YES										1					I
1,1-Dichloropropene	4.92		ug/Kg	U	YES							1	1			1	1			l
1,2,3-Trichlorobenzene	4.92		ug/Kg	U	YES	1	1						1				ł		1	ł
1,2,3-Trichloropropane	4.92		ug/Kg	U	YES	!	1						.			l	1			
1,2,4-Trichlorobenzene	4.92		ug/Kg	U	YES		1												1	1
1,2,4-Trimethylbenzene	4.92		ug/Kg	V	YES			1					[1	1
1,2-Dibromo-3-chloropropane	29.5		ug/Kg	υ	YES											1				1
\$,2-Dibromoelhane	4.92		ug/Kg	υj	YES	į	1									1	1			1
1,2-Dichlorobenzene	4.92		ug/Kg	U	YES		1			1							1			1
1,2-Dichloroelhane	4.92		ug/Kg	υį	YES	1	1		1	Ì							{		[[
1,2-Dichloropropane	4.92		ug/Kg	U	YES		1	1											1	1
1,3,5-Trimethylbenzene	4.92		ug/Kg	U	YES						••••••								1	1
1,3-Dichlorobenzene	4.92		ug/Kg	0	YES	1	i			 										
\$,3-Dichioropropane	4.92		ug/Kg	U	YES	1	·i	Ì		······						1	1			1
roject Number and Name: 11-032	E - 11-032E (rary Us		Campo	· · · · · · ·					

ADR 8.2

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5001

Report Date: 9/6/2011 08:22

Client Sample ID : E11-140-S1

Lab Report Batch : 31101879

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/14/2011 Lab Sample ID: 31101879012

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/
Analysis Method : 8260B					Dilutio	on:1														
1,4-Dichiorobenzene	4.92		ug/Kg	U	YES					1	I	1								
2,2-Dichloropropane	4.92		ug/Kg	U	YES			1				1							1	
2-Bulanone	4.33		ug/Kg	J	YES	L						I	J						1	1
2-Chlorotoluene	4.92		ug/Kg	U	YES														1	1
2-Hexanone	12.3		ug/Kg	U	YES						1		[1
4-Chlorololuene	4.92		ug/Kg	U	YES						1	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						1
4-isopropyitoluene	4.92		ug/Kg	U	YES						ļ	1							[1
4-Methyl-2-pentanone	12.3		ug/Kg	U	YES					1		}								
Acetone	25.2		ug/Kg	J	YES	J	1						J							
Benzene	4.92		ug/Kg	U	YES															[
Bromobenzene	4.92		ug/Kg	U	YES														1	1
Bromochloromethane	4.92		ug/Kg	U	YES				l											1
Bromodichloromethane	4.92		ug/Kg	U	YES			1			(
ອາດກາວໂວເກາ	4.92		ug/Kg	υ	YES															
Bromomethane	4.92	Í	ug/Kg	U	YES															
Carbon disulfide	4.92		ug/Kg	U	YES								}				1			
Carbon tetrachloride	4.92		ug/Kg	U	YES		1										1			1
Chiprobenzene	4.92		ug/Kg	V	YES]		1												1
Chloroethane	4.92		ug/Kg	υ	YES		1	1								1				
Chloroform	4.92		ug/Kg	U	YES										\$	1				[
Chloromethane	4.92		ug/Kg	U	YES			1	1	4			1		}	l				l
cis-1,2-Dichtoroethene	4.92		ug/Kg	U	YES				1	į	1	1	1				1			1
cis-1,3-Dichloropropene	4.92		ug/Kg	U	YES				1		1						1			1
Dibromochloromethane	4.92		ug/Kg	U	YES	1		1	1	1	1						i			1
Dibromomethane	4.92		ug/Kg	υ	YES		Ì	Ì			İ									1
Dichlorodilluoromethane	4.92	1	ug/Kg	U	YES			1	· · · · · · · · · · · · · · · · · · ·				1			1	· · · · · · · · · · · · · · · · · · ·			1

Project Number and Name:	11-032E • 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:22		Page 299 of 353
		w success advect measure of a palagorian not accessed by sutemated dat	a cardaur	

· Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

500 a

Client Sample ID : E11-140-S1

Sample Date : 07/14/2011 Lab Sample ID: 31101879012

Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

\$

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B					Dilutio	on: 1														
Elhyi Benzene	4.92		ug/Kg	Ų	YES												[]		l	
Hexachlorobutadiene	4.92		ug/Kg	U	YES				1								(
isopropylbenzene (Cumene)	4.92		ug/Kg	U	YES		i			1										1
m,p-Xylene	9.83		ug/Kg	U	YES		[]						
Melhyl iodide	1.23		ug/Kg	J	YES	J							J							1
Melhylene chloride	1.59		ug/Kg	J	YES	UJ			U			[J							1
Naphthalene	4.92		ug/Kg	υ	YES				l											1
n-Butylbenzene	4.92		ug/Kg	υ	YES															
n-Propylbenzene	4.92		ug/Kg	υ	YES															
o-Xylene	4,92		ug/Kg	U	YES								.							
sec-Bulylbenzene	4.92		ug/Kg	U	YES												([
Slyrene	4.92		ug/Kg	U	YES															
ert-Bulyl methyl ether (MTBE)	4.92	į	ug/Kg	ų	YES	į											1			1
lert-Butylbenzene	4.92	}	ug/Kg	Ų	YES												ł			1
Tetrachloroethene	4.92		ug/Kg	U	YES							l	}							
Foluene	1.30		ug/Kg	J	YES	J							3							
Irans-1,2-Dichloroethene	4.92		ug/Kg	υ	YES						1									
rans-1,3-Dichloropropene	4.92	;	ug/Kg	U	YES							i l								1
rans-1,4-Dichloro-2-butene	24.6		ug/Kg	V	YES	1			1								ļ			1
Frichloroelhene	4.92		ug/Kg	V	YES			1	1				{		ļ					1
Trichlorofluoromethane	4.92		ug/Kg	υ	YES			1					1	1			1			1
/inyl chloride	4.92		ug/Kg	υ	YES					Ì			1		1	1				
Analysis Method : 8270D					Dilutio	ก: 1														
,2,4-Trichlorobenzene	346		ug/Kg	U	YES		ļ			ł	ţ									
,2-Dichlorobenzene	346		ug/Kg	Ų	YES]							!		<u> </u>			1
I,3-Dichlorobenzene	346	ļ	ug/Kg	U	YES													<u> </u>		1
I,4-Dichlorobenzene	346	1	ug/Kg	บ	YES	1		1	I											1
		Carroll Agent									t ib.	rary Us	od.	Сатр	arroll					

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-140-S1

Sample Date : 07/14/2011 Lab Sample ID: 31101879012 Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Page 301 of 353

1885 ···

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat		Overall Quai		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	tC	ICV	CCV CCV
Analysis Method : 8270D					Dilutio					*********					,					
2,4,5-Trichlorophenol	346		ug/Kg	Ų	YES				1	[1	ł			1	;	1	1
2,4,6-Trichlorophenol	346		ug/Kg	U	YES				1	1					<i></i>		1	[1	1
2,4-Dichlorophenol	346		ug/Kg	U	YES											• • • • • • • • •				1
2,4-Dimethylphenol	346		ug/Kg	U	YES						1									
2,4-Dinitroloiuene	346		ug/Kg	U	YES						1									1
2,6-Dinitrololuene	346		ug/Kg	υ	YES													1	1	1
2-Chloronaphlhalene	346		ug/Kg	U	YES									•				{	1	I
2-Chlorophenoi	346		ug/Kg	U	YES												1			1
2-Methylnaphthalene	346		ug/Kg	U	YES														1	1
2-Melhyiphenol	346		ug/Kg	U	YES	}						••••••				•••••				1
2-Nitroaniline	346		ug/Kg	υ	YES														1	1
2-Nitrophenol	346		ug/Kg	U	YES			1											1	I
and/or 4-Methylphenol	346		ug/Kg	U	YES															
3-Nitroaniline	346		ug/Kg	υ	YES			1							1					
-Bromophenyl phenyl elher	346		ug/Kg	U	YES		1	1												1
I-Chloro-3-methylphenol	346		ug/Kg	U	YES								1							
I-Chloroaniline	346		ug/Kg	U	YES		1	l					1						1	1
-Chlorophenyl phenyl ether	346		ug/Kg	U	YES	1							Í				Í			•
-Nitroaniline	346		ug/Kg	υ	YES					1	1									
I-Nitrophenol	346		ug/Kg	U	YES						1	1								1
Acenaphthene	346		ug/Kg	U	YES			1					1				1			1
Acenaphthylene	346		ug/Kg	U	YES		1	1				1	1			1	1			1
nthracene	346	;	ug/Kg	U	YES	1	1	1	- 1		1	1	į			1	(ł
ienzo(a)anlhracene	346		ug/Kg	U	YES					1										
Senzo(a)pyrene	346		ug/Kg	ម	YES			1		1	ł				1					1
Senzo(b)fluoranthene	346	1	ug/Kg	U	YES			·····	1						1		1			1

Library Used: CampCarroll Project Number and Name: 11-032E + 11-032E Carroll Agent Orange Report Date: 9/6/2011 08:22 ADR 8.2

Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5004

Client Sample ID : E11-140-S1

Lab Report Batch : 31101879

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/14/2011 Lab Sample ID: 31101879012

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaf	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV / CCV
Analysis Method : 8270D					Dilutie	on: 1														
Benzo(g,h,i)perylene	346		ug/Kg	υ	YËS						i	-					1			1
Benzo(k)fluoranihene	346		ug/Kg	U	YES				1	1		1							1	I
Bis(2-Chloroethoxy)melhane	346		ug/Kg	υ	YES	Í	1		1	1									1	1
Bis(2-Chloroelhyf)ether	346		ug/Kg	U	YES		1		I	1	ł		}						1	
Bis(2-Chloroisopropyl)ether	346		ug/Kg	U	YES														1	1
Bis(2-Ethylhexyl)phthalate	27.6	1	ug/Kg	Ļ	YES]			[1
Butyl benzyl phthalate	346	ļ	ид/Кд	U	YES															1
Chrysene	346	1	ug/Kg	υ	YES]		1 1				1	1
Dibenz(a,h)anthracene	346		ug/Kg	U	YES		1						}						1	1
Dibenzofuran	346		ug/Kg	U	YES		1			1									1	1
Diethyl phlhalate	346		ug/Kg	U	YES	1														1
Dimethyl phthalale	346		ug/Kg	υ	YES	1	1												1	I
Di-n-bulyi phthalate	346	1	ug/Kg	U	YES		1												1	1
Di-n-octyl phthalate	346	ļ	ug/Kg	U	YES	1														1
Fluoranthene	346		ug/Kg	υį	YES		1										1		1	1
Fluorene	346	}	ug/Kg	U	YES		1]				1			1
Hexachlorobenzene	346		ug/Kg	U	YES :								1						1	
Hexachlorobuladiene	346	1	ug/Kg	υļ	YES	1	1				I		1	1		۱			1	1
Hexachlorocyclopenladiene	346	i	ug/Kg	U	YES	1	1			-	ļ								1	1
Hexachloroethane	346	i	ug/Kg	υį	YES		1	1			1	1	1	1	1	1	1			1
ndeno(1,2,3-cd)pyrene	346	Ì	ug/Kg	U	YES		1	1	1		ļ	1	1			1	ł			I
sophorone	346	1	ug/Kg	U	YES				ļ				1						1	1
Naphihalene	346	1	ug/Kg	U	YES	1				1	1			1						1
Vilrobenzene	346		ug/Kg	U	YES	,				\$;	1			- I					
n-Nitrosodi-n-propylamine	346	Ĩ	ug/Kg	ប	YES		1	1		1	i	1		1	1					1
Pentachiorophenol	346	1	ug/Kg	U	YES		1	1	1	I			1	1	i	1	1			1

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:22
 Page 302 of 353

Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5005

Client Sample ID : E11-140-S1 Sample Date : 07/14/2011 Lab Sample ID: 31101879012 Lab Report Batch : 31101879 Analysis Type: RES Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaí	Rep Res	Overall Qual*	Temp	НŤ	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	icv	cv/ ccv
Analysis Method : 8270D					Diluti	on: 1														
Phenanthrene	346		ug/Kg	U	YES	:	1					1							1	
Phenoi	346		ug/Kg	U	YES	:	í I					}			1			,	1	
Pyrene	346		ug/Kg	υ	YES														1	

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:22		Page 303 of 353
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review and any qualifiers added manually f	or calegories not assessed by automated data	a review	

5006

£

Client Sample ID : E11-140-S2 Sample Date : 07/14/2011 Lab Sample ID: 31101879013

Lab Report Batch : 31101879

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal Qual*	í Temp	H۲	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C					Diluti	on: 1														
Arsenic	2.42		mg/kg		YES	J				1		j	1						1	1
Barium	91.3		mg/kg		YES	L	ł					J	l						1	1
Cadmium	0.682		mg/kg		YES	J						J	I							1
Chromium	2.83		mg/kg		YES										I (1			1
Lead	6.69		mg/kg		YES	J	1		1			J							1	[
Selenium	2.13		mg/kg	U	YES		1										[1
Silver	0.232		mg/kg	J	YES	υ			υ		{									1
Analysis Method : 7471B					Dilutio	on: 1											• • • • • • • • • • • •			÷••
Mercury	0.0205		mg/kg	U	YES															1
Analysis Method : 8081					Dilutio	on: 1														
4,4'-DDD	1.92		ug/Kg	J	YES		1												1	1
4,4'-DDD	1.92		ug/Kg	J	YES		1		ł						1					1
4,4'-DDE	2.76		ug/Kg	J	YES		}		1											
4,4'-DDE	2.76		ug/Kg	J	YES						1				1				1	1
4,4'-DDT	5.27		ug/Kg	J	YES	U		1	U	1						1	}			
4,4'-DDT	5.27		ug/Kg	J	YES	υ			υļ			1					1			
Aldrin	10.0		ug/Kg	U	YES				1				1			l	ĺ			ł
Aldrin	10.0	1	ug/Kg	U	YES				1		1		1		1					
alpha-BHC	10,0	ĺ	ug/Kg	U į	YES			1			[1								
alpha-BHC	10.0		ug/Kg	U	YES			1	1			1				1	;			
alpha-Chlordane	10.0		ug/Kg	U	YES				1		1		1			1				
spha-Chiordane	10.0	·····	ug/Kg	U	YES					1			1							
beta-BHC	10.0		ug/Kg	U	YES			1		}									1	
ela-BHC	10.0		ug/Kg	U	YES				1			Ì								
Chlordane	33.5		ug/Kg	U	YES]	l								
Chlordane	33.5		ug/Kg	υ	YES)		i			i		i	·····	······	
lelta-BHC	10.0	•••••••	ug/Kg	U	YES			·····	·····		 	i	·····		i	······	 ا	······ 	·····	
roject Number and Name: 11-032	E • 11-032E (ary Us		CampO	·····					

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-140-S2

Sample Date : 07/14/2011 Lab Sample ID: 31101879013

Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Resuit Units	Lab Quai		Overall Qual*	Temp	HT	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dís		Tune	ic	icv	CV / CCV
Analysis Method : 8081					Dilutio	on:1				*****										
delta-BHC	10.0		ug/Kg	U	YES				[[1	1	1						1	1
Dieldrin	10.0		ug/Kg	υ	YES				.			[1						l	1
Dieldrin	10.0		ug/Kg	U	YES					1			1	l						
Endosulfan I	10.0		ug/Kg	U	YES				1								1			
Endosulfan I	10.0		ug/Kg	υ	YES				l	l										1
Endosulfan II	10.0		ug/Kg	υ	YES						l	1	[I					1
Endosulfan li	10.0		ug/Kg	U	YES					l		1								1
Endosulfan sulfate	10.0		ug/Kg	U	YES				l		1	ł	1			. I			1	1
Endosulfan sullate	10.0		ug/Kg	υ	YES						[(1
Endrin	10.0		ug/Kg	U	YES		1				1	<u> </u>								
Endrin	10.0		ug/Kg	U	YES		1				(1						1
Endrin aldehyde	10.0		ug/Kg	U	YES															1
Endrin aldehyde	10.0		ug/Kg	U	YES							[<u> </u>
Endrin kelone	10.0		ug/Kg	U	YES											l				<u> </u>
Endrin kelone	10.0		ug/Kg	U	YES	ĺ											l		L	1
gamma-BHC (Lindane)	10.0		ug/Kg	U	YES												l			<u> </u>
gamma-BHC (Lindane)	10.0		ug/Kg	υ	YES												<u> </u>			ł
gamma-Chlordane	10.0		ug/Kg	υį	YES				J								1			I
gamma-Chlordane	10.0		ug/Kg	U	YES		1					[]								!
Heptachlor	10.0	į	ug/Kg	U	YES															I
Heptachlor	10.0		ug/Kg	U	YES															1
Heptachlor epoxide	10.0	;	uq/Kg	U	YES	1							}							1
Heptachlor epoxide	10.0	į	ug/Kg	U j	YES			ļ	[!
Methoxychlor	10.0		ug/Kg	υ	YES			I												1
Methoxychior	10.0		ug/Kg	U	YES											1				1
Toxaphene	33.5	1	ug/Kg	U	YES		1	-	1	1	1				I	1				

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:22
 Page 305 of 353

Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-140-S2 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879013 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Lab Dup Rep Moist Limit Tot/Dis Overati Qual* Field QC CV/ CCV Rep Res MB LCS Analyte Name Result Error Units Tem HΤ MS នមាវ Tune IC ICV Analysis Method : 8081 Dilution: 1 Toxaphene 33.5 ug/Kg U YES Analysis Method : 8151 Dilution: 1 2,4.5-T 0.0165 mg/kg υ YES 2,4,5-TP (Silvex) 0.0165 mg/kg υ YES UJ UJ 2,4'-D 0.0165 mg/kg U. YES IJJ UJ 2,4-DB 0.0165 U YES mg/kg Dicamba 0.0165 mg/kg U YES Analysis Method : 8260B Dilution: 1 1,1,1,2-Telrachioroethane 4.12 ug/Kg υ YES 1,1,1-Trichloroelhane 4.12 υ YES ug/Kg 1,1,2,2-Tetrachloroethane 4.12 ug/Kg υ YES 1,1,2-Trichloroelhane 4.12 υ YES ug/Kg 1,1-Dichloroethane 4.12 ug/Kg υ YES 1,1-Dichloroethene 4.12 YËS υ ug/Kg 1,1-Dichloropropene 4.12 ug/Kg U YES 1,2,3-Trichlorobenzene 4.12 υ YES ug/Kg 1.2.3-Trichloropropane 4.12 ug/Kg υ YES 4.12 1,2,4-Trichlorobenzene uo/Ko υ YES 1,2,4-Trimethylbenzene 4.12 ug/Kg U YES 1,2-Dibromo-3-chloropropar 24.7 ug/Kg υ YES 1,2-Dibromoelhane 4.12 U YES ug/Kg 1,2-Dichlorobenzene 4.12 ug/Kg υ YES 1,2-Dichloroethane 4.12 υ YES ug/Kg 1,2-Dichloropropane 4.12 ug/Kg U YÉS 1,3,5-Trimethylbenzene 4.12 YES ug/Kg υ 1,3-Dichlorobenzene 4.12 ug/Kg υ YES 1,3-Dichloropropane 4.12 u YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22 Page 306 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5009

s

Client Sample ID : E11-140-S2

Sample Date : 07/14/2011 Lab Sample ID: 31101879013 Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

·

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		HT	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	IC	ICV	CV/ CCV
Analysis Method : 8260B					Diluti	on: 1								····						
1,4-Dichiorobenzene	4.12		ug/Kg	U	YES								1		1				ł	1
2,2-Dichloropropane	4.12		ид/Кд	U	YES							}			1					
2-Butanone	20,6		ug/Kg	U	YES														1	1
2-Chlorotoluene	4.12		ug/Kg	U	YES			l							1				1	1
2-Hexanone	10.3		ug/Kg	υ	YES														1	1
4-Chlorotoluene	4.12		ug/Kg	U	YES		1	1							1 1				1	1
4-isopropyltoluene	4.12		ug/Kg	U	YES	1	I												1	1
4-Methyl-2-pentanone	10.3		ug/Kg	U	YES					- 1										1
Acetone	5.13		ug/Kg	J	YES												ĺ			l
Benzene	4.12		ug/Kg	U	YES	ļ		1			1									1
Bromobenzene	4.12		ug/Kg	U	YES								(1			1
Bromochloromelhane	4.12		ug/Kg	υ	YES					1							1			1
Bromodichloromethane	4.12	İ	ug/Kg	U	YES		1	1			1									1
Bromoform	4.12	1	ug/Kg	υ	YES											1	1			1
Bromomethane	4.12	1	ug/Kg	U	YES			1		1	1	1		1						1
Carbon disulfide	4.12		ug/Kg	U	YES	1	1	1			1		1					•••••		
Carbon tehachforide	4.12	1	ug/Kg	U	YES	1			1]	1			1				1
Chlorobenzene	4.12	1	ug/Kg	U	YES				1	1						1				1
Chloroelhane	4.12		ug/Kg	U	YES		1	1	1		{	1								
Chloroform	4.12	ĺ	ug/Kg	U	YES			1			1	1				1				[
Chloromethane	4.12	1	ug/Kg	υ	YES			1	1			1	·····			1	1			1
cis-1,2-Dichloroelhene	4.12		ug/Kg	U	YES :			1	1		1	1				1	1			1
is-1,3-Dichloropropene	4.12		ug/Kg	U	YES	1	· · · · · ·	1			1	1				F				 1
Dibromochloromethane	4.12		ug/Kg	U	YES			Î	 	·····		 		1	i		······	·····		1
Dibromomelhane	4.12		ug/Kg	U	YES	·····	·····	 	1		1	Ì	·····		·····	····· · · · · · · · · · · · · · · · ·	·····			1
Dichlorodifluoromethane	4.12		ug/Kg	U	YES		1	1	·····	*******	1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	in a second second second second second second second second second second second second second second second s	·····		1

Project Number and Name: 11-032E · 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22 Page 307 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5010

Client Sample ID : E11-140-S2

Sample Date : 07/14/2011 Lab Sample ID: 31101879013 Analysis Type: RES

Lab Report Batch : 31101879

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analysis Method : 8260B Dilution: 1 Ethyl Benzene 4.12 ug/Kg U YES I I Hexachlorobutadiene 4.12 ug/Kg U YES I I Isopropylhenzene (Currene) 4.12 ug/Kg U YES I I mp.Sydence 6.23 ug/Kg U YES I I I Methyland chiodide 4.12 ug/Kg U YES I I I Methyland chiodide 0.839 ug/Kg U YES I I I Naphthalone 4.12 ug/Kg U YES I I I I n-Bulybenzene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I	Lab Dup Sunr		Moist F Tot/Dis (IC	ICV	CV / CCV
Hexachlorobutadiene 4.12 ug/kg U YES I I Isopropylbenzene (Cumene) 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I							
Image: Sopropylenzene (Currene) 4.12 ug/Kg U YES I I m.p.Xylene 6.23 ug/Kg U YES I I I Melhyliodide 4.12 ug/Kg U YES I I I Methylene chloride 0.889 ug/Kg U YES I I I Naphthalene 4.12 ug/Kg U YES I I I Naphthalene 4.12 ug/Kg U YES I I I Naphthalene 4.12 ug/Kg U YES I I I n-Propyberzene 4.12 ug/Kg U YES I I I sec-Butyberzene 4.12 ug/Kg U YES I I I sec-Butyberzene 4.12 ug/Kg U YES I I I eert-Butyberzene 4.12 ug/Kg U YES I I I foluene 1.84 ug/Kg U	1		ĺ	1			
mp-Xylene 6.23 ug/Kg U YES I I Methyliodide 4.12 ug/Kg U YES I I I Methylionide 0.889 ug/Kg J YES I I I Methylionide 0.889 ug/Kg U YES I I I Naphthalene 4.12 ug/Kg U YES I I I n-Bulylbenzene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I et-Bulyltehzene 4.12 ug/Kg U YES I I I et-Bulyltehzene 4.12 ug/Kg U YES I I <td>1</td> <td>1</td> <td> </td> <td> </td> <td> </td> <td></td> <td>[</td>	1	1					[
Methyliodide 4.12 ug/Kg U YES I I Mathylene chloride 0.889 ug/Kg J YES I I Mathylene chloride 0.889 ug/Kg U YES I I I Naphthalene 4.12 ug/Kg U YES I I I n-Propybenzene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I sec-Bulylbenzene 4.12 ug/Kg U YES I I I sec-Bulylbenzene 4.12 ug/Kg U YES I I I sec-Bulylbenzene 4.12 ug/Kg U YES I I I tetr-Buly methyl ether (MT8E) 4.12 ug/Kg U YES <td> </td> <td>1</td> <td></td> <td>·····</td> <td>1</td> <td></td> <td>1</td>		1		·····	1		1
Methylene chloride 0.889 ug/Kg J YES I I Naphthalene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I		1			[1
Naphthalene 4.12 ug/Kg U YES I I n-Bulybenzene 4.12 ug/Kg U YES I I I n-Propybenzene 4.12 ug/Kg U YES I I I o-Xylene 4.12 ug/Kg U YES I I I o-Xylene 4.12 ug/Kg U YES I I I o-Xylene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1	1			1		1
n-Bulybenzene 4.12 ug/Kg U YES I I n-Propybenzene 4.12 ug/Kg U YES I I I o-Xylene 4.12 ug/Kg U YES I I I o-Xylene 4.12 ug/Kg U YES I I I sec-Bulybenzene 4.12 ug/Kg U YES I I I Styrene 4.12 ug/Kg U YES I I I I Styrene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <td>1</td> <td>ii.</td> <td></td> <td></td> <td>1</td> <td></td> <td></td>	1	ii.			1		
n-Propybenzene 4.12 ug/Kg U YES I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I o-Xytene 4.12 ug/Kg U YES I I I Styrene 4.12 ug/Kg U YES I I I I Styrene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1	1		1			
o-Xytene 4.12 ug/Kg U YES I I sec-Butylbenzene 4.12 ug/Kg U YES I I I Styrene 4.12 ug/Kg U YES I I I I Styrene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I		<u>.</u>		1	1		
sec-Bulylbenzene 4.12 ug/Kg U YES I I Styrene 4.12 ug/Kg U YES I I I Styrene 4.12 ug/Kg U YES I I I tert-Bulyl methyl ether (MTBE) 4.12 ug/Kg U YES I I I tert-Bulylbenzene 4.12 ug/Kg U YES I I I I tert-Bulylbenzene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1	1 1			1		
Styrene 4.12 ug/Kg U YES I I ert-Butyl methyl ether (MTBE) 4.12 ug/Kg U YES I I ert-Butyl methyl ether (MTBE) 4.12 ug/Kg U YES I I I ert-Butyl methyl ether (MTBE) 4.12 ug/Kg U YES I I I ert-Butylbenzene 4.12 ug/Kg U YES I I I I Fetrachloroethene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1	1			1	·····	
ert-Butyl methyl ether (MTBE) 4.12 ug/Kg U YES I I ert-Butyl methyl ether (MTBE) 4.12 ug/Kg U YES I I I ert-Butylbenzene 4.12 ug/Kg U YES I I I retrachtoroethene 4.12 ug/Kg U YES I I I Foluene 1.64 ug/Kg J YES I I I I rans-1,2-Dichloroethene 4.12 ug/Kg U YES I I I I rans-1,3-Dichloropropene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <tdi< td=""><td> </td><td>1</td><td></td><td>1</td><td></td><td></td><td></td></tdi<>		1		1			
ert-Butylbenzene 4.12 ug/Kg U YES I I I retractionoethene 4.12 ug/Kg U YES I I I retractionoethene 1.84 ug/Kg U YES I I I retractionoethene 1.84 ug/Kg U YES I I I retractionoethene 4.12 ug/Kg U YES I I I rans-1,2-Dichloroocthono 4.12 ug/Kg U YES I I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I richloroot-2-butene 4.12 ug/Kg U YES I I I richlorootethene 4.12 ug/Kg U YES I I I richlorodethene 4.12 ug/Kg U YES I I I richlorodethene 4.12 ug/Kg U YES I I I richlorodethene		1	·····	1	·····/,		
Tetrachloroethene 4.12 ug/Kg U YES I I foluene 1.84 ug/Kg J YES I I I rans-1,2-Dichloroethene 4.12 ug/Kg U YES I I I rans-1,2-Dichloroethene 4.12 ug/Kg U YES I I I rans-1,2-Dichloropropene 4.12 ug/Kg U YES I I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I I richlorofueromelhane 4.12 ug/Kg U YES I I I I Analysis Method : 8270D Ug/Kg U YES I I I I I I<		1	·i 	1 1	·····		• • • • • • •
Toluene 1.84 ug/kg J YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I			i			·····	• • • • • • •
rans-1,2-Dichloroethone 4.12 ug/Kg U YES I I I rans-1,3-Dichloropropene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1			·····	·····	·	
rans-1,3-Dichloropropene 4.12 ug/Kg U YES I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I rans-1,4-Dichloro-2-butene 20.6 ug/Kg U YES I I I rinchloroethene 4.12 ug/Kg U YES I I I rinchloroftuoromethane 4.12 ug/Kg U YES I I I Analysis Method : 8270D Dilution: 1 I I I I I .2,4-Trichlorobenzene 335 ug/Kg U YES I I I .2-Dichlorobenzene 335 ug/Kg U YES I I I		1			·····		
rans-1.4-Dichtoro-2-butene 20.6 ug/Kg U YES				i i	· · · · · · · · · · · · · · · · · · ·	·····i	
richloroethene 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	1		····//	·····		·····	
Frichlorofluoromethane 4.12 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <t< td=""><td></td><td> </td><td></td><td></td><td>1</td><td>؛ ۱</td><td></td></t<>					1	؛ ۱	
Analysis Method : 8270D U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <thi< td="" th<=""><td> </td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td> </td><td></td><td>·····</td><td></td></thi<>			· · · · · · · · · · · · · · · · · · ·			·····	
Analysis Method : 8270D Dilution: 1 .2.4-Trichlorobenzene 335 ug/Kg U YES I I I .2-Dichlorobenzene 335 ug/Kg U YES I I I .2-Dichlorobenzene 335 ug/Kg U YES I I I .3-Dichlorobenzene 335 ug/Kg U YES I I I	1			·····	1	·····i	
,2,4-Trichlorobenzene 335 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I	I I I			i i i	1		
2-Dichlorobenzene 335 ug/Kg U YES I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <td>······</td> <td>··· ·· ···</td> <td></td> <td></td> <td></td> <td></td> <td>• • • • •</td>	······	··· ·· ···					• • • • •
,3-Dichlorobenzene 335 ug/Kg U YES				1		1	
		1		i			
4.Dichiombenzene 3355 un/Ka III VES				·····	·····		
				·····		ĺ	
oject Number and Name: 11-032E - 11-032E Carroll Agent Orange Lib	arary Used:	CampCar	rroli				

• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5011

Client Sample ID : E11-140-S2 Sample Date : 07/14/2011

Reviewed By / Date :

Lab Sample ID: 31101879013

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Lab Report Batch : 31101879

Analysis Type: RES

Uncertainty / Result Lab Rep Res Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Overali Qual* Analyte Name Result Error Units Qual Tem нт MB LCS MS Surr Tune IC ICV Analysis Method : 8270D Dilution: 1 2.4.5-Trichlorophenol 335 ug/Kg Ų YES 2,4,6-Trichlorophenol 335 υ ug/Kg YES 2,4-Dichlorophenol 335 ug/Kg υ YES 2,4-Dimethylphenol 335 U YES ug/Kg 2.4-Dinitrotoluene 335 ug/Kg U YES 2,6-Dinitrololuene 335 U YES uo/Ko 2-Chloronaphthalen 335 ug/Kg υ YES 2-Chlorophenol 335 ug/Kg υ YES 2-Methylmaphthalene 335 ug/Kg υ YES 2-Methylphenol 335 υ YES ug/Kg 2-Nitroaniline 335 ug/Kg U YES 2-Nitrophenol 335 ug/Kg U YES 3 and/or 4-Methylphenol 335 υ ug/Kg YES 3-Nilroaniline 335 ug/Kg Ų YES 4-Bromophenyi phenyi ether 335 υ YES ug/Kg 4-Chloro-3-methylphenol 335 ug/Kg U YES 4-Chloroaniline 335 YES ug/Kg υ 4-Chlorophenyl phenyl ether 335 ug/Kg Ū, YES 4-Nitroaniline 335 ម YES ug/Kg 4-Nitrophenol 335 υ YES ug/Kg Acenaphthene 335 ug/Kg υ YES Acenaphthylene 335 ug/Kg U YES Anthracene 335 ug/Kg υ YES Benzo(a)anthracene 335 Ų YES ug/Kg 335 Benzo(a)pyrene ug/Kg υ YES Benzo(b)fluoranthene 335 YES ug/Kg υ Project Number and Name: 11-032E - 11-032E Carroll Agent Orange

Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22 Page 309 of 353

Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-140-S2 Sample Date : 07/14/2011

Sample Date : 07/14/2011 Lab Sample ID: 31101879013

Analysis Type: RES

Lab Report Batch : 31101879

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quaf*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV CC
Analysis Method : 8270D					Dilutio	on: 1								••••						
Benzo(g,h,i)perylene	335		ug/Kg	Ų	YES				4	1								;	1	,
Benzo(k)fluoranthene	335		ug/Kg	U	YES				1			•••••			/i		 		1	1
Bis(2-Chloroethoxy)methane	335		ug/Kg	Ų	YES	•••••					1		:		1			' 	4	
Bis(2-Chioroethyl)elher	335		ug/Kg	U	YES			[•••••		• <i>••</i> •••••	1	: 1
Bis(2-Chloroisopropyl)ether	335		ug/Kg	V	YES	•••••		1	-	• • • • • • • • • • • • • • • • • • • •						• • • • • • • • •			! 	1
Bis(2-Ethylhexyl)phthalale	335		ug/Kg	υ	YES					•••••						• • • • • • • • • • •	[]			!
Butyl benzyl phthalate	335		ug/Kg	U	YES						· · · · · · · · · · · · · · · · · · ·								1	[
Chrysene	335		ug/Kg	U	YES									••••					! 	1
Dibenz(a,h)anthracene	335		ug/Kg	U	YES						·····	،۔ ا		•••••		•••••			/ 	¦
Dibenzofuran	335		ug/Kg	U	YES		••••••			·····	·		! 	••••••						!
Diethyl phthalate	335		ug/Kg	U	YES					······			<i>ل</i> ــــــــــــــــــــــــــــــــــــ		! 				!	!
Dimethyl phthalate	335		ug/Kg	U	YES				· · · · · · · · · · · · · · · · · · ·	: ا	······ 		· ·	: ا	·····	!		•••••		! !
Di-n-butyl phihalale	335	1	ug/Kg	U	YES					: ا	 	 		· · · · · · · · · · · · · · · · · · ·		·····!			! 	: I
Di-n-oclyl phthalale	335		ug/Kg	U	YES			·i		······	 	'' 	·····	 	.••••••••	! 				¦ I
Fluoranthene	335	1	ug/Kg	U	YES		······	 	······		······ 	·i		<u>؛</u> ۔؛		·····!			! I	:
luorene	335		ид/Кд	U	YES	1		·		·····	;	······	i		/.	·····			!!	:
1exachlorobenzene	335		ug/Kg	U	YES	·····i			····· /		 I				· · · · · · · · · · · · · · · · · · ·	······	······			: ł
lexachlorobuladiene	335		ug/Kg	U	YES			i	····· /	·····	1		······	!	•••••	יייייי 	؟؟ ا			
iexachlorocyclopentadiene	335	1	ug/Kg	U	YES	1		Ì		·····	i		·····. 	! 		ייייייי ז	ייייייי ן		· · · · · · · · · · · · · · · · · · ·	 /
lexachioroethane	335		ug/Kg	U	YES				·····	····· . 	·····i. 1	i		· · · · · · · · · · · · · · · · · · ·	·····		 ا		f	
ndeno(1,2,3-cd)pyrene	335		ug/Kg	U	YES	1		·····	· · · · · · · · · · · · · · · · · · ·	·····	·····	·····	·····		·····	•••••	·····			
sophorone	335	1	ug/Kg	υÌ	YES			1	·····	····· · · ·	· · · · · ·	1	····· ·· ·			····· · · · · · · · · · · · · · · · ·	! }	!		•••
laphthalene	335	1	ug/Kg	υį	YES	· · · · · · · · · · · · · · · · · · ·		·····	······	·· · · · · · · · · · · · · · · · · · ·	····	·····		·····		····· 1	 	· · · · · · · · · · · · · · · · · · ·	tt	• • • • • •
lilrobenzene	335		ug/Kg	U	YES				 1		·····i			·····!·	/-	• • • • • • • •	······	·····	ł. I	
-Nitrosodi-n-propylamine	335	1	ug/Kg	U	YES			ii		 1				!	t. 	·····¦	Å	۶۴ ا	·····!	• • • • • • •
entachlorophenol	335		ug/Kg	U	YES		••••••	·····			·····.¦·· }	·····.!.	·····	!. 	•••••	·····¦.	•••••	····· ·	t. 1	• • • • • •

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
ADR 8.2 Report Date: 9/6/2011 08:22 Page 310 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5013

Client Sample ID : E11-140-S2 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879013 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Rep Res Overall Quat* Lab Dup Rep Moist Field Limit Tot/Dis QC CV/ CCV Analyte Name Result Error Units Temp HТ MB LCS MS Surr юv Tune IC Analysis Method : 8270D Dilution: 1 Phenanthrene 335 ug/Kg U YES Phenol 335 U YES ug/Kg Pyrene 335 ug/Kg U YES

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5014

Page 311 of 353

Client Sample ID : E11-140-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879016

Approved By / Date :

ι,

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty/ Error	Result Units	Lab Qual	Rep Res	Overal Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Типе	ю	icv	CV CC
Analysis Method : 6010C					Diluti	on: 1						·····								
Arsenic	1.45		mg/kg		YES	J	1			1		J	1		1		[]	~~~	1	1
Barium	107		mg/kg		YES	ſ						J		(1
Cadmium	0.642		mg/kg		YES	UJ			U	[J			//i				/ 	. <u>.</u>
Chromium	2.47		mg/kg		YES													•••••	!	1
Lead	7.56		mg/kg		YES	J						J					·		/ 	. <u>.</u>
Selenium	2.01		mg/kg	U	YES		(•••••			ii		!i	•••••	!]	4
Silver	1.00		mg/kg	U	YES										? 		1 1		! 	1
Analysis Method : 7471B					Dilutio	n: 1					••••••		*****		••••••	•••••				!
Mercury	0.0209		mg/kg	υ	YES	••••••••					1				}				1	 I
Analysis Method : 8081					Dilutio	n:1		··· ···.*												ł
4,4'-DDD	9.84		ug/Kg	U	YES			1			1						1			
4,4'-DDE	9.84		ug/Kg	U	YES		1	· /				؛؛ ا	نــــــــــــــــــــــــــــــــــــ			••••••	·			!
4,4'-DDT	9.84		ug/Kg	U	YES	•••••	·i	·			۰۰۰۰۰۰ ا	؛۱ ا	<i>د د</i>	<i>!</i> ا			 }	·····!	·	1 1
Aldrín	9.84		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·!		'ا ا	<i>:</i>		! ا	! ا	·····	!.			! I		!
alpha-BHC	9.84		ug/Kg	U	YES	·i	! 	 	'ا ا	/		! 	······································	!!	 	 	<u> </u>	·····!		! I
sipha-Chiordane	9.84		ug/Kg	υİ	YES	؛		·i			! 	!! 		! 		¦		لا		
oeta-BHC	9.84	·····	ug/Kg		YES		·····	······	·····!		·······	 1	·····!	······!		·····	·!	······	·····	
Chlordane	32.8	·····	ug/Kg	- u 🗄	YES	! 	·	 1	!		······!.			·····!	••••••	 1	•••••	!		
Jeita-BHC	9.84	·····	ug/Kg	**	YES	······	······	·····	·····	· !		·····!	·····		•••••		·····	!		
Dieldrin	9,84		ug/Kg	υ	YES	i	¦		·····!	·····¦	·····		·····		••••••	ł	·····-			
Endosulfan I	9,84	·····	ug/Kg	U :	YES		!	······	<u>/</u>		·····-!	·····	······	·····			·	· !	·····	····
indosulfan il	9.84	·····	ug/Kg	u i	YES	·····	t. I	·····	·····	!	·····	i	·····			¦		· · · · · · · · · · · · · · · · · · ·	·····	
indosulfan sulfate	9.04	بلي ا	ug/Kg	· · · · · · · ÷	YES	·····	·····!·	·····	······		····		·····	···	·{·	·····				
indrin	9.84	·····	ug/Kg	•••••••	YES		·····	1	·				<u>+</u>	·				ļ		
ndrin aldehyde	9.84	·····	ug/Kg	· · · · · · · · · · · · · · · · · · ·	YES			<u>E</u> .		·····	······		·····		·····			· · · · · · · · ·	·····	
ndrin kelone	9.84	·····†	ug/Kg		YES	·····1			·····			·····	ļ.	·····	·		·····.			
amma-BHC (Lindane)	9,84		*********	•••••••	YES	·····!.	·····	·····	·····		·····	·····		[-	·			ļ		
			ug/Kg		163	l.		t.				1			1					

Lab Report Batch : 31101879

Analysis Type: RES

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-140-S3 Lab Report Batch : 31101879 Lab ID ; SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879016 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Overalf Qual* Lab Dup Rep Moist Limit Tot/Dis Rep Res Field QC CV/ CCV Analyte Name Result Temp Error Units Qual Нĭ MB LCS MS Surr IC юv Tune Analysis Method : 8081 Dilution: 1 gamma-Chlordane 9.84 ug/Kg Ų YES Heptachior 9.84 ΰ ug/Kg YES Reptachlor epoxide 9.84 ug/Kg U YES Methoxychlor 9.84 YES ug/Kg υ Toxaphene 32.8 ug/Kg υ YES Analysis Method : 8151 Dilution: 1 2,4,5-1 0.0167 mg/kg U YES 2,4,5-TP (Silvex) 0.0167 υ mg/kg YES UJ UJ. 2,4'-D 0.0167 mg/kg υ YES υJ UJ 2,4-DB 0.0167 U YES mg/kg Dicamba 0.0167 mg/kg υ YES Analysis Method : 8260B Dilution: 1 1,1,1,2-Tetrachloroethane 4.43 ug/Kg U YES 1,1,1-Trichloroethane 4.43 YES ug/Kg U 1,1,2,2-Tetrachloroethane 4.43 ug/Kg U YES 1,1,2-Trichioroethane 4.43 υ YES ug/Kg 1,1-Dichloroethane 4.43 ug/Kg Ð YES 1,1-Dichloroethene 4.43 YES uo/Ka υ 1,1-Dichtoropropene 4.43 υ ug/Kg YES 1,2,3-Trichlorobenzene 4.43 ug/Kg υ YES 1,2,3-Trichloropropane 4.43 ug/Kg υ YES 1,2,4-Trichlorobenzene 4.43 ug/Kg υ YES 1,2,4-Trimethylbenzene 4.43 υ YES ug/Kg 1,2-Dibromo-3-chloropropa 26.6 ug/Kg U YES 1,2-Dibromoethane 4.43 ug/Kg υ YES 1,2-Dichlorobenzene 4.43 ug/Kg U YES 1,2-Dichloroethane 4.43 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22

· Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5016

Page 313 of 353

Client Sample ID : E11-140-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879016

Lab Report Batch : 31101879 Analysis Type: RES

Lab ID ; SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		ĩипе	IC	ICV	cv/ ccv
Analysis Method : 826	DB				Diluti	on: 1						·····								
1,2-Dichloropropane	4.43		ug/Kg	υ	YES					1]			}					1	1
1,3,5 Trimethylbenzene	4.43		ug/Kg	U	YES					[}	•••••					· · · · · · · · · · · · · · · · · · ·		/ 	1
1,3-Dichlorobenzene	4.43		ug/Kg	U	YES											••••••			/ 1	1
1,3-Dichloropropane	4.43		ug/Kg	U	YES					[••••		••••••	·		! 	1
1,4-Dichlorobenzene	4.43		ug/Kg	Ų	YES											••••••	······	•••••	! 	¦
2,2-Dichloropropane	4.43		ug/Kg	U	YES									••	<i>-</i>				!	ł
2-Butanone	22.1		ug/Kg	Ų	YES										1		······		! 	1
2-Chlorotoluene	4.43		ug/Kg	U	YES											······	ا ا		! 1	! !
2-Hexanone	11.1		ug/Kg	U	YES								/ 		••••••	••••••		· · · · · · · · · · · · · · · · · · ·	!	! 1
4-Chlarotoluene	4.43	į	ug/Kg	υ	YES				·····				·/	· · · · · · · · · · · · · · · · · · ·					!	!
4-isopropylloluene	4.43		ug/Kg	U	YES				 I			·····		····· ··· ·	··	!				!
4-Methyl-2-pentanone	11.1	Ì	ug/Kg	υ	YES			 		·i	، ا	· !	ی ا	······	!		······	[!]		! !
Acetone	10.4	1	ug/Kg	j	YES	L		·		 ا	i	ا،ا ا	J	؛؛ ا	•••••••••	·····		!! ا		(-
3enzene	4.43	ĺ	ug/Kg	U	YES		1		······	' إ	: ا	!!		! 	••••••••••••••••••••••••••••••••••••••	¦	······	<i>ل</i>	·····!	¦
Bromobenzene	4.43		ug/Kg	U	YES		·····		·	·····	 ا		 ا	! 	••••••	·····!	······!	!! 	!! 	
Bromochloromelhane	4.43		ug/Kg	U	YES		1	1	، ا		·····	! 		·····!	·;;	! 	<u>ۂ</u>	ال ا	!!	
Iramodichlaromethane	4.43		ug/Kg	U	YES	·	·····	i	••••••• 			······	····· /· 	·····!	¦.			! I	······	
Bromoform	4 43		ug/Kg	υ	YES		·····	·····			······	······			· · · · · · · · · · · · ·	······!		!		
Bromomethane	4.43		ug/Kg	U	YES	·····	·····	1			!. }			!	•••••	·····!	·····	۱ ۱		
Carbon disulfide	4.43]	ug/Kg	υ	YES				·····			····· 1		····· !	·····		·!!	·····		• • • • • • • •
arbon tetrachloride	4.43		ug/Kg	U	YES			 	······			·····	·····	••••••	·····			E.		• • • • • • • •
hiorobenzene	4.43	·····	ug/Kg	U	YES	···· · · · ·	·····		·····	····· · !	····'		·····.¦.	· · · · · · · · · · · · · · · · · · ·			·	·····-	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • •
hloroelhane	4.43	1	ug/Kg	U	YES		·····	····/·	·····	·····	··· ···	·····	····· /·			·····			. 1	
hloroform	4.43		ug/Kg	U	YES	·····		••••••••	·····	ـه ا	·	·····		·····		••••••	·····	····		•••••
hloromethane	4.43		ug/Kg	U	YES			···· · · · · · · · · · · · · · · · · ·			·····	·····•	·····	·····!·	·····/		·····			
s-1,2-Dichloroethene	4.43		ug/Kg	υÈ	YES	······		······		·······	· · · · · · · · · · · · · · · · · · ·	·····		<u>!</u>	••••••	· · · · · · · · · · ·	·····	·····	·····	

ADR 8.2

Report Date: 9/6/2011 08:22 * Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5017

Page 314 of 353

Client Sample ID : E11-140-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879016

Analysis Type: RES

Lab Report Batch : 31101879

Lab ID : SGSW Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Тетр	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV / CCV
Analysis Method : 8260B					Diluti	on: 1									••••					
cis-1,3-Dichloropropene	4.43		ug/Kg	υ	YES								İ	{					[!
Dibromochloromethane	4,43		ug/Kg	U	YES	;						; ;				•••••	·			
Dibromomethane	4.43		ug/Kg	υ	YES											•••••				1
Dichlorodifluoromethane	4.43		ug/Kg	U	YES							 	·				·····	••••••	! 	!
Elhyl Benzene	4.43		ug/Kg	U	YES												!i		! !	1
Hexachlorobuladiene	4.43		ug/Kg	U	YES		1						·				!! i		<u>F</u>	! !
Isopropy/benzene (Cumene)	4.43		ug/Kg	U	YES			·`	''	·····			/ 	•••••					! 	! [
m,p-Xylene	8.85		ug/Kg	U	YES	·····			······2	······			! 			•••••		· · · · · · · · · · ·	!	!
Methyl iodide	4.43		ug/Kg	U	YES		·····	'. 	!	<u>.</u>	! {			<u>-</u>				••••••	! 	!
Melhylene chloride	1.16		ug/Kg	J	YES	UJ	·i	·····	υİ		<u>ا</u>			!	·····;	····· ·		·····		!
Naphihalene	4,43		ug/Kg	U	YES		······			نــــــــــــــــــــــــــــــــــــ	ا ا			!! 		!	·			! !
1-Bulybenzene	4.43		ug/Kg	υ	YES							·····!			! 	!	·····	·····	l	!
n-Propylbenzene	4.43		ug/Kg	U	YES	·! 	!. 	······	······!		······	·····!	······	!			·····	!	•••••	
o-Xylene	4.43		ug/Kg	U	YES	؛۔۔۔۔ ا	·····!	<u> </u>			······	·····!		·····			ļ	······		
ec-Bulylbenzene	4.43		ug/Kg	υ	YES	······!			!	······	!		·····	······			· ¦			· · · · · · · · ·
Styrene	4.43	·	ug/Kg	U	YES	· • • • • • • • • • • • • • • • • • • •	!	·····	······	·····	·····		·····-		·····¦·			·····		
ert-Budyl methyl ether (MTBE)	4.43	·····	ug/Kg	U	YES	···· ····	·····	 ا	¦		······			!			·····-	!		
ert-Bulyibenzene	4 43	·····	ug/Kg	υ	YES	· · · · · · ·	·····¦·				·····	<u>!</u>	·····		·····		····			
etrachloroethene	4.43	÷ · · · · · · · · · · · · · · · · · · ·	ug/Kg	υ	YES				·····	f. I			·····		·····	·····	·····.	·····¦		
oluene	2.89		ug/Kg		YES		······	·····	<u>I</u>	······	·····	!	····	· · · · · · ·	· · · · · · · · · ·	····•	· • • • • • • • • • • • • • • • • • • •	ļ		
ans-1,2-Dichloroethene	4,43		ug/Kg	U	YES					······	•••••	·····	·····				·····	·····		
ans-1,3-Dichloropropene	4.43		ug/Kg	υť	YES	· · · · · · · · 1.		t. 1	···· -	·····;	····· ¦.		·····				····			
ans-1,4-Dichloro-2-butene	22.1		ug/Kg	U	YES	·····	·····•	·····!		····· · · ·	····· ·	·· · · · · · · · ·	<u>h</u>	·····.	·····		· • • • • • • • • • • • • • • • • • • •			····
richloroethene	4.43		ug/Kg	U	YES	;-	<u> </u>	·····		·····				····	!-	<u> </u>		·····		
richlorofluoromethane	4,43	·····	ug/Kg	U	YES	· · · · · · ·	·····	·····	·····		·····	·····	·····			· · · · · · · · · · · · · · · · · · ·	ļ.	ļ		
inyl chloride	4.43	·····	ug/Kg	Ū.	YES	·· ···		·····	···· ·· · · · · · · · · · · · · · · ·	·····	·····	·····	····· ;		· · · · · · ·	!		·····		
Analysis Method : 8270D		·····.			Dilution		·····	·····	I.	····· · ·		l.		····· !.	Í.	I.	l.			
	- 11-032E C				anatio															

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5018

Page 315 of 353

Client Sample ID : E11-140-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879016

Reviewed By / Date :

Approved By / Date :

Lab Report Batch : 31101879

Analysis Type: RES

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Límit	Moist Tot/Dis		Тиле	IC	ICV	CV / CCV
Analysis Method : 8270D					Dilutio	on: 1				***************										
1,2,4-Trichlorobenzene	336		ug/Kg	υ	YES			1	1	1] [1		1	1
1,2-Dichlorobenzene	336		ug/Kg	U	YES				1	[;						 	1		1
1,3-Dichlorobenzene	336		ид/Кд	Ų	YES												••••••• •	\ 	1	1
1,4-Dichlorobenzene	336		ug/Kg	U	YES	1			[•••••		' 		1
2,4,5-Trichlorophenol	336		ug/Kg	U	YES											•••••		۱ ۱		1
2,4,6-Trichlorophenol	336		ug/Kg	U	YES	1			·									' 		!
2,4-Dichlorophenol	336		ug/Kg	U	YES											·····	·····/	' 		1
2,4-Dimethylphenol	336		ug/Kg	U	YES					•••••••		1			······			! {		I
2,4-Dinitrotoluene	336		ug/Kg	U	YES										·					!
6-Dinitrololuene	336		ug/Kg	V	YES			•••••				····	·!	······	!		·····		1 I	! I
-Chloronaphthalene	336		ug/Kg	υ	YES	·····i						······	<i>:</i>		'	·····!	······		 I	1
-Chiorophenol	336		ug/Kg	U	YES	÷	·····2					؛ ا		¦					! 	! 1
-Methyinaphthalene	336		ug/Kg	U	YES		·····		·	· · · · · · · · · · · · · · · · · · ·	·!		 	!		<u>؛</u> ؛		••••••	<u> </u>	! !
-Methylphenol	336		ug/Kg	U	YES	·····		' 	<i>!</i> !		 ا	! ! ا	! 		·····!	·		•••••		!
-Nitroaniline	336		ug/Kg	U	YES	i.	······	·	<i>ا</i> ر	·····2	······	<u>ا</u>	·····	!	••••••		! }	••••		! !
Nitrophenol	336	1	ug/Kg	U	YES	········ 			·i	· · · · · · · · ·	 ا	<u>ب</u>	يل ا	·····	. ؛	····· •		••••••	·	i I
and/or 4-Methylphenol	336	·····	ug/Kg	υ	YES	1		· · · · · · · · · · · · · · · · · · ·	· · · · · · ·		الليدية ما ا	ا ا	<u>1</u>	·····¦	·····¦·	····· ¦				
Nitroaniline	336		ug/Kg	U	YES			· · · · · · · · · · · · · · · · · · ·	····· /	······		······	·····	····· !		·····	· ¦ }			
Bromophenyl phenyl ether	336	1	ug/Kg	U	YES	i. 				·····/	·····:	؛؛ ا	······¦	1	f.	·····	<u>}</u>			:
-Chloro-3-melhylphenol	336		ug/Kg	υÏ	YES	····· :.			· · · · · · · · ·			 1	····· /			····· 4	····			
Chloroaniline	336	1	ug/Kg	U	YES	····.í.	·····					·····•	i.	.1		····· · · · · · · · · · · · · · · · ·	· • · · · • • •	!		
Chlorophenyl phenyl ether	336		ug/Kg	U I	YES	···· · .!.	i	······	·····!			! 1	· · · · · · · · ·		· · <i>· · ·</i> · · · · · · · · · · · · · ·	f	·····		! I	
Nilioaniline	336		ug/Kg	υİ	YES	·····	······		·····/·	· · · · · · · · · · · · · · · · · · ·		·····			·····!·	!. 		· · · · · · · · ·	·····•	
Nitrophenol	336		ug/Kg	υŤ	YES	••••••	!-	·····		! 	·	····		·····/	······		· · · · · · · · · · · · · · · · · · ·	· · · · · · · ·		••••
cenaphlhene	336		ug/Kg	U	YES	·····!· 1	·····	·····		·····	·····	····· · · ·		· · · · · · · · · · · · · · · · · · ·	·····!·		k	ا		• • • • • • • • •
cenaphthylene	336		ug/Kg		YES	••••••	•••••	····		·····	•••••	·····.		····· •	·····}·	·····	·····	·····.		••••

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:22

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5019

Page 316 of 353

.

Lab ID : SGSW

Client Sample ID : E11-140-S3

Sample Date : 07/14/2011 Lab Sample ID: 31101879016 Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Page 317 of 353

\$

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	£ab Qual	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	voi	CV / CCV
Analysis Method : 8270D					Diluti	on: 1		• • • • • • • • • • • • • • • • • • • •												
Anthracene	336		ug/Kg	U	YES														1	1
Benzo(a)anthracene	336		ug/Kg	U	YES												1		1	
Benzo(a)pyrene	336		ug/Kg	U	YES															.!
Benzo(b)/luoranthene	336		ug/Kg	U I	YES							••••		•••••	1			•••••		1
Benzo(g,h,i)perylene	336		ид/Кд	U	YES												······	•••••	 I	
Benzo(k)fluoranthene	336		ug/Kg	U	YES			1									یل ا	••••	!	1
Bis(2-Chloroethoxy)methane	336		ug/Kg	U	YES					·····	······································				1			•	/ [1
Bis(2-Chloroethyl)ether	336		ug/Kg	V	YES			i	·/		·····					·····	·····		1	1
Bis(2-Chloroisopropyl)ether	336		ug/Kg	U	YES			·····	·····	·····	······		·	·····		؛۱			' I	
Bis(2-Ethylhexyl)phthalate	336		ug/Kg	Ų	YES			Î	······	ئــــــــــــــــــــــــــــــــــــ	۱		'۔۔۔۔۔۔ ا			······!			'! F	1 1
Bulyi benzyi phihalate	336		ug/Kg	υ	YES				· · · · · · · · · · · · · · · · · · ·	·····	 ا	: 	'' 	····· · · · · · · · · ·		 	\ ا		·····	
Chrysene	336		ug/Kg	U	YES		i	·····		· · · · · · · · · · · · · · · · · · ·	 	······	······	······!		······ 	 ا		·	1
Dibenz(a,h)anthracene	336		ug/Kg	U	YES					·····/		······	······	!	·····	 				!
Dibenzofuran	336	1	ug/Kg	U	YES	1			1			: ا	····· /			 	 	·····		
Diethyl phthalate	336		ug/Kg	U	YES			 			·····	······		·i	: -		······	·····		1 I
Dimethyl phthalate	336		ug/Kg	u	YES	1	·····	Î	·····			 	· '		•••••••••	1 	·····.	! 		<u>.</u>
Di-n-butyl phthalate	330	1	uy/Kg	U	YES			i		·····	: 	i	·····	·····!	·····¦-	·····!		<u>ا</u>		
Di-n-octyl phthalate	336		ug/Kg	U	YES	·····	·····				·····i	······	· · · · · · · · · · · · · · · · · · ·		i.			! ا	·····!	
Fluoranihene	336		ug/Kg	U	YES			 	· · · · · · · · · · · · · · · · · · ·	······ 	·····	······ I	·····', 		·····	···· ··!		 1	!	(
Fluorene	336		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		·····		·····	······;	····· .	 1	•••••	· • · · · · · · · · · / ·	•••••		·····/		: I
Hexachiorobenzene	336		ug/Kg	υİ	YES		· • • • • • • • • • • • • • • • • • • •	····		······	······			···· · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·····	······	۶۶ ا	·····	:
Hexachlorobutadiene	336		ug/Kg	U	YES			··· ·· •	i i i i i i i I		······		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		·····		····· !	
Hexachlorocyclopentadiene	336	1	ug/Kg	U	YES			····i		·····	······ {	·····	· · · · · · · · · · · · · · · · · · ·		·····!. }	••••••	·····	·····	····· 1	1
Hexachloroethane	336		ug/Kg	U	YES	i.	· · · · · · · · · · · · · · · · · · ·	<u>`</u>	i		·····, 	1			· • • • • • • • • • • • • • • • • • • •				!	
indeno(1,2,3-cd)pyrene	336	1	ug/Kg	U	YES		·····	·····	·····	······	·····	·····	·····/.	·····		!. 			!	• • • • • • • •
sophorone	336		ug/Kg	υİ	YES				· · · · · · · · · ·	·····	····· 1.	£.	·····					· · · · · · · · · · · · · · · · · · ·		

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:22

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5020

Client Sample ID : E11-140-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879016

												• • • • • • • • • •			••••••	•••••	•••••	••		
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quaf*	Temp	нτ	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV /
Analysis Method : 8270D					Diluti		~													
Naphihalene	336		ug/Kg	U	YES	. 1	1]	1		i		1 1		1 3		1	1
Närobenzene	336		ug/Kg	U	YES				1					••••		••••	!	•••••	!	!
n-Nilrosodi-n-propylamine	336		ug/Kg	U	YES		·····						•••••				!	••••••	: :	¦
Pentachlorophenol	336	•••••	ug/Kg	υ	YES		!				<u>}</u>			·····						<u> </u>
Phenanthrene	336		ug/Kg	U	YES				4						!! !					
Phenol	336	•••••	uq/Ko		YES		!!		1						!í				!	ļ
Pyrene	336		ug/Kg	ī U	YES		··.t							••••			1		!	<u> </u>

Lab Report Batch : 31101879

Analysis Type: RES

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:22		Page 318 of
 Overall result qualifier reflects summ 	ation of qualifiers added during automated data review and any qualifiers a	ded manually for categories not assessed by automated data	a <i>r</i> eview	-



353

Lab ID : SGSW

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Overall Quai* Lab Dup Rep Moist Limit Tot/Dis Field QC CV / CCV Rep Res Analyte Name Result Error Units Qual Temr нт MB LCS MS Surr icv Tune IC Analysis Method : 8081 Dilution: 10 4.4'-DDD 7.36 ug/Kg JP YES J J 4,4'-DDD 7.36 JP YES ug/Kg J J 4.4'-DDE 102 ug/Kg υ YES ŲJ IJ 4,4'-DDE 102 IJ ug/Kg υ YES θJ 4.4'-DDT 107 ug/Kg YES J J. 4,4'-DDT 107 ug/Kg YES J J Aldrin 102 ug/Kg υ YES UJ υJ Aldrin 102 ug/Kg υ YES ມມ UJ alpha-BHC 102 ug/Kg υ YES UJ IJ alpha-BHC 102 YES ug/Kg υ θIJ IJ alpha-Chlorda 102 U YES ÛĴ ug/Kg υJ alpha-Chlordane 102 ug/Kg υ YES UJ UJ bela-BHC 102 ug/Kg YES IJJ υ υJ beta-BHC 102 ug/Kg υ YES UJ UJ Chlordane 340 υ YES пî ug/Kg UJ. Chlordane 340 ug/Kg υ YES UJ ΟJ della-BHC 102 ug/Kg υ YEC UJ IJ della-BHC 102 ug/Kg U YES U.J υJ Dieldrin 102 YES UJ. ug/Kg υ UJ Dieldrin 102 U YES UJ ug/Kg IJJ Endosulfan I 102 ug/Kg υ YES υJ υJ Endosulfan I 102 ug/Kg U YES IJ UJ Endosulfan il 102 ug/Kg υ YES UJ IJ Endosulfan II 102 YES U υJ ug/Kg υJ Endosulian sulfate 102 ug/Kg υ YES UJ UJ Endosulfan sulfate 102 ug/Kg υ YES UJ υJ

Lab Report Batch : 31101879

Analysis Type: DL

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:22

Page 319 of 353 Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5022

Lab ID : SGSW

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Reviewed By / Date :	•••••								, ,	Date :	•••••									
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overail Qual*		нт	мө	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	cv/ ccv
Analysis Method : 8081					Diluti	on: 10							•••••••			••••		* • • • • • • •		
Endrin	102		ug/Kg	U	YES	UJ	1	1	1				UJ			i	[1	ī
Endrin	102		ug/Kg	U	YES	UJ			1		•••••		UJ				:	1	1	1
Endrin aldehyde	102		ug/Kg	U	YES	UJ						}	UJ				1	1	1	1
Endrin aldehyde	102		ug/Kg	U	YES	IJ							UJ				1	` [I	i
Endrin kelone	102		ug/Kg	U	YES	UJ							UJ					` 	 I	1
Endrin kelone	102		ug/Kg	U	YES	UJ						}	UJ				1	' Į	1	1
gamma-BHC (Lindane)	102		ug/Kg	U	YES	IJ					•••••		UJ	••••••			1	` }	1	!
gamma-BHC (Lindane)	102		ug/Kg	U	YES	UJ						 	UJ					•••••• [/	:
gamma-Chlordane	102		ug/Kg	U	YES	UJ				1			UJ					 I		1
gamma-Chlordane	102		ug/Kg	U	YES	UJ	1			1			UJ						1	1
Heplachlor	102		ug/Kg	υ	YES	UJ							UJ		! 	•••••••		 		!
Heplachlor	102		ug/Kg	U	YES	LU							UJ						1	
Heptachlor epoxide	102		ug/Kg	υ	YES	IJ	1	1					IJ							!
Heptachlor epoxide	102		ug/Kg	U	YES	IJ			·····				εIJ			······	· · · · · · · · · · · · · · · · · · ·	••••	······!	:
Methoxychior	102	ĺ	ug/Kg	U	YES	บม				 		1	UJ	·····		؛ ا	1		1	!
Vethoxychlor	102	1	ug/Kg	U	YES	UJ	i 	 I		······	·······	! 	UJ	·····		<u>،</u>	ئىيىيىت ا	••••••	! 	
Foxaphene	340	1	ug/Kg	u	YES	UJ	······· 	······	·····			······	UJ I	· · · · · · · · · · · ·	·····!		 		······!	
Гохарћеле	340	1	ug/Kg	U	YES	UJ			······		······		UJ		••••••		 I		·····!	:

Lab Report Batch : 31101879

Analysis Type: DL

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:22		Page 320 of 353
* Overall result qualifier reflects summ	ation of qualifiers added during automated data review and any qualifiers added manually for	categories not assessed by automated data	a review	

5023

Lab ID : SGSW

...

EC.

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Reviewed By / Date :

Lab Sample ID: 31101879028

Approved By / Date :

Lab Report Batch : 31101879

Analysis Type: RES

,

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV CCI
Analysis Method : 6010C					Dilutio	m: 1									****					
Arsenic	2.38		mg/kg		YES		İ		1				[(1	
Barium	57.8		mg/kg		YES												l	•••••		: !
Cadmium	0.509		mg/kg	J	YES	Ų			U								1		/ 	1
Chromium	2.79		mg/kg		YES								• • • • • • • • • •	•••••	1	•••••	(
Lead	8.08		mg/kg		YES	J	1					J							••••	!
Selenium	2.20		mg/kg	U	YES							······				••••	L		· · · · · · · · · · · · · · ·	: I
Silver	0.267		mg/kg	J	YES	U	1		υ		······ 	· '			!/	••••••	·,			! !
Analysis Method : 7471B					Dilutio	ก:1				•••••					!					l
Мегсигу	0.000950		mg/kg	J	YES										1					 I
Analysis Method : 8151					Dilutio	n:1					• • • • • • • • • •									ł
2,4,5-T	0.0167		mg/kg	U	YES					1	1		1				 I			
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES	1						1	· 				· • • • • • • • • • • • • • • • • • • •	'' 1	!! 	:
2,4'-D	0.0167		mg/kg	U	YES		ì		· · · · · · · · · · · · · · · · · · ·		·····	، ا	! 	·····!	.			<i>!</i> ا	! 	
2,4-DB	0.0167		mg/kg	U	YES	1			1			 	<i>ئ</i> ـــــــ ا	· 		········	i		!!	••
Dicamba	0.0167		mg/kg	U	YES			1				······	· 		•••••!• }			· !		••
Analysis Method : 8260B					Dilutio	n: 1										!	•••••	<i>t</i>	l	• • • • • •
i,1,1,2-Teirachloroelhane	4.00		ug/Kg	U j	YES	1	Ĩ	1			į	i			1					
,1,1-Trichloroelhane	4.00		ug/Kg	U	YES		1	1		1				! 		·····	 		······!	
,1,2,2-Tetrachloroethane	4.00	1	ug/Kg	U	YES	1				······		·····		······	······	·	·····		·····!	
,1,2-Trichleroelhane	4.00	1	ug/Kg	U	YES		i.	·····	· · · · · · · · · · · · · · · · · · ·		t. 			·····!		······ 1	·····	·····		••• ••
,1-Dichloroethane	4.00	1	ug/Kg	υ	YES	···· ····	·····			i. I		· · · · · · · · · · · · · · · · · · ·		!! 	·····'·	·····	······		·····	
,1-Dichloroethene	4.00	1	ug/Kg	U	YES		·····i	······ 	·····i	· · · · · · · · · · · · · · · · · · ·					·····:	<u>ا</u> ا	·····	·····.;		
,1-Dichloropropene	4.00	1	ug/Kg	U	YES			 	······	 	• ······			·····!		·····	••••••••	·····¦	······	• • • • • • •
,2,3-Trichlorobenzene	4.00		ug/Kg	บ	YES	1		······	·····	 1			· · · · · · · · · · · · · · · · · · ·	······	· · · · · · · · · · · · · · · · · · ·		·····	t. 4	· · · · · · · · · ! ·	
,2,3-Trichloropropane	4.00		ug/Kg	U	YES	í. 		:	 I	/. /. [! }			·····!	·····		· · · · · · · · · · · · · · · · · · ·	····· }		
2,4-Trichlorobenzene	4.00	1	ug/Kg	U	YES		·····!.	 I	 1	····	·····¦-	····· • •. 		! 					·····	
,2,4-Trimethylbenzene	4.00	****	ug/Kg	υ	YES	···· <i>·</i> !·		י 				······	.بر ا	¦. 		! 	·	<u> </u>	······!	
oject Number and Name: 11-032E	• 11-032E C	arroll Agent	Orange								Libra	ary Use	n: 4	CampC	arroll	· · · · · ·				
DR 8.2										ort Date				saupo	arroll				321 of	

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Page 322 of 353

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV/ CCV
Analysis Method : 8260B					Diluti	on: 1						•••••	• • • • • • • • • • • •							
1,2-Dibromo-3-chloropropane	24.0		ug/Kg	U	YES					1				1					!	
1,2-Dibromoethane	4.00		ug/Kg	U	YES								••••••••••••••••••••••••••••••••••••••		!i		! 	 I	<u>.</u>	4
1,2-Dichlorobenzene	4.00		ug/Kg	υ	YES									: l	/l		1 I			
1,2-Dichloroelhane	4.00		ug/Kg	U	YES						·									. <u>.</u>
1,2-Dichloropropane	4.00		ug/Kg	υ	YES			·····			· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·				1	
1,3,5-Trimethylbenzene	4.00		ug/Kg	U	YES							• • • • • • • • • •							!	
1,3-Dichlorobenzene	4.00	**	ug/Kg	U	YES		·i	·······	·····			• • • • • • • • •				•••••	1 1	•••••	А I	
1,3-Dichloropropane	4.00		ug/Kg	U	YES		•••••	·'	·····		·····!						!' 		! 	1
1,4-Dichlorobenzene	4.00		ug/Kg	U	YES	·····	······	`'			<u>'</u>		••••••		• • • • • • • • • • • • • • • • • • • •		!			. <u> </u>
2,2-Dichloropropane	4.00		ug/Kg	U	YES			·	····· /	<i>د</i>	·i	!!	! 	!		!			! 	1
2-Butanone	11.8		ug/Kg	3	YES	J		î	'' 	<i>:</i>	·······	!! ا	ייי-יי-י נ			· · · · · · · · · · · ·			!	<u> </u>
2-Chiorotoluene	4.00		ug/Kg	U	YES	······	'-	·····		!! {	۱۱ ا	·····!		!	í, I		1			!
2-Hexanone	10.0		ug/Kg	U	YES	1	!.	·i	!. 		·········· 	<u>ا</u> ا	ٹ ا	<u>ل</u> ـــــ	!.	····· ·	! 	·····		
4-Chlorotoluene	4.00		ug/Kg	U	YES	·i	······	i	······		······ }	! ا		<u>.</u>			·····	 I	·····	!
4-isopropyitoluene	4.00	1	ug/Kg	U	YES		······	۰، ا	 		ی ا	۱۱ ۱	·····	··!		!		<u>ل</u> ا		1
4-Methyl-2-pentanone	10.0	1	ug/Kg	υİ	YES	••••••	······	 	·!			ئىيىيى، ا		!	· · ! -	! 1		······		!
Acetone	93.5		ug/Kg	·····	YES	J		·····. 1	·····	·····	: 	······			·····¦.	····· ·	· · · · · · · · · · ·	····· ·		ŧ
Benzene	4 00		ug/Kg	U j	YES			 		······	······	·····!		1	······	ع٤ ا		! ا		1
Bromobenzene	4.00		ug/Kg	U	YES		·······	 	·····.			יייייייייייייייייייייייייייייייייייייי	ייי. ו	·····.		! 	·····	ا ا		
Bromochloromethane	4.00		ug/Kg	υ	YES			·····i	·····		····· 				·····	· · · · · · · · [·····-	!!	!	! 1
Bromodichloromethane	4.00	1	ug/Kg	U	YES		·····	·····	·····		·····	! 	······		· · • · · · · · · · · · · · · · · · · ·	···· ¦	Å	!		!
Bromoform	4.00		ug/Kg	U	YES	·····i.		!	······	·····	/i.	יייייי. ו	f.			·····			l	
Bromomethane	4.00	1	ug/Kg	U	YES	······	·····	1	····· · · ·	·····		E.		·····!·				Ē		
Carbon disulfide	4.00		ug/Kg	U	YES	·····	······'	·,		، !	.غ ا	!. 	i	!-		!	 		[
Carbon letrachloride	4.00		ug/Kg	υ	YES		·····!··	····	·····	یا ا	······	·····	<u>h</u>	·····		ŧ	· · · · · · · ·	!		
Chlorobenzene	4.00	• • • • • • • • • • • • • • • • • •	ug/Kg	u i	YES	·····	··•. 1	····			·····	·· ··		····.	·····			·····		

Lab Report Batch : 31101879

Analysis Type: RES

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5025

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Page 323 of 353

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Quał*		ΗТ	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ю	icv	CV /
Analysis Method : 8260B					Diluti	on: 1											rene	12	104	
Chioroelhane	4.00		ug/Kg	U	YES				1		1		1]			1		I	1
Chloroform	4.00		ug/Kg	U	YES					/ 	: 				!! 				£	
Chloromethane	4.00		ug/Kg	u	YES			••••	1	1	! 		! !	· · · · · · · · · · · ·	!!		!! 		!	, !
cis-1,2-Dichloroethene	4.00		ug/Kg	U	YES		·····				· · · · · · · · · · · ·	.! }				• • • • • • • • • •	!! 	• • • • • • • • • • •	! 	
cis-1,3-Dichloropropene	4.00		ug/Kg	U	YES		······		'							••••			! 1	Į
Dibromochloromethane	4.00		ug/Kg	Ų	YES		•••••••		' [••••								l	<u> </u>
Dibromomelhane	4.00		ug/Kg	υ	YES	••••	·i			•	••••	: :				······				!
Dichlorodifluoromethane	4.00		ug/Kg	U	YES	· 	/	·····						••••••	· 3 í	·····				1
Ethyl Benzene	4.00	•••••	ug/Kg	U	YES		' 	······							·,!			••••••		
Hexachlorobutadiene	4.00		ug/Kg	U	YES		i	·'		!		:		····!	·!					!
sopropylbenzene (Cumene)	4.00		ug/Kg	U	YES			•••••••				!! !	·	·····!	·	······		·····		
n,p-Xylene	8.00		ug/Kg	U	YES	······	····· 1	! 	!! ا		' i	·!	<u>ئ</u> ۔۔۔.، ا		·····		·····			<u> </u>
vlethyl iodide	2.21		ug/Kg	J	YES	J	· ,		·····!	 ا			ل ا	·····!	••••••		·····	·····!		<u> </u>
Methylene chloride	0.960		ug/Kg	; ;	YES	UJ	······			 ا				·····!	·····!.	······	······	······	·····	<u> </u>
vaphthalene	4.00		ug/Kg	U	YES	·····			د , ت ا	······				!	······!·	·····!	•••••			
I-Bulylbenzene	4.00	·····	ug/Kg		YES		!- 	<u>ب</u> ــــــ	·!			·····¦	l. 	·!	·····.¦.	· · · · · · · · · ·	······			
a-Propylbenzene	4.00		ug/Kg	υi	YES	····· ·!·		ئىئ ا	····· /	·····		!!	!. 		·····//	····· ¦	·····	!		
-Xylene	4 00		ug/Kg	υ	YES	·····/·			······		••••••		······		·····!.		·····	····· .		
ec-Bulylbenzene	4.00		ug/Kg	υ÷	YES	····.!.	·····	•••••••	······			! ا			·····	t	·····	·····¦		
Slyrene	4.00		ug/Kg	ย่	YES		·····	יייייי ו	•••••••		؛؛ ا	······	·····				·····.	····	!	
ert-Butyl methyl ether (MTBE)	4.00		ug/Kg	υÌ	YES		!-	·····	····· 1	h	······				·····].	····.			ļ	••••
ert-Bulylbenzene	4.00		ug/Kg		YES	i.	·····!				••••••• 1			······		····· ¦	·····		!	• • • • • • • • •
etrachloroethene	4.00		ug/Kg	υ	YES	i. H		···· ···!						· · · · · · · · · · · · · · · · · · ·			·····		!	
oluene	4,00	***************************************	ug/Kg		YES		····.	E		······	<u>,</u>	E	·····	·····		····· [·····	····		
ans-1,2-Dichloroethene	4.00	***************	ug/Kg	•••••••••	YES		·····.				t	·····		·····	•••••	···· ¦			···	• • • • • • • • •
ans-1,3-Dichloropropene	4.00		ug/Kg	• • • • • • • • •	YES		· · · · · · · · · · · · · · · · · · ·	. .	• • • • • • • • • •	·····	·····-	ļ.		[.	·····	E			ļ	· · · · · · · · · ·

Lab Report Batch : 31101879

Analysis Type: RES

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5026

Client Sample ID : E11-146-S1

Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Reviewed By / Date :

Approved By / Date :

Lab ID : SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field	Типе	IC	ICV	CV/ CCV
Analysis Method : 8260B					Diluti	on: 1	·					•••••								
trans-1,4-Dichtoro-2-butene	20.0		ug/Kg	U	YES					1	1		1	1					ł	1
Trichloroethene	4.00		ug/Kg	U	YES								`		1				1	1
Trichlorofluoromethane	4.00		ug/Kg	U	YES								••••••••••		:! 	••••		••••	¦	1
Vinyl chloride	4.00		ug/Kg	U	YES												······	•		1
Analysis Method : 8270D				• • • • • • • • • • • • • • • • • • • •	Dilutio	on: 1			•••••						·····				·····	1
1,2,4-Trichtorobenzene	335		ug/Kg	U	YES												í		;	 F
1,2-Dichlorobenzene	335		ug/Kg	U	YES														!	1
1,3-Dichlorobenzene	335		ug/Kg	U	YES														! 	! I
1,4-Dichlorobenzene	335		ug/Kg	U	YES						······							•••••	••••••••••••••••••••••••••••••••••••••	! !
2,4,5-Trichlorophenol	335		ug/Kg	υ	YES			·····			·····		· · · · · · · · · · · · · · · · · · ·				 ا	••••	! 1	! 1
2,4,6-Trichlarophenol	335		ug/Kg	υ	YES			۰۰۰۰۰۰ ا	···· ··· ·		ئى 1	۰۰۰۰۰۰ ا				!! 	<u>ا</u> با		!. !	!
2,4-Dichlorophenol	335		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		····· ·	·····	· · · · · · · · · · · · · · · · · · ·	<u>ن</u> د	· · · · · · · · · · · · · · · · · · ·	!	l	·····!	!	ئىيىيىن ا		ŧ	!
2,4-Dimethylphenol	335		ug/Kg	υ	YES	 Į	· · · · · · · · · · · · · · · · · · ·	···· · ··· ·	'' 	···· · · · · · · · · · ·	؛ ا		!			····· /	l			
2,4-Dinitrotoluene	335	·····	ug/Kg	U	YES	؛۔۔۔۔ ا	י 	''. 	····· ·	!! 	····· ! 	<u>ا</u> ا		!	·····!·		!. I			! I
2,6-Dinitrololuene	335		ug/Kg	U	YES	······	······	······	····· 1	? ا			l I	•••••	ł.	!! 		······!		
2-Chloronaphlhaiene	335		ug/Kg	U	YES	·····i		1		·····/		<u>ب</u>	· · · · · · · · · · · · · · · · · · ·			···· · ! 	·	·····!		/
2-Chlorophenol	335		ug/Kg	U	YES		·····	·`	·····				 	! 	·····	·····¦	••••••	·····.!	••••••	:
2-Methylnaphthalene	335	1	ug/Kg	11	YES		1		······			! 	.ل ا	·!		·····	·!!!!!!!!-	!! 		
2-Melhylphenol	335		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		·····			! 	<u>ئ</u>		·····	·····	······	<u>!</u>		
2-Nitroaniline	335		ug/Kg	υi	YES		·····	·····	·!	<u>ئى</u>	•••••••	י ו	·····	!		•••••• <u>•</u>	·	!		
2-Nitrophenol	335	·····	ug/Kg	U	YES	 	!		'- 	······	·.¦.	······	······ 1	·····	••••·····		·····			
and/or 4-Methylphenol	335		ug/Kg	υ	YES		·······	····-	 	······	i.	·····	·····	!	·····	·····				••••
Nitroaniline	335		vg/Kg	υİ	YES	·····	!. 	·····	······	······-	¦.	······	·····-¦-	·····	•••••			!		***
-Bromophenyl phenyl ether	335	·····	ug/Kg	υÌ	YES	······	!	·	·····	·······!	·····;	·····¦	······	·····¦.		·····	·····	<u>t</u>	·····-	
-Chioro-3-methy/phenoi	335		ug/Kg	U	YES		·····		·		••••••				·····			·····	!	• • • • • • •
-Chloroaniline	335		ug/Kg	U	YES	i- I	·····	¦ 	·····	.بر ا	·····! }			····!	·····	· • • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · ·	
-Chlorophenyl phenyl elher	335		ug/Kg	••••••	YES	·····	·¦ 	<u>-</u>	<u>!</u>	.؛ ا	£. 	<u> </u>		!. I	!	l.		·····	l	· · · · · · · · · · ·
oject Number and Name: 11-032E	- 11-032E C										Libra	ary Use		CampC	arroll		·····		!	
DR 8.2		•	<i>\$</i>						Pon	ort Date		•		ampo					324 of	

Lab Report Batch : 31101879

Analysis Type: RES

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Lab Report Batch : 31101879

Analysis Type: RES

,

.

Lab ID ; SGSW

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overaii Qual*	Yama	нт	мв			Lab		Rep	Molst	Field				CV /
Analysis Method : 8270D	(teoun		VIIIts	quai	Diluti		Temp	L1 1	mb	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	រីមេរាខ	IC	ICV	ccv
4-Nitroaniline	335		ug/Kg	U	YES	: 1			1	1		;	1	1	1		1			
4-Nitrophenol	335		ug/Kg	 U	YES	· · · · · · · · · · · · · · · · · · ·			• •	! 1	<u></u>	:	1		1		1	 	ļ	
Acenaphthene	335		ug/Kg		YES				l	! 		i , {	<u>.</u>		! 		<u> </u>	} 	ļ	
Acenaphthylene	335		ug/Kg		YES			•••••		!	, 		1	1					1	I
Anthracene	335		ug/Kg	U	YES			····/		! !				; 	! 				1	ļ
Benzo(a)anthracene	335		ug/Kg	 U	YES		!! !	·····'		! 	5		! 1		[1		<u> </u>	Į
Benzo(a)pyrene	335	•••••	ug/Kg		YES		······!	۶۶ ا		' I	·	•••••	! !	!					1	1
Benzo(b)fluoranthene	335		ug/Kg	- Ū	YES		·····!	ا ا		!	!		!						<u> </u>	<u> </u>
Benzo(g,h,i)perylene	335		ug/Kg	Ū	YES		l				!		l 				,	•••••	<u>!</u>	!
Benzo(k)fluoranthene	335		ug/Kg	U	YES		!				/				l			•••••	1	
Bis(2-Chloroelhoxy)methane	335		ug/Kg	U	YES		·····!				·····!					••••••			<u> </u>	
Bis(2-Chloroethyl)ether	335		ug/Kg		YES		· • · • • • • • • • • • • • • • • • • •	·····							<u> </u>					¦
Bis(2-Chloroisopropyl)elher	335		ug/Kg	U	YES		·!	۱,۱	!	······!		······!				·····!	ا ا		!I	<u> </u>
Bis(2-Ethylhexyl)phthalate	335	·	ug/Kg	υ	YES				!	<i>:</i>		·····!	 	······			·		[] 1	
Bulyl benzyl phihalale	335		ug/Kg	U	YES	••••••	·····		······	·····	<u>ا</u>	······		!		·····.			ļļ	
Chrysene	335		ug/Kg	U	YES	!.		<u>-</u>	ار ا	······	······		<u>!</u>		·····	E	·····	••••••	!	••••
Dibenz(a,h)anlhracene	335	•••• ••••	ug/Kg	υ	YES	••••••	····.!	¦	·····	! 	······!	!	! I		·····		·····			
Dibenzofuran	335		ug/Kg	U	YES	·····!·	····· !. 	ייייייי ו	؛ ا	!	! 	····· ··· · · · · · · · · · · · · · ·	!! 	·····!		·····¦	····			
Dielhyl phthalale	335	• • • • • • • • • • • • • • • • • • • •	ug/Kg	U	YES		···· •···!·	 	¦¦	·····	······	¦¦	······!	·····!		E				
Dimethyl phthalate	335	· • • • • • • • • • • • • • • • • • • •	ид/Кд	U i	YES	·····	·····	ال ا	יייייי ו		·····	!	<u>؛</u>				· · · · · · · · · · ·			• • • • • • • •
Di-n-butyi phthalale	335		ug/Kg	U	YES	······!·			·····¦	؛ ا		ا ا	···· ··!				3			• • • • • • •
Dì-n-octyl phthalale	335		ug/Kg	υÌ	YES	·····		·· · · · ¦	····· ·			۱۱ ۱	4. J			·····	<u>-</u>		·	••••••
Fluoranthene	335		ug/Kg	υÌ	YES			·····				۹۴ ا	·····²	·	·····¦.		! :			• • • • • • • • •
luorene	335		ug/Kg	υŤ	YES		<u></u>	<u>1</u>	······!		t. 		·····-			••••••	····· .	·····-		•••••
fexachlorobenzene	335	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	!! I	····	·····				·····			·····		····	 	·····	• • • • • • • • •
lexachlorobuladiene	335		ug/Kg	U	YES	····· · ·	····•	· · · · · · · · ·	¦.	l. I	······		·····	·····	••••••	·····!	·····	!	· · · · · · · · · · · · · · · · · · ·	•••••

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 325 of 353

• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5028

Client Sample ID : E11-146-S1 Sample Date : 07/14/2011

Lab Sample ID: 31101879028

Reviewed By / Date :

Reviewed By / Date :	Approved By / Date :																			
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Qual*	Temp	нт	мв	LCS	мз	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC.	ICV	CV/
Analysis Method : 8270D					Diluti	on: 1	·····				****	•••••					//			
Hexachlorocyclopentadiene	335		ug/Kg	U	YES						1	1	i	1	1		1		1	1
Hexachloroelhane	335		ug/Kg	U	YES			1		,	 	\ 	•		1		1	!]	- !	1
Indeno(1,2,3-cd)pyrene	335		ug/Kg	U	YES					! 	¦	·			1		! [!		1
Isophorone	335		ug/Kg	υ	YES		•••••	<u>.</u> 		' 	 }				1 1			 I		
Naphthalene	335		ug/Kg	U	YES					• • • • • • • • • • •	: 	, 			!	• • • • • • • • • •	1			!
Nitrobenzene	335		ug/Kg	υ	YES				'i	••••••	! }	• • • • • • • • • • • • • • • • • • •			1	•	!		1	1
n-Nitrosodi-n-propylamine	335	••••••	ug/Kg	U	YES				·						!!		!!	••••••	1	1
Pentachlorophenol	335		ug/Kg	U	YES					••••			· · · · · · · · · · · · · ·	••••		••••			. <u>.</u>	!
Phenanihrene	335	• • • • • • • • • • • • • • •	ug/Kg	U	YES			••••	·				· · · · · · · · · · · · · · · · · · ·	••••		•••••			4	!
Phenol	335		ug/Kg	U	YES			•••••	·/	·····				••••••	1 	••••	<u> </u>		ł	! !
Pyrene	335		ug/Kg	υ	YES		· · · · · · · · · · · ·		·/	<i>ن</i>	·····	1	<i>ا</i> ا	•••••	!! 	••••••	!		<u>.</u>	!

Lab Report Batch : 31101879

Analysis Type: RES

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll
ADR 8.2		Report Date: 9/6/2011 08:23	Pa
* Overall result qualifier reflects sum	mation of qualifiers added during automated data review and any qu	alifiers added manually for categories not assessed by automated data	a review

5029

ige 326 of 353

Lab ID : SGSW

Sample Matrix : SO

.

۰.

Client Sample ID : E11-146-S2 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879029 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Rep Res Overail Qual* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Quat Error Units Temr нт MB LCS MS Surr ю ICV Типе Analysis Method : 6010C Dilution: 1 Arsenic 19.8 mg/kg YES Barium 65.3 YES mg/kg Cadmium 0.698 mg/kg YES U U Chromium 2.79 mg/kg YES Lead 13.9 mg/kg YES J J Selenium 0.495 YES mg/kg Silver 0.264 mg/kg YES J υ υ Analysis Method : 74718 Dilution: 1 Mercury 0.0202 mg/kg ប YES l Analysis Method : 8081 Dilution: 1 4,4'-DDD 9.70 ug/Kg U YES 4,4'-DDD 9.70 ug/Kg υ YES 4,4'-DDE 4.78 ug/Kg J YES 4,4'-DDE 4.78 YES ug/Kg 4,4'-DDT 14.7 ug/Kg YES 4,4'-DDT 14,7 YES ug/Kg Aldrin 9.70 ug/Kg 11 YES Aldrin 9,70 YES υ ug/Kg alpha-8HC 9.70 ug/Kg υ YES alpha-BHC 9,70 ug/Kg υ YES alpha-Chlordan 9.70 U YES ug/Kg alpha-Chlordan 9.70 YES ug/Kg u beta-BHC 0.70 U YES ug/Kg beta-BHC 9.70 ug/Kg U YES Chlordane 32.3 U YES ug/Kg Chlordane 32.3 ug/Kg U YEŞ delta-BHC 9.70 U YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 327 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S2 Sample Date : 07/14/2011

Lab Sample ID: 31101879029

Lab Report Batch : 31101879

Analysis Type: RES

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CV /
Analysis Method : 8081	I				Diluti		·····										1400	10		
della-BHC	9.70		ug/Kg	υ	YES					[1	i		1	1		1
Dieldrin	9.70		ug/Kg	U	YES				• • • • • • • • • •			•••••	•		·	••••••	!	`	!	1
Dieldrin	9.70		ug/Kg	U	YES				• • • • • • • • • •				: 			••••	!	' <i></i>	!	1
Endosulfan I	9.70		ug/Kg	U	YES														!	
Endosullan i	9.70		ug/Kg	U	YES								1			•••••			! 1	!.
Endosulfan II	9.70		ug/Kg	U	YES				·i	••••	`í						·····	•••••	! I	1
Endosulfan II	9.70		ug/Kg	U	YES			· 1	' ا	•••••			!						!	
Endosulfan sulfate	9.70		ид/Кд	υ	YES			······								••••		•••••••	ł!	!
Endosulfan sulfale	9.70	••••••	ug/Kg	U	YES		·	·····						······		••••••				!
Endrín	9.70		ug/Kg	U	YES				·····'	<i>ز</i> /	·····¦	! ا	·····/			·····			!	!
Endrin	9.70		ug/Kg	U	YES			······	······	: إ	······ }	؛ ا		· · · · · · · · · · · · · · · · · · ·	·}				(<u>.</u>	! [
Endrin aldehyde	9.70		ug/Kg	U	YES			·	······	ئــــــــــــــــــــــــــــــــــــ	······i	؛؛ ا		·····/	·!	·····		·	·	i 1
Endrin aldehyde	9.70		ug/Kg	U	YES		······	·^	······	······	······ /	··········	·:		······	••••••			!	(
Endrin ketone	9.70		ug/Kg	υ	YES		······		۱	·····	······	<u>.</u> 	. <u>ن</u> ــــــــــــــــــــــــــــــــــــ	! 	·	 	·······			¦
Endrin kelone	9.70		ug/Kg	U	YES	······	··		·····.		 }	<u>ا</u> ا ا		! 	i. 	·····	····	·····	·····!	! -
jamma-BHC (Lindane)	9.70		ug/Kg	U	YES	·i	·i	 1	·····	ئىئ ا		·	······ 1			1	اا	! 	!	
amma-BHC (Lindane)	0.70	1	ug/Kg	U	YES	:i 	· · · · · · · · · · · · · · · · · · ·	 1	·····	··· ··· /. 	·····	! 	·····. 	····· ·	·····	·····¦	<u>}</u> ر	! 		· · · · · · · · ·
amma-Chlordane	9 70		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·····/	······	·····/			····· 1			····			!! ا	!	
amma-Chlordane	9.70		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		······		·····		ייייייי. 	· · · · · · · · · · · · · · · · · · ·		·· <i>·</i> ····	t 1		······	! 1	
leptachlor	9.70		ug/Kg	U	YES	••••	····.	 1		¦	·····		······	·····	!. 		······	؛ ؛		
leptachlor	9.70		ug/Kg	υ	YES		i. 	<u>-</u>			·····	•••••••		·····!	· • • • • • • • • • • • • • • • • • • •	 1	! 1	ار ا	·····	• • • • • • • •
leptachtor epoxide	9.70		ug/Kg	U	YES			·····	·····	 	1.1.1	' 1	 	• • • • • • • • • • • • •	·!	· · · · · · · · ·	·····			• • • • • • • •
leptachlor epoxide	9.70		ug/Kg	U	YES			·····	·····	·····	·····			·····	···········		· · · · · · · · · · · · · · ·	E	·····!	
lelhoxychlor	9.70		ug/Kg	U	YES		! . 	·····/··	·····	⁴ . 	·····-		.د ا	·····¦·	·	····-			·····	
lethoxychlor	9.70		ug/Kg	U	YES	·····		······		4h		! 		······	·····			I		
охарћепе	32.3	1	ug/Kg	U	YES		·····	·····	·····!	· ·· ··		t		·····!·	·····	·····	·····	·····¦	·····	

11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Page 328 of 353

5031

Lab ID : SGSW

Client Sample ID : E11-146-S2 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879029 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Rep Res Overall Qual* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Error Units HΥ LCS MB MS Surr IC icv Tune Analysis Method : 8081 Dilution: 1 Toxaphene 32.3 ug/Kg υ YES Analysis Method : 8151 Dilution: 1 2.4.5 T 0.0166 mg/kg υ YES 2.4,5-TP (Silvex) 0.0166 mg/kg υ YES 2.4'-D 0.0166 mg/kg υ YES 2.4-DB 0.0166 YES U mg/kg Dicamba 0.0166 mg/kg Ų YES Analysis Method : 8260B Dilution: 1,1,1,2-Telrachloroethane 3.82 ug/Kg U YES 1,1,1-Trichloroethane 3.82 U YES ug/Kg 1,1,2,2-Tetrachloroethane 3.82 ug/Kg υ YES 1,1,2-Trichloroethane 3.82 ug/Kg U YES 1,1-Dichloroethane 3.82 ug/Kg U YES 1,1-Dichloroethene 3.82 YES ug/Kg υ 1,1-Dichloropropene 3.82 ug/Kg υ YES 1,2,3-Trichlorobenzene 3.82 ug/Kg υ YES 1.2,3-Trichloropropane 3.82 ug/Kg υ YES 1,2,4-Trichlorobenzene 3.82 ug/Kg U YES 1,2,4-Trimethylbenzene 3.82 υ YES ug/Kg 1,2-Dibromo-3-chioropropa 22.9 ug/Kg υ YES 1,2-Dibromosthane 3.82 υ YES ug/Kg 1,2-Dichlorobenzene 3.82 ug/Kg υ YES 1,2 Dichloroothanc 3.82 u YES uy/Kg 1,2-Dichloropropane 3.82 U YES ug/Kg 1,3,5-Trimethylbenzene 3.82 Ð YES ug/Kg 1,3-Dichlorobenzene 3.82 ug/Kg U YES 1,3-Dichloropropane 3.82 YES ug/Kg U Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 329 of 353

Overall result qualifier reflects summalion of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S2 Sample Date : 07/14/2011 Lab Sample ID: 31101879029 Lab Report Batch : 31101879

Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overat Qual*	f Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	íC	ICV	CV CC\
Analysis Method : 8260B					Diluti	on: 1	• • • • • • • • • • • • • • • • • • • •		//.											
1.4-Dichlorobenzene	3.82		ug/Kg	υ	YES		1						 I						ī	1
2,2-Dichloropropane	3.82		ug/Kg	U	YES			1	1			•••••				••••		••••••	1	1
2-Butanone	40.3		ug/Kg		YES	J		:) 			••••••	:	! 						!
2-Chiorololuene	3.82		ug/Kg	U	YES				·										/! 1	!
2-Hexanone	9.55		ug/Kg	Ų	YES	••••••	1		1								······ · · · · · · · · · · · · · · · ·			!
4-Chiorololuene	3.82		ug/Kg	U	YES	•••••		! <i>.</i>	·								·····	•••••		!
4-Isopropyttoluene	3.82		ug/Kg	U	YES				'	•••••	i						·	•••••	1	 1
4-Melhyl-2-pentanone	9.55		ug/Kg	U	YES	•••••	:)۔۔ا ا						·····		/l	<u> </u>
Acetone	168		ug/Kg		YES	J				······	i	! 			••••••		·····			<u>.</u>
Benzene	3.82		ug/Kg		YES					······	!۔ا	!	···· • • • • • • • • • • • • • • • • •		•••••		·····	!	[]	
Bromobenzene	3.82		ug/Kg	υ	YES					<u>ا</u>	·····		لــــــــــــــــــــــــــــــــــــ	!	••••		<u>-</u>		<u>.</u> !	<u> </u>
Bromochloromethane	3.82		ug/Kg		YES	•••••••		······	ارا ا		······	······!	······ /	······		·····.	·····-		<u>.</u>	
Bromodichloromethane	3.82		ug/Kg	υ ;	YES			ار ا	اا ا		! 1	·····	······!			·····-		••••••	·	
Bromoform	3.82	·····	ug/Kg	υÎ	YES	••••••••••••••••••••••••••••••••••••••	••••••		!		 	l	!. 	••••••		·····	·····		!	
Bromomelhane	3.82	·····	ug/Kg	υÏ	YES	<u>ا</u> ء۔۔۔۔۔ ا	······	ار ا		·!		·····!		·····!		·····-	·····	·····	!	•
Carbon disulfide	3.82		ug/Kg	U I	YES	······	<u>ا</u> ۔۔۔۔۔	·····				!				·····	····			
Carbon tetrachloride	3.82		ug/Kg	U i	YES	· · · · · · · · · · · · · · · · · · ·	¦		·····¦			·····	····· !		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·	<u> </u>	··· · · · .	·····-	
Chlorobenzene	3 82		ug/Kg		YES	!! 	!! 		•••••••	k. I		·····	····· 2	· · · · · · · · · · · · · · · · · · ·	·····			·····.		••••
Chloroelhane	3.82		ug/Kg	υİ	YES	······'		····!	!. I			·····		····.		····	·····	ļ		
Chioroform	3.82	•••••••••••••••••••••••••••••••••••••••	ug/Kg		YES	····· ¦			· · · · ·	·····	·····	·····.	····			·····.	· · · · · · · · · · · · · · · · · · ·			••••••
Chloromelhane	3.82	•••••••••	ug/Kg	$\cdots \cdots \phi$	YES	!		······	·····	····· ¦	·····[.	·····	·····	ļ		· · · · · · · · · ·		····· .	ļ	
is-1,2-Dichloroelhene	3.82		ug/Kg		YES	!	· · · · · · · · · · · · · · · · · · ·		·····	<u>1</u>	·· ·	·····		·····-		· · · · ·	·····	!		
is-1,3-Dichloropropene	3.82	• • • • • • • • • • • • • • • • • • • •	ug/Kg		YES	······!	· · · · · · · · · · · · · · · · · · ·		· · · · · ·	·····-	····· }.	E.	·····	·····.			·····	·····		
ibromochloromelhane	3.82	•••••••••••••••••••••••••••••••••••••••	ug/Kg	····.	YES	·····	<u>!</u>		·····!-						····	·····.	•••••	ļ		· · · · · · · · ·
libromomelhane	3.82		ug/Kg		YES		·····		f.	·····	·····	·····.	<u>f</u>	·····				ļ		
ichlorodifluoromethane	3.82		ug/Kg		YES	<u>.</u>		t		· · · · · .	·····	·····		·····.		ļ-	·····	Į	!	
· · · · · · · · · · · · · · · · · · ·		····· ··· ··· · · · · · · · · · · · ·				ł.	· · · · · · · · !.			J.,		l .					1	. 1	F	

ADR 8.2

Report Date: 9/6/2011 08:23

Page 330 of 353

.

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S2 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879029 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Lab Dup Rep Moist Limit Tot/Dis Rep Res Overall Quai* Field QC cv/ ccv Analyte Name Result Qual Error Units Temp нτ MB LCS MS Sum iC ŧCV Tune Analysis Method : 8260B Dilution: 1 Ethyl Benzene 3.82 ug/Kg U YES Hexachlorobutadiene 3.82 ug/Kg U YES Isopropylbenzene (Cumene) 3.82 ug/Kg U YES m.p-Xylene 7.64 ug/Kg U YES Methyl iodide 2.77 ug/Kg J YES J Methylene chlorid 1.21 ug/Kg YES UJ U Ĵ Naphthalene 3,82 ug/Kg υ YES n-Butylbenzene 3.82 ug/Kg U YES n-Propylbenzene 3.82 ug/Kg υ YES o-Xylene 3.82 U YES ug/Kg sec-Butylbenzene 3.82 ug/Kg U YES Styrene 3.82 ug/Kg U YES tert-Bulyl methyl ether (MTBE) 3.82 ug/Kg υ YES terl-Buly/benzene 3.82 ug/Kg υ YES Tetrachloroethene 1.92 ug/Kg J YES J Toluene 3.82 ug/Kg υ YES trans-1.2-Dichloroethene 3.82 ug/Kg υ YES trans-1,3-Dichloropropene 3.82 ug/Kg () YES trans-1,4-Dichloro-2-butene 19.1 ug/Kg υ YES Trichloroethene 3.82 ug/Kg υ YES Trichlorofluoromethane 3.82 ug/Kg υ YES Vinyl chloride ug/Kg 3.82 υ YES Analysis Method : 0270D Dilution: 1 1,2,4-Trichlorobenzene 325 ug/Kg υ YES 1,2-Dichlorobenzene 325 υ YES ug/Kg 1.3-Dichlorobenzene 325 ug/Kg U YES 1,4-Dichlorobenzene 325 U YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 331 of 353

• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5034

Client Sample ID : E11-146-S2 Sample Date : 07/14/2011

Lab Sample ID: 31101879029

Reviewed By / Date :

Lab Report Batch : 31101879

Analysis Type: RES

Approved By / Date : Uncertainty / Lab Quai Result Rep Res Overall Qual* Lab Dup Rep Moist Field Limit Tot/Dis QC CV/ CCV Analyte Name Result Error Units Temp MB нт LCS MS Surr Tune IC ICV Analysis Method : 8270D Dilution: 1 2,4,5-Trichlorophenol 325 ug/Kg Ų YES 2.4.6 Trichlorophenol 325 ug/Kg υ YES 2,4-Dichlorophenol 325 ug/Kg Ų YES 2,4-Dimethylphenol 325 ug/Kg υ YES 2,4-Dinitrotoluene 325 ug/Kg YES υ 2,6-Dinitrotoluene 325 ug/Kg VES υ 2-Chloronaphthalene 325 U ug/Kg YES 2-Chiorophenol 325 ug/Kg υ YES 2-Methyinaphthalene 325 U YES ug/Kg 2-Methylphenol 325 ug/Kg U YES 2-Nitroaniline 325 υ YES ug/Kg 2-Nitrophenol 325 ug/Kg υ YES 3 and/or 4-Methylpheno 325 ug/Kg U YES 3-Nitroaniline 325 ug/Kg υ YES 4-Bromophenyl phenyl ether 325 ug/Kg υ YES 4-Chloro-3-methylphenol 325 υ YES ug/Kg 4-Chloroaniline 325 ug/Kg U YES 4-Chlorophenyl phenyl ether 325 ug/Kg υ YES 4-Nitroaniline 325 ug/Kg υ YES 4-Nitrophenol 325 υ ug/Kg YES Acenaphthene 325 ug/Kg υ YES Acenaphthylene 325 U ug/Kg YES Anthracene 325 ug/Kg υ YES Benzo(a)anthracer 325 ug/Kg υ YES Benzo(a)ovrene 325 ug/Kg υ YES Benzo(b)fluoranthene 325 ug/Kg U YES

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: ADR 8.2 Report Date: 9/6/2011 08:23

Page 332 of 353

CampCarroll

Lab ID : SGSW

Sample Matrix : SO

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5035

Client Sample ID : E11-146-S2 Sample Date : 07/14/2011

Lab Sample ID: 31101879029

Lab Report Batch : 31101879 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

•

۰

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	МВ	LCS	MS	Lab	~	Rep	Moist					cv
Analysis Method : 8270D					Diluti					L03	mo	Dup	Surr	Limit	Tot/Dis	QC	Tune	iC	icv	CC/
Benzo(g,h,i)perylene	325	1	ug/Kg	U	YES			 	1	1				va						
Benzo(k)fluoranthene	325		ug/Kg	U	YES		·	!	• 	! 					<u> </u>	·····	ļ	<u> </u>	ļ	ļ
Bis(2-Chloroethoxy)methane	325		ug/Kg	U	YES										<u> </u>		[ļ	ļ	ļ
Bis(2-Chloroethyl)ether	325		ug/Kg	U	YES		••••				••••••		••••••	••••	<u> </u>				<u> </u>	<u> </u>
Bis(2-Chloroisopropy)ether	325		ug/Kg	U	YES					;			·····	•••••	!			<u> </u>	<u> </u>	
Bis(2-Ethylhexyl)phthalate	325		ug/Kg	υ	YES			••••••	· · · · · · · · · ·	·····									<u> </u>	<u> </u>
Butyl benzyl phthalate	325	•••••••	ug/Kg		YES	···!	••••••	·	·····!							!			<u> </u>	!
Chrysene	325		ug/Kg	 U	YES			······	·!	·····.			••••••							l
Dibenz(a,h)anlhracene	325		ug/Kg		YES	<u> </u>	·····!	·····	·····	·	······	······	·····-!							l
Olbenzofuran	325		ug/Kg	U	YES	·!	<u> </u>	!		······	····		····· أ					••••••	l	
Diethyl phthalate	325		ug/Kg	U	YES	····· · · · · · ·	<u> </u>	·····	·····	······			····						[]	
Dimethyl phthalate	325		ug/Kg	U	YES	••••••		·····	······	·····	·····	!	ļ		·····				l	
Di-n-buly! phthalate	325	····	ug/Kg	U	YES	·		·	·	···	·····-				Í.	!	i			
Di-n-octyl phthalate	325	·····	ug/Kg	Ū į	YES	·	·····	·			···					ļ	Í			
luoranthene	325		ug/Kg	υ	YES	· <u>-</u>				······	••••••	·····	·····				!			
luorene	325		ug/Kg	U I	YES					·		ļ.	ļ	<u> </u>					!	
lexachlorobenzene	325	·····	ug/Kg	U	YES	·····	·····	·····	····	·····		·····	. 1	1				!	!	
lexachlorobuladiene	325	• • • • • • • • • • • • • • • • • •	ug/Kg		YES	·····	·	·····	·	····.	·····.		!			. 1	1			
exachiorocyclopenladiene	325		ug/Kg	÷	YES		·····.	····			····	ļ.				E.	İ			
exachloroelhane	325	••••••••••	ug/Kg	· · · · · · · · ·	YES	·····		·····				ļ.	<u>ł</u>	!						
deno(1,2,3-cd)pyrene	325		ug/Kg	· · · · · · · · · · · · · · · · · · ·	YES			·····	· · · · · · [· ·				<u> </u>					. I.		
opharone	325		ug/Kg		YES			·····	·····	ļ.	ļ.	ļ.			· · · · · · · · · · · · · · · · · · ·		ŧ.	1		
aphthalene	325		ug/Kg	••••••	YES	·····	····	1	ļ.,	· · · · · · .			İ				<u> </u>			
trobenzene	325		ug/Kg	• • • • • • • • • • • • • • • • • • • •	YES	·····	·····	·····			·!	ļ.	ĺ.,					!		
Nitrosodi-n-propylamine	325		ug/Kg		YES	·····.	·····	ļ.	ļ.	····. ļ.		!								
entachlorophenoi	325	******	ug/Kg	-Tringa			·····	ļ.	·				!				1			1
·····			naura 1		YES					1	1		1	f	1	1	1	1	1	

Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 • Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review Page 333 of 353

5036

Client Sample ID : E11-146-S2 Sample Date : 07/14/2011 Lab Sample ID: 31101879029			L				: 3110 e: RES							5	Sample			igsw io		
Reviewed By / Date :		· · · · · · · · · · · · · · · · · · ·					Арр	rovec	By /	Date										
Analyte Name	Result	Uncertainty / Error	Result Units	£sb Quat	Rep Res	Overali Qual*	Temp	нт	мв	LCS	MS	Lab Duo	Surr	Rep Limit	Moist Tot/Dis	Field	Tuno		ICV	CV /
Analysis Method : 8270D				••••••	Diluti	on: 1	······//···								102010			10		
Phenanlhrene	325		ug/Kg	U	YES					1			-		1	J	1		;	1
		*****	***********		·····	********		*****			********		••••••••		1	· · · · · · ·				
Phenol	325		ug/Kg	υ	YES		1			1	1	1	1		1 :		1	;	+	1

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:23		Page 334 of 3
 Overali result qualifier reflects summ 	ation of qualifiers added during automated data review and any qualifiers added manually for o	ategories not assessed by automated date	a review	

5037

Client Sample ID : E11-146-S3 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879030 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Overail Qual* Lab Dup Rep Moist Limit Tot/Dis Rep Res Field QC CV/ CCV Analyte Name Result Error Units НT MB LCS MS Sur7 ICV Tune fC Analysis Method : 6010C Dilution: 1 Arsenic 1.06 mg/kg YES Barium 107 mg/kg YES Cadmium 0.580 mg/kg YES U U Chromium 2.95 mg/kg YES Lead 17.5 mg/kg YES J J Seleniur 2.04 YES mg/kg U Silver 1.02 mg/kg YES υ Analysis Method : 7471B **Dilution:** 1 Mercury 0.0187 mg/kg U YES Analysis Method : 8081 Dilution: 1 4,4'-DDD 10.2 ug/Kg U YES 4.4 DDE 10.2 U YES ug/Kg 4,4'-DDT 10.2 ug/Kg U YES Aldrin 10.2 YES υ ug/Kg alpha-BHC 10.2 ug/Kg U YES aipha-Chloro 10.2 υ YES ug/Kg beta-BHC 10.2 нд/Кд U YES Chlordane 33.8 uq/Kg υ YES deita-BHC 10.2 U ug/Kg YES Dieldrin 10.2 ug/Kg υ YES Endosulfan I 10.2 ug/Kg U YES Endosulfan II 10.2 ug/Kg υ YES Endosulfan sulf 10.2 ug/Ko U YES Endris 10.2 ug/Kg υ YES Endrin aldehyde 10.2 ug/Kg υ YES Endrin kelone 10.2 ug/Kg υ YES gamma-BHC (Lindane) 10.2 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 335 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5038

Client Sample ID : E11-146-S3 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample (D: 31101879030 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Quai Rep Res Overall Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Error Units Quai* Temp H٢ ΜВ LCS MS Surr 1C юv Tune Analysis Method : 8081 Dilution: 1 gamma-Chlordane 10.2 ug/Kg υ YES Heptachior 10.2 ug/Kg U YES Heptachlor epoxid 10.2 ug/Kg U YES Methoxychio 10.2 υ YES ug/Kg Toxaphene 33.8 ug/Kg U YES Analysis Method : 8151 Dilution: * 2,4,5-T 0.0169 mg/kg υ YES 2,4,5-TP (Silvex) 0.0169 ΰ mg/kg YES 2.4'-D 0.0169 mg/kg υ YES 2.4-DB 0.0169 υ YES mg/kg Dicamba 0.0169 mg/kg υ YES Analysis Method : 8260B Dilution: 1 1,1,1,2-Tetrachioroethane 4.74 ug/Kg U YES 1,1,1-Trichloroethane 4.74 ug/Kg υ YES 1,1,2,2-Tetrachloroethane 4.74 ug/Kg U YES 1,1,2-Trichloroethane 4.74 υ YES ug/Kg 1,1-Dichloroethane 4.74 ug/Kg IJ YES 1,1-Dichloroethene 4.74 U ug/Kg YES 1,1-Dichloropropene 4.74 ug/Kg υ YES 1,2,3-Trichlorobenzene 4.74 ug/Kg υ YES 1,2,3-Trichloropropane 4.74 υ YES ug/Kg 1,2,4-Trichiorobenzene 4,74 ug/Kg υ YES 1,2,4-Trimelhylbenzene 4.74 υ YES ug/Kg 1,2-Dibromo-3-chloropropa 28.5 ug/Kg υ YES 1,2-Dibromoethane 4.74 υ YES ug/Kg 1,2-Dichlorobenzene 4.74 ug/Kg U YES 1,2-Dichloroethane 4.74 υ YES ug/Kg Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 336 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5039

Client Sample ID : E11-146-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879030

Lab ID : SGSW

Page 337 of 353

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overat Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV /
Analysis Method : 8260B				•••••	Diluti	on: 1	•										Func		10.4	
1,2-Dichloropropane	4.74		ug/Kg	U	YES					1			1	1	1		1		1	1
1,3,5-Trimelhylbenzene	4.74		ug/Kg	ប	YES					<u>.</u>		: <i></i>	1				!			1
1,3-Dichlorobenzene	4.74		ug/Kg	U	YES								·	 	!!		! 	L	 1	!
1,3-Dichloropropane	4.74		ug/Kg	U	YES			·i				 							!	1
1,4-Dichlorobenzene	4.74		ug/Kg	υ	YES	,		·····				/							! 1	1
2,2-Dichloropropane	4.74		ug/Kg	υ	YES			······					'	'- <i>-</i>		·····		••••	!	! 1
2-Butanone	23.7		ug/Kg	υ.	YES	• • • • • • • • • • •		·····					! 	·					l I	! !
2-Chlorololuene	4,74		ug/Kg	Ų	YES							••••							!	
2-Hexanone	11.9		ug/Kg	U	YES			·····	·····/		·i								! I	! 1
4-Chlorololuene	4.74		ug/Kg	υ	YES		• • • • • • • • • •	·`	·	·····						!				!, !
4-Isopropyitoluene	4.74		ug/Kg	U	YES				·····/	······							 	••••••		! !
4-Methyl-2-pentanone	11.9		ug/Kg	U	YES				······	·i	······ 1		· · · · · · · · · · · · · · · · · · ·		······	!	<i>ئ</i> ر	· · · · · · · · · · · · · · · · · · ·		!
Acetone	10.5		ug/Kg	J	YES	J	1		······	·····/	 ا		<u>ا</u>	! ا	······	<u>؛</u>				
Benzene	4.74]	ug/Kg	U	YES				·/		·······. }	······!	<u>ئ</u> ــــــــــــــــــــــــــــــــــــ	! ا	·····!	······!			!	
Bromobenzene	4.74	1	ug/Kg	U	YES		····· · · · · · · · · · · · · · · · ·	 	·		ئى ا	·····	لییییی ا	·····/		······	 1		 1	
Bromochloromethane	4.74	1	ug/Kg	U	YES		······	 1	·····		·····	······	!! 	 			 ا	!!	·····!	
Bromodichloromelhane	4.74		ug/Kg	U	YES		·····	י 	· · · · !	! j	······	؛ ا	!	·····!	·····.'. I			! 	!	
Bromoform	4.74		ир/Ко	0	YES		······		· · · · · · · · · · · · · · · · · · ·			ייייייי ו	! 	·····!	·····¦. {	·····		······	!	• • • • • • •
Bromomelhane	4.74		ug/Kg	U	YES	1	·····	 	······		····	!! 			!. 		······	!	!!	••••••
Carbon disulfide	4 74		ug/Kg	υ	YES	i	····· ··· ·	·····	·····	····	·····	 1	.! ا	! 	·····¦·	······		لا ا	·····	
Carbon tetrachioride	4.74	1	ug/Kg	U	YES			i 		·		·····	······	·····	·····í·	•••••••		····· ·	··· ····	• • • • • • •
Chlorobenzene	4.74		ug/Kg	U	YES	1		·····	i		·····.'.		.بر ا			!		۴۴ ا	·····	
Chloroethane	4,74		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·			····· 1	·····	!!			·· ···!·	······	····	·····	·····	• • • • • • •
hloroform	4.74		ug/Kg	U	YES			·····	 	 }	·····	·····	······		·····	! .		····· ¦	····· <u>!</u>	
hloromethane	4.74		ug/Kg	U	YES	 	·····	····· / · 	i i i i i	 1	 	······ 1	!. 	· · · · · · · · · · ·	!-				!	
is-1,2-Dichloroethene	4.74		ug/Kg	υi	YES	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · ·	· · · · · ;		·····	·····	·····	·····	·····			····	·····	•••••

Lab Report Batch : 31101879

Analysis Type: RES

Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S3 Lab Report Batch : 31101879 Lab ID ; SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879030 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Rep Res Lab Dup Rep Moist Field Limit Tot/Dis QC Overall Qual* CV/ CCV Analyte Name Result Temp Error Units Qual НΤ M8 LCS MS Surr tCV ю Tune Analysis Method : 8260B Dilution: 1 cis-1,3-Dichloropropene 4.74 ug/Kg υ YES Dibromochloromethane 4.74 ug/Kg U YES Dibromomethane 4.74 ug/Kg υ YES Dichlorodifluoromethane 4.74 ug/Kg U YES Ethyl Benzene 4.74 ug/Kg U YES Hexachlorobuladiene 4.74 ug/Kg U YES Isopropylbenzene (Cumene) 4.74 ug/Kg υ YES m.p-Xylene 9.49 ug/Kg υ YES Methyl iodide 4.74 ug/Kg u YES Methylene chloride 1.86 ug/Kg J YES UJ Ų Naphthalene 4.74 ug/Kg U YES n-Buly/benzene 4.74 ug/Kg υ YES n-Propylbenzene 4.74 ug/Kg U YES o-Xylene 4.74 ug/Kg υ YES sec-Butylbenzene 4,74 ug/Kg υ YES Styrene 4.74 ug/Kg υ YES tert-Butyl methyl ether (MTRF) 4.74 ug/Kg YEE U tert-Bulyibenzene 4.74 ug/Kg U YES Tetrachloroethene 4.74 υ YES ug/Kg Toluene 4.74 ug/Kg U YES trans-1,2-Dichloroethene 4.74 ug/Kg υ YES trans-1.3-Dichloropropene 4.74 ug/Kg υ YES trans-1,4-Dichloro-2-butene 23.7 ug/Kg υ YES Trichloroethene 4.74 U YES ug/Kg Trichlorofluoromethane 4.74 ug/Kg υ YES Vinyl chloride 4.74 υ YES ug/Kg Analysis Method : 8270D Dilution: 1 Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 338 of 353

Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5041

Client Sample ID : E11-146-S3 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879030 Reviewed By / Date : Approved By / Date : Uncertainty / Result Lab Rep Res Overall Quał* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Error Units Qual Temp нτ MB LCS МS Surr IC юv Tune Analysis Method : 8270D Dilution: 1 1,2,4-Trichlorobenzene 345 ug/Kg υ YES 1,2-Dichlorobenzene 345 ug/Kg υ YES 1,3-Dichlorobenzene 345 ug/Kg U YES 1,4-Dichlorobenzene 345 u YËS ug/Kg 2,4,5-Trichlorophenol 345 ug/Kg υ YES 2.4.6 Trichlorophenol 345 U YES ug/Kg 2.4-Dichlorophenol 345 ug/Kg υ YES 2,4-Dimethylphenol 345 ug/Kg υ YES 2,4-Dinitrotoluene 345 ug/Kg Ų YES 2,6-Dinitrotaluene 345 YES υ ug/Kg 2-Chloronaphthalene 345 ug/Kg U YES 2-Chlorophenol 345 ug/Kg υ YES 2-Methylnaphthalene 345 ug/Kg υ YES 2-Methylphenol 345 ug/Kg υ YES 2-Nitroaniline 345 U YES ug/Kg 2-Nitrophenol 345 ug/Kg υ YES 3 and/or 4-Methylphenol 345 ug/Kg U YES 3-Nitroaniline 345 ug/Kg U. YES 4-Bromophenyl phenyl ethe 345 ug/Kg U YES 4-Chloro-3-methylphenol 345 ug/Kg υ YES 4-Chloroaniline 345 ug/Kg u YES 4-Chlorophenyi phenyi ether 345 ug/Kg U YES 4 Nitroanilino 345 YES ug/Kg U 4-Nitrophenol 345 υ YES ug/Kg Acenaphihene 345 ug/Kg U YES Acenaphthylene 345 U YES ug/Kg

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange
ADR 8.2

Library Used: CampCarroll Report Date: 9/6/2011 08:23

Page 339 of 353

· Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : E11-146-S3 Sample Date : 07/14/2011

Lab Sample ID: 31101879030

Analysis Type: RES

Lab Report Batch : 31101879

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

nalyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	ю	icv	CV /
Analysis Method : 8270D					Diluti	on: 1														
nhracene	345		ug/Kg	U	YES		(1		1				1		i i		1		1	
nzo(a)anthracene	345		ug/Kg	U	YES				·	1				!		•••••	····· · · · · · · · · · · · · · · · ·			1
nzo(a)pyrene	345		ug/Kg	U	YES								· · - · <i>·</i> · · ·	í 						1
nzo(b)fluoranthene	345		ug/Kg	U	YES														<u>.</u>	!
nzo(g.h.i)perylene	345		ug/Kg	U	YES												·····		!	1
nzo(k)fluoranthene	345		ug/Kg	U	YES	*****		••••••							· · · · · · · · · í					
(2-Chloroethoxy)methane	345		ug/Kg	U	YES						i	'				!! ا			! I	! 1
(2-Chloroethyl)ether	345		ug/Kg	U	YES			·····'					• • • • • • • • • •		l	1	Å	••••••	!	1
(2-Chloroisopropyl)elher	345		ug/Kg	U	YES		 1	·'	<i>د</i> ا	•••••					······	!! ا		• • • • • • • •	! I	!
(2-Ethylhexyl)phthalate	345		ug/Kg	U i	YES		····i	·'	·····		·····				••••••		۸ ۱	·····	! 1	!
lyl benzyl phthalate	345		ug/Kg	U	YES				'' 	••••••		:! 		!	·····		<u>ئ</u> ر	· · · · · · · · · ·	! !	! 1
rysene	345		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		······	·!	<i>، ،</i>	·····	······!	<i>ا</i>	······!	!	!	<u>ل</u> ـــــــ	·····	! 	! I
enz(a,h)anlhracene	345		ug/Kg	υ	YES	·!	······	·····		·····	 ا	۰۰ ا	'' 	······			······	····· /		!
enzofuran	345		ug/Kg	U	YES	·i		·····	······!	/ ا	i. I	······	·····	! ا		·····!	······	! I		<u> </u>
thyi phthalate	345		ug/Kg	U	YES	· '	••••••••	1		 		؛؛ ا	······	<u>!</u>		 1	····· } [لا ا	••••	! 1
nethyl phthalate	345		ug/Kg	U	YES	 	·····.	······	! 	·····	ù	······	<u>ن</u> ــــــ		•••••••••••••••••••	·!		<i>!</i> !		! I
n-butyl phthalate	345		ug/Kg	U	YES	·····	· · · · · · · · · · · · · · · · · · ·					''	! 		·······	ŧ	····	! 1	•••••	
n-octyl phthalate	345		ug/Kg	0	YES	: 1	· · · · · · · · · · · · · · · · · · ·			! 	······	······	·····!	·····	······¦·	······	·····	! 		f
oranthene	345	1	ug/Kg	υi	YES	: 	· · · · · · · · · · · · · · · · · · ·	<u>ا</u> ر	! 	ا		·····¦	· · · · · · · · · · · · · · · · · · ·	·····		·····		ئ ئ		! ŧ
orene	345		ug/Kg	υ	YES	····· ··'				···· ···· ! 	······!·	····· •	····	·····		t. 1	!			·
achlorobenzene	345		ug/Kg	υÏ	YES		·····	יי ו	····· :	·····		! 		·····		·····!	·····			
achlorobutadiene	345		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	······	·••••••	····· ·· ·		! 	·····	!. 	····· . 4.	· · · · · · ·		E	· · · · · · · · · · ·	
achlorocyclopentadiene	345	1	ug/Kg	U	YES	······		יייייייי ד				:	···· ··	·····•	·····.	· · · · · · · · · · · · · · · · · · ·	·····	!	<u>!</u>	
achloroelhane	345	•••••••••••••••••••••••••••••••••••••••	ug/Kg	U	YES	·i	· • • • • • • • • • • • • • • • • • • •	·····		·····			·····	!-	····	<u>-</u>	·····	••••••	! I	
eno(1,2,3-cd)pyrene	345		ug/Kg	U	YES	!. 	·····	·····	······			····· :		·····.!.		· · · · · · · • • • • • • • • • • • • •	l I	٦ ۱		•••••
horane	345		*********	υİ	YES	·····		······	i		·····	t. 1	····· ·· ·	£		·····		····· -	ļ	• • • • • •
		arroll Agent	ug/Kg	υį	YES		I	l.												

 Project Number and Name:
 11-032E - 11-032E Carroll Agent Orange
 Library Used:
 CampCarroll

 AOR 8.2
 Report Date:
 9/6/2011 08:23
 Page 340 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/14/2011 Analysis Type: RES Sample Matrix : SO Lab Sample ID: 31101879030 Reviewed By / Date : Approved By / Date : Uncertainty / Result Units Lab Qual Rep Res Overall Qual* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Result Error Театр ΗŢ MB LCS MS Surr IC ſCV Tune Analysis Method : 8270D Dilution: 1 Naphthalene 345 ид∕Кд U YÉS Nitrobenzene 345 U YES ug/Kg n-Nitrosodi-n-propylamine 345 ug/Kg U YES Pentachlorophenol 345 U YES ug/Kg Phenanlhrene 345 ug/Kg υ YES Phenol 345 υ YES

ug/Kg

ид/Кд

ü YES

345

11-032E - 11-032E Carroll Agent Orange

-	-				
ADR 8.2			Report Date: 9/6/2011 08:23	Page	341
Overall result qualifier reflects summation of qualifiers added during autom	ateo data re	view and any	qualifiers added manually for categories not assessed by automated data	a review	

5044

Client Sample ID : E11-146-S3

Pyrene

Project Number and Name:

Library Used: CampCarroll

of 353

按

Client Sample ID : Trip Blank (0800) Sample Date : 07/14/2011 Lab Sample ID: 31101879001 Lab Report Batch : 31101879

Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis		Tune	IC	ICV	CV /
Analysis Method : 8260B					Diluti	on: 50	· · · · ·					·····								
1,1,1,2-Tetrachloroethane	50.0		ug/Kg	Ų	YES				1						1 8				1	1
1,1,1-Trichloroethane	50.0		uç/Kg	υ	YES]	 		• • • • • • • • • • •	/					¦ 1	1
1,1,2,2-Tetrachloroelhane	50.0		ug/Kg	U	YES				1						1	•••••	!'		/	1
1,1,2-Trichloroethane	50.0		ug/Kg	U	YES				1					·			······	••••	/ 1	1
1,1-Dichloroethane	50.0		ug/Kg	U	YES	ļ			1]			/i			••••••		4
1,1-Dichloroelhene	50.0		ug/Kg	V	YES	(·i		1											1
1,1-Dichloropropene	50.0	******	ug/Kg	υ	YES		1				•••••								! 	1
1,2,3-Trichlorobenzene	50.0		ug/Kg	U	YES		·····		·	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·						1	1 F
1,2,3-Trichloropropane	50.0		ug/Kg	U	YES	1	······								!: 				! 	1
1,2,4-Trichlorobenzene	50.0		ug/Kg	υ	YES						· · · · · · · · · · · · · · · · · · ·					······			!	<u>!</u>
1,2,4-Trimethylbenzene	5.50		ug/Kg	J	YES		· ·	·i		· · · · · · · · · · · · · · · · · · ·			}			·····!			/ 1	!
1,2-Dibromo-3-chloropropane	250		ug/Kg	U	YES						······ 		· · · · · · · · · · · · · · · · · · ·		·	! 				¦
1,2-Dibromoethane	50.0		ug/Kg	U	YES				1	 	······· 					:۱ ا	 ا		·	!
1,2-Dichlorobenzene	50.0		ug/Kg	V	YES				······ 	····	······		ئىئ ا	<u></u>	·	······				1
1,2-Dichloroethane	50.0	;	ug/Kg	U	YES			 	······· 	ية 	i	 	······	: ا	/.	······ 			·	!
1,2-Dichloropropane	50.0	1	ug/Kg	U	YES	1			1		i	 	·!	·····/	••••••	·····	 ا			!
1,3,5-Trimethylbenzene	50.0		ug/Kg	υ	YES			· · · · · · · · · · · · · · · · · · ·	1	·····	 	······ 	 			·····	••••••		· · · · · · · · · · · · · · · · · · ·	 1
1,3-Dichlorohenzene	50.0		ug/Kg	U	YES		······				: 	·····i	······				 ا			
1,3-Dichloropropane	50,0	1	ug/Kg	υ	YES		······		1		() 	······			······	······				I
1,4-Dichlorobenzene	50.0	1	ug/Kg	U	YES			Ì	··· ··· À	·	·····		· · · · · · · ·		·····	יייייי. ן	······	· · · · · · · · · · · · · · · · · · ·		: I
2,2-Dichloropropane	50.0		ug/Kg	U	YES											 1	 I	ا ا		: I
2-Bulanone	1630		ug/Kg	1	YES	·····		1			:]	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			' I	!! 	· · · · · · · · · ·
2-Chlorotoluene	50.0	1	ug/Kg	U	YES	·····i	1	 			ii	······ 1		·····		·····		! 	۰ ا	
2-Hexanone	250		ug/Kg	υ	YES			······	·····	 ا	i	 	 	!	••••••	·····	······	'' 	·····¦	
I-Chlorotaluene	50.0		ug/Kg	U	YES			·····	 1		······	:	······	•••••	·····'	····· .	'' 		·····!	
isopropytoluene	50.0		ug/Kg	U	YES		!-	···· · · · · · ·	······				······. 	·····	·····	·····		· · …!	!! 	

 Project Number and Name:
 11-032E
 - 11-032E
 CampCarroll

 ADR 8.2
 Report Date:
 9/6/2011 08:23

• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5045

Page 342 of 353

ı

Client Sample ID : Trip Blank (0800) Sample Date : 07/14/2011

Analysis Type: DL Sample Matrix : SO Lab Sample ID: 31101879001 Reviewed By / Date : Approved By / Date : Uncertainty / Lab Qual Result Rep Res Overall Quat* Lab Dup Rep Moist Limit Tot/Dis Field QC CV/ CCV Analyte Name Resuft Error Units Temn нт ΜВ LCS MS ICV Surr Tune IC Analysis Method : 8260B Dilution: 50 4-Methyl-2-pentanone 250 ug/Kg U YES Acetone 377 YES ug/Kg Ĵ Benzene 50.0 ug/Kg u YES Bromobenzene 50.0 ug/Kg YES υ Bromochloromethane 50.0 ug/Kg U YES Bromodichloromethar 50.0 U YES ug/Kg Bromoform 50.0 ug/Kg U YES Bromomethane 50.0 ug/Kg U YES Carbon disulfide 50.0 ug/Kg U YES Carbon tetrachloride 50.0 YES ug/Kg υ Chlorobenzene 50.0 ug/Kg U YES Chloroethane 50.0 ug/Kg υ YES Chloroform 50.0 ug/Kg U YES Chloromethane 50.0 YES ug/Kg υ cis-1,2-Dichloroethene 50.0 YES ug/Kg υ cis-1,3-Dichloropropene 50.0 ug/Kg υ YES Dibromochloromethane 50.0 ug/Kg U YES Dibromomelhane 50.0 ug/Kg ų YES Dichlorodifluoromethane 250 υ YES ug/Kg Ethyl Benzene 4.50 ug/Kg J YES Hexachlorobuladiene 50.0 υ ug/Kg YES Isopropylbenzene (Cumene 50.0 υ YES ug/Kg m,p-Xylene 13.5 ug/Kg đ YES Methyl iodide 50.0 YES U ug/Kg Methylene chloride 10.5 ug/Kg J YES 1I υ Naphthalene 50.0 Ų YES ug/Ko Project Number and Name: 11-032E - 11-032E Carroll Agent Orange

Lab Report Batch : 31101879

Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 343 of 353

· Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5046

Lab ID : SGSW

Client Sample ID : Trip Blank (0800) Lab Report Batch : 31101879 Sample Date : 07/14/2011 Analysis Type: DL Sample Matrix : SO Lab Sample ID: 31101879001 Reviewed By / Date : Approved By / Date : Uncertainty / Result Units Lab Quai Rep Res Overal! Qual Rep Moist Field Limit Tot/Dis QC Analyte Name Lab Dup Result Error Temp HT MB LCS MS Surr Analysis Method : 8260B Dilution: 60 n-Butylbenzene 50.0 ua/Ka υ YES

		υψη	: U	1E5 I	
n-Propylbenzene	50.0	uo/Ko	υ	YES	
o-Xylene	7.00	ug/Kg	jj	YES	
sec-Buty/benzene	50.0	ug/Kg	U	YES	
Styrene	50.0	uo/Ko		YES	
tert-Butyl methyl elher (MTBE)	50.0	uo/Ko		YES	
lerl-Bulylbenzene	50.0	uq/Kq	U U	YES	
Tetrachloroelhene	50.0		u	YES	
Toluene	18.5	uo/Ka	J	YES	
Irans-1,2-Dichloroethene	50.0	ug/Ka		YES	
irans-1,3-Dichloropropene	50.0	ug/Kg	<u>-</u>	YES	
rans-1,4-Dichloro-2-butene	250			VES	
Frichloroethene	50.0		····	VES	
Frichiorofluoromethane	50.0	ug/Kg	ŭ	YES	
Vinyi chioride	50.0	ua/Ko		VES	
		, ug/kg		TES	

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	4.14		
ADR 8.2	and a stange	Library Used:	CampCarroll	
		Report Date: 9/6/2011 08:23		-
* Overall result qualifier reflects summ	nation of qualifiers added during automated data review and any qualifiers a	11.1 Date: 0/0/2011 00.20		Page 344 of 36
	1- and any qualities a	ded manually for categories not assessed by automated dat	a review	

5047

3

Lab ID : SGSW

IC Tune

CV/ CCV

ιcv

Client Sample ID : Trip Blank (0810)

Sample Date : 07/15/2011 Lab Sample ID: 31101879031

Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Тиле	IC	icv	cv / ccv
Analysis Method : 8260B					Dlluti	on: 60	·							Early	Toubia		Turre		10.4	CUV
1,1,1,2-Tetrachlorosthane	50.0		ug/Kg	U	YES					i i	1		1	, ,	1		[1	1	1
1,1,1-Trichloroethane	50.0		ug/Kg	U	YES							! .	!	} -	!		! !	L	. <u>.</u>	
1,1,2,2-Tetrachloroethane	50.0		ug/Kg	U	YES			·····		! [! 	[! 	! !	!! I		!			
1,1,2-Trichloroethane	50.0		ug/Kg	U	YES					1			!	!	!	•••••			1	
1,1-Dichloroelhane	50.0		ug/Kg	U	YES			·····	••••••	[•••••		l		 	•••••		•••••	1 1	1 1
1,1-Dichlaraethene	50.0		ug/Kg	U	YES		·····!	۱۱ ا						•••••	· · · · · · · · · · · · · · · · · · ·	••••••			<u> </u>	
1,1-Dichloropropene	50.0		ug/Kg	U	YES		·····!	ارا ا		[]		•••••		••••••			•••••		ļ	1
1,2,3-Trichlorobenzene	50.0		ug/Kg	υ	YES	i (!		·····							1	
1,2,3-Trichloropropane	50.0		ug/Kg	U	YES		!. 		······	•••••••			!				·		<u>.</u>	
1,2,4-Trichlorobenzene	50.0		ug/Kg	U	YES	 									•••••				[]	
1,2,4-Trimethylbenzene	50,0		ug/Kg	U	YES	 	·····!	·	······		i	! 1				·····	·		1	
1,2-Dibromo-3-chloropropane	250		ug/Kg	U	YES	! 			••••••		·····¦	!						· · · · · · · · ·	 	
1,2-Dibromoethane	50.0		ug/Kg	U	YES		 	 	·····		······	·····	ļ						l	
1,2-Dichlorobenzene	50.0		ug/Kg	U	YES	í		¦	l	! 	·····	······	····	·····	·····		· · · · · · · · ·			•••••
1,2-Dichloroelhane	50,0		ug/Kg	υΪ	YES		·····	 	 ا	······	······	······			••••••		·····			•••••
1,2-Dichloropropane	50.0		ug/Kg	υ	YES			 	Å	······		•	······	·	••••••		ا د	·····		
1,3,5-Trimethylbenzene	50.0		ug/Kg	U	YES	·····!· }	····		·····	!. 		·····	·· ¦	1	1					
1,3 Dichlerobenzene	50.0	·····	ug/Kg	u i	YES	••••••		·····	····· : : : : : : : : : : : : : : : : :		·····	·····!	·····			·····	····· !			
I,3-Dichloropropane	50.0	· • • • • • • • • • • • • • • • • • • •	ug/Kg	υ	YES		••••••		•••••		·····	·····			·····	· · · · · · · · · · · · · · · · · · ·		· · · · · · /		
I,4-Dichlorobenzene	50.0	*********	ug/Kg	U	YES		·····	····	!	·····		·····	····	!		· · · · · · · · · · ·	·····]	
2.2-Dichloropropane	50.0	***************************************	ug/Kg	υİ	YES	·····		····	t	·····	·····.¦.		·····	[.			·····4		!	
2-Butanone	1790		ug/Kg	·····	YES	·····	·····.	·····¦.		¥	·····		····•	·····	·····	ļ		···· •		
-Chlorotoluene	50.0		ug/Kg	υ÷	YES :	1	i	<u>-</u>	····.			t. 1	····	!. 1		·····		!		
-Hexanone	250	•••••••••••••••••••••••••••••••••••••••	ug/Kg	υ	YES	 	·!			•••••• <u>+</u>		·····.	·····	·····		·····				•••••
-Chlorotoluene	50.0	• • • • • • • • • • • • • • • • • • • •	ug/Kg	U	YES	·····!··	·····! 	····			······	·····		<u>+</u>	·····	·····	ļ			
-Isopropyttoluene	50.0	•••••••••••••••••••••••••••••••••••••••	ug/Kg	an a stipe	YES	·····	·····!	l.	·····	·····.	· · · · · · · · · · · · · · · · · · ·	<u></u> .				ļ.	·····!	!		

Pre 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5048

Page 345 of 353

Client Sample ID : Trip Blank (0810) Sample Date : 07/15/2011 Lab Sample ID: 31101879031

Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal Quai*	l Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV CC
Analysis Method : 8260B					Dilutio	on: 50								•//•					10.4	
4-Methyl-2-pentanone	250		ug/Kg	U	YES		1						1				1	ł	1	
Acetone	433		ug/Kg	J	YES										f		1		I,	
Benzene	50.0		ug/Kg	U	YES												!	<u> </u>	!,	<u>.</u>
Bromobenzene	50.0		ug/Kg	U	YES												! 	! 	<u>.</u>	<u>.</u>
Bromochloromethane	50.0		ug/Kg	U	YES				·i								!	1	1	
Bromodichloromethane	50.0		ug/Kg	U	YES	•••••			····· /	<i>ن</i> ـــــ	· · · · · · · · · · · · · · · · · · ·	!			·!		! 	} • • • • • • • • • • •	<u> </u>	
Bromoform	50.0		ug/Kg	U	YES			·'	! 	؛ ا	·····!	!! 				· · · • • • • • • •		l	1	ļ
Bromomethane	50.0		ug/Kg	U	YES			'' 	······!	<i>ا</i> ا	¦۔۔۔۔،		<i>ا</i>	<u> </u>					1	Į
Carbon disulfide	50.0		ug/Kg	υ	YES			ا ا	ا ا	! ;		·····		!						ļ
Carbon tetrachloride	50.0		ug/Kg	U	YES			۰۰۰۰۰۰ ا	!! ا		<u>ن</u>	······	······ !	····-!					1	ļ
Chlorobenzene	50.0		ug/Kg	U	YES		•••••••	······ 	······		·····	······		······						
Chloroelhane	50.0	1	ug/Kg	U	YES	<u>؛</u>	!،ا ا	······	!	<u>؛</u>				·····.	·¦.					<u> </u>
Chloroform	50,0		ug/Kg	8	YES	 	·····/	······	 	·····	! 	! 	! {		·····	····				ļ
Chloromethane	50.0	 1	ug/Kg	U ;	YES	 			Ł		·····		······		ļ.					ĺ
sis-1,2-Dichloroethene	50.0		ug/Kg	υÍ	YES	·····!	·····!	·	······	Å. i	·	·····	····	····		·····				
cis-1,3-Dichloropropene	50.0	·····†	ug/Kg	υ	YES		•••••	····· ;	······!			·····	·····				••••••	·····.		
Dibromochioromethane	50.0		ug/Kg	u	YES	· · · · · · · · · · ·	·····	·····.!		•••••••	·····	·····	····			•••••		f		
Dibromomelhane	50.0	÷	ug/Kg	υi	YES	••••••		·····	· · · · · · · · · ·	··· ····	····	!	·····.	·····	·····	· · · · · · · · · · · · · · · · · · ·	·····			• • • • • • • •
Dichlorodifluoromethane	250	·····	ug/Kg	U	YES	····· -¦	!. 1	····			· ···		·····			····. !	ļ			
thy Benzene	50,0	·····	ug/Kg		YES		·····	i	··· ··-‡	······	·····	····		· <i>· · ·</i> · · · · · · · · · · · · · · ·	·····		· - · · · · · · ·	· · · · · · !		
lexachlorobutadiene	50.0		ug/Kg	Ū İ	YES	1		····.	·	···· ·/	·····	· · · · · ·				· • • • • • • • • • • • • • • • • • • •	· • • • • • •	ļ		
sopropylbenzene (Cumene)	50.0		ug/Kg		YES		····.	¹ I	··· ··· ‡	·····.	······	· · · · · · · · · · · · ·		·····	·····			!		
1,p-Xylene	14.5		ug/Kg		YES	· · · · · ! ·	<u>!</u> .	·····		1	1			·····	[.		·····.	ļ		
lethyl iodide	50.0		ug/Kg	• • • • • • • • • • • • • • •	YES		·····!.		·	· • • • • • • • • • • • • • • • • • • •	······	····	·····	!			·····!	!		
tethylene chloride	8.50		ug/Kg		YES	!. U	······!··	·····	t.	·····.	···· .	f.		·····		ļ.	····· !	ļ		
laphthalene	50.0		ug/Kg		YES		·····	····			<u>.</u> .	! .	ļ.	ļ.	·····.	ļ.	ļ			
	1	· · · · · · · · · · · · · · · · · · ·						. .		. 1		[i			

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll
ADR 8.2 Report Date: 9/6/2011 08:23 Page 346 of 353

• Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5049

Client Sample ID : Trip Blank (0810) Sample Date : 07/15/2011

Lab Sample ID: 31101879031

Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Reviewed By / Date :				·			Арр	roved	i By /	Date										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Quai*	Temp	нт	мв	LCS	ме	Lab		Rep	Moist	Field				cv /
Analysis Method : 8260B					Diluti	on: 50				203	mo	Dup	Surr	Limit	Tot/Dis	QC	Tune	IC	ICV	ccv
n-Bulybenzene	50.0		ug/Kg	U	YES				1		1					·	····			.
n-Propylbenzene	50.0		ug/Kg	U	YES	·	!		l	 					ļ		<u> </u>		<u> </u>	1
o-Xy i one	6.50		ug/Kg		YES	tf : I	·····.		!	I					l	<u> </u>		1		1
sec-Bulyibenzene	50.0	•••••	ug/Kg		YES	<u>/</u>	····· <u> </u>											<u> </u>	1	!
Styrene	50.0	••••••	ug/Kg		YES		· · · · · · · · · · · · · · · · · · ·									,	l	<u> </u>	1	1
tert-Bulyl methyl ether (MTBE)	50.0		ug/Kg	<u>.</u>	YES		·····	•••••									l		1	[
lert-Butylbenzene	50.0		ug/Kg	υ	YES		····	·····-				<u> </u>					l	l	1	1
Tetrachloroethene	11.5	••••	ug/Kg	·····	YES			·····				[Í		lí			[1	1
Foluene	18.5		ug/Kg		YES				·				!	!						
rans-1,2-Dichloroethene	50.0	•••••	ug/Kg		YES	ļ.			[!	!		!						1
rans-1,3-Dichloropropene	50.0	•••••••		U I				ļ	ļ	·····.		!]					1	1
rans-1,4-Dichloro-2-butene	250		ug/Kg	·····	YES	·····-	!.	·		!		!	!						1	1
richloroethene	50.0		ug/Kg		YES			l				!					1			1
richlorofiuoromethane	50.0	·····	ug/Kg		YES	·····		!	!	!						1				
(inyl chloride	· · • • • • • · ÷.	······	ug/Kg	U ;	YES			!	!			ĺ	İ	1		1	1			
ing, chiange	50.0	İ.	ug/Kg	<u> </u>	YES				1	1	1	I	ļ	1			······ }			

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange			
ADR 8.2		Library Used:	CampCarroll	
		Report Date: 9/6/2011 08:23		Page 347 of 353
Overall result qualities resects summ	ation of qualifiers added during automated data review and any qualifiers add	3d manually for calegories not assessed by automated dat	a review	5 1 1 1 1 1

Client Sample ID : Trip Blank (0813)

Sample Date : 07/14/2011 Lab Sample ID: 31101879017 Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overail Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	IC	ICV	CV/ CCV
Алalysis Method : 8260В					Dilutio		·····							CIIIDI	100015		Tune	IC.	100	CCV
1,1,1,2-Tetrachloroethane	50.0		ug/Kg	U	YES]	1	1			,	. <u></u>		i		I i			1
1,1,1-Trichloroethane	50.0		ug/Kg	U	YES				·		! }	l	!	 			!		! 	
1,1,2,2-Telrachloroethane	50.0		ug/Kg	υ	YES					'	! 	1	! 				[]		<u> </u> 	!
1,1,2-Trichloroethane	50.0		ug/Kg	U	YES					' 	 							••••	! 1	ļ
1,1-Dichloroethane	50.0		ug/Kg	U	YES						· · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			•••••		••••••	! 	1
1,1-Dichloroethene	50.0		ug/Kg	U	YES											••••••				<u> </u>
1,1-Dichloropropene	50.0		ug/Kg	υ	YES	î	!	·'	·····!					····	l.	••••••				<u>.</u>
1,2,3-Trichlorobenzene	50.0		ug/Kg	U	YES	<u>ن</u>			!	·····			<u>!</u>		·····		·····	•••••		.
1,2,3-Trichloropropane	50.0	•••••	ug/Kg	U	YES	! }	!!		·····			·····!	!		••••••		····· ;	•••••		
1,2,4-Trichlorobenzene	50.0	••••••	ug/Kg	U	YES	·····	! ا	!		······		<u> </u>						•••••		!
1,2,4-Trimethylbenzene	50.0		ug/Kg	υ	YES	<u>!</u>	·!	 I	<i>ا</i> ا	!! {	<u>!</u>	!			·····		·····	••••••		
1,2-Dibromo-3-chloropropane	250		ug/Kg	υi	YES	i	!! 	ئ ا	······	/ ا		! 1	· {	·····¦			·····			l
1,2-Dibromoethane	50.0		ug/Kg	υİ	YES	؛؛ ا	·····:!	۲۲ ا	·			······!	·····	··· <u>}</u>			·····-			
I,2-Dichlorobenzene	50.0	1	ug/Kg	υi	YES	·!	!	£ ا	······			·······	!		·····		····			
1.2-Dichloroethane	50.0		ug/Kg	U Î	YES	·····	······	 	!			·····!	·····	·····	·····		••••••			
2-Dichloropropane	50.0	Ì	ug/Kg		YES	i	·		יייייייי ו	·····		·····		·			·	!		
.3,5-Trimethylbenzene	50,0	·····	ug/Kg	ui	YES	·····			 F	i		····· ·	······	·!		1	ļ			
,3-Dichlorobenzone	50.0		ug/Kg	υÌ	YES	······				·····	······		·····¦·		·····	·····-	·····	·····/	I	
,3-Dichloropropane	50.0		ug/Kg	υİ	YES	······	·····	··· ··· !	··· ··· <u>!</u>	····· †	! 1	·····	<u>l</u> .	····		·····	· · · · · · · · · · · · · · · · · · ·			
,4-Dichlorobenzene	50,0		ug/Kg	υÌ	YES	•••••••	·····!			·····		·····	·····	!	•••••••	<u> </u>	<u>}</u> .	<u>I</u>		•••••
2-Dichloropropane	50.0		ug/Kg	υİ	YES	. • • . • . • • • • • • • • • •		·····	!. F		·····	·····!·		·····.	••••••	·····.	·····			
-Butanone	1590		ug/Kg		YES			··· ···		<u>ل</u> لد	ł.								ļ	
-Chlorotoluene	50.0		ug/Kg	υÍ	YES	·····	··	1	1	£	·····	·····!·	!. *	!			ļ.	· · · · ·		
Hexanone	250	••••••	ug/Kg	*******	YES	· • · · · · · · · · · · · · · · · · · ·	!-	·····		······!·	·····	l.		·····¦·	•••••	·····		····	ļ.	••••
Chlorotoluene	50.0		ug/Kg	U	YES	·····.'. 	· · · · · · · · · · · · · · · · · · ·	·····	· · · · !		·····	······!.	<u>l</u>	····		· · · · · ·	·····.		·····.	
Isopropyltoluene	50,0		ug/Kg	υŤ	YES	······!··	••••••		· · ·	·····.	· · · · · · · · · ·	·····!·	·	·····		· · · · ·	····	ļ	<u>!</u> .	

Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 348 of 353 • Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : Trip Blank (0813)

Sample Date : 07/14/2011 Lab Sample ID: 31101879017 Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Page 349 of 353

		Uncertainty /	Result	Lab	Ren	Overall						Lab		Rep	Moist	Elald				-
Analyte Name	Result	Error	Units	Qual	Res	Qual*	Temp	нт	MB	LCS	MS	Dup	Surr		Tot/Dis		Tune	١C	ICV	CV) CCV
Analysis Method : 8260B					Diluti	on: 50						······				·				
4-Methyl-2-penlanone	250		ug/Kg	U	YES	;			}	1	1	1			1 1			1	1	1
Acetone	352		ug/Kg	J	YES												: 	·····	 	!
Benzene	50.0		ug/Kg	Ų	YES		1		[1	1	1					\ 	•••••	1	! 1
Bromobenzene	50.0		ug/Kg	U	YES	3					}		1					•••		!
Bromochloromelhane	50.0		ug/Kg	U	YES		1											•••••		!
Bromodichtoromethane	50,0		ug/Kg	V	YES						: 	: 	:/	•••••			••••••••••••••••••••••••••••••••••••••	 		!
Bromoferm	50.0		ug/Kg	U	YES					/		: 		•••••		••••••			/ 	!
Bromomelhane	50.0		ug/Kg	U	YES		1				/ 	: 			·1	······			<u>.</u> 	
Carbon disulfide	50.0		ug/Kg	U	YES		······			 I	}	 {	: 			·····		•••••	1	••••••
arbon tetrachloride	50.0		ug/Kg	Ų	YES	1									•••••	······		•••••		
Chlorobenzene	50.0		ug/Kg	υ	YES	ĺ	<u>.</u>	······					:			 ا		•••••	[
Chloroelhane	50.0	1	ug/Kg	U	YES	1	·····							·····		!! 				
Chloroform	50.0	Ì	ug/Kg	υ	YES		i	······				· · · · · · · · · · · · · · · · · · ·	<i>.</i>	<u>'</u> ۔۔۔۔۔ ' ا	;	! 			·	
Chloromethane	50,0	1	ug/Kg	U	YES	Ì	·····	· 				·····		···2		·······		•••••		
is-1,2-Dichloroelhene	50.0	1	ug/Kg	U	YES	Í		·		: ا				·!	i. I			•••••	!	· · · · · ·
is-1,3-Dichloropropene	50.0		ug/Kg	U	YES		······			·····		! 		·!				••••••		
Dibromochloromethane	50.0		ug/Kg	U	YES	····· •··.3. [· أ	·-· · · · · · · · · · · · · · ·	·····/		·····			· · · · · · · · · · · · ·	t				••••
libromomethane	50.0		ug/Kg	U	YES	·····	·····i	؛ ا		! ا		!			····· ··· · · · · · · · · · · · · · ·					
lichlorodifluoromethane	250		ug/Kg	U	YES		··i			·····'	·····	؟ [•••••			٤٤ ا	······		
Ihyl Benzene	5.00		ug/Kg	J	YES	· · · · · · · · · · · · · · · · · · ·			!		······	' '	··· ··· ^·			·····		· · · · · · · · · ·	! 1	
exachlorobuladiene	50.0	ĺ	ug/Kg	U	YES		·-···	·····	· · · · · · · /			۹۱ ا	·····.	!	· · · · · · · · · · · · · · · · · · ·		····· /	!! 	!	
opropylbenzene (Cumene)	50.0		ug/Kg	U	YES				••••••• 	4	······		·· ·!. {		· · · · · · · · · · · · · · · · · · ·	·····!		! ا	······!	• • • • • • •
,p-Xylene	16.0		ug/Kg	J	YES			· ·	1	;	1	1	····	·····	·····	l. 1		!	! 1	•••••
ethyl iodide	50.0		ug/Kg	U	YES		······	. ^ب ر	·····!	······	······	! 			· • • • • • • • • • • • • • • • • • • •	!	Å	<u>!</u>	!	
ethytene chloride	8.00		ug/Kg	J	YES	U	······!		U 1		····· ·.¦	! 1	·····	·····!	·····.	J		l		
aphihalene	50.0	ana ana amin'ny ka	ug/Kg	υİ	YES		· · · · · · · · · · · · · · · · · · ·			1	·····	·····¦	·····.	····	······	·····	·····	·····¦		

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review



Client Sample ID : Trip Blank (0813)

Sample Date : 07/14/2011 Lab Sample ID: 31101879017 Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Ŕ.

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/
Analysis Method : 8260B					Diluti	on: 50														
n-Butylbenzene	50.0		ug/Kg	U	YES]]]		I I		1		1	
n-Propylbenzene	50,0		ug/Kg	U	YES				·	/				/ 			l	۱ ۱	1	!
o-Xylene	7.00		ug/Kg	J	YES				·	! 	 	۲ 	.• 	/ /	!		!	' 	1	!
sec-Bulylbenzene	50.0		ug/Kg	U	YES					, [i	: }		!	!i	•••••			!! 1	!
Styrene	50.0		ug/Kg	U	YES			······			•••••		!	¦ }	!! 		() 		<u></u>	! 1
tert-Butyl methyl ether (MTBE)	50.0		ug/Kg	υ	YËS						• • • • • • • • • • • • • • • • • • • •		! 	!	!! !		1			!
terl-Butylbenzene	50.0		ug/Kg	u	YES	•••••				·		· · · · · · · · · · · · · · · · · · ·	! 		!! 3		۱		!!	!
Teirachioroethene	50.0		ug/Kg	U	YES			، ا		!		•••••	<u>.</u>			•••••			<u> </u>	! !
Toluene	18.0		ug/Kg	J	YES			· ^	•••••	·			!	•••••••	!	•••••	! 		1	
trans-1,2-Dichloroethene	50.0		ug/Kg	U	YES		••••••		<i>ل</i> ــــــــــــــــــــــــــــــــــــ		•••••••••	•••••	·	••••	,!	·····			!!	
trans-1,3-Dichloropropene	50.0		ug/Kg	υ	YES		······	· ·			······		!! 	·····		••••••			!	
trans-1,4-Dichloro-2-bulene	250		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	!		' 	غ ا	: ا	·····	!! 			••••••		•••••••••		¦ /
Trichtoroelhene	50.0		ug/Kg	U	YES	·		······	·		······		!							
Trichlorofluoromethane	50.0		ug/Kg	υÏ	YES	·····			! ا	<u>.</u>	·····	····· !		·····	·				·	
Vinyl chloride	50.0	·····	ug/Kg	U 1	YES	······		·	·			·····	·	······			·····		·	

Project Number and Name:	11-032E - 11-032E Carroll Agent Orange	Library Used:	CampCarroll	
ADR 8.2		Report Date: 9/6/2011 08:23		Page 350 of 353
 Overali result qualifier reflects sum: 	nation of qualifiers added during automated data review and any o	ualifiers added manually for calegories not assessed by automated dat	a review	

Client Sample ID : Trip Blank (7/15/11 0800 Sample Date : 07/15/2011

Lab Sample ID: 31101879045

Lab Report Batch : 31101879 Analysis Type: DL

Lab ID : SGSW Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overail Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tupe	IC	icv	CV CC
Analysis Method : 8260B					Dilutio	on: 50	///					······					, and		104	
1,1,1,2-Tetrachloroethane	50.0		ug/Kg	U	YES			1		i			 J	• I	 F I	· · ·	1		1	
1,1,1-Trichloroethane	50.0		ug/Kg	U	YES		;	'' 	••••	'			• • • • • • • • • • • • • • • • • • •	! !	!! 	••••	ŧ	! !	!	
1,1,2,2-Tetrachioroethane	50.0		ug/Kg	U	YES						:: ;					•••••	! 	{		. !
1,1,2-Trichloroethane	50.0		ug/Kg	U	YES						·!				!! 	******			!	
1,1-Dichloroethane	50.0		ug/Kg	Ų	YES							······		• • • • • • • • • • • • • • • • • • • •					! 	. <u> </u>
1,1-Dichloroethene	50.0		ug/Kg	υ	YES	•••••••					i	!!]							<u> </u>	1
1,1-Dichloropropene	50.0		ug/Kg	U	YES					······	·····	······			•••••		····		<u> </u> 	<u> </u>
1,2,3-Trichlorobenzene	50.0		ug/Kg	U	YES							l	<i>!</i> ا	·····			······		1	ļ
1,2,3-Trichloropropane	50.0		ug/Kg	U	YES	!	·!	······	·	؛ ا	·!	<u>!</u>	¦	······			······	•••••	1	
1,2,4-Trichlorobenzene	50.0		ug/Kg	U	YES	····· /	!	······	· !		یا۔۔۔۔۔ ا	······	!!	·····!		!	······	•••••		ļ
1,2,4-Trimethylbenzene	5.50	1	ug/Kg	J	YES		·i	······ 	؛ ا	ئىئ ا	······	<u>ا</u> ا	لا	 I	!		·	•••••		ļ
1,2-Dibromo-3-chloropropane	250		ug/Kg	U	YES	·····	·····	 ا	!! ا	! !	······	······	! I	·····•	••••••		······			1
1,2-Dibromoethane	50.0		ug/Kg	υi	YES	 	·····!	ייייייי 	······ 	: 	l. i	! 	! 1	!	····					<u> </u>
I,2-Dichlorobenzene	50.0		ug/Kg	υ	YES	: 	 1	 ا	·!		·····	·····.	······	·····!	·		·····			<u> </u>
.2-Dichloroethane	50.0	1	ug/Kg	υÏ	YES	¦	·····!		·i		·····	l	! }				·····			
,2-Dichloropropane	50.0	·····	ug/Kg	υÏ	YES	·····	·····		·!				·····/,	····		····	·····	!	·····	
,3,5-Trimelhylbenzeno	50.0		uy/Kg	υ	YES	·····	· · · · · · · · · · · · · · · · · · ·	·····	·····¦	· · · · · · ·	!.				•••••		••••••		····· [
3-Dichlorobenzene	50,0		ug/Kg	υi	YEB	.) ا	·····	·····	!. 	······			·····	!	· · · · · · · · · · · · · · · · · · ·		·····			
,3-Dichloropropane	50.0	1	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		·····		·····		·····!		·····!	····		·····			
,4-Dichlorobenzene	50.0		ug/Kg	υİ	YES				···· †		·····	····· {.	· · · · · · ·	·····.	·····;·		ļ	· · · · · ·		
.2-Dichloropropane	50.0		ug/Kg	U	YES	••••••	····-	·····	·····	···· ,. (·······	·····!.			· · · · · · · · · · · · · · · · · · ·	••••••				• • • • • •
-Butanone	1620		ug/Kg		YES	.) 	·····	······ 		!. 	··· ···		·····	·····¦·	·····	·····			·····	••••
Chiorotoluene	50.0		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·		····· !	···· ·· · ·	¹ . I	·· ···	·····		1	\$ 		·····!	· · · · · ·		
Hexanone	250		ug/Kg	U	YES	.ئ ا	! 		!	·····	••••••		·····	·····!-			·	·····	·	
Chlorololuene	50.0	•••••••••••••••••••••••••••••••••••••••	ug/Kg	U	YES	······	····· · · · · · · · · · · · · · · · ·	·····	·····			!.	····· {.	!		·····		·····.		
Isopropyltoluene	50.0		ug/Kg	U	YES	·····	·····	····•	·····¦.		····· · · · ·		·····	·····¦	··· ·	·····.		·	·····.	
						••••••	····· ? · ·		· · · · · · !.	t.	····· · · ·		· · · · · ·	ł.		l.	l.			

ADR 8.2 Report Date: 9/6/2011 08:23

Page 351 of 353

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

5064

Client Sample ID : Trip Blank (7/15/11 0800 Sample Date : 07/15/2011

Lab Sample ID: 31101879045

Reviewed By / Date :

Lab ID : SGSW

Page 352 of 353

Sample Matrix : SO

Lab Report Batch : 31101879

Analysis Type: DL

Approved By / Date : Uncertainty / Lab Qual Rep Res Overall Quai* Result Lab Dup Rep Moist Limit Tot/Dis Field CV/ CCV Analyte Name Result Error Units H٣ Temp ΜВ LCS MS Surr QC Tune ۱C icv Analysis Method : 8260B Dilution: 50 4-Methyl-2-pentanone 250 ug/Kg U YES Acetone 347 ug/Kg J YES Benzene 50.0 ug/Kg U YES Bromobenzene 50.0 ug/Kg υ YES Bromochloromelhane 50.0 ug/Kg U YES Bromodichloromethane 50.0 ug/Kg υ YES Bromoform 50.0 ug/Kg U YES Bromomethane 50.0 ug/Kg U YES Carbon disulfide 50.0 YES ug/Kg υ Carbon tetrachloride 50.0 ug/Kg U YES Chlorobenzene 50.0 υ YES ug/Kg Chloroethane 50.0 ug/Kg υ YES Chieroform 50.0 ug/Kg υ YES Chloromethane 50.0 υ ug/Kg YES cis-1,2-Dichloroethene 50.0 ug/Kg U YES cis-1,3-Dichloropropene 50.0 ug/Kg U YES Dibromochloromethane 50.0 ug/Kg U YES Dibromomethane 50.0 ug/Kg υ YEC Dichlorodifluoromethane 250 ug/Kg u YES Ethyl Benzene 5.50 uq/Kg J YES Hexachlorobutadiene 50.0 ug/Kg υ YES Isopropylbenzene (Cumene) 50.0 ug/Kg U YES m,p-Xylene 16.0 ug/Kg YES J Methyl lodide 50.0 ug/Kg υ YES Methylene chloride 250 U ug/Kg YES Naphthalene 50.0 ug/Kg Ų YES

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23

* Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID : Trip Blank (7/15/11 0800 Lab Report Batch : 31101879 Lab ID : SGSW Sample Date : 07/15/2011 Analysis Type: DL Sample Matrix : SO Lab Sample ID: 31101879045 Reviewed By / Date : Approved By / Date : Uncertainty / Error Result Units Lab Rep Res Lab Dup Overali Qual* Rep Moist Limit Tot/Dis Field QC cv/ ccv Analyte Name Result Qual Temp ΗT MB LCS MS Surr Tune ıc ιcv Analysis Method : 8260B Dilution: 50 n-Butylbenzene 50.0 ug/Kg U YES n-Propylbenzene 50.0 ug/Kg Ų YES o-Xylene 7.50 ug/Kg J YES sec-Butylbenzene 50.0 ug/Kg U YES Styrene 50.0 ug/Kg υ YES tert-Butyl methyl ether (MTBE) 50.0 ug/Kg U YES tert-Butylbenzene 50.0 ug/Kg υ YES Tetrachloroethene 50.0 ug/Kg U YES Toluene 20.0 ug/Kg J YES trans-1,2-Dichloroethene 50.0 U YES ug/Kg trans-1,3-Dichloropropene 50.0 ug/Kg υ YES trans-1,4-Dichloro-2-butene 250 U YES ug/Kg Trichloroethene 50.0 ug/Kg υ YES Trichlorofluoromethane 50,0 ug/Kg υ YES Vinyl chloride 50.0 υ

Project Number and Name: 11-032E - 11-032E Carroll Agent Orange Library Used: CampCarroll ADR 8.2 Report Date: 9/6/2011 08:23 Page 353 of 353 · Overall result qualifier reflects summation of qualifiers added during automated data review and any qualifiers added manually for categories not assessed by automated data review

ид/Кд

YES

APPENDIX 2

Automated Data Review Qualification Scheme

and

Definition of Flags

5057

		DATA QUALIFIER FLAG							
QUALITY		De	tects						
	EVALUATION	Non Biased	Biased	Nondetects	SAMPLE(S) QUALIFIED				
HOLDING TIMES (Extraction and Analysis)	1) Holding time exceeded by 2 times or less	J	J-	UJ	Sample				
	2) Holding time exceeded by greater than 2 times	J	J-	R					
COOLER TEMPERATURE	1) > 6 and ≤10 degrees Centigrade	J	J_	UJ	All samples shipped in the affected cooler (Shipping				
	2) >10 degrees Centigrade	J	J	R	Batch)				
	3) < 2 degrees Centigrade	None	None	None					
INSTRUMENT TUNING	1) Ion abundance criteria not met	JN	JN	R	All samples associated to an initial calibration (Run Batch), if tune is associated to an initial calibration.				
					All samples associated to a continuing calibration (Analysis Batch), if tune is associated to a continuing calibration.				
	1) Average RRF < 0.05	J	J	R	All samples associated to				
	2) %RSD > 30%	J	J	UJ	the initial calibration (Run Batch)				
	3) r < 0.995	J	J	UJ					
	1) Average RRF < 0.05	J	Ŀ	R	All samples associated to				
VERIFICATION (ICV)	2) % Difference > +25%	J	J+L	None	the ICV (Run Batch)				
. ,	3) % Difference < -25% and <u>></u> - 50%	J	J-	UJ					
	4) % Difference < -50%	J	J	R					
CONTINUING CALIBRATION	1) Average RRF < 0.05	J	J	R	All samples associated to				
	2) % Difference > +25%	J	J+	None	the CCV (Analysis Batch)				
	3) % Difference < -25% and ≥ - 50%	J	J-	UJ					
	4) % Difference < -50%	J	J-	R					

Qualification Summary for GC/MS Methods

D-1 Automated Data Review and Contract Compliance Screening

Laboratory Data Consultants, Inc. 5058

		DAT	A QUALIF		
QUALITY		De	tects		
CONTROL ITEM	EVALUATION	Non Biased	Biased	Nondetects	SAMPLE(S) QUALIFIED
METHOD BLANK CONTAMINATION			U	None	All samples in the same Preparation Batch as the method blank
	 Other compound results less than or equal to 5 times blank contamination 	U	U	None	
SURROGATE RECOVERY	1) % Recovery < CL but <u>></u> 10%	J	J-	UJ	Sample
	2) % Recovery <10%	J	" ل		
	3) % Recovery > CL	J	J+	R	
	Note: For semivolatile analysis, two or more surrogates in a fraction must be out of criteria for qualification unless recovery < 10%.			None	
MATRIX SPIKE RECOVERY	1) % Recovery < CL but <u>></u> 10%	J	J-	IJ	Parent Sample
	2) % Recovery <10%	J	J-	R	
	3) % Recovery > CL	J	+L	None	
	4) RPD > CL	L.	J	UJ	
	1) % Recovery < CL but <u>></u> 10%	J	J-	00	All samples in the same Preparation Batch as the LCS
RECOVERY	2) % Recovery <10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	 Result greater than the project-reporting limit and lab qualifier = U 	N/A	N/A		Sample (noted on outlier report)
	 Result less than the project- reporting limit where lab qualifier is not U. 	J	J	N/A.	
FIELD DUPLICATES	1) RPD > CL	None.	None	None I	Noted in outlier report

Qualification Summary for GC/MS Methods

5059

		DAT	A QUALIF	IER FLAG	
QUALITY		De	tects		
	EVALUATION	Non Biased	Biased	Nondetects	SAMPLE(S) QUALIFIED
FIELD BLANKS EQUIPMENT BLANKS	 Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination 	U	U	None	All samples in the same sampling event
	 Other lab contaminant results less than or equal to 5 times blank contamination 	U	U	None	
TRIP BLANKS	 Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination 	U	U	None	All samples in the same Shipping Batch as the trip blank
	 Other lab contaminant results less than or equal to 5 times blank contamination 	U	U	None	

Qualification Summary for GC/MS Methods

D-3 Automated Data Review and Contract Compliance Screening

Laboratory Data Consultants, Inc. 5060

QUALITY CONTROL			tects		
ITEM	EVALUATION	Non Biased	Biased	Nondetects	SAMPLE(S) QUALIFIED
HOLDING TIMES (Extraction and Analysis)	1) Holding time exceeded by 2 times or less	J	_L	UJ	Sample
	2) Holding time exceeded by greater than 2 times	J	ل	R	
COOLER TEMPERATURE	1) > 6 and <u><</u> 10 degrees Centigrade	J	ل	UJ	All samples shipped in the affected cooler. (Shipping
	2) >10 degrees Centigrade	J	٦٣	R	Batch)
	3) < 2 degrees Centigrade	None	None	None	
INITIAL	1) %RSD > 20%	J	J	UJ	All samples associated with
CALIBRATION	2) r < 0.995	J	J	UJ	initial calibration (Run Batch)
INITIAL CALIBRATION	1) % Difference > +25%	J	+t,	None	All samples associated with initial calibration verification
VERIFICATION (ICV)	2) % Difference < -25% and ≥ - 50%	IJ	J-	UJ	(Run Batch)
	3) % Difference < -50%	J	J-	R	
CONTINUING CALIBRATION	1) % Difference > +15%	J	+L	None	All samples associated with continuing calibration
(CV)	2) % Difference < -15% and <u>></u> - 50%	J	J-	UJ	(Analysis Batch)
	3) % Difference < -50%	J	J~	R	
METHOD BLANK CONTAMINATION	1) Common lab contaminant results less than or equal to 10 times the blank contamination	U	U		All samples in the same Preparation Batch
	 Other compound results less than or equal to 5 times the blank contamination 	U	U	None	
SURROGATE RECOVERY	1) % Recovery < CL but <u>></u> 10%	J	J-	UJ	Sample
	2) % Recovery <10%	J	J-	R	
	3) % Recovery > CL	j	+L	None	

Qualification Summary for GC Methods

D-4 Automated Data Review and Contract Compliance Screening

Laboratory Data Consultants, Inc. 5061