

# Uploaded to the VFC Website



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.



# **Laboratory Duplicate RPD Outlier Report**

# Laboratory Duplicate RPD Outlier Report

Method Batch : MXX1378

Analysis Method: 6010C

Lab Reporting Batch: 31101889

Lab ID: SGSW

Analysis Date: 07/22/2011

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported RPD	Project Limit RPD
31101889025DUP	32023	so	Arsenic	50	20.00
			Chromium	37	20.00

Associated Samples: All	samples in Method Batch	
Client Sample ID	Lab Sample ID	
E11-107-S1	31101889004	
E11-128-S1	31101889002	
E11-128-S2	31101889003	
E11-135-S1	31101889005	
E11-135-S2	31101889006	
E11-135-S3	31101889009	
E11-135-S4	31101889010	
E11-137-S1	31101889011	
E11-137-S2	31101889012	
E11-137-S3	31101889013	
E11-137-S4	31101889014	
E11-141-S1	31101889015	
E11-141-S2	31101889016	
E11-141-S3	31101889017	
E11-141-S4	31101889018	
E11-148-S1	31101889020	
E11-148-S3	31101889024	
E11-151-S1	31101889025	ŀ

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

ADR 8.2

Report Date: 8/23/2011 13:53

Page 1 of 1

5/02

# **Sample Qualification Report**

Includes laboratory qualification flags and overall final validated flags with the reason(s) for the flags.

Client Sample ID: 31101889006MS

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date:

Reviewed By / Date :

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889007

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 8081					Diluti	on: 1														
Chlordane	34.6		ug/Kg	Ų	i	:	1		1	1	1		1	l					1	Ī
Chlordane	34,6		ug/Kg	Ų		:			1	]			1	1			1	!	l	1
Toxaphene	34.6		ug/Kg	U				1						)	1		1	i		I
Toxaphene	34.6		ug/Kg	U						1	1	}			1		1	!	1	I
Analysis Method : 8151		*			Diluti															
Bentazon	0.00476		mg/kg	J		:			1	1			1	[			1		1	
Bentazon	0.00476		mg/kg	J					1								1		1	1
Picloram	0.0213		mg/kg	J				i	 I		]	1			1		Ī .			1
Picloram	0.0213		mg/kg	J					1	1	1	}	1				1 (		1	1

Project Number and Name:

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

Library Used: (

Report Date: 9/6/2011 09:53

CampCarroll

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

Page 1 of 288

Client Sample ID: 31101889021MS

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date :

Analysis Type: DL

Sample Matrix : SO

Lab Sample ID: 31101889022

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	WB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CCV CCV
Analysis Method: 8081					Diluti	on: 10														
Chlordane	354		ид/Кд	Ü		:				J		1	I	-	<u> </u>					
Chlordane	354	-	ug/Kg	U			İ	1						i					1	
Toxaphene	354		ug/Kg	U									ĺ							
Toxaphene	354		ug/Kg	U					[						1		1		-	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 2 of 288

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: 31101889021MS

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date :

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889022

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overati Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV CCV
Analysis Method: 8151					Diluti	on: 1														
Bentazon	0.00325		mg/kg	J	į	:				1		1		i						
Benlazon	0.00325		mg/kg	J			1			l					l i				1	
Pictoram	0.0345	:	mg/kg																l	
Picloram	0.0345		mg/kg												<u> </u>					1 1

Project Number and Name:

ADR 8.2

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

Library Used:

Report Date: 9/6/2011 09:53

CampCarroll

Page 3 of 288

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 : E11-107-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889004 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep 1 Imit	Moist Tot/Dis		Tune	IC	ICV	CCA
Analysis Method : 6010C		<u></u>			Dijutie		, ~p						Ouit		. 00010	<u> </u>				
Arsenic	3.09		mg/kg		YES					1	į j						j		1	1
Barium	66.2		mg/kg		YES		i I		l	i 	 	i	i	( Į	1				 I	
Cadmium	0.637	: · · · · · · · · · · · · · · · · · · ·	mg/kg		YES	U			υ		i 	: }	) 		1		 			1
Chromium	2.33		mg/kg		YES	IJ			U	1	i	J	1						i	1
Lead	10.5		mg/kg		YES	J				l	J	 	1		1		i		i	Ì
Selenium	1.80		mg/kg	U	YES					i	 						ii		 	
Silver	0.899		mg/kg	U	YES		i		` 	i	i		i	i	ii		i i		: 	1
Analysis Method : 7471B					Dilutio	m: 1			`		·				3				······	
Mercury	0.0208		mg/kg	U	YES		[				}		<u> </u>						<u> </u>	
Analysis Method : 8081					Dilutio	n:1														
4,4'-DDD	9.85		ug/Kg	U	YES										1 1		Ï		1	i i
4,4'-DDD	9,85		ug/Kg	U	YES		1										l		]	
4,4'-DDE	9.85		ug/Kg	U	YES		1													1
4,4'-DDE	9.85		ug/Kg	U	YES		1	i							i i		1			l
4,4'-DDT	1.29		ug/Kg	βP	YES	υ			υ				;							
4,4'-DDT	1.29		ug/Kg	JP :	YES	ย			υ											
Aidrin	9.85	:	ид/Кд	U	YES		1		1						3					
Aldrin	9.85		ug/Kg	U	YES	1					· · · · · ·	]								1
alpha-BHC	9.85		ug/Kg	ប	YES ;								j				}			1
alpha-BHC	9,85	:	ид/Кд	U	YES		1		1				ì		1					1
alpha-Chlordane	9.85	;	ид/Кд	U	YES	1	1	1							1					
alpha-Chiordane	9.85		ug/Kg	U	YES			1					i		1	ı				
beta-BHC	9.85		ug/Kg	U ;	YES		1	١				1	1							
beta-BHC	9.85	j	ug/Kg	U ;	YES		1	1	1		}	1	1	1				١		
Chlordane	32.8	<u> </u>	ug/Kg	U	YES	!	1	1	1			1			1					
Chlordane	32.8		ug/Kg	U	YES			1				1				i				
delta-BHC	9.85		ug/Kg	υ	YES			Ì				1				1		1		

Project Number and Name:

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

Library Used: Report Date: 9/6/2011 09:53

CampCarroli

ADR 8.2

Page 4 of 288

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 : E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Lab Sample ID: 31101889004

Sample Matrix: SO

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty I Error	Result Units	Lab Qual	Rep Res	Overalf Qual*	Тетр	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8081			***********		Dilutio	on: 1														
delta-BHC	9.85		ид/Кд	U	YES						ſ		[		1 1		1 1	***********		Ī
Dieldrin	9.85		ug/Kg	U	YES					1			1							[
Dieldrin	9.85		ug/Kg	U	YES					1		1	1				1			1
Endosulfan i	9.85		ug/Kg	U	YES						}	}	l							1
Endosulfan I	9.85	:	ug/Kg	U	YES		I		l											1
Endosulfan II	9.85		ug/Kg	U	YES						ļ								1	1
Endosulfan II	9.85		ug/Kg	U	YES															1
Endosulfan sulfate	9.85		ug/Kg	U	YES															
Endosulfan sulfate	9.85		ug/Kg	U	YES		1			1					i i		l			
Endrin	9.85		ug/Kg	U	YES										1					
Endrin	9.85		ид/Кд	υ	YES										ı					1
Endrin aldehyde	9.85	,	ug/Kg	U	YES								}	.,		1				l
Endrin aldehyde	9.85		ug/Kg	U	YES		1										l			
Endrin ketone	9.85	ĺ	ug/Kg	U	YES				,						i		1			
Endrin ketone	9.85		ug/Kg	U	YES			1												1
gamma-BHC (Lindane)	9.85		ug/Kg	U	YES			1					1	į						
gamma-BHC (Lindane)	9.85		ug/Kg	υ	YES :		1	1			{	1	ļ						1	
gamma-Chlordane	9.85	į	ug/Kg	Ü	YES	1	1						ſ		1					
gamma-Chlordane	9.85		ug/Kg	U	YES		1	1				1	1		1	1	į			
Heptachlor	9.85		ug/Kg	U	YES			1	ı			1	]		1	1	1			1
Heptachlor	9.85	-	ug/Kg	υ	YES	1	1	1			1	1	1	l	1	1				1
Heptachlor epoxide	9.85	1	ид/Кд	บ	YES		I	I			1	I	1			I				1
Heplachlor epoxide	9.85		ug/Kg	U	YES				j			1	j		1	1		1		1
Methoxychlor	9.85		ug/Kg	U	YES				1		ĺ	1			-	1	1	l		i
Methoxychlor	9.85		ug/Kg	U	YES		1	1	1	j	į	1	1			1	!	١		1
Toxaphene	32.8	1	ug/Kg	U	YES:	}		1	1	1		1	1	1		1	1			1

Project Number and Name:

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

Library Used:

CampCarroll

Report Date: 9/6/2011 09:53 \* 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 5 of 288

Client Sample ID: E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Reviewed By / Date :

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889004

Approved By / Date:

		·																		
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat		Overal Qual*	l Temp	нт	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	1C	icv	CCV CCV
Analysis Method : 8081					Dilutio	on: 1														
Toxaphene	32.8		ug/Kg	Ų	YES		1	1			į	l			1				1	1
Analysis Method : 8151					Dilutio	on: 1														
2,4,5·T	0.0163		mg/kg	U	YES			<u> </u>	1	1		1	1	1	1		<u> </u>		]	1
2,4,5-TP (Silvex)	0.0163		mg/kg	U	YES		i i		1	1		ļ	l	<u> </u>	<u> </u>		1		1	1
2,4'-D	0.0163		mg/kg	υ	YES						ļ		ŧ	l					1	1
2,4-DB	0.0163		mg/kg	υ	YES		1			ŀ					1		i i		1	
Dicamba	0.0163		mg/kg	U	YES	UJ			1	1	UJ		1						1	1
Analysis Method : 8260B					Dilutio	on: 1														
1,1,1,2-Tetrachloroethane	4.73		ug/Kg	U	YES				1	1			1	1					1	1
1,1,1-Trichloroethane	4.73		ug/Kg	U	YES		!				į									1
1,1,2,2-Tetrachloroethane	4.73		ug/Kg	U	YES		[ ]		1	f			ĺ						1	
1,1,2-Trichloroethane	4.73		ug/Kg	U	YES		j		1						į		1		1	
1,1-Dichloroethane	4.73		ug/Kg	υ	YES	IJ	1			UJ					1		l l			
1,1-Dichloroelhene	4.73		ug/Kg	U	YES	IJ	J			UJ					1				'	1
1,1-Dichloropropene	4.73		ug/Kg	U	YES		I										1			l
1,2,3-Trichlorobenzene	4.73		ug/Kg	U	YES :										1				1	
1,2,3-Trichloropropane	4,73		ug/Kg	υ	YES ;		1								1		į		1	
1,2,4-Trichlorobenzene	4,73		ug/Kg	U	YES		i i												1	
1,2,4-Trimethylbenzene	4.73		ug/Kg	U	YES	*******	[	,												l
1,2-Dibromo-3-chloropropane	28.4		ug/Kg	U ;	YES		1										1			
1,2-Dibromoethane	4.73		ug/Kg	U	YES		1						}				]			
1,2-Dichlorobenzene	4.73	;	ug/Kg	U	YES		1										I			
1,2-Dichloroethane	4.73		ug/Kg	ย	YES											1				
1,2-Dichtoropropane	4.73		ug/Kg	U	YES								i			1				
1,3,5-Trimethylbenzene	4.73	1	ug/Kg	U	YES		1 1			i		1		1	1	ı				1
1,3-Dichlorobenzene	4.73		ug/Kg	υ	YES			·······					]							1
1,3-Dichloropropane	4.73		ug/Kg	u	YES			· · · · · · · · · · · · · · · · · · ·	············· 					   		······	1			 I

Project Number and Name:

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

Library Used:

CampCarroli

Report Date: 9/6/2011 09:53

Page 6 of 288

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 : E11-107-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889004

Analysis Method : 8260B									
1,4-Dichlorobenzene         4.73         ug/Kg         U         YES   <	Lab S Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	CV/
2.2-Dichloropropane         4.73         Ug/Kg         U YES                     2-Bulanone         23.6         ug/Kg         U YES                     2-Chlorotoluene         4.73         ug/Kg         U YES                     2-Hexanone         11.8         ug/Kg         U YES                     4-Chlorotoluene         4.73         ug/Kg         U YES                     4-Loropopytioluene         4.73         ug/Kg         U YES                     4-Melhyt-2-pentanone         11.8         ug/Kg         U YES                     4-Melhyt-2-pentanone         11.8         ug/Kg         U YES                     4-Melhyt-2-pentanone         11.8         ug/Kg         U YES                     Benzene         4.73         ug/Kg         U YES                               Benzene         4.73         ug/Kg         U YES   Bromochloromethane         4.73         ug/Kg         U YES   Bromochloromethane         4.73         ug/Kg         U YES   <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
2-Butanone   23.6   ug/Kg U YES			i	I	1				1
2-8btanene   2-8	ì							1	ĺ
2-Chlorotoluene         4.73         ug/Kg         U         YES   <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td>1</td> <td> </td> <td>1</td> <td> </td>						1		1	
2-Hexanone         11.8         ug/Kg         U         YES                         4-Chlorotoluene         4.73         ug/Kg         U         YES                         4-Isopropyfoluene         4.73         ug/Kg         U         YES                         4-Melhyf-2-pentanone         11.8         ug/Kg         U         YES                         4-Methyf-2-pentanone         11.8         ug/Kg         U         YES                         Acetone         10.4         ug/Kg         U         YES                                   Benzene         4.73         ug/Kg         U         YES                                   Bromobenzene         4.73         ug/Kg         U         YES                                   Bromochloromethane         4.73         ug/Kg         U         YES                                   Bromoform         4.73         ug/Kg         U         YES                                   Bromodichloromethane         4.73         ug/Kg         U         YES                                   Bromodisulfide         4.73         ug/Kg         U         YES			1						
4-Isopropyfloluene	1			1					
4-Melhyf-2-pentanone	1			1	}		}		1
4-Methyl-2-pentanone         11.8         ug/Kg         U         YES	1							1	
Benzene		1	İ			1		1	
Benzene		1	į	1		1			
Bromochloromethane	1	1	}		ļ		}		
Bromodichloromethane	1		i	1	]		}		
Bromodichloromethane         4.73         ug/Kg         U         YES                         Bromoform         4.73         ug/Kg         U         YES                         Bromomethane         4.73         ug/Kg         U         YES                         Carbon disulfide         4.73         ug/Kg         U         YES                       UU           Carbon tetrachloride         4.73         ug/Kg         U         YES                       UU           Chlorobenzene         4.73         ug/Kg         U         YES                       U           Chloroform         4.73         ug/Kg         U         YES                       U           Chloromethane         4.73         ug/Kg         U         YES              <	,				j	1		1	1
Bromomethane				1			1		
Bromomethane	1			1			ļ		
Carbon tetrachloride         4.73         ug/Kg         U         YES	i I			1			i		
Chlorobenzene	į į							1	]
Chloroethane         4.73         ug/Kg         U         YES         I         I           Chloroform         4.73         ug/Kg         U         YES         I         I           Chloromethane         4.73         ug/Kg         U         YES         I         I           cis-1,2-Dichloroethane         4.73         ug/Kg         U         YES         I         I           cis-1,3-Dichloropropene         4.73         ug/Kg         U         YES         I         I	1 1					1	İ	1	
Chloroform         4.73         ug/Kg         U         YES         I         I           Chloromethane         4.73         ug/Kg         U         YES         I         I           cis-1,2-Dichloroethane         4.73         ug/Kg         U         YES         I         I           cis-1,3-Dichloropropene         4.73         ug/Kg         U         YES         I         I	1 1				1				
Chloroform         4.73         ug/kg         U         YES                               Chloromethane         4.73         ug/kg         U         YES                               cis-1,2-Dichloroethene         4.73         ug/kg         U         YES                               cis-1,3-Dichloropropene         4.73         ug/kg         U         YES	[						1		
cis-1,2-Dichloroethene         4.73         ug/Kg         U         YES         I           cis-1,3-Dichloropropene         4.73         ug/Kg         U         YES         I						1			
cis-1,3-Dichloropropene 4.73 ug/Kg U YES						1		1	
cis-1,3-Dichloropropene 4.73 ug/Kg U YES	1 1	1						1	
Disconnection methods ( A73		I							
note indented and the second s				1					
Dibromomethane 4.73 ug/Kg U YES				l					
Dichlorodifluoromethane 4.73 ug/Kg U YES	i I					i			

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 7 of 288

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 : E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889004

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	n: 1														
Ethyl Benzene	4.73		ид/Ко	U	YES				1	l	1	-		Í						
Hexachlorobutadiene	4.73		ug/Kg	U	YES				1		[			ì						
Isopropylbenzene (Cumene)	4.73		ug/Kg	Ų	YES		1		1	[			1							
m,p-Xylene	9.45		ug/Kg	U	YES		I					1	1	l					]	1
Methyl iodide	4.73		ug/Kg	U	YES		j		1		1	1	l	}					1	1
Methylene chloride	2.08		ug/Kg	J	YES	J			1	J	]			1	f I					1
Naphthalene	4.73		ug/Kg	U	YES									1					1	
n-Buly/benzene	4.73		ug/Kg	U	YES	i	1													
n-Propylbenzene	4.73		ug/Kg	υ	YES										1					
o-Xylene	4.73		ug/Kg	V	YES		1							i	1					
sec-Bulylbenzene	4.73		ug/Kg	υ	YES												1			
Styrene	4.73		ug/Kg	U	YES		]					1			i i		ţ			1
tert-Butyl methyl ether (MTBE)	4.73		ug/Kg	U	YES	UJ	1	i		UJ					l i					
1ert-Butylbenzene	4.73		ug/Kg	U	YES	1	1					1								
Tetrachioroethene	4.73		ug/Kg	U	YES	ļ	-					1					1			
Toluene	4.73		ug/Kg	U	YES								}							
trans-1,2-Dichloroethene	4.73	ì	ug/Kg	u ;	YES	UJ	1			UJ		[ ]					į			
trans-1,3-Dichloropropene	4.73	;	ug/Kg	U	YES	ļ				i					1		1			]
trans-1,4-Dichloro-2-butene	23.6	Ĭ	ug/Kg	U	YES	1	ĺ		1						1	- 1				
Trichloroethene	4.73		ug/Kg	U	YES	)	1		1	į			j			1				
Trichtorofluoromelhane	4.73		ug/Kg	U	YES	}		1												1
Vinyl chloride	4.73	į	ug/Kg	U	YES		1	1		1						I	1			
Analysis Method : 8270D					Dilutio	n: 1								-						
1,2,4-Trichforobenzene	343		ид/Кд	υ	YES	Ī	<u> </u>	Ī	Ī								1		l	
1,2-Dichlorobenzene	343		ug/Kg	υ	YES														<u> </u>	
1,3-Dichlorobenzene	343		ug/Kg	บ	YES			1	1	1		l	]			ĺ				
1,4-Dichlorobenzene	343		ug/Kg	U	YES	1	1	1	1	}						Î				

Project Number and Name:

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

Library Used: Camp

Report Date: 9/6/2011 09:53

Page 8 of 288

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: E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889004

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	мв	LCS	MS	Lab Đưp	Surr	Rep Limit	Moist Tot/Dis		Tune	1C	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1														.,,
2,4,5-Trichlorophenol	343	;	ug/Kg	U	YES					1	1 :	1		i			1		l	Ī
2,4,6-Trichlorophenol	343		ug/Kg	U	YES					1				İ			]		[	1
2,4-Dichtorophenol	343		ug/Kg	U	YES					1				1			1			1
2,4-Dimethylphenol	343		ug/Kg	U	YES			.,,,,,,,,,	1		1			}						
2,4-Dinitrotoluene	343		ug/Kg	U	YES										1					1
2,6-Dinitrotoluene	343		ug/Kg	U	YES				1	1					i I					
2-Chioronaphihalene	343	;	ug/Kg	U	YES					1							!		1	
2-Chlorophenol	343		ug/Kg	U	YES					l	1				l l					1
2-Methylnaphthalene	343		ug/Kg	U	YES		1													1
2-Melhylphenol	343		ug/Kg	U	YES		1		ĺ					1						
2-Nitroaniline	343		ug/Kg	U	YES										l i				1	
2-Nitrophenol	343		ug/Kg	U	YES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,													1	
3 and/or 4-Methylphenol	343	i	ug/Kg	υ	YES		1						ì							1
3-Nitroaniline	343		ug/Kg	U	YES		1													
4-Bromophenyl phenyl elher	343		ug/Kg	U	YES	1			·				j		l .		1			
4-Chloro-3-methylphenol	343		ug/Kg	U	YES		ĺ												[	1
4-Chloroaniline	343		ug/Kg	U	YEC	i	· · · · · · · · · · · · · · · · · · ·					]	]		1					1
4-Chlorophenyl phenyl ether	343		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·				1	1	i							
4-Nitroaniline	343		ug/Kg	U	YES	1						1	· · · · · · i							İ
4-Nitrophenol	343		ug/Kg	U	YES	į	1	· · · · · · · · · · · · · · · · · · ·	1			1					1			1
Acenaphthene	343		ug/Kg	U	YES					i	· · · · · · · · · · · · · · · · · · ·		1		J	1				1
Acenaphthylene	343		ug/Kg	U	YES	· · · · · · ·									1	1				1
Anthracene	343	}	ug/Kg	U	YES				1			i		1			I			
Benzo(a)anthracene	343		ug/Kg	U	YES	<u>-</u>			 			Ì				i				
Benzo(a)pyrene	343		ug/Kg	υ	YES		···· · · · · · · · · · · · · · · · · ·	······	i							. <i>.</i>	i			1
Benzo(b)fluoranthene	343	1	ид/Кд	U	YES :			1		1					1	1				

Project Number and Name:

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

Library Used: CampCarroll

Page 9 of 288

ADR 8.2 Report Date: 9/6/2011 09:53 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: E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889004

Reviewed By / Date :

#### Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat		Overall Quai*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Типе	IC	ICV	CCV
Analysis Method : 8270D		*****************			Dilutio	on: 1														
Benzo(g,h,i)perylene	343		ug/Kg	U	YES				1								i		1	Î
Benzo(k)fluoranthene	343	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ug/Kg	Ų	YES		1		1	1				]	1				1	
Bis(2-Chloroethoxy)methane	343		ug/Kg	U	YES	I								}	i i		]			1
Bis(2-Chloroethyl)ether	343		ug/Kg	U	YES	1											i			
Bis(2-Chloroisopropyl)ether	343		ug/Kg	U	YES	l									1 1		l			
Bis(2-Ethylhexyl)phthalate	343	;	ug/Kg	U	YES		1													
Butyl benzyl phthalate	343		ug/Kg	υ	YES		1								l				1	
Chrysene	343		ug/Kg	υ	YES		1								l i					
Dibenz(a,h)anthracene	343		ug/Kg	U	YES	j	1	-									1			
Dibenzoluran	343	i	ug/Kg	U	YES	1	ĺ										}			
Diethyl phthalate	343		иg/Kg	U	YES	(	]				,				}		}			
Dimethyl phthalate	343		ug/Kg	U	YES		Ì						1							,
Di-n-butyl phthalate	343	;	ug/Kg	U	YES	1		]		ì							1			
Di-n-octyl phthalale	343	Ì	ug/Kg	U	YES	1		1			1		}				1			
Fluoranthene	343		ug/Kg	U	YES		1						1							
Fluorene	343	:	ug/Kg	U	YES	1				i			,							
Hexachtorobenzene	343	}	ug/Kg	U	YES	- 1	1	1		*	1	1	1				i			
Hexachlorobutadiene	343	i	ug/Kg	U	YES ;	f	1	1			1	1	i	1			i			
Hexachlorocyclopentadiene	343	-	ug/Kg	บ	YES		1	I	1		1	1	1		1		Ì		1	1
Hexachioroelhane	343		υg/Kg	U	YES		1			i	····		1				1		1	1
Indeno(1,2,3-cd)pyrene	343	;	ug/Kg	U	YES	1	1					1	į		i	1	1			
Isophorone	343		បg/Kg	U	YES :	1		1	1		į	Ī		1		1			1	1
Naphthalene	343		ug/Kg	U	YES			l				I		1		١	Ì		ı	1
Nitrobenzene	343		ug/Kg	U	YES	i		1	1		}	1	1	ı	1		1			
n-Nitrosodi-n-propylamine	343	i	ug/Kg	υ	YES :	1	1	1		1	i		1		1		ì		1	
Pentachiorophenol	343		ug/Kg	υ	YES	นา	· · · · · · · · · · · · · · · · · · ·	1		UJ	I	1	1	1	1	1	i			1

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 10 of 288

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

Client Sample ID : E11-107-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889004

Reviewed By / Date :

#### Approved By / Date :

Analyte Name	Resuit	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ιc	ICV	CCV CCV
Analysis Method : 8270D	0.207/2011/0.001/0.001				Diluti	on: 1														
Phenanthrene	343		ug/Kg	U	YES				1	1		ĺ		ì			1			1
Phenol	343		ug/Kg	U	YES				1	1			, -, , -, , , ,							1
Pyrene	343	4	ид/Кд	U	YES	1		1							1				1	1

Project Number and Name:

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

Library Used: CampCarroll
Report Date: 9/6/2011 09:53

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

Page 11 of 288

5/14

Client Sample ID : E11-108-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889040 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :							App	rove	i By /	Date:										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	IC	ICV	CC/
Analysis Method : 6010C					Dilutio	n: 1														
Arsenic	0.829		mg/kg	j	YES					1			Ī		[ ]				1	Ī
Barium	61.7		mg/kg		YES						j								1	1
Cadmium	0.598		mg/kg		YES	U			ប	[		•			1					l
Chromium	3.66		mg/kg	:	YES		١		1	1							1			
Lead	3.33		mg/kg		YES	υ			U		į									1
Selenium	0.460		mg/kg	J	YES						}								1	1
Silver	0.900		mg/kg	υ	YES		1						1						1	Ï
Analysis Method : 7471B				*******	Dilutio	n: 1														
Mercury	0.0212		mg/kg	U	YES :	1				1		l	1	(					1	
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	9.82		ug/Kg	U	YES	1	1				<u> </u>		1							
4,4'-DDE	9.82		ug/Kg	U	YES	1								1						
4,4'-DDT	9,82	į	ug/Kg	U	YES						1				l					1
Aldrin	9.02	į	ид/Кд	υ	YES							1			Í					l
alpha-BHC	9.82		ug/Kg	U	YES	1	ı													
alpha-Chlordane	9.82	į	ug/Kg	U	YES		l								İ					
beta-BHC	9.82	;	ug/Kg	υ	YES				ı											
Chlordane	32.7	1	ug/Kg	ប	YES		1								1					
delta-BHC	9.82	:	ug/Kg	U	YES		Ì													[
Dieldrin	9.82		ug/Kg	U	YES :		1										1			ĺ
Endosulfan i	9.82	i	ug/Kg	U	YES	1											i	1	· · · · · · · · · · · · · · · · · · ·	1
Endosulfan II	9.82		ug/Kg	U	YES	1					1			i				1		1
Endosulfan sulfate	9.82		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1			i		1			]			·····i	1
Endrin	9.82	;	ug/Kg	V	YES				1							1	}			
Endrin aldehyde	9.82		ug/Kg	U	YES	1	1	]		}	1		1		1	<u>`</u>	ĺ	<u>-</u>	i	
Endrin kelone	9.82		ug/Kg	U	YES ;	,	l	1	1			i	1	i	i	·i		······i		
gamma-BHC (Lindane)	9.82	·····	ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·		1				i	·····i	i		i	ر ا		

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 12 of 288

<sup>\*</sup> 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: E11-108-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889040

Reviewed By / Date :

# Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overati Qual*		HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICA	CCV
Analysis Method : 8081	• • • • • • • • • • • • • • • • • • • •				Diluti	on: 1														
gamma-Chlordane	9.82		ug/Kg	U	YES	:			1	1		1		į					1	[
Heptachlor	9.82		ug/Kg	υ	YES				1		(	İ			[ ]				1	1
Heptachfor epoxide	9.82		ид/Кд	U	YES				1						1				1	1
Methoxychlor	9.82		ug/Kg	U	YES					1				1	1					
Toxaphene	32.7		ug/Kg	U	YES						1	}			1		1		[	
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-T	0.0162		mg/kg	U	YES		l					Ì					1			
2,4,5-T	0.0162		mg/kg	V	YES												1			
2,4,5-TP (Silvex)	0.0162		mg/kg	U	YES					1					1 1				1	1
2,4,5-TP (Silvex)	0.0162		mg/kg	U	YES							!			1					
2.4'-D	0.0162		mg/kg	U	YES		1													
2,4'-D	0.0162		mg/kg	U	YES	(	J													
2,4-D8	0.0162	,	mg/kg	IJ	YES		1								1			i		1
2,4-DB	0.0162		mg/kg	U	YES	1	1													
Dicamba	0.0162		mg/kg	U	YES	1	Ì										1			1
Dicamba	0.0162	i	mg/kg	u	YES			1			1	i i								1
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4,76	;	ug/Kg	U	YES	UJ	1				UJ				Í					
1,1,1-Trichloroelhane	4.76	-	ug/Kg	U	YES	UJ	Ì				UJ		-				į			i
1,1,2,2-Tetrachloroethane	4.76	1	ug/Kg	ម	YES	IJ		1	1		UJ					1				į
1,1,2-Trichloroethane	4.76		ug/Kg	U	YES	IJ	1				UJ	1		l	1		1	1		
1,1-Dichloroethane	4.76	Ĭ	ug/Kg	U	YES	UJ	-	1		į	UJ	1	1					1		1
1,1-Dichloroethene	4.76		ug/Kg	U	YES	UJ	1		-	ĺ	UJ	ļ	j					1		1
1,1-Dichloropropene	4.76		ug/Kg	υ	YES	Π٦	I	1			เม					Ī				
1,2,3-Trichlorobenzene	4.76	;	ug/Kg	υ	YES	ĐJ	1		1	{	UJ			<u> </u>			]	1		i
1,2,3-Trichloropropane	4.76	-	ug/Kg	U	YES	UJ	1	1	1		UJ	1			1			1		
1,2,4-Trichlorobenzene	4.76		ug/Kg	v	YES	UJ	1			· · · · · · · · · · · · · · · · · · ·	UJ	1	1				I	1		

Project Number and Name:

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

Library Used: CampCarroli

Report Date: 9/6/2011 09:53

Page 13 of 288

ADR 8.2 Overall result qualifier reflects summation of qualifiers added during eulomated data review and any qualifiers added manually for categories not assessed by automated data review

Client Sample ID: E11-108-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889040

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	fC.	icv	CC /
Analysis Method : 8260B					Dilutio	n: 1														
1,2,4-Trimethylbenzene	4.76		ug/Kg	Ų	YES	Π٦		1	1		UJ	1	1	İ						Ī
1,2-Dibromo-3-chloropropane	28.6		ug/Kg	U	YES	UJ			l	1	UJ	[	l .	1			1		1	
1,2-Dibromoethane	4.76		ug/Kg	U	YES	UJ				1	UJ			}					ĺ	
1,2-Dichlorobenzene	4.76		ug/Kg	υ	YES	UJ			Į.		UJ								1	
1,2-Dichloroethane	4.76		ug/Kg	υ	YES	UJ					เก	1						.,	[	
1,2-Dichloropropane	4.76		ug/Kg	U	YES	IJ	I				UJ			İ			]			
1,3,5-Trimethylbenzene	4.76		ug/Kg	U	YES	UJ					UJ									
1,3-Dichlorobenzene	4.76		ug/Kg	U	YES	IJ					UJ									
1,3-Dichloropropane	4,76		ug/Kg	U	YES	υJ					UJ				Ì					
1,4-Dichlorobenzene	4.76		ug/Kg	U	YES	ΠJ					υJ									
2,2-Dichtoropropane	4.76	,	ug/Kg	U	YES	IJ					UJ						ì			1
2-Butanone	23.8	·	ид/Кд	U	YES	ยม	1				υJ									1
2-Chlorotoluene	4.76		ug/Kg	U	YES	UJ	1	1			IJ									1
2-Hexanone	11.9		ug/Kg	U	YES	IJ					UJ									1
4-Chlorotoluene	4.76		ug/Kg	Ų	YES	UJ					uJ									1
4-Isopropyltoluene	4.76		ug/Kg	U	YES	UJ		1			UJ				1					
4-Methyl-2-pentanoné	11.9	ì	ug/Kg	υ	YES	UJ	1	1			υJ				}	1				
Acelone	8,05		ug/Kg	J	YES	J		1	1	}	J					ì				
Benzene	4.76	i	ug/Kg	U	YES	บม	ĺ		]		UJ		1	}		-	i	ļ		
Bromobenzene	4.76		ug/Kg	U	YES	UJ	1	1	1		UJ		į	-			1			
Bromochloromethane	4.76	:	ug/Kg	U	YES	UJ		1	1		បរ ]	1		1	}	1		1	ĺ	
Bromodichloromethane	4.76		ug/Kg	U	YES	UJ		1	1		υJ	1		j		1	i		1	
Bromoform	4.76		ug/Kg	Ų	YES	IJ			J	1	UJ	l		1		1	1		I	1
Bromomethane	4.76	-	ug/Kg	V	YES	คา	1	1			Ų		1			1	i			
Carbon disulfide	4.76	ì	ug/Kg	U	YES :	Π٦		1	1	IJ	UJ {			1	1			1		. 1
Carbon tetrachloride	4.76	į	ug/Kg	U	YES	ÛΊ	ĺ	1	1	1	UJ	1		ı		1			1	

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

Library Used: CampCarroll

Page 14 of 288

<sup>\*</sup> 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: E11-108-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889040

Reviewed By / Date :

# Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	t.ab Qual		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	n: 1														
Chlorobenzene	4.76		ug/Kg	U	YES :	เกา			1		UJ		1	į					1	1
Chloroethane	4.76		ug/Kg	U	YES	ÛΊ				1	UJ	i		1						1
Chloroform	4.76		ug/Kg	U	YES	UJ				1	UJ	i	1						1	1
Chloromethane	4.76		ug/Kg	U	YES	UJ			1		ຸປາ	f	1							
cis-1,2-Dichloroethene	4.76		ug/Kg	υ	YES	UJ					UJ						1			
cls-1,3-Dichloropropene	4.76		ug/Kg	υ	YES	UJ	l				UJ				]					[
Dibromochloromethane	4.76		ug/Kg	U	YES	UJ					IJ			[	1					
Dibromomelhane	4.76		ug/Kg	U	YES	נט					UJ									l
Dichlorodifluoromethane	4.76		ug/Kg	U	YES	ŲĴ			1		UJ	]			1					
Ethyl Benzene	4.76		ид/Кд	U	YES	UJ	1		i		UJ				l l					
Hexachlorobuladiene	4.76		ug/Kg	U	YES	UJ	1				UJ				1		į			
Isopropylbenzene (Cumene)	4.76		ug/Kg	U ;	YES	UJ					เกา								 	1
m,p-Xylene	9.52		ug/Kg	υ	YES		1										1			
Methyl lodide	4.76	i	ug/Kg	U	YES	UJ				เม	UJ						1			1
Methylene chloride	19.0		ug/Kg	U	YES	IJ					ບນ					· · · · · · · · · · · · · · · · · · ·	1			
Naphihalene	4.76		ug/Kg	U	YES	IJ	1			1	UJ					ĺ				
n-Bulylbenzene	4.70		ug/Kg	U	YE3	UJ		]			UJ				1					
n-Propylbenzene	4.76		ug/Kg	U	YES :	UJ					UJ		1				1	ļ		
о-Хујепе	4.76		ug/Kg	U	YES	IJ				1	UJ		ĺ	ĺ		1	i			
sec-Bulyibenzene	4.76	;	ug/Kg	υ	YES	ยม	1		1	3	UJ		i	1	i	1	1			
Slyrene	4.76		ug/Kg	U	YES	UJ	1			1	U3		i	1			1			
lerl-Bulyl methyl ether (MTBE)	4.76		ug/Kg	U	YES	UJ			1	1	UJ		1		ĺ	1	1	1		
ert-Bulylbenzene	4.76	;	ид/Кд	U	YES	ี ยม	-	1	1	İ	UJ	1	1	1		1	1	1		1
Tetrachloroethene	4.76		ug/Kg	U	YES ;	ยา	1	1		ì	IJ.	1		1		1	1	1		
Toluene	0.943		ug/Kg	J	YES	J	1	I		ĺ	j	1		1		1		1		
rans-1,2-Dichloroethene	4.76		ид/Кд	U	YES	UJ	1	1	1		UJ	I	1		1	1				1

Project Number and Name:

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

Library Used: CampCarroll

a o o

Report Date: 9/6/2011 09:53

Page 15 of 288

<sup>\*</sup> 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 : E11-108-S1

Lab Sample ID: 31101889040

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Tune	IC	ICV	CCA CA1
Analysis Method : 8260B					Dilutio	on: 1										 ,			
trans-1,3-Dichloropropene	4.76		ug/Kg	U	YES	ยม			1	1	UJ		1	İ	l i	Īj		]	Ī
trans-1,4-Dichloro-2-butene	23.8		ug/Kg	U	YES				1	l			l			 []			1
Trichloroethene	4.76		ug/Kg	υ	YES	υJ	1		l		เบม	İ	1	i	l i	 []		1	1
Trichlorofluoromethane	4.76		ug/Kg	υ	YES	UJ	1			[	UJ	1			1 1	 [ ]			
Vinyl chloride	4.76		ug/Kg	υ	YES	UJ	[				UJ	}	1		1 3	 		l	l
Analysis Method : 8270D					Dilutio	on: 1										 			
1,2,4-Trichlorobenzene	332		ug/Kg	U	YES		<u>[</u>	<u> </u>	l	l		<u>                                     </u>	l		1 1	 			1
1,2-Dichlorobenzene	332		ug/Kg	U	YES					ĺ		l	1	l	l	 			
1,3-Dichlorobenzene	332		ug/Kg	U	YES				1	l		1	l			 			
1,4-Dichlorobenzene	332		ug/Kg	Ų	YES						l	<u> </u>		i		 			1
2,4,5-Trichlorophenol	332		ug/Kg	υ	YES							1			I I	 1		1	1
2,4,6-Trichlorophenol	332		ug/Kg	U	YES					1		Ì			1				1
2,4-Dichlorophenol	332		ug/Kg	υ	YES			l	l	l		<u> </u>	l		<b>!</b> !	 		}	1
2,4-Dimethylphenol	332		ид/Кд	υ	YES				l			l			l!	 		l	1
2,4-Dinitrotoluene	332		ug/Kg	U	YES				<u> </u>			[	l			 		l	1
2,6-Dinitrotaluene	332		ug/Kg	U	YES								<u> </u>			 ]		l	<u> </u>
2 Chloronaphthalone	332		ug/Kg	U	YES							}				 1			<u> </u>
2-Chiorophenol	332		ug/Kg	U	YES			i	ĺ							 ]			1
2-Methylnaphthalene	332		ug/Kg	U	YES														1
2-Melhylphenol	332		ug/Kg	U	YES				j						l	l			<u> </u>
2-Nitroaniline	332		ug/Kg	U	YES					1					[ ]				
2·Nitrophenol	332		ug/Kg	Ų	YES		1			}				1					
3 and/or 4-Methylphenol	332		ug/Kg	υ	YES		1			1					}				Ī
3-Nitroaniline	332		ug/Kg	U	YES :		1	1	j						i	1			<u> </u>
4-Bromophenyl phenyl ether	332		ug/Kg	U	YES				Ì	i						 1			I
4-Chioro-3-methylphenol	332		ug/Kg	U	YES :					J									1
4-Chloroaniline	332		ug/Kg	U	YES		Ī		1	1									

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 16 of 288

\* 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 : E11-108-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889040

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overali Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IÇ	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1														
4-Chiorophenyl phenyl elher	332		ug/Kg	U	YES						{									
4-Nitroaniline	332		ug/Kg	U	YES		1 1				1			1	1					1
4-Nitrophenol	332		ug/Kg	U	YES	,			i					i						
Acenaphthene	332	,	ид/Кд	U	YES															
Acenaphthylene	332		ug/Kg	U	YES												1			
Anthracene	332		ug/Kg	Ų	YES		[												1	
Benzo(a)anthracene	332		ug/Kg	U	YES												[			
Benzo(a)pyrene	332		ug/Kg	U	YES									1						
Benzo(b)fluoranthens	332		ид/Кд	U	YES		1		l I					i						
Benzo(g,h,i)perytene	332		ид/Кд	υ	YES									ſ						1
Benzo(k)fluoranthene	332		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	332		ug/Kg	υ	YES										1		1			
Bis(2-Chloroethyl)ether	332		ug/Kg	U	YES		1													
Bis(2-Chloroisopropyl)ether	332		ug/Kg	U	YES												İ	*********		1
Bis(2-Ethylhexyl)phthalate	53.0		ид/Кд	J	YES															
Butyl benzyl phthalate	332	,	ид/Кд	U	YES		1			1							1			
Chrycene	332		ug/Kg	ប	YES				1						1		1			1
Dibenz(a,h)anthracene	332		ug/Kg	U	YES		ı		1						ĺ		Í			
Dibenzofuran	332		ug/Kg	U	YES		1				1				l					1
Diethyl phthalate	332		ug/Kg	υ	YES					i		· · · · · · · · ·								ĺ
Dimethyl phthalate	332	;	ug/Kg	ម	YES	1	1				i	-			i i	l	1			į
Di-n-butyl phihalate	332		ug/Kg	U	YES		1		1			1								1
Di-n-octyl phthalate	332		ug/Kg	U	YES :		1	1	1	i		i					1			
Fluoranthene	332		ug/Kg	U	YES			I		····			,			]				1
Fluorene	332		ug/Kg	U	YES			Ì								i	1			1
Hexachlorobenzene	332		ug/Kg	υ	YES		1	1			······	Ì			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 09:53

Page 17 of 288

<sup>\*</sup> 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 : E11-108-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889040

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal Quai*	it Temp	HT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	10	icv	CCV
Analysis Method : 8270D				•	Dilutio	on: 1														
Hexachlorobutadiene	332		ug/Kg	υ	YES	:		1	1	1		1	1						1	
Hexachlorocyclopentadiene	332		ug/Kg	U	YES						ļ			 	1					
Hexachloroethane	332		ug/Kg	U	YES				1						1					]
indeno(1,2,3-cd)pyrene	332		ug/Kg	U	YES					]			1				1		1	1
Isophorone	332		ug/Kg	U	YES					1		}					1			
Naphthalene	332		ug/Kg	U	YES						1	1								
Nitrobenzene	332		ug/Kg	U	YES												[ ]			
n-Nitrosodi-n-propytamine	332		ug/Kg	U	YES				1										[	
Pentachlorophenol	332		ug/Kg	U	YES	เกา				UJ										
Phenanthrene	332	;	ug/Kg	U	YES					1		1		1				.,		1
Phenoi	332	;	ug/Kg	U	YES		1			l			1							l
Pyrene	332		ug/Kg	U	YES		1								l		l ;		1	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 18 of 288

\* 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 : E11-128-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889002

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaf		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Sur	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCA
Analysis Method : 6010C					Dilutie	on: 1														
Arsenic	9.31		mg/kg		YES	J			1		J	J	1							
Barium	59.7		mg/kg		YES					1	 		1							
Cadmium	1.04		mg/kg		YES	U			υ	1		ļ			1					
Chromium	4.04		mg/kg		YES	J			1			J					1		1	
Lead	23.6		mg/kg		YES	J			l		J						1			
Selenium	2.01	;	mg/kg	υ	YES		1		I	1										
Silver	1.01		mg/kg	U	YES					1										
Analysis Method : 7471B		*************			Dilutio	on: 1							,	.,,						
Mercury	0.00200		mg/kg	J	YES	}			1	ĺ		1	1						]	
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	9.84		ug/Kg	Ü	YES					1									1	1
4,4'-DDD	9.84		ид/Кд	U	YES														1	1
4,4'-DDE	3.42		ug/Kg	J	YES	į	1					}			ļ		)			ĺ
4,4-DDE	3.42		ug/Kg	J	YES		1													1
4,4'-DDT	4.46		ug/Kg	J	YES	U	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	U						ĺ					1
4,4'-DDT	4.46		ug/Kg	J	YES	U	I		U											l
Aldrin	9.84		ug/Kg	υ	YES	1											1			ĺ
Aldrin	9.84		ug/Kg	U	YES	1											1			1
alpha-BHC	9.84		ug/Kg	U	YES :		1								1					1
alpha-BHC	9,84		ид/Кд	Ų	YES		1								1					1
alpha-Chlordane	9.84		ug/Kg	υ	YES		1			j										1
alpha-Chlordane	9,84		ug/Kg	U ;	YES		1				1									
bela-BHC	9.84		ug/Kg	U	YES												į			
beta-8HC	9.84	ĺ	ug/Kg	U	YES								ļ				)			
Chlordane	32.8		ug/Kg	U	YES		1							1	1					
Chlordane	32.8	;	ug/Kg	υ į	YES			 					i			1				
delta-BHC	9.84	:	ug/Kg	U	YES		1	1				ı				1				

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 19 of 288

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: E11-128-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889002

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ícV	CCV
Analysis Method : 8081					Diluti	on: 1													*************	,
delta-BHC	9.84		ug/Kg	U	YES					1	1	***************************************	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	[ ;					]
Dieldrin	9.84		ug/Kg	U	YES						1				1					1
Dieidrin	9.84		ug/Kg	U	YES								 		1		1			
Endosulfan I	9.84		ug/Kg	V	YES															1
Endosulian I	9.84		ug/Kg	U	YES										1		1 1			1
Endosulfan li	9.84		ug/Kg	ช	YES															
Endosulfan #	9.84		ug/Kg	U	YES		1								{				1	
Endosulfan sulfate	9.84		ug/Kg	U	YES		1													l
Endosulfan sulfate	9.84		ug/Kg	U	YES		I								1				}	
Endrin	9.84		ид/Кд	U	YES										1		i i			
Endrin	9,84		ug/Kg	υ	YES							ı								ĺ
Endrin aldehyde	9.84		ug/Kg	U	YES		1	1											1	
Endrin aldehyde	9.84		ug/Kg	U	YES	}	Ī			i	}									
Endan ketone	9.84	;	ug/Kg	υ	YES				·····			1								
Endrin kelone	9.84		ug/Kg	U	YES		1	1			i	1	1				i			1
gamma-BHC (Lindane)	9 84		ug/Kg	U	YES		1	[	1	1	Ī				1					1
gamma-BHC (Lindanc)	9.84		ug/Kg	U	YES	į	1		1	}			1		1					1
gamma-Chlordane	9.84	:	ug/Kg	V	YES				·····		į	· · · · · · ·	ii		[		l 1			1
gamma-Chlordane	9.84		ug/Kg	U	YES			I	1	1		1	1							1
Heplachlor	9.84		ug/Kg	U	YES	į	1	1	١	······································	····	1	i		i i					1
Heplachlor	9.84	:	ug/Kg	U	YES	1	1	1		1			į		1					1
Heptachlor epoxide	9.84	:	ug/Kg	U	YES	1		1		I	j		1							i
Heptachlor epoxide	9.84	i	ид/Кд	บ	YES		]	]	1	i	\$						i			1
Methoxychlor	9.84	;	ug/Kg	U	YES		1	1	1	į	1	1	i							j
Methoxychior	9.84		ug/Kg	U	YES		l	1	1	1		1								
Toxaphene	32.8		ид/Кд	U	YES	1	I	1	I	í	1	I	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 09:53

Page 20 of 288

<sup>\*</sup> Overalt 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: E11-128-S1

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW Sample Matrix: SO

Sample Date: 07/16/2011

Lab Sample ID: 31101889002

							•													
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	ICV	CCV
Analysis Method : 8081				v	Dilutio	on: 1														******
Toxaphene	32.8	:	ид/Кд	U	YES						1	1			1		1		1	T
Analysis Method : 8151					Dilutio	on: 1														
2,4,5-T	0.0165		mg/kg	U	YES				1	1	ì	[		1					[	
2,4,5-T	0.0165		mg/kg	υ	YES		i		1	]						,,,,,				[
2,4,5-TP (Silvex)	0.0165	:	mg/kg	U	YES				1				1		1		1		1	1
2,4,5-TP (Silvex)	0,0165		mg/kg	U	YES									İ			1		1	1
2,4'-D	0.0165		mg/kg	U	YES		1				1	1							1	1
2,4'-D	0.0165		mg/kg	U	YES				1		1	1			l i				1	1
2,4-DB	0.0165		mg/kg	U	YES				1	l	1	1		1					1	
2,4-D8	0.0165		mg/kg	υ	YES				1						1					
Dicamba	0.0165		mg/kg	U	YES	ΝJ			1	1	UJ		]							
Dicamba	0.0165		mg/kg	Ų	YES	UJ.			1	1	ן ט			 					1	İ
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.43		ug/Kg	U	YES				1		ļ	1	ĺ	1	{				1	
1,1,1-Trichloroethane	4.43		ug/Kg	U	YES				l		1	ļ	l							1
1,1,2,2-Tetrachloroethane	4.43		ug/Kg	U	YES						1	1	1						1	1
1,1,2 Trichloroethane	4.43		ug/Kg	U	YES						ļ	}								1
1,1-Dichloroethane	4.43		ид/Кд	υ	YES	UJ				ŲĴ	-	1								1
1,1-Dichloroethene	4.43		ug/Kg	U	YES	UJ				ŲJ										
1,1-Dichloropropene	4.43		ид/Кд	U	YES															[
1,2,3-Trichlorobenzene	4.43		ug/Kg	U	YES						1				ſ					1
1,2,3-Trichloropropane	4.43		ug/Kg	U	YES												ì			
1,2,4-Trichlorobenzene	4.43		ug/Kg	U	YES							1					l			1
1,2,4-Trimethylbenzene	4.43		ид/Кд	U	YES														l	l
1,2-Dibromo-3-chloropropane	26.6		ug/Kg	υ	YES		1						[							1
1,2-Dibromoelhane	4,43		ug/Kg	U	YES									,		.,,,,	!			
1,2-Dichlorobenzene	4.43	i	ug/Kg	υ	YES							1	i	,,,,-,,,						1

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 21 of 288

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 : E11-128-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889002 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overali Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	łC	ΙCV	CC/
Analysis Method : 8260B				.,	Dilutio	on: 1		***********												
1,2-Dichtoroethane	4.43		ug/Kg	U	YES						i						1		l	Ī
1,2-Dichloropropane	4.43		ug/Kg	U	YES														1	1
1,3,5-Trimethylbenzene	4,43		ug/Kg	U	YES									i	i !					1
1,3-Dichtorobenzene	4.43		ug/Kg	U	YES						(			1	1					]
1,3-Dichloropropane	4.43		ug/Kg	U	YES		-							i					1	
1,4-Dichlorobenzene	4.43		ug/Kg	U	YES											•••••				
2,2-Dichloropropane	4.43		ug/Kg	U	YES										1					1
2-Butanone	10.1		ug/Kg	J	YES	J	1			J	l i				1		1			
2-Chlorotoluene	4.43		ug/Kg	υ	YES		1								1 1		Í		}	l
2-Hexanone	11.1		ug/Kg	u	YES		1								l i					
4-Chlorofoluene	4.43		ug/Kg	U	YES	Į														
4-Isopropylloluene	4.43		ug/Kg	U	YES										]		1			1
4-Methyl-2-pentanone	11.1		ug/Kg	U	YES		Ī						}		1					1
Acetons	31.9		ug/Kg	J	YES	J		]		J		1								
Benzene	4.43		ug/Kg	υ	YES			1	1					1						1
Bromobenzene	4.43		цд/Кд	ប	YES		<u>-</u>		1	1	·				1					
Bromochioromethane	4.43		ug/Kg	u	YES			1			ļ	1						· · · · · · · · ·		i
Bromodichloromethane	4.43		ug/Kg	U	YES	1						1			1			Î		
Bromoform	4.43		ug/Kg	υ	YES	· · · · · i	1	1	1	1		1	1			1	1	1		
Bromomelhane	4.43		ug/Kg	U	YES		1	I	Ì	1	······	Ì	1		1		1			
Carbon disulfide	4.43		ug/Kg	U	YES	ŧυ		1	Ì	UJ	į	Ì	}		1	i	Î	1		
Carbon tetrachloride	4.43	1	ug/Kg	U	YES	1		1		······		i	i				····			
Chlorobenzene	4.43	·····	ug/Kg	υ	YES			ì	1				i	· · · · · · · · · · · · · · · · · · ·	·····	i	ì	1	·····i	
Chloroethane	4.43		ug/Kg	u	YES		i i	ì	i	í	···	i	i	i	i	· · · · · · · · ·	<u>-</u>	i	····i	
Chloroform	4.43		ug/Kg	U	YES	1	i.	ì	i	1	·····	1			1		······		i	
Chloromethane	4.43		ug/Kg	υ	YES :		· · · · · · · · · · · · · · · · · · ·		í.									1 1		

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 22 of 288

<sup>\*</sup> 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 : E11-128-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889002

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overail Qual*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Dilutio	on: 1														
cis-1,2-Dichloroethene	4.43		ug/Kg	U	YES				ì								ĺ			
cis-1,3-Dichtoropropene	4.43	:	ug/Kg	U	YES					1	]	(			[ [		1			1
Dibromochloromethane	4.43	,	ug/Kg	V	YES					[	[								1	I
Dibromomethane	4.43		ug/Kg	U	YES														[	
Dichlorodifluoromethane	4.43		ug/Kg	U	YES												,		[	
Ethyl Benzene	4,43	,	ug/Kg	Ų	YES									*******	1	•••••				
Hexachlorobutadiene	4.43		ug/Kg	υ	YES	,			[ ]											
Isopropylbenzene (Cumene)	4.43		ug/Kg	υ	YES															
m.p-Xylene	8.86		ug/Kg	U	YES														1	1
Methyl iodide	4.43		ug/Kg	U	YES	1														1
Methylene chloride	1.08		ug/Kg	J	YES	J				J									1	
Naphthalene	4,43		ид/Кд	U	YES		1						1						]	1
n-Bulyfbenzene	4.43		ug/Kg	U	YES	1	ı			į									1	l
n-Propylbenzene	4.43		ug/Kg	U	YES	ĺ			- 1				1		1					
o-Xylene	4.43		ug/Kg	U	YES								1							
sec-Butylbenzene	4.43		ug/Kg	U	YES		·····						I							
Styrene	4.43		ug/Kg	U	YES		·····		I			1	· · · · · · · · · · · · · · · · · · ·		1					1
tert-Butyl methyl ether (MTBE)	4.43		ug/Kg	U	YES	IJ			I	UJ	1	1	· · · · · · · · ·							
tert-Buly/benzene	4,43		ug/Kg	Ų	YES					i	I		1				}			
Tetrachloroethene	4.43		ug/Kg	U	YES		1	1	1	I		i i	1			· · · · · · · · ·				
Toluene	4.43		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		1			1				1				
trans-1,2-Dichloroethene	4.43	:	ug/Kg	U	YES	UJ				UJ	Š	1	· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	1	· · · · i			
trans-1,3-Dichloropropene	4.43		ug/Kg	U	YES		1	Ì	· · · · · · · ·		i				· · · · · · · · · · · · · · · · · · ·					
Irans-1,4-Dichloro-2-butene	22.1		ug/Kg	U	YES		1	<u>`</u>				i		i	i	· · · · · · · · · · · · · · · · · · ·				
Trichloroethene	4.43	1	ug/Kg	υ	YES			ĺ	Ì		į	ì	í. I	· · · · · · i	i.	1	ì			· · · · · · · · · · · · · · · · · · ·
Trichlorofluoromethane	4,43	:	ug/Kg	U :	YES	1	····i		1	i			i.		i.	ì	i		· · · · · · · · · · · · · · · · · · ·	

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 23 of 288

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 : E11-128-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889002

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overa:	il Temp	НT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV CCV
Analysis Method : 8260B					Dlluti	on: 1												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Vinyl chloride	4.43		ug/Kg	U	YES	1			1	1				[	[ ]					T
Analysis Method : 8270D					Diluti	on: 1	*****												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,2,4-Trichlorobenzene	324		ug/Kg	U	YES	:							1.		Īi		[			Ī
1,2-Dichlorobenzene	324		ug/Kg	υ	YES		1 1		ŀ				1		1		l		1	l
1,3-Dichlorobenzene	324		ug/Kg	υ	YES				1		į	ì	1	į	1				]	
1,4-Dichlorobenzene	324		ug/Kg	U	YES	-						i		}	]		1		1	
2,4,5-Trichlorophenol	324		ид/Кд	U	YES				1	1	}			[			l i		1	
2,4,6-Trichlorophenol	324		ug/Kg	U	YES				1						[ [					1
2,4-Dichlorophenol	324		ug/Kg	U	YES		1 1						1						1	1
2.4-Dimethylphenol	324		ug/Kg	Ų	YES		1 1			1		1	1		1		1			1
2,4-Dinitrototuene	324		ug/Kg	υ	YES		i 1										1		1	1
2,6-Dinitrotoluene	324		ug/Kg	U	YES						}		1						1	1
2-Chloronaphthalene	324		ug/Kg	U	YES										1		i i			1
2-Chlorophenol	324		ug/Kg	υ	YES		1 1					1	l				1			
2-Methylnaphthalene	324		ug/Kg	Ü	YES		1	.,					1		I					l
2-Methylphenol	324		ug/Kg	U	YES															
2-Nitroaniline	374	· · · · · · · · · · · · · · · · · · ·	n0vc0	u	YFS		i İ										· · · · · · · · ·		1	
2-Nitrophenol	324		ug/Kg	U	YES	;	1 1												1	
3 and/or 4-Methylphenol	324		ug/Kg	U	YES		1										1			
3-Nitroaniline	324		ug/Kg	u	YES		i l										}			
4-Bromophenyl phenyl ether	324		ug/Kg	U	YES		1		i	;							-		]	l
4-Chloro-3-methylphenol	324	i	ug/Kg	U	YES		1			·····	i								i	
4-Chloroaniline	324		ug/Kg	U	YES		1								i				 	1
4-Chlorophenyl phenyl ether	324		ug/Kg	υ	YES		1		 	i	i		i i		1				1	
4-Nitroaniline	324		ug/Kg	U	YES		i	 	· · · · · · · · · · · · · · · · · · ·				 				1		 	
4-Nitrophenol	324		ug/Kg	U	YES			i	i	 1	i		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·					1
Acenaphthene	324		ug/Kg	U	YES		i I	1									}			1

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 24 of 288

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: E11-128-S1 Sample Date: 07/16/2011

Lab Sample ID: 31101889002

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

									-				• • • • • • • • •							
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Quai*	Тетр	НT	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	iC	icv	CCA
Analysis Method : 8270D					Dituti	on: 1														
Acenaphthylene	324		ug/Kg	IJ	YES				l				1		1			1	1	ī
Anlhracene	324	:	ug/Kg	u	YES						1	}	1				[	}	1	1
Benzo(a)anthracene	324		ug/Kg	U	YES						1								1	Ï
Benzo(a)pyrene	324		ug/Kg	Ų	YES		1		l			İ	[	ļ					1	ĺ.
Benzo(b)fluoranthene	324		ug/Kg	U	YES					1										
Benzo(g,h,i)perylene	324		ug/Kg	U	YES		]		1		1	}	1			.,,,,,,,				
Benzo(k)fluoranthene	324		ug/Kg	U	YES					 		}								1
Bis(2-Chloroethoxy)methane	324		ug/Kg	U	YES		····				1	(		1					1	1
Bis(2-Chloroelhyl)ether	324		ug/Kg	Ų	YES	Ī				1				1	1					1
Bis(2-Chloroisopropyl)ether	324		ug/Kg	U	YES	1				1			1		1 [		l			
Bis(2-Ethylhexyl)phthalate	29.1		ug/Kg	J	YES						]	!	1							
Butyl benzyl phihalate	324		ug/Kg	υ	YES		Ī				 [									
Chrysene	324		ug/Kg	U	YES	1				1			1						i	1
Dibenz(a,h)anthracene	324		ug/Kg	U	YES						1		]				1			i
Dibenzofuran	324		ug/Kg	U	YES		1													Ī
Diethyl phthalate	324		ug/Kg	U	YES					1						1				Ī
Dimethyl phthalate	324		ug/Kg	U	YES											1				l
Di-n-butyl phthalate	324	İ	ug/Kg	U	YES	1	1				1						1	.,		1
Di-n-octyl phthalate	324		ug/Kg	υ	YES				ļ		j l					1				
Fluoranthene	324		ug/Kg	ป	YES	į	1	]							1	1				1
Fluorene	324	:	ug/Kg	U	YES	ļ		1			l i				i	1	!			
Hexachlorobenzene	324		ug/Kg	U	YES			J				j				1				1
Hexachlorobutadiene	324	}	ug/Kg	U	YES												}			1
Hexachlorocyclopenladiene	324		ug/Kg	U	YES	1		1	1							Ì				ĺ
Hexachloroethane	324	;	ug/Kg	U ;	YES		1	1	1	}	1	1			1	i				l
ndeno(1,2,3-cd)pyrene	324		ug/Kg	U	YES	I	1	ı			}	ı		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 09:53

Page 25 of 288

<sup>^</sup> 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 : E11-128-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Reviewed By / Date :

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889002

·

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Temp	ΗŦ	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	1C	iCV	CCV
Analysis Method : 8270D					Dituti	on: 1														
Isophorone	324	;	ug/Kg	Ų	YES				1			}	[						Ī	<del> </del>
Naphihalene	324		ug/Kg	U	YES					[		ì			]					
Nitrobenzene	324		ug/Kg	U	YES	:			1											1
n-Nitrosodi-n-propylamine	324		ug/Kg	U	YES														1	1
Pentachlorophenol	324		ug/Kg	U	YES	UJ	1		1	UJ	1								 	1
Phenanthrene	324		ug/Kg	U	YES		1				i	}	i		1				1	
Phenol	324		ug/Kg	υ	YES	ĺ	I				 	 								1
Pyrene	324		ug/Kg	υ	YES		i					 								1

Project Number and Name:

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

Library Used:

CampCarroll

Page 26 of 288

ADR 8.2

Report Date: 9/6/2011 09:53

\* 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

5199

Client Sample ID : E11-128-S2

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889003

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat	Rep Res	Overati Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ıc	ICV	CCA CA1
Analysis Method : 6010C					Diluti	on: 1		***************************************												
Arsenic	2.59		mg/kg		YES	J			1	l	J	J							]	
Barium	96.9		mg/kg		YES	:	1		1	 			Ì						1	: 
Cadmium	0.861		mg/kg		YES	U			U										i I	! 
Chromium	2.93		mg/kg		YES	J				l		J					i		 	1
Lead	15.9		mg/kg		YES	j					J	 	l		1	•••••	i		i	
Selenium	1.98		mg/kg	U	YES							1	i						<u>.</u>	
Silver	0.990		mg/kg	υ	YES								1						 	: 
Analysis Method : 7471B					Dilutie	on: 1							1						<i>-</i>	
Mercury	0.0185		mg/kg	U	YES				~				1		1				1	· · · · · · · · · · · · · · · · · · ·
Analysis Method : 8081					Dilutio	n: 1									7					
4,4'-DDD	10.2		ug/Kg	U	YES							[	8		[		}			
4,4'-DDD	10.2		ug/Kg	U	YES			]		i I										
4,4'-DDE	10.2	1	ug/Kg	υ	YES			1					]				1			
4,4'-DDE	10.2	1	ug/Kg	U	YES			1					i (							
4,4'-DDT	1.45		ug/Kg	JР	YES	U	1	Ī	U							· · · · · · · · · · · · · · · · · · ·			 	
4,4'-DDT	1.45		ug/Kg	JР	YES	υ			υ	1			]			 	1			
Aldrin	10.2		ug/Kg	U	YES	}	1													
Aldrin	10.2	-	ug/Kg	U	YES		1	]		1		1		·i		······	1		1	
alpha-BHC	10.2		ug/Kg	U	YES	]	1					· · · · · · · ·		i		· <u>`</u>	<del>-</del>		·······i	
alpha-BHC	10.2		ug/Kg	U	YES ;		1			······	···i	· · · · · · · · · · · · · · · · · · ·	·			·i	<del>-</del>			
alpha-Chlordane	10.2		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	I	1			·i	1				·i	·····			******
alpha-Chlordane	10.2		ид/Ко	ម	YES	· · · · · · · i	i i	1		i		······i		·····i		·	i		i	
beta-BHC	10.2		ug/Kg	U	YES			ì	·i		·····i		·····i	·i	i	·i	i	······i	····	
beta-BHC	10.2		ug/Kg	U	YES		······	·····		i	·····i	····		·i		·:	<del>-</del>	'' 	···· <u>:</u>	
Chlordane	33.9	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	<u>i</u>	······	i	<u>'</u>	i		·····i			<u>-</u> -	·¦		ئ ا	····	
Chlordane	33.9		ug/Kg	U	YES	·····i	····-i	·····i	·······i		<u>-</u>	······		·····i		······i	·	·'	!	
ielta-BHC	10.2		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	<u>-</u>			<del>-</del>							اا ا		

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 27 of 288

<sup>\*</sup> 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: E11-128-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101889003

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	НT	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ic	icv	CV/
Analysis Method : 8081					Diluti	on:1														
delta-BHC	10.2		ug/Kg	Ų	YES		I I		<u> </u>		1						1		T (	
Dieldrin	10.2		ug/Kg	U	YES						·			i					j	
Dieldrin	10,2		ug/Kg	U	YES		1		1								ì		<u></u>	
Endosulfan I	10.2		ug/Kg	υ	YES	}													į į	
Endosulfan i	10.2		ug/Kg	U	YES		į į								i		() 		i i	
Endosulfan II	10,2		ug/Kg	U	YES		1								ii	•••••	i		i i	
Endosulfan II	10.2		ug/Kg	Ų	YES	}	1				 						ii		i i	•••••
Endosulfan sulfate	10.2		ug/Kg	U	YES		i i				i				i				/ <u>-</u>	
Endosulfan sulfate	10.2		ug/Kg	U	YES										<u>.</u>			•••••	/ <u>-</u>	
Endrin	10.2	;	ug/Kg	U	YES										i i	,	i		i i	
Endrin	10.2		ug/Kg	U	YES					1		1							] [	
Endrin aldehyde	10.2		ug/Kg	U	YES							1	· · · · · · · · · · · · · · · · · · ·		i				i i	
Endrin aldehyde	10.2		ug/Kg	U	YES		1					ĺ					i		i i	• • • • • • • • • • • • • • • • • • • •
Endrin ketone	10.2		ug/Kg	U	YES		1	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	i	Ì			i				ìi	
Endrin ketone	10.2		ug/Kg	υ	YES		i	1	·····			; 		• • • • • • • • • • • • • • • • • • • •		i	i		1	
gamma-BHC (Lindane)	10.2		ug/Kg	υ	YES		Ï	Ì	 								······		i i	
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES		1	1				1					·····i			
gamma-Chlordane	10.2		ug/Kg	U	YES :	1	1	1		}									1	
gamma-Chlordane	10.2	1	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		1		1	·····i	i			··· ·····	······i		i i	
Heptachlor	10.2		ug/Kg	U	YES	!		Î		·····	i	ì				i			í i	
Heptachlor	10.2		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1	I	ì	1	ì		· · · · · · · · · · · · · · · · · · ·		i	·····		ii	
Heptachlor epoxide	10.2		ug/Kg	U	YES		1	ĺ	1			i								
∃eptachlor epoxide	10.2		ug/Kg	U	YES	1		Î	<u>`</u>		ì	i	1	i	· · · · · i		·····			
Methoxychlor	10.2		⊔9/Кд	U	YES	· · · · · · · · · · · · · · · · · · ·			·····	1	· · · · · · · · · · · · · · · · · · ·	ì		· · · · · · · · ·		<u>:</u>				
Methoxychier	10.2	· · · · · · · · · · · · · · · · · · ·	ид/Кд	U	YES		······································	····i	·····i	·····		·····i		i				· · · · · · · · · · · · · · · · · · ·		
Toxaphene	33.9		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	······ <u>·</u>	<u>-</u> -	······		······i	·····:		········	······::		· · · · · · · · · · · · · · · · · · ·		

ADR 8.2

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

Library Used:

Report Date: 9/6/2011 09:53

Page 28 of 288

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 : E11-128-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889003 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quat		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	1C	ICV	CC/
Analysis Method : 8081		//a./a/\//		/	Dilutio							<del>-</del>								
Toxaphene	33,9		ид/Кд	Ų	YES					1	1	1		}	I					Ī
Analysis Method : 8151					Dilutio	on: 1											*		********	*******
2,4,5-T	0.0169		mg/kg	V	YES				1			i	1	1					1	
2,4,5-TP (Silvex)	0.0169		mg/kg	U	YES				1		j				1				1	1
2,4'-D	0.0169		mg/kg	U	YES				1	1					1				1	1
2,4-DB	0.0169		mg/kg	Ų	YES					l	ļ						1		[	1
Dicamba	0.0169		mg/kg	U	YES	UJ					υJ	[			1					1
Analysis Method : 8260B	**				Dilutio	n: 1				,										
1,1,1,2-Tetrachioroethane	4.10		ug/Kg	U	YES										1 1				1	
1,1,1-Trichloroelhane	4.10		ug/Kg	U	YES						1									
1,1,2,2-Tetrachloroethane	4.10		ug/Kg	U	YES							i					]			l
1,1,2-Trichtoroethane	4.10		ug/Kg	U	YES												1			
1,1-Dichloroethane	4.10		ug/Kg	U	YES	UJ				UJ					1					
1,1-Dichloroethene	4.10		ug/Kg	U	YES	UJ	Ī			UJ										
1,1-Dichloropropens	4.10		ug/Kg	ប	YES :		1	1							[					1
1,2,3-Trichlorobenzene	4.10		ug/Kg	U	YES										1					1
1,2,3-Trichloropropane	4 10		ug/Kg	U	YES		1				i									1
1,2,4-Trichlorobenzene	4.10		ug/Kg	υ	YES			1							1		1			l
1,2,4-Trimethylbenzene	4.10	;	ид/Кд	U	YES :			١				1					1			1
1,2-Dibromo-3-chloropropane	24.6		ug/Kg	U	YES								1							1
1,2-Dibromoethane	4.10		ug/Kg	U	YES		1	1	I			1			1		· · · · · · · · · · · · · · · · · · ·			
1,2-Dichlorobenzene	4.10	:	ид/Кд	u :	YES		1	1	·····		!									i
1,2-Dichloroethane	4.10		ug/Kg	U	YES :			1			· · · · · · · · · · · · · · · · · · ·	1	i				1			1
1,2-Dichloropropane	4.10		ug/Kg	U	YES	1	1	Ì	1			1		j		· · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
1,3,5-Trimethylbenzene	4,10		ug/Kg	U	YES		i	· · · · · · · ·	1	i	i	1		Ī	l .					
1,3-Dichlorobenzene	4.10	·····	ug/Kg	U	YES	·····		ì	I	••••••••••••••••••••••••••••••••••••••	·····			i		· · · · · · · · · · · · · · · · · · ·	1	······i		1
1,3-Dichloropropane	4.10		ug/Kg	u ;	YES			· · · · · · · · · · · · · · · · · · ·				·····								

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 29 of 288

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: E11-128-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889003 Analysis Type: RES

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	Field QC	Tune	IC	(CV	CCV
Analysis Method : 8260B					Diluti	on: 1														
1,4-Dichlorobenzene	4.10	•	ug/Kg	U	YES					-	1			)						1
2,2-Dichloropropane	4.10	,	ид/Кд	U	YES				1			1							f	1
2-Butanone	20.5		ug/Kg	U	YES							(	1		1					1
2-Chlorotoluene	4.10		ug/Kg	Ų	YES															1
2-Hexanone	10.2		ug/Kg	Ų	YES						[			1			l		1	
4-Chlorotoluene	4.10		ug/Kg	υ	YES							1					 		1	
4-isopropylloluene	4.10		ug/Kg	U	YES							}		[						
4-Methyl-2-pentanone	10.2		ug/Kg	U	YES			.,		1		1						.,		
Acetone	41.0		ug/Kg	U	YES	IJ				UJ		}	1				[		[	1
Benzene	4.10		ид/Кд	U	YES					I					i					l
Bromobenzene	4.10		ug/Kg	U	YES		1						!							l
Bromochloromethane	4.10		ug/Kg	U	YES			I				į								[
Bromodichloromethane	4.10		ug/Kg	υ	YES								]							Ī
Bromoform	4.10		ug/Kg	U	YES		1			1	}									Ī
Bromomelhane	4.10		ug/Kg	U	YES						ļ									
Carbon disulfide	4 10		นg/Kg	U	YES	IJ	1			U.I					}					
Carbon tetrachloride	4,10		ug/Kg	U	YEE										}					i
Chlorobenzene	4.10		ug/Kg	U	YES		1	1												1
Chloroethane	4.10		ug/Kg	U	YES			1			í									1
Chloroform	4.10		ug/Kg	υ	YES			1				 								
Chloromethane	4.10		ug/Kg	U	YES	1		1							1					ŀ
sis-1,2-Dichloroethene	4.10		ug/Kg	U	YES		1													
sis-1,3-Dichloropropene	4.10	1	ug/Kg	U	YES		1	1									1			1
Dibromochloromethane	4,10		ug/Kg	U	YES				i		i i					,.,.	,.,			1
Dibromomethane	4.10		ug/Kg	ម	YES	1		ĺ	1								· · · · · · · · · · · · · · · · · · ·			1
Dichlorodifluoromethane	4.10	····	ug/Kg	U	YES:	1					 I		1	i		·· ·· i				

Project Number and Name:

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

Library Used:

ADR 8.2

Report Date: 9/6/2011 09:53 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 30 of 288

Client Sample ID: E11-128-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889003

Reviewed By / Date :

#### Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Quat*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 8260B					Dilutio	on: 1														
Elhyl Benzene	4.10		ug/Kg	U	YES				ì	1									1	1
Hexachlorobuladiene	4,10		ид∕Кд	U	YES				1											l
Isopropylbenzene (Cumene)	4.10		ug/Kg	υ	YES		1		l	†		1			1				1	
m,p-Xylene	8.20		ug/Kg	U	YES	ļ			1			1								
Methyl iodide	4.10		ug/Kg	U	YES					l	}			!						
Methylene chloride	1.42		ug/Kg	J	YES	J	1		1	J	}									1
Naphthalene	4.10		ид/Кд	U	YES					l		l .			į					1
n-Butylbenzene	4.10		ug/Kg	U	YES						l				ĺ	.				1
n-Propylbenzene	4,10		ug/Kg	ប	YES		1		1	l	İ									1
o-Xylene	4.10		ug/Kg	U	YES							1					]			
sec-Butylbenzene	4.10		ug/Kg	U	YES						}						į			
Styrene	4.10	į	ug/Kg	υ	YES				[						1			.,,	[	
tert-Butyl methyl elher (MTBE)	4.10		ug/Kg	U	YES	UJ	1			UJ										
tert-Butylbenzene	4.10	į	ид/Кд	U	YES	1			1								1			
Tetrachloroethene	4.10	į	ug/Kg	υ	YES								ļ				ļ			
Toluene	4 10		ug/Kg	บ	YES								J			- 1				
trans-1,2-Dichleroothene	4.10		ug/Kg	U	YES	UJ				UJ			1			ı				
trans-1,3-Dichloropropene	4.10		ug/Kg	Ų	YES	1			1				1			١				
trans-1,4-Dichloro-2-butene	20.5	;	ug/Kg	υ	YES	1	١										1			J
Trichloroethene	4.10	1	ug/Kg	U	YES		l									ĺ	1			
Trichlorofluoromethane	4.10		ug/Kg	U	YES		1						]			- 1	í			
Vinyl chloride	4.10	Ì	ug/Kg	U	YES							l								
Analysis Method : 8270D					Dilutio	n: 1							~~~~~							
1,2,4-Trichlorobenzene	347	;	ug/Kg	υ	YES	- 1	- 1													
1,2-Dichlorobenzene	347	)	ug/Kg	U	YES		- 1			1										
1,3-Dichtorobenzene	347	1	ug/Kg	U	YES :				ı	j										
1,4-Dichlorobenzene	347	ì	ид/Кд	U	YES		1	1				1	1	Ī	1	1	1			

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 31 of 288

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

Client Sample ID: E11-128-S2

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889003

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	HT	MB	LCS	MS	Lab Đượ	Surr	Rep Limit	Moist Tot/Dis		Tune	iC	ICV	CV/ CCV
Analysis Method : 8270D					Dilutio	on: 1														
2,4,5-Trichlorophenol	347	;	ug/Kg	υ	YES				1	1				1	1		1 7		1	
2,4,6-Trichlorophenol	347		ug/Kg	U	YES								: [	: 	1		i		: 	1
2,4-Dichlorophenol	347		ug/Kg	U	YES	}	i		]					 	i		i i	***	: 	! !
2,4-Dimethylphenol	347		ug/Kg	U	YES		i		1								1		/ 	: 
2,4-Dinitrololuene	347		ug/Kg	Ų	YES		I								]	*			/ 	i
2,6-Dinitrotoluene	347		ug/Kg	U	YES	1									i		ii		 	: 
2-Chloronaphthalene	347		ug/Kg	U	YES		1								l i				:	: 
2-Chiorophenol	347		ug/Kg	U	YES	i	i		I I		· · · · · · · · · · · · · · · · · · ·				 		]		/ 	! [
2-Methylnaphthalene	347		ug/Kg	U	YES										1	••	i			: 
2-Methylphenol	347		ug/Kg	U	YES	1	·								ii		i		! <i></i>	1
2-Nitroaniline	347		ug/Kg	U	YES						1				l i					i
2-Nitrophenol	347		ug/Kg	υ	YES					]									 	: 
3 and/or 4-Methylphenol	347		ug/Kg	U	YES	(	1	1									1			
3-Nitroaniline	347		ug/Kg	υ	YES								1							
4-Bromophenyl phenyl elher	347		ug/Kg	U	YES		1	1	1	· · · · · · · · · · · · · · · · · · ·			i				i			
4-Chloro-3-methylphenol	347		ug/Kg	U	YES :		I	ĺ			1	i	1			· · · · · · · · · · · · · · · · · · ·	1	i		
4-Chloroaniline	347		ug/Kg	U	YES		1		1		-	Ì	1		1					
4-Chlorophenyl phenyl ether	347		ug/Kg	U ;	YES	1	Ī	1	1			1	}		· · · · · · · · · · · · · · · · · · ·		i	······		
4-Nitroaniline	347	:	ug/Kg	U	YES		1	1			1	1		· · · · · · · · · · · · · · · · · · ·			<u>.</u>		· · · · · · · · · · · · · · · · · · ·	
1-Nitrophenol	347		ug/Kg	U	YES			1	1	Î				i		· · · · · · · · · · · · · · · · · · ·	1	· · · · · · · · · · · · · · · · · · ·	·····i	
Acenaphlhene	347	;	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		1			ì		· · · · · · · · · · · · · · · · · · ·				í	 1	
Acenaphthylene	347		ug/Kg	U	YES		I	1	1		····	1	i			· · · · · · · · · · · · · · · · · · ·	ì	1	1	
Anthracene	347		ug/Kg	U	YES		·····	Ì	1	1		·····i	i		······· i.	· · · · · i	·····	i		i
Benzo(a)anthracene	347		ug/Kg	U	YES		Ì	1	Î	1	1	: 1	i			i	···	ا ا	··!	
Benzo(a)pyrene	347		ug/Kg	U	YES		i	ì	1	1	·····	ì	· · · · · · · · · · · · · · · · · · ·	·····i	i.	·····i	i	1	·····i	
Benzo(b)fluoranthene	347		ug/Kg	V	YES	1	·······	i	·····						i-			! I		· · · · · · · · · · · · · · · · · · ·

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 32 of 288

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 : E11-128-S2 Sample Date : 07/16/2011

Reviewed By / Date :

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW Sample Matrix : SO

Lab Sample ID: 31101889003

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	CCV
Analysis Method : 8270D				******	Diluti	on: 1														
Senzo(g,h,i)perylene	347		ug/Kg	Ų	YES					1					i i		1		1	1
Benzo(k)fluoranthene	347		ug/Kg	U	YES				1	 	<u> </u>	:			ii		·		/ 	: [
Bis(2-Chloroethoxy)methane	347		ug/Kg	U	YES				1						i I i		! 			i
Bis(2-Chioroelhyl)elher	347		ug/Kg	U	YES		1		1						i					! 
Bis(2-Chloroisopropyl)ether	347		ug/Kg	U	YES		1				}				ii	•••••	i		 	:- <i></i> I
Bis(2-Ethylhexyl)phthalale	347		ug/Kg	U	YES				1						i		[		' <i>-</i>	; 
Butyl benzyl phihalate	347		ug/Kg	U	YES						i i				i		ii		'	! 
Chrysene	347		ug/Kg	υ	YES						i i				ii		!! 			: 
Dibenz(a,h)anthracene	347		ug/Kg	U	YES										i					<u>:</u> }
Dibenzofuran	347		ug/Kg	U	YES						i									: 
Diethyl phthalate	347		ug/Kg	υ	YES		1				· · · · · · · · · · · · · · · · · · ·		·							<u>:</u>
Dimethyl phthalate	347		ug/Kg	U	YES						·	i		******	 					! 
Di-n-butyl phthalate	347		ug/Kg	U	YES		]		1		······	······								: 
Di-n-octyl phthalate	347		ug/Kg	U	YES	]	1		1		i	i				·····i				
Fluoranthene	347		ug/Kg	U	YES			1			i	······				:١	·····			
Fluorene	347	:	ug/Kg	U	YES				· · · · · · · · ·	1		·····		·····i		······i	········	···	<del>:</del>	
Hexachlorobenzene	347	:	ио/Ко	U	YES		i	Ì				1			·····i	: 1	······	· · · · · · · · · · · · · · · · · · ·	· · · · · · i	
Hexachlorobuladiene	347		ug/Kg	U	YES		Ì	Ì		·····		······	1			ì	·····	i	·····i	
Hexachlorocyclopentadiene	347		ug/Kg	U	YES		i.	1	· · · · · · · · · · · · · · · · · · ·			······i	······································	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				
Hexachloroethane	347		ug/Kg	U	YES		1		Ī		i	ì	······i		i	:i		······'i	·····i	······
ndeno(1,2,3-cd)pyrene	347		ug/Kg	U	YES		i	Ì	i	1		ì		· · · · · · · · · · · · · · · · · · ·		···········	·····	············	······i	·······i
sophorone	347		ug/Kg	U	YES		1	1	ì	i i		······i			·i-	1	ï	·····'		······
Vaphthalene	347	1	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·····	······	1		·····i	1	· · · · · · · · · · · · · · · · · · ·			·····i		· · · · · · · · · · · · · · · · · · ·	····	1
Vitrobenzene	347	1	ug/Kg	υ	YES :			<u>:</u>	······	í		······i			<del> </del>	······:		<u>'</u>	i	
1-Nitrosodi-n-propylamine	347	1	ug/Kg	U	YES	· · ·	·······.	·····i	·····:			······:		! I		1		! 1	!	
Pentachlorophenol	347		ug/Kg	U	YES	UJ	····i	· · · · · · · · · · · · · · · · · · ·	·····	UJ {		· · · · · · · · · · · · · · · · · · ·		!	!.	·····i		! !	! !	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 33 of 288

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: E11-128-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889003

Reviewed By / Date :

#### Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	тн	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV CCV
Analysis Method : 8270D					Dilutio	on: 1														
Phenanthrene	347		ug/Kg	U	YES	:		1									1 1		1	
Phenol	347		ug/Kg	บ	YES			<u> </u>									1 :			
Pyrene	347		ug/Kg	U	YES			1	l										1	1

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 34 of 288

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: E11-134-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889033

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Łab Qual		Overali Qual*		НT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	fCV	CC/
Analysis Method : 6010C					Dilutio	n: 1														
Arsenic	4.53		mg/kg		YES		i i	1		i	1						I		1	
Barium	80.6		mg/kg		YES		1	l	1					i					1	1
Cadmium	1.38		mg/kg		YES	U	}		U							*	[		1	
Chromium	4.88		mg/kg		YES										1					
Lead	19.7		mg/kg		YES						1			1	l í					l
Selenium	0.556		mg/kg	J	YES									{					l	1
Silver	0.958		mg/kg	U	YES								i		i i				1	
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.0147		mg/kg	J	YES				l						1				l	1
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	9.95		ug/Kg	U	YES		I			l							1			
4,4'-DDD	9.95		ug/Kg	U	YES	,,,,,,,,,,									ĺ				1	1
4,4'-DDE	0.707		ug/Kg	JP	YES										}					
4,4'-DDE	0.707	;	ид/Кд	JР	YES						1						1			1
4,4'-DDT	4.04	ĺ	ug/Kg	J .	YES	กา			U		J									1
4,4\DDT	4.04		ug/Kg	J	YES	ยม			ย		J	1								
Aldrin	9,95		ug/Kg	U ;	YES		1					1			]	i				}
Aldrin	9.95	;	ug/Kg	V	YES		1					1							1	
alpha-BHC	9.95		ug/Kg	U	YES	}		]							1	j	}			
alpha-BHC	9.95		ug/Kg	U ;	YES		1			i		1								
alpha-Chlordane	9,95	:	ug/Kg	u	YES			ĺ			{	ı			1					•••••
alpha-Chlordane	9.95	;	ug/Kg	U	YES	-	1		1	}							1			
bela-BHC	9.95	;	ug/Kg	U	YES :		1	]		(						i				******
bela-BHC	9.95		ug/Kg	U	YES			· · · · · · · ·	1			1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1	······			***
Chlordane	33.1		ug/Kg	U	YES			1	1			Î				1	i			
Chlordane	33.1		ug/Kg	U	YES		·····	i	1		······	· · · · · · · · · · · · · · · · · · ·	i	· · · · · · · · ·	i	]	ì			
delta-BHC	9.95		ug/Kg	U	YES		1		l	]		1	l	1	1	1	1			

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 35 of 288

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

Client Sample ID: E11-134-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889033

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method ; 8081					Dilutio	on: 1														
delta-BHC	9.95		ug/Kg	U	YES	- 1			1		į		1							
Dieldrin	9.95		ug/Kg	U	YES	į					]		ĺ		1					
Dieldrin	9,95		ug/Kg	υ	YES					1	}	,							1	
Endosulfan i	9.95		ug/Kg	U	YES					1										
Endosulían I	9.95		ug/Kg	U	YES	1			1						1				1	
Endosulfan II	9.95		ug/Kg	υ	YES	!									1 1					
Endosulfan II	9.95		ug/Kg	U	YES	}	]				i				1					
Endosulfan sulfate	9.95		ug/Kg	U	YES						]									
Endosulfan sulfate	9.95		ug/Kg	U	YES						{									
Endrin	9.95		ug/Kg	U	YES														l	
Endrin	9,95		ug/Kg	υ	YES	1														
Endrin aldehyde	9.95		ug/Kg	U	YES										1				1	
Endrin aldehyde	9.95	;	ug/Kg	U	YES	1	1										i		1	
Endrin ketone	9.95		ug/Kg	U	YES	1											ļ			
Endrin ketone	9.95	:	ид/Кд	Ų	YES												Ì			
gamma-BHC (Lindane)	9.95	ĺ	ug/Kg	U	YES										1		Ì			
gemma BHC (Lindano)	0.96	1	ug/Kg	U	YES		1										i			
gamma-Chlordane	9.95	-	ug/Kg	υ	YES	!	1			i										
gamma-Chlordane	9.95		ug/Kg	U	YES	1	1		1	ļ						i	ļ			
Heptachlor	9.95		ug/Kg	U	YES	1	-		1	ì	1	1	1	j			Ì			
Heptachlor	9.95		ug/Kg	U	YES		1						1				į			
Heptachlor epoxide	9.95		ug/Kg	υ	YES	1	I	1					;		1					
Heptachlor epoxide	9.95		ug/Kg	U	YES	)	1	١					i			1				ĺ
Methoxychlor	9.95		ug/Kg	U	YES :		1			,,,,,,,	1	1				1	1			
Methoxychlor	9.95		ug/Kg	υ	YES	1	1		1	1		· · · · · ·		ı		ı	1			1
Toxaphene	33.1	;	ид/Кд	U	YES	1	1	1	1		i	1	1			1	1			

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 36 of 288

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

Client Sample ID : E11-134-S1

Lab Report Batch: 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889033

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overa Qual	II Temp	HΤ	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ıc	icv	CCV
Analysis Method : 8081					Diluti	on: 1														
Toxaphene	33.1	:	ug/Kg	U	YES		1	i	Ī	<u> </u>	 	!	1		1 1				<del></del>	
Analysis Method : 8151					Dilutio	on: 1			,		·						1		2	!
2,4,5-1	0.0166		mg/kg	U	YES					1			<u> </u>	ļ	1				T	
2,4,5-TP (Silvex)	0.0166		mg/kg	υ	YES									1	i i		l 1		1	1
2,4'-D	0.0166		mg/kg	Ü	YES				[				1				i		1	i
2,4-DB	0.0166		mg/kg	U	YES		i i			1					ì				i	i
Dicamba	0.0166		mg/kg	υ	YES					1									î	1
Analysis Method : 8260B				,,,,,,,,,,	Dilutio	วก: 1			* * * * * * * * * * * * * * * * * * * *				1		·					
1,1,1,2-Tetrachloroethane	4.49		ug/Kg	U	YES	UJ	[ ]						UJ				ĺ		Ī	1
1,1,1-Trichloroelhane	4.49		ug/Kg	U	YES	UJ							IJ			<i>-</i> :				i 
1,1,2,2-Tetrachloroethane	4.49		ug/Kg	υ	YES	กา	! <b>!</b>						UJ			i			i	i
1,1,2-Trichloroethane	4.49		ug/Kg	U	YES	UJ	1 1				1		UJ		1	 	i		) 	! 
1,1-Dichtoroethane	4,49		ug/Kg	U	YES :	IJ	1 1			}			(J)		[	1			1	: 1
1,1-Dichloroethene	4 49		ug/Kg	U	YES	UJ	!				·······		UJ	i		·····ì	1		1	i
1,1-Dichloropropene	4.49		ug/Kg	U	YES	UJ	1	]		]			UJ	·······		:i			:: 	! 
1,2,3-Trichforobenzene	4.49		ug/Kg	U	YES :	UJ	1 1	ĺ		1			UJ						1	
1,2,3-Trichloropropane	4.49		ug/Kg	U	YES	IJ	1				1		UJ	·····i	i	· · · · · · · · · · · · · · · · · · ·			1	i
1,2,4-Trichlorobenzene	4.49	1	ug/Kg	U	YES	UJ			· · · · · · · · · · · · · · · · · · ·				UJ	<u>'</u>	i	i			<u>.</u>	 I
1,2,4-Trimethylbenzene	4.49	į	ид/Кд	ប	YES	บป	i i	1	ا				UJ {	· · · · · i		·······i				····
1,2-Dibromo-3-chloropropane	26.9		ug/Kg	U	YES	IJ		 	·i	······		·i	UJ	···-i		·i	. <i>-</i>		i	
1,2-Dibromoethane	4.49		ug/Kg	U	YES	LU	i İ	·············	1	······		i	UJ	··i		·····	••••••		·i	
1,2-Dichlorobenzene	4.49		ug/Kg	U :	YES	υJ	1	1	i	······	···	·····i	UJ 1	······i			i		i	
1,2-Dichloroethane	4.49		ug/Kg	U	YES	ย์	i	·`	· · · · · · ·	·····························		<u>'</u>	UJ	·······!				······		•
1,2-Dichloropropane	4.49		ug/Kg	υ	YES	UJ	í		·····i	·····i		i	UJ	···	·i-		•		·!	
1,3,5-Trimethylbenzene	4.49		ug/Kg	U	YES	UJ	i i	1			i	···i	UJ					!	!	
1,3-Dichlorobenzene	4.49	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	θJ				<u>}-</u>				·i		<u>-</u>		اا	!	
1,3-Dichloropropane	4,49	·	ug/Kg		YES	UJ		******		·			UJ	!						••••••

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 37 of 288

<sup>\*</sup> 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: E11-134-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889033

Reviewed By / Date :

# Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Тетр	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ıc	ICV	CCA CA1
Analysis Method : 8260B					Dilutio	on: 1				,	************		***************************************	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
1,4-Dichlorobenzene	4,49	;	ug/Kg	Ų	YES	IJ			1	1			ŲJ							1
2,2-Dichforopropane	4.49		ug/Kg	U	YES	UJ					}		ŲJ							1
2-Bulanone	22.4		ug/Kg	U	YES	UJ	1		1		}	ĺ	ยม						1	
2-Chlorotoluene	4.49		ug/Kg	U	YES	UJ							ບນ		l					
2-Hexanone	11.2		ug/Kg	U	YES	IJ	1					1	UJ							1
4-Chlorotoluene	4.49		ug/Kg	U	YES	UJ				l		]	UJ		1				ļ	
4-Isopropyltoluene	4.49		ug/Kg	υ	YES	UJ				Ì	1	ĺ	UJ							
4-Methyl-2-pentanone	11.2		ug/Kg	U	YES	IJ					1		υJ				- 1			1
Acetone	26.8		ug/Kg	J	YES	J			(				J		ĺ					l
Benzene	4.49		ug/Kg	U	YES	UJ	J					ĺ	UJ				į			
Bromobenzene	4.49		ug/Kg	U	YES	UJ							UJ				Ì		1	
Bromochloromethane	4.49		ug/Kg	U	YES	LU	1	-					UJ		1					
Bromodichloromethane	4.49	)	ug/Kg	U	YES	ΠJ				ĺ			UJ				į			1
Bromoform	4.49		ug/Kg	U	YES	UJ							UJ				1			
Bromomethane	4.49		ug/Kg	υ	YES	UJ							UJ		ĺ					
Carbon disulfide	4,49		ug/Kg	υ	YES	UJ	1	1		)			UJ							1
Carbon letrachloride	4,49		ug/Kg	บ	YES	UJ		1				l	UJ							
Chlorobenzene	4.49		ug/Kg	U	YES	UJ	1	1				l	UJ				ļ			
Chloroethane	4.49	į	ug/Kg	U	YES	UJ		1	ĺ	j	ł		UJ				1			í
Chloroform	4.49		ug/Kg	U	YES	UJ		1		J			UJ			I				i
Chloromelhane	4.49		ug/Kg	U	YES	UJ	1	1				1	UJ	ļ		l				
cis-1,2-Dichloroethene	4.49	;	ug/Kg	U	YES	UJ	I	I	1			1	UJ		1				l	
cls-1,3-Dichloropropene	4.49		ug/Kg	U	YES	UJ	1						บม							
Dibromochloromethane	4.49		ug/Kg	U	YES	บง	1		1				υJ	I			}			
Dibromomethane	4.49	į	ug/Kg	υ	YES	UJ	1	1	1	i	i		UJ			I		1	.	
Dichlorodifluoromethane	4.49		ug/Kg	U	YES	UJ	1	1		- Tour	f	1	UJ			1		1	1	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 38 of 288

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 :E11-134-S1 Sample Date : 07/16/2011 Lab Report Batch : 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101889033

Reviewed By / Date :

Approved By / Date :

Analyte Name		Uncertainty /		Lab		Overall						Lab		Rep	Moist					CV/
	Result	Error	Units	Qual		Qual*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	IC .	icv	ccv
Analysis Method : 8260B					Dilutio									./						
Ethyl Benzene	4.49		ug/Kg		YES	רח			<u> </u>	l	l	l	UJ	l	<u> </u>		l		[	
Hexachlorobuladiene	4.49		ug/Kg	U	YES	UJ	]		ļ	ļ			UJ	l						
Isopropylbenzene (Cumene)	4.49		ug/Kg	υ	YES	UJ	1						UJ	1			1			1
m,p-Xylene	8.97		ug/Kg	U	YES	IJ							UJ	ì			i i			
Methyl iodide	4.49		ug/Kg	υ	YES	បរ							UJ		]	1				
Methylene chloride	2.54		ug/Kg	J	YES	J							J		1		1			: 
Naphthalene	4.49		ug/Kg	U	YES	IJ	1	,					ยม							<u>:</u> I
n-Butylbenzene	4.49	;	ug/Kg	U	YES	UJ	1						UJ		1		·······		<b></b>	<u>:</u> [
n-Propylbenzene	4.49	j	ug/Kg	U	YES	UJ	1			·		······	UJ							! 
o-Xylene	4.49		ug/Kg	U	YES	เม	1			:	٠٠٠٠٠٠٠		ชม			: ا	· · · · · · · · · · · · · · · · · · ·	، ا	٠	! 
sec-Butylbenzene	4.49		ug/Kg	υ	YES	UJ	·····i		را ا	·1			UJ		!		<del></del>	ئىئ ا		!
Styrene	4.49		ug/Kg	U	YES	IJ	i,				········ 	: 	UJ			! 		!		! !
tert-Butyl methyl ether (MTBE)	4.49		ug/Kg	บ	YES	UJ	i		·····'			<del>'</del> i	UJ					لا	·····!	! 
tert-Butylbenzene	4.49		ug/Kg	IJ	YES	υJ	!. 	<u>.</u>			<u>:</u>	¦	UJ 1	<u>:</u>		······!		ر ا	!	:'
Tetrachloroethene	4.49	]	ug/Kg	υ	YES	ŲĴ	····					:	UJ					المستحدد	!	
Toluene	4.49		ug/Kg	U	YES :	UJ	i	······			·······		UJ	! !				!		
trans-1,2-Dichloroethene	4.49		ug/Kg	U	YES :	UJ	· · · · · · · · · · · · · · · · · · ·	i	······	···		·····i	UJ		· · · · · · · · · · · · · · · · · · ·					
trans-1,3-Dichtoropropene	4.49	1	ид/Кд	U	YES	UJ	····i		·····			:	UJ (			1				
trans-1,4-Dichloro-2-butene	22.4	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES:	UJ	·····i	·····	······			· · · · · · · · · · · · · · · · · · ·	UJ	· · · · · · · · · · · · · · · · · · ·		1			1,	!
Trichloroethene	4.49	······	ug/Kg	U	YES	UJ							UJ !				·····	<u>.</u>		
Trichlorofluoromethane	4.49	······	ug/Kg	U	YES	UJ		<del>'</del>	:				UJ i	!			····		!	
Vinyl chloride	4,49		ug/Kg	υ	YES :	ยม	·- ·····!						UJ	!						
Analysis Method : 82700	i1.				Ollutio		!.		!.					!		!.	<u>.</u> .		!	!
1,2,4-Trichlorobenzene	332	:	ug/Kg		YES:	1			· · · · · · · · · · · · · · · · · · ·	······································			·//				1			
1,2-Dichlorobenzene	332		ug/Kg		YES			···				!.				¦.				
1,3-Dichlorobenzene	332		ug/Kg	· · · · · · · · · · · · · · · · · · ·	YES			·		ļ.					· <del>-</del>					
1,4-Dichlorobenzene	332		ug/Kg		YES				<u>-</u>	·										

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 39 of 288

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: E11-134-S1

Lab Sample ID: 31101889033

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	MB	LCS	MS	Lab Đup	Surr		Moist Tot/Dis		Tune	IÇ	ICA	CCV
Analysis Method : 8270D					Diluti	on: 1					*******									
2,4,5-Trichlorophenol	332	;	ug/Kg	U	YES					1	[	İ	l				i I		1	
2,4,6-Trichlorophenol	332		ug/Kg	U	YES					 			1						]	
2,4-Dichlorophenol	332		ug/Kg	U	YES				1	 					l i		i i		[	1
2,4-Dimethylphenol	332		ug/Kg	υ	YES	1			1		1	]								
2,4-Dinitrotoluene	332		ug/Kg	U	YES				l		]		1						1	
2,6-Dinitrotoluene	332		ug/Kg	U	YES							[	 							
2-Chioronaphthalene	332		ug/Kg	U	YES								 						l	[
2-Chlorophenol	332		ug/Kg	υ	YES					1										
2-Methylnaphthalene	332		ug/Kg	U	YES	1			1											
2-Melhylphenol	332		ug/Kg	U	YES	[			ĺ	1					i i		[		1	
2-Nitroaniline	332		ug/Kg	V	YES					]	}	}								1
2-Nitrophenol	332		ug/Kg	U	YES	ĺ						 			1					[
3 and/or 4-Melhylphenol	332		ug/Kg	U	YES				1								ì			
3-Nitroaniline	332		ug/Kg	Ų	YES															
4-Bromophenyl phenyl ether	332	******************	ug/Kg	U	YES										]					[
4-Chloro-3-methylphenol	332		ug/Kg	υ	YES				i											
4-Chloroaniline	332		ug/Kg	ម	YES		· · · · · · · · · · · · · · · · · · ·										1			
4-Chiorophenyl phenyl ether	332		ug/Kg	U	YES	1	1								[		1			
4-Nitroaniline	332		ug/Kg	U	YES								i				1			1
4-Nitrophenol	332		ug/Kg	U	YES															
Acenaphthene	332		ид/Кд	U	YES	1											1			
Acenaphthylene	332		ug/Kg	U	YES	1	1						]	1	]		I			· · · · · · · · · · · · · · · · · · ·
Anthracene	332		ug/Kg	Ų	YES	1	1	i	i i			i					1			
Benzo(a)anthracene	332		ug/Kg	U	YES							1		i						
Benzo(a)pyrene	332		ug/Kg	υ	YES				· · · · · ·			1		· · · · · · · · · · · · · · · · · · ·		i	ì			
Benzo(b)fluoranthene	332	************	ug/Kg	U :	YES:							i		i	1		1			

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

Library Used: CampCarroll

Page 40 of 288

<sup>\*</sup> 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 : E11-134-S1 Sample Date : 07/16/2011 Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101889033

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overal Quai*	l Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	(C	(CV	CCV
Analysis Method : 8270D					Difuti	on: 1				**********										
Benzo(g,h,i)perylene	332		ug/Kg	U	YES		[		1		ì						1			
Benzo(k)fluoranthene	332		ug/Kg	U	YES	;			1	1					1					1
Bis(2-Chloroethoxy)methane	332		ug/Kg	U	YES	:	1												1	
Bis(2-Chloroethyl)ether	332		ug/Kg	U	YES	:			1										1	
Bis(2-Chloroisopropyl)elher	332		ид/Кд	υ	YES		İ		1											1
Bis(2-Ethylhexyl)phthalate	332		ug/Kg	U	YES		ĺ													
Butyl benzyl phthalate	332		ug/Kg	U	YES															
Chrysene	332		ug/Kg	U	YES															i
Dibenz(a h)anthracene	332		ug/Kg	U	YES									:						
Dibenzofuran	332		ug/Kg	U	YES		{													1
Diethyl phthalate	332		ug/Kg	U	YES		1													1
Dimethyl phthalate	332		ug/Kg	U	YES						1		}		]		j			
Di-n-butyl phthalate	332		ид/Кд	Ų	YES						İ				1	I	1			
Di-n-octyl phthalate	332		ug/Kg	U	YES		1					1					I			1
Fluoranthene	332		ug/Kg	U	YES								}	1	-	1	1			
Fluorene	332		ug/Kg	U	YES									1	1	1	-			1
Hexachlorobenzene	332		ug/Kg	υ	YES		j		1			1	· · · · · · · · · · · · · · · · · · ·			ı				
Hexachlorobutadiene	332		ug/Kg	υ	YES				1			1	1							i
Hexachlorocyclopentadiene	332		ug/Kg	U	YES								1	1		1	1			· · · · · · · · ·
Hexachloroethane	332		ug/Kg	U ;	YES		1		1		· · · · · · · · · · · · · · · · · · ·		i	1	i	1			1	
Indeno(1,2,3-cd)pyrene	332		ug/Kg	U	YES		1	1	ı			1				I	·····		1	
sophorone	332		⊔g/Кд	U	YES			١		1		1	1	· · · · · · · · · · · · · · · · · · ·			i			
Naphlhalene	332	}	ug/Kg	U	YES				1				1	1	1	1	ļ	1		
Nitrobenzene	332		ug/Kg	v	YES			1	1			· · · · · · · · · · · · · · · · · · ·	1	i	i	Ì	1	 	i	
n-Nitrosodi-n-propylamine	332	ì	ug/Kg	υ	YES			1	Ì		;	1		1		ĺ	Î			
Pentachlorophenol	332	;	ug/Kg	U	YES	UJ	1	1	Ī	UJ		1		1		1	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 09:53

Page 41 of 288

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 : E11-134-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889033

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 Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CCA CA1
Analysis Method : 8270D					Diluti	on: 1														
Phenanthrene	332		ug/Kg	Ų	YES					1	}	1					1 1		1	[]
Phenol	332		ug/Kg	υ	YES					l							1		1	
Pyrene	332		ug/Kg	U	YES	[				I					1				1	1

Project Number and Name:

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

Library Used: Ca

Report Date: 9/6/2011 09:53

CampCarroll

Page 42 of 288

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

5/45

Client Sample ID : E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889034 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Sum		Moist Tot/Dis		Tune	ıc	(CV	CV/ CCV
Analysis Method : 6010C			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Dilutio	n: 1														
Arsenic	4.08	:	mg/kg		YES		i i		1		1			į			1			ī
Barium	66,4		mg/kg		YES									İ	[ ]					1
Cadmium	0.814		mg/kg		YES	U			U	1										
Chromium	4.06		mg/kg		YES					1										l
Lead	27.2		mg/kg		YES									}						
Selenium	2.00		mg/kg	U	YES								]	Ì						
Silver	1.00		mg/kg	U	YES														[	
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.00688		mg/kg	J	YES		1								i		1			l
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	10.2		ug/Kg	U	YES															
4,4'-DDD	10.2		ug/Kg	U	YES						ı				}					
4,4'-DDE	0.780		ug/Kg	JΡ	YES						ļ									1
4,4'-DDE	0.780	į į	ug/Kg	JP	YES							1								i
4,4'-DD¥	6.01		ug/Kg	J	YES	3							j		ĺ					1
4,4'-DDT	6.01		ug/Kg	J	YES			1									1	1		1
Aldrin	10.2		ug/Kg	U	YES		1	1			1						1	1		
Aldrin	10.2		ug/Kg	U	YES			1		1	,							· · · · · · · · · · · · · · · · · · ·		1
alpha-BHC	10.2		ug/Kg	U	YES		1	]				1							Ī	
alpha-BHC	10.2		ug/Kg	ប	YES		1	1	1				Ī	1				]	1	
alpha-Chlordane	10.2	;	ug/Kg	U	YES			1	1	i			1		1		1	1		
alpha-Chlordane	10.2	;	ug/Kg	V	YES				1			1	1				1	1		
beta-BHC	10.2		ug/Kg	U	YES	1	1	1	1	}	}	1	1	ĺ		1	(			
beta-BHC	10.2		ug/Kg	U	YES		1			····		1			-	1				
Chlordane	34.0		ug/Kg	U	YES	i	1	ì	1			1		ļ	1	1			i	
Chlordane	34.0	;	ug/Kg	V	YES	·i		Ī			1						1	·····	i	
delta-BHC	10.2		ug/Kg	U	YES		·····i				1	·····	1	i		i	1	1	···i	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 43 of 288

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 : E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889034 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

		Uncertainty /	Result	Lab	Rep	Overall	***********					Lab		Rep	Moist	Field	********			CV/
Analyte Name	Result	Error	Units	Quat	Res	Qual*	Temp	HΥ	MB	LCS	MS	Dup	Surr		TotDis		Tune	IC	ICV	CCV
Analysis Method : 8081					Dilutio	on: 1				~11~********								-,-,,,,,-		**************************************
delta-BHC	10.2		ug/Kg	U	YES		<u>.</u>							1					1	
Dieldrin	10.2		ug/Kg	U	YES		<u> </u>										1			1
Dieldrin	10.2		ug/Kg	U	YES		1 1												1	1
Endosulfan I	10.2		ug/Kg	U	YES		1 1												1	
Endosullan I	10.2		ug/Kg	υ	YES		l													
Endosulfan II	10.2		ug/Kg	U	YES					}							1			1
Endosulfan II	10.2		ug/Kg	U	YES															1
Endosulfan sulfate	10.2		ug/Kg	U	YES						)									İ.
Endosulfan sulfate	10.2		ug/Kg	υ	YES					!	{				!		<u> </u>		l	<u> </u>
Endrin	10.2		ug/Kg	υ	YES						l								l	
Endrin	10.2	<u> </u>	ug/Kg	U	YES							1					<u> </u>			1
Endrin aldehyde	10.2		ug/Kg	U	YES				J								1			
Endrin aldehyde	10.2		ug/Kg	υ	YES		]	ļ							1					
Endrin kelone	10.2	;	ug/Kg	U	YES					J	ĺ	1	j		Ì					1
Endrin kelone	10.2		ug/Kg	U	YES			1		!	1	- 1		l		-				
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES		1		1								1			l
gamma-BI IC (Lindane)	10.2		ug/Kg	U	YES						{						1			
gamma-Chlordane	10.2	į	ug/Kg	U	YES			1							1					l
gamma-Chlordane	10.2		ug/Kg	U	YES				1	j							1			
Heplachior	10.2		ug/Kg	V	YES			l		}	}	- 1				-	1			
Heptachlor	10.2		ug/Kg	U	YES					***		l								i '
Heptachlor epoxide	10.2		ug/Kg	U	YES		<u>.</u> ]					i i				Ī				į
Hepfachlor epoxide	10.2		ug/Kg	υ	YES					]	i	ĺ		<u> </u>						
Methoxychlor	10.2		ug/Kg	U	YES				1	1	1			1		I		1		
Methoxychlor	10.2		ug/Kg	U	YES	1		I	1	1	1	l		ı		I	ĺ	J		
Toxaphene	34.0	1	ug/Kg	υ	YES	ľ	I	[	1	1	i	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 09:53

Page 44 of 288

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 : E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889034 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res		Temp	HT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Đ∤s		Tune	£C.	ICV	CCV
Analysis Method : 8081					Dilutio	n: 1														
Toxaphene	34.0		ug/Kg	U	YES					1	į	ļ	1	1					[	1
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-T	0.0168		mg/kg	Ü	YES				1	[	l		Ι	Í.	1		1		1	İ
2,4,5-T	0.0168		mg/kg	Ų	YES				1	1					l i		l		1	
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES :					l	1									
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES						į			1				,,, ,,,,		1
2,4'-D	0.0168		mg/kg	U	YES						-				1					1
2,4'-D	0.0168		mg/kg	U	YES		I		1			[								
2,4-D8	0,0168		mg/kg	U	YES	1			1				l		l					
2,4-DB	0.0168		mg/kg	υ	YES					1					!					
Dicamba	0.0168		mg/kg	U	YES	ĺ	1				}		1		1				1	]
Dicamba	0.0168		mg/kg	U	YES	,				[										1
Analysis Method : 8260B					Dilution	n: 1														
1,1,1,2-Tetrachloroethane	3.65	;	ug/Kg	U	YES	1	- 1													
1,1,1-Trichloroelhane	3.65		ид/Кд	U	YES :	į	I													1
1,1,2,2-Tetrachloroethane	3.65		ug/Kg	U.	YES	ļ											i		1	
1,1,2-Trichleroethane	3.65		ug/Kg	U	YEε															
1,1-Dichloroethane	3.65		ug/Kg	U	YES		1													ļ
1,1-Dichloroethene	3.65		ug/Kg	U	YES :	1														
1,1-Dichloropropene	3.65		ug/Kg	υ	YES :			1											i	1
1,2,3-Trichlorobenzene	3.65		ug/Kg	υ	YES ;															1
1,2,3-Trichloropropane	3.65		ug/Kg	U	YES		1				i					ı	ì			i
1,2,4-Trichlorobenzene	3.65		ид/Кд	U	YES															
1,2,4-Trimethylbenzene	3.65		ug/Kg	U	YES	1	1	1		į	}					I				1
1,2-Dibromo-3-chioropropane	21.9	:	ug/Kg	U	YES	i	1	ı	I				i					,,,,		
1,2-Dibromoethane	3.65		ug/Kg	U	YES		Ī		i					· · · · · · · · · · · · · · · · · · ·		1			i i	i
1,2-Dichiorobenzene	3.65		ug/Kg	U	YES :		i	1				1			i	1	1		i i	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Project Number and Name:

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

Library Used: CampCarroll

8.2

Report Date: 9/6/2011 09:53

Page 45 of 288

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 : E11-134-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889034 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*		нт	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis	Field QC	Tune	IC	icv	CCV
Analysis Method : 8260B		***************************************			Dilutio	on: 1														
1,2-Dichloroethane	3.65	;	ug/Kg	U	YES		í		1		}	1			l		I	2111120011001		[
1,2-Dichloropropane	3.65		ug/Kg	υ	YES															1
1,3,5-Trimethylbenzene	3.65		ug/Kg	U	YES		i										[			1
1,3-Dichlorobenzene	3.65		ug/Kg	U	YES										İ					Î
1,3-Dichtoropropane	3.65		ug/Kg	U	YES										I					
1,4-Dichlorabenzene	3.65		ug/Kg	υ	YES						1		:							
2,2-Dichloropropane	3.65		ug/Kg	υ	YES															
2-Butanone	18.3		ug/Kg	U	YES															1
2-Chlorotoluene	3.65		ug/Kg	U	YES										ľ		{			1
2-Hexanone	9.14		ug/Kg	U	YES												]			1
4-Chiorotoluene	3.65		ug/Kg	U	YES															
4-Isopropylioluene	3.65		ид/Ко	u	YES										1					
4-Methyl-2-pentanone	9.14		ug/Kg	U	YES		]			}					1					
Acetone	18,6		ug/Kg	J	YES							-								
Benzene	3.65		ug/Kg	U	YES						]		1				i			
Bromobenzene	3,65		ug/Kg	U	YES	1	1						1		1					
Bromochloromethane	0,65		ug/iKg	U	YES	1	1			1			}		3		1			1
Bromodichloromelhane	3.65	į	ug/Kg	υ	YES			1	1	}	4		1		i		1		i	1
Bromoform	3.65	;	ид/Кд	U	YES			1	1	i	1	1	1	1			1	i		
Bromomethane	3.65		ug/Kg	Ų	YES	j	1			· · · · · · · · ·		1	1	j		i				
Carbon disulfide	3.65		ug/Kg	U	YES	1	ĺ	1		Į			l	i			1			1
Carbon tetrachloride	3.65		ug/Kg	U	YES				1	1		1		l			1	1		1
Chlorobenzene	3.65		ug/Kg	υ	YES	1			i	-	į	]			1		1	1		i
Chloroethane	3.65		ug/Kg	U	YES				١	i	ì	1						1		l
Chloroform	3.65	:	ug/Kg	υ	YES	1	1	1	1	j	i	1	1		i	1		1		
Chloromelhane	3.65	:	ug/Kg	υ	YES		1	1	1	1		1	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 09:53

Page 46 of 288

<sup>\*</sup> 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 : E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889034 Analysis Type: RES

Sample Matrix : SO

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temn	нт	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	1C	ICV	CV/
Analysis Method : 8260B					Diluti		: *:::*F								100010					
cis-1,2-Dichloroethene	3.65		ug/Kg	Ų	YES				1	1			1	i i	1		1	i	Ι	1
cis-1,3-Dichloropropene	3.65		ug/Kg	υ	YES				ì	i 	1	i I	i 	/ 	1	,	` [	 	i	1
Dibromochloromethane	3.65		ug/Kg	U	YES				`` 	 	1	ii	: 	i	i			1	i	1
Dibromomethane	3.65		ug/Kg	U	YES					]		}	: 	: 			` 	i	i I	1
Dichlorodifluoromethane	3.65		ug/Kg	U	YES				l	1			1						1	1
Ethyl Benzene	3.65		ug/Kg	U	YES				 	; 	1	: 		: 	i i	: 	: 	 	: 	i
Hexachlorobutadiene	3.65		ug/Kg	Ų	YES	: I	1			i	i		i				: 		1	
Isopropylbenzene (Cumene)	3.65		ug/Kg	U	YES	i i	Ī			Ì	i		` 						i	]
m,p-Xylene	7.31		ug/Kg	U	YES					1	i	` <del></del> Ì	` 		ii				 	1
Methyl iodide	3.65		ug/Kg	U	YES						: 	: 	 	}					i 	
Methylene chloride	1.13		ug/Kg	J	YES		]				1									1
Naphthalene	3.65		ид/Кд	U	YES	1				]			1							1
n-Butylbenzene	3,65		ug/Kg	Ų	YES						1									i
n-Propylbenzene	3.65		ug/Kg	υ	YES		1				]									1
o-Xylene	3,65		ug/Kg	U	YES	1	i													
sec-Bulylbenzene	3.65		ug/Kg	U	YES			1							· · · · · · · · · ·					1
Elyrene	3.65		ug/Kg	υ	YEE	1	1	1												
tert-Butyl methyl ether (MTBE)	3,65		ug/Kg	υ	YES		1													1
tert-Butylbenzene	3.65		ug/Kg	U	YES	1		1									·····		i i	1
Tetrachloroethene	3.65		ug/Kg	U	YES			l							1	Ì	1			
Toluene	3.65		ug/Kg	U	YES			1								1				1
trans-1,2-Dichloroethene	3.65		ug/Kg	U	YES	1	1				i i	i				1	1			1
trans-1,3-Dichtoropropene	3.65		ug/Kg	U	YES		1		i		1	l	I				1		i i	1
Irans-1,4-Dichloro-2-butene	18.3		ug/Kg	U	YES			Î			1				1					i
Trichloroethene	3.65	1	ug/Kg	U	YES			ĺ			ì				· · · · · · · · · · · · · · · · · · ·	·····ì	1			1
Trichlorofluoromethane	3.65		ug/Kg	υ	YES	i	1	Î				Ì			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 09:53 \* 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 47 of 288

Client Sample ID : E11-134-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889034

Reviewed By / Date :

#### Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overail Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8260B					Diluti	on: 1										,,,				
Vinyl chloride	3.65		ug/Kg	U	YES	:	oublosses.				Į		[					ĺ		
Analysis Method : 8270D					Diluti	on: 1											,,,,,,,,,			**********
1,2,4-Trichlorobenzene	340		ug/Kg	υ	YES					l			l	Į			1	l	1	1
1,2-Dichlorobenzene	340		ug/Kg	Ų	YES									}	1		l	l	1	1
1,3-Dichlorobenzene	340		ug/Kg	U	YES					1	į	İ	1							1
1,4-Dichlorobenzene	340		ug/Kg	U	YES					1	1	1							1	1
2,4,5-Trichlorophenol	340		ug/Kg	υ	YES					1	į	•			!					1
2,4,6-Trichlorophenol	340		ug/Kg	U	YES						}	}								
2,4-Dichlorophenol	340		ug/Kg	U	YES			.,,				ļ		1						1
2,4-Dimethylphenol	340		ug/Kg	บ	YES		,	,									1		1	1
2,4-Dinitrotoluene	340		ug/Kg	U	YES					[										
2,6-Dinitrotoluene	340		ug/Kg	U	YES		1													
2-Chloronaphthalene	340		ug/Kg	U	YES	1				1										į
2-Chlorophenol	340		ид/Кд	U	YES	1	]												1	1
2-Methylnaphthalene	340		ug/Kg	U	YES					l					l					
2-Methylphenol	340		ug/Kg	U	YES										1				1	
2-Milroaniline	340		ug/Kg	υ	YES		ĺ									*******			1	
2-Nitrophenol	340		ug/Kg	U	YES	1											ĺ			
3 and/or 4-Methylphenoi	340		ug/Kg	U	YES														l	i
3-Nitroaniline	340		ug/Kg	U	YES		·····													1
4-Bromophenyl phenyl ether	340		ug/Kg	U	YES			1											Í	l
4-Chloro-3-methylphenol	340		ug/Kg	ប	YES	1						ı					]			
4-Chloroaniline	340		ug/Kg	U	YES							ı								
4-Chlorophenyl phenyl ether	340		ug/Kg	U	YES		1	1	1			ı	i		[					
4-Nitroaniline	340		ug/Kg	U	YES		1	Ì	1											1
4-Nitrophenol	340		ug/Kg	U	YES			ii				1							1	1
Acenaphthene	340		ug/Kg	u	YES			i				1			1		1			1

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 48 of 288

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: E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Reviewed By / Date :

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889034

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*		ΗT	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method: 8270D					Diluti	on; 1														
Acenaphthylene	340		ug/Kg	Ų	YES	:			1		•			ĺ	1		1		1	
Anthracene	340		ug/Kg	U	YES							İ								
Benzo(a)anthracene	340		ug/Kg	U	YES		1				Ι	į								
Benzo(a)pyrene	340		ug/Kg	U	YES									1	1 1					
Benzo(b)fluoranthene	340		ug/Kg	U	YES						1								1	l
Benzo(g,h,i)perylene	340		ug/Kg	υ	YES												]		1	
Benzo(k)fluoranthene	340		ug/Kg	U	YES												1		1	
Bis(2-Chloroelhoxy)methane	340		ug/Kg	U	YES		{							İ			l			
Bis(2-Chloroethyl)ether	340		ug/Kg	U	YES										i					
Bis(2-Chlorolsopropyl)ether	340		ug/Kg	U	YES						!									
Bis(2-Ethylhexyl)phthalate	671		ug/Kg		YES										1					1
Butyl benzyl philhalate	340		ид/Кд	U	YES												1			
Chrysene	340		ug/Kg	U	YES			Ì	j				1							
Dibenz(a,h)anlhracene	340		ug/Kg	U	YES		J						1							ĺ
Dibenzofuran	340		ug/Kg	U (	YES				1								-			i
Diethyl phthalate	340		ug/Kg	U	YES	ĺ			1		1							]		,,,,
Dimothyl phthalate	340		ug/Kg	U	YES		1	1	1						1					1
Di-n-bulyl phlhalate	340		ug/Kg	υ	YES		i	1	1	}	ĺ				1	1				i
Di-n-octyl phthalate	340	i I	ug/Kg	U	YES				1		i			1						i
Fluoranthene	340		ug/Kg	U	YES		1	1				1	· · · · · · · · · · · · · · · · · · ·				1			
Fluorene	340		ug/Kg	U	YES	1	1	1	1		1	i	]	1	1					
Hexachlorobenzene	340		ug/Kg	U	YES			J	1		1		ļ	1		Ĭ				
Hexachlorebutadiene	340		ug/Kg	U	YES	Á			I		}	]		i	1	1	1	1	J	
	340		ug/Kg	U	YES	1						1	]				1	1		
Hexachioroethane	340	· · · · · · · · · · · · · · · · · · ·	ug/Kg	υ	YES		1	1	1	I	1	1		1		1	1	1	· · · · · · i	
Indeno(1,2,3-cd)рутеле	340	;	ug/Kg	U i	YES		I	i	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 09:53 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 49 of 288

Client Sample ID : E11-134-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889034

Reviewed By / Date :

Approved 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 Tol/Dis	Field QC	Tune	(C	icv	CCA
Analysis Method : 8270D					Diluti															
Isophorone	340	i	ug/Kg	U	YES	;	}	-		1	}								1	ī
Naphthalene	340	;	ug/Kg	U	YES	:	1	1	1		1		1							1
Nitrobenzene	340		ug/Kg	Ų	YES	:			1			]		;	1				1	
n-Nitrosodi-n-propylamine	340	;	ug/Kg	U	YES					i		ļ	l	}					1	
Pentachlorophenol	340		ug/Kg	Ų	YES	ŲĴ				UJ			1	ì					1	
Phenanihrene	340		ug/Kg	Ų	YES			1		1			i						1	I
Phenol	340		ug/Kg	υ	YES						<u> </u>								1	I
Pyrene	340		ug/Kg	U	YES					1	l	{	}		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 09:53 \* 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 50 of 288

Client Sample ID: E11-135-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: DL

Sample Matrix: SO

Lab Sample ID: 31101889005 Reviewed By / Date :

Approved By / Date :

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	Field QC	Tune	IC	icv	CCV CCV
Analysis Method : 6010C					Dilutio	on: 10														
Lead	13	8	mg/kg		YES	J					J	}	i i		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 09;53 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 51 of 288

Client Sample ID: E11-135-S1

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889005

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date:

	***************************************	Uncertainty /	Result	I =b	Don	Ouerall			************	***************************************		Lab		2	11-1-4	Final				- 014
Analyte Name	Result	Error	Units	Lab Qual		Overall Quai*		НT	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	3C	íCV	CCV
Analysis Method : 6010C					Dilutio	n: 1														
Arsenic	39.0		mg/kg		YES	J			]	1	J	J		i						
Barium	80.0		mg/kg		YES				1								i		: 	1
Cadmium	2.76		mg/kg		YES		1		1	1	1				1		i		 	Ì
Chromium	2.35		mg/kg		YES	ΠJ			₩	1		J	]		i					
Selenium	2.17		mg/kg	U	YES	******			1	 			 		l i				 	
Silver	0.480	;	mg/kg	J	YES										l 1					
Analysis Method : 7471B					Dilutio	n: 1				********								.,		
Mercury	0.00792		mg/kg	J	YES					1							ı			1
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	9.96		ug/Kg	U	YES				1								ļ			
4,4'-DDD	9.96		ug/Kg	U	YES															[
4,4'-DDE	0.496	,	ид/Кд	JР	YES						1									1
4,4'-DDE	0.496		ug/Kg	JP	YES												1			
4,4'-DDT	2.05	,	ug/Kg	JP	YES	U	1		υ			1	]		1	1				ĺ
4,4'-DDT	2,05		ug/Kg	JP	YES	U	Ì		Ú		]		1	ļ						ĺ
Aldrin	9.96		ug/Kg	U	YES	!				i		1					1	<u> </u>	1	ĺ
Aldrin	9.96		ug/Kg	U	YES									[		1				1
alpha-BHC	9.96	(	ид/Кд	Ų	YES		1	1				1				1	1		i	i
alpha-BHC	9.96	Ţ	ug/Kg	U	YES	Į	1						1	1		١		1		
alpha-Chlordane	9.96		ug/Kg	U	YES					]		1				1	1		·····	1
alpha-Chlordane	9.96		ug/Kg	U	YES :		I	-				1			1	1				
beta-BHC	9.96	Í	ug/Kg	U	YES	i			1	i	1	1	1	i	]	Ï				
beta-BHC	9.96		ug/Kg	U	YES	Ì					[	ĺ	1	ì		·····	·····	1	·····	
Chlordane	33.2		ug/Kg	υ	YES			]	1	}							Ī	1	1	
Chlordane	33.2		ug/Kg	υ ;	YES :		1	1			1				1	i		1		
iella-BHC	9.96		ug/Kg	Ü	YES :	1		1			1	1		1	i	1	i	1		
iella-BHC	9.96		ид/Кд	U	YES	i	1	ì				i		1				Î	1	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 52 of 288

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 : E11-135-S1 Sample Date : 07/16/2011 Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

Lab Sample ID: 31101889005

Reviewed By / Date :

Approved By / Date :

9.96 9.96 9.96 9.96 9.96	ug/Kg ug/Kg ug/Kg ug/Kg	U	Diluti YES YES														\$CV	CCV
9.96 9.96 9.96 9.96	ug/Kg ug/Kg	U		]												•		
9.96 9.96 9.96	ug/Kg	÷	YES				1			***************************************	i		1 1		i		1	1
9.96 9.96		U					1								i i		 	1
9.96	ug/Kg		YES	:			 								1		i	i
		U	YES											· · · · · · ·		•	 	Ì
	ug/Kg	ัย	YES										1			• • • • • • • • • • • • • • • • • • • •		i 
9.96	ug/Kg	U	YES		i I										······	• • • • • • • •		! [
9,96	ug/Kg	U	YES											 				!·····
9.96	ug/Kg	U	YES											 	<u>-</u>			! 
9.96	ug/Kg	U	YES		i i			i			1			 1	i		'	: 
9,96	ug/Kg	V	YES		i	······i					}				 		 	i [
9.96	ug/Kg	U	YES					}	1			i	1	1	}			
9.96	ug/Kg	U	YES		1						1	i		l				1
9.96	ug/Kg	U	YES									·i	i					
9.96	ug/Kg	Ù	YES						1	Ì		i	···	·····i	·			
9.96	ug/Kg	U	YES	}		1				1		1		1		i		,
9,96	ug/Kg	U	YES				1	1	1	ĺ		]		<u>-</u>			······································	
9.96	ид/Кд	ย	YES	1			1	1		1		1		<u>`</u>	į			,
9.96	ug/Kg	V	YES	}	I	1				1	1	1	· · · · · · · i	1	1			· · · · · · · ·
9.96	ug/Kg	U	YES		Í	1	Ì	1							······	1		
9.96	ug/Kg	U	YES	1	1	1	1	· · · · · · · · · · · · · · · · · · ·	\$	ì		i		1	······		····i	
9.96	ug/Kg	U	YES	1	1	1	1	1	1	1	1	i	· · · · · · · · · · · · · · · · · · ·	ì		······	······	
9.96	ug/Kg	U	YES		1	ı	1	1						·····	·····		·······i	ì
9.96	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1	Î		i	i	i	í			·····	1	·······	······ :
9.96	ug/Kg	v	YES	1		ì	i	<u>-</u>		i i	······	· · · · · · i		i	<del>-</del> -		··	·:
33.2	ug/Kg	U	YES	i		Î		i	·····	·····i		· · · · · i		i	·····	······	· · · · · · i	i
33.2	ug/Kg	v	YES		·····	······	ì	····		·······		·······	· · · · · · · · · · · · · · · · · · ·	·····i	·····i		!	·····i
	9.96 9.96 9.96 9.96 9.96 9.96 9.96 9.96	9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 9,96 ug/Kg 33,2 ug/Kg	9,96	9,98         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           33,2         ug/Kg         U         YES           33,2         ug/Kg         U         YES	9,98         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           33,2         ug/Kg         U         YES           33,2         ug/Kg         U         YES	9,96	9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           9,96         ug/Kg         U         YES           33,2         ug/Kg         U         YES           33,2         ug/Kg         U         YES	9,96	9,96	9,96	9,96	9,96	9.96	9.96	9.96	9.96	9,96	9.96

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 53 of 288

<sup>\*</sup> 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 : E11-135-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889005

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*		нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Типе	łC	ICV	CCV
Analysis Method : 8151					Dilutio	n: 1														
2,4,5-₹	0.0167		mg/kg	U	YES				1	l			F	1	1				1	
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES				l			1	i							
2,4'-D	0.0167		mg/kg	υ	YES				[		}	i			1					[
2,4-D8	0.0167		mg/kg	υ	YES						]									1
Dicamba	0.0167		mg/kg	U	YES					1					İ					i i
Analysis Method : 8260B	***************************************				Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.95		ug/Kg	U	YES				[								l í			l
1,1,1-Trichloroethane	4.95	i i	ug/Kg	U	YES										1 1					[
1,1,2,2-Tetrachloroethane	4.95		ug/Kg	Ü	YES	1					}									]
1,1,2-Trichloroethane	4.95		ug/Kg	U	YES										1 1					1
1,1-Dichloroethane	4.95		ug/Kg	U	YES	UJ				IJ							1			1
1,1-Dichloroethene	4.95		ug/Kg	U	YES	UJ	1			LUJ					1					:
1,1-Dichloropropene	4.95	1	ug/Kg	U	YES	1	1								1		1			1
1,2,3-Trichlorobenzene	4.95		ug/Kg	υ	YES										l					1
1,2,3-Trichloropropane	4.95		ug/Kg	Ü	YES			Ì												[
1,2,4-Trichlorobenzene	4.95		ио/Ка	U	YES	1									3					[
1,2,4-Trimethylbenzene	4 95	ĺ	ив/Ка	IJ	YES		1			 										
1,2-Dibromo-3-chloropropane	29.7		ug/Kg	U	YES		1				j	· · · · · · · · ·				i				
1,2-Dibromoethane	4.95		ид/Кд	U	YES		j													
1,2-Dichlorobenzene	4.95		ug/Kg	U	YES	. <b></b>	· · · · · · · · · · · · · · · · · · ·	i		· · · · · · · · · · · · · · · · · · ·		· · · · · · · ·								
1,2-Dichloroethane	4.95		ug/Kg	υ	YES		i	· · · · · · · · · · · · · · · · · · ·	······								i i	i		
1,2-Dichloropropane	4,95		ug/Kg	U	YES			·	i			1				i		i		
1,3,5-Trimethylbenzene	4.95		ug/Kg	U	YES	i	· · · · · · · · · · · · · · · · · · ·	··		·······		······i				···i		i	· · · · · · · · · · · · · · · · · · ·	
1,3-Dichlorobenzene	4.95		ug/Kg	υ	YES	1	·i	······			·······					i	·	<u>-</u>	· · · · · · · · · · · · · · · · · · ·	
1,3-Dichloropropane	4.95		ug/Kg	บ	YES		!. !		<i>ا</i> ۔۔۔۔۔۔ا ا		i 	·i	'	·'	í	·-··: 		'	·······	
1,4-Dichlorobenzene	4.95		ид/Кд	U	YES	· : :		·······	! I		·!	<u>'</u>	<i>:</i>	·i		! 			!! I	
2,2-Dichloropropane	4.95		ug/Kg	····	YES				·		· <u>†</u>	<u>-</u> '	/ 					! 1		

Project Number and Name:

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

Library Used: CampCarroli

ADR 8.2

Report Date: 9/6/2011 09:53

Page 54 of 288

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 : E11-135-S1 Sample Date : 07/16/2011 Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101889005

Reviewed By / Date :

# Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCA
Analysis Method : 8260B					Dilutio	on: 1														
2-Butanone	20.3	:	ид∕Кд	J	YE\$	J				J	!						1			1
2-Chiorotoluene	4.95	,	ug/Kg	Ų	YES															
2-Hexanone	12.4		ug/Kg	U	YES										ĺ		1			1
4-Chlorotoluene	4.95		ug/Kg	Ų	YES		1							1			]			1
4-isopropyitoluene	4.95		ug/Kg	U	YES		·							1						
4-Methyl-2-pentanone	12.4		ug/Kg	U	YES										1					
Acetone	116		ug/Kg		YES	J				J										ĺ
Benzene	4.95		ид/Кд	U	YES		i									*	l i			
Bromobenzene	4.95		ug/Kg	U	YES		1										]			1
Bromochloromethane	4.95		ug/Kg	U	YES		I										{			1
Bromodichloromethane	4.95		ug/Kg	U	YES						1									1
Bromoform	4.95	,	ug/Kg	υ	YES										1					
Bromomelhane	4.95		ug/Kg	U	YES		1										1			Ī
Carbon disulfide	4.95	;	ug/Kg	U	YES	UJ			i	UJ Į	1				1					i
Carbon tetrachloride	4.95		ug/Kg	ย	YES		1	]			}									
Chlorobenzene	4.95		ug/Kg	U	YES		1	1	1											
Chloroethane	4,95		ug/Kg	U	YES			1	1								i			
Chloroform	4,95		ug/Kg	V	YES			1	1								1	i		1
Chloromethane	4.95		ug/Kg	U	YES	ļ	1	]			····		j					1		i
cis-1,2-Dichloroelhene	4.95		ug/Kg	U	YES		1	1	1	1	· · · · · · · · · · · · · · · · · · ·		· · · · · · i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·			
cis-1,3-Dichloropropene	4.95	:	ug/Kg	υ	YES		ı	1	1		1		1		}		1			
Dibromochloromethane	4.95		ug/Kg	υ	YES		1	I	· · · · · · · · · · · · · · · · · · ·		1	1	1				1	1		1
Dibromomethane	4.95	;	ug/Kg	U	YES	1	· i					i		i		1	1			
Dichlorodifiuoromethane	4.95	i	ug/Kg	U	YES	1	1			ĺ	į	1		1	1	1	1	1		1
Ethyl Benzene	4.95		ид/Кд	U	YES		1	Î	1		1	1		1	1	1		1		i
-lexachlorobuladiene	4,95		ug/Kg	U	YES	i	· · · · · · · · · · · · · · · · · · ·	i									1			1

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 55 of 288

<sup>\*</sup> 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 : E11-135-S1 Sample Date : 07/16/2011 Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101889005

Reviewed By / Date :

Approved By / Date:

Analyle Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8260B			,		Dilutio	on: 1														
Isopropylbenzene (Cumene)	4.95		ug/Kg	U	YES		1			[	1		1	1						
m,p-Xylene	9.90		ug/Kg	Ü	YES		1								1					
Methyl iodide	4.95		ug/Kg	U	YES					1					l i					
Methylene chloride	1.27		ug/Kg	J	YES	J				J										
Naphihalene	4.95		ug/Kg	ย	YES					1										
n-Butylbenzene	4.95		ug/Kg	U	YES		Ī				}			[						
n-Propylbenzene	4.95	[	ug/Kg	Ų	YES								 				1			
o-Xylene	4.95		ug/Kg	υ	YES															[
sec-Butylbenzene	4.95		ug/Kg	υ	YES												ļ	.,		
Styrene	4.95		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	4.95		ug/Kg	U	YES	IJ	1			ยม										l
tert-Bulylbenzene	4.95		ug/Kg	U	YES		1								1 4		1			
Tetrachloroethene	4.95		ug/Kg	U	YES						1						i	I		
Toluene	4.95		ug/Kg	U	YES				1						1 !			ĺ		}
trans-1,2-Dichloroethene	4.95		ug/Kg	Ų	YES	UJ	1	1		UJ					1		1			
trans-1,3-Dichloropropene	4.95		ug/Kg	U	YES	1	I	1	I	·····		Ī					1			
trans:1,4-Dichloro-2-butene	24.8		ug/Kg	U	YES		1	1		1	1	1								
Trichforoethene	4.95		ug/Kg	U	YES		1	1	1				1				1			
Trichlorofluoromethane	4.95	;	ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·	1	Ī	1		1	1	1					1		
Vinyl chloride	4.95		ug/Kg	U	YES		1	Ì	ĺ	i		1	I				Î			
Analysis Method : 8270D					Dilutio	n:1														
1,2,4-Trichlorobenzene	343	:	ug/Kg	U	YES	- 1	- 1	1	-	,	2							1	1	
1,2-Dichlorobenzene	343		ug/Kg	υ	YES			1	1	i	·····	1								
1,3-Dichlorobenzene	343		ug/Kg	U	YES	i			1		i	1	1				1	1	i	
1,4-Dichlorobenzene	343		ug/Kg	U	YES ;	1	· · · · · · · · · · · · · · · · · · ·	1	1	1		1					1			
2,4,5-Trichlorophenol	343	:	ug/Kg	U	YES			Î	·····			·····ì		· · · · · · · · · · · · · · · · · · ·		1	·····		i	
2.4.6-Trichlorophenol	343		uo/Ko		YES :		i	1					3	·i					1	

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 56 of 288

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: E11-135-S1

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889005

Sample Matrix: SO

Approved By / Date : Reviewed By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1						,						//		
2,4-Dichlorophenol	343	:	ug/Kg	ีย	YES			1	1		i	1		!					1	1
2,4-Dimethylphenol	343	,	ug/Kg	Ų	YES		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1	1	]	]		1				1	1
2,4-Dinitrotoluene	343		ug/Kg	U	YES				[						1				1	
2,6-Dinitrotoluene	343		ug/Kg	U	YES			]	1	l							1		1	
2-Chloronaphthalene	343		ug/Kg	U	YES			i	1						1				<u> </u>	
2-Chlorophenol	343		ug/Kg	U	YES	ı			1	1	}	1			1					
2-Methylnaphthalene	343		ид/Кд	Ų	YES	I		[												
2-Methylphenol	343		ид/Кд	υ	YES										l i		1		1	1
2-Nitroaniline	343		ug/Kg	U	YES						 						Í Í	• •	1	
2-Nitrophenol	343		ug/Kg	U	YES				1											
3 and/or 4-Methylphenol	343		ug/Kg	υ	YES	ſ					]									
3-Nitroaniline	343		ug/Kg	υ	YES	i														
4-Bromophenyl phenyl elher	343		ug/Kg	U	YES	1													1	1
4-Chloro-3-methylphenol	343		иу/Ку	U	YES	1											1			/
4-Chloroaniline	343		ug/Kg	U	YES						ĺ			i			]			
4-Chlorophenyl phenyl ether	343		ug/Kg	u	YES		1						1		ĺ					1
4 Nitroaniline	343		ug/Kg	U	YES		}								Ì					1
4-Nitrophenol	343	;	ид/Кд	U	YES ;							ſ					İ			
Acenaphthene	343		ug/Kg	ប	YES		1				,	-	j				{			/
Acenaphthylene	343		ug/Kg	U	YES	1	1					1	1		1		}			
Anthracene	343	:	ug/Kg	U	YES	1		1			i		1			1				
Benzo(a)anthracene	343	;	ug/Kg	υ	YES	ì	1	-				1	1			1				
Benzo(a)pyrene	343	;	ug/Kg	U	YES		1		I			1		j						
Benzo(b)fluoranthene	343		ug/Kg	U	YES				1			Ī								
Benzo(g.h.i)perylene	343		ug/Kg	V	YES		1	1			ĺ	Ī	1	1	1	Ì				, ,
Benzo(k)fluoranthene	343		ug/Kg	υ	YES	1	1	1			I	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 09:53

Page 57 of 288

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

5160

Client Sample ID: E11-135-S1

Lab Sample ID: 31101889005

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

#### Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Quai*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCA CA1
Analysis Method : 8270D					Dilutio	on: 1								. ,						,
Bis(2-Chloroethoxy)methane	343		ug/Kg	U	YES	. 1			[											
Bis(2-Chloroethyl)ether	343		ug/Kg	U	YES	1	1												1	1
Bis(2-Chloroisopropyl)ether	343		ug/Kg	U	YES .	ı					1	\ 	1						1	1
Bis(2-Ethylhexyl)phthalate	343		ug/Kg	U	YES		1		1	1	1		1		1 1					
Butyl benzyl phthalate	343		ug/Kg	U	YES						•			Į	1					1
Chrysene	343		ug/Kg	υ	YES	1								Ì			1			
Dibenz(a,h)anthracene	343		ug/Kg	U	YES	ļ								ĺ						
Dibenzofuran	343		ug/Kg	U	YES	ļ														
Diethyl phihalate	343		ид/Кд	U	YES	1	1												[	
Dimethyl phthalate	343		ид/Ко	U	YES		1													
Di-n-butyl phthalate	343		ug/Kg	U	YES			į												
Di-n-octyl phthalale	343		ug/Kg	ម	YES	1	1								Ì				l	1
Fluoranthene	343	1	ug/Kg	U	YES	1	1										į			l
Fluorene	343		ug/Kg	υ	YES		1										,			ļ
Hexachlorobenzene	343		ug/Kg	ម	YES	1	1			i					1					
Hexachlorobutadiene	343	:	ид/Кд	U	YES	}				1									l	1
Hexachlorocyclopentadlene	343		ug/Kg	U	YES	1			1	3										
Hexachloroethane	343		ug/Kg	U	YES	1			1	····i					1			1		1
Indeno(1,2,3-cd)pyrene	343	:	ug/Kg	υ	YES		1		1				i		i i					1
Isophorone	343	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	1	I			i		1					1			i
Naphthalene	343	i i	ug/Kg	U	YES	1	I			1		1					}			1
Nitrobenzene	343		ug/Kg	U	YES	1	1		1	}		1								1
n-Nitrosodi-n-propylamine	343		ug/Kg	U	YES				1	1	-	l	1		,					1
Penlachioropheno)	343		ug/Kg	U	YES	UJ	1		i	UJ	i		1							l
Phenanthrene	343	;	ug/Kg	U	YES	1	1	1	I											i
Phenol	343		ug/Kg	U	YES	1	1	1		I	I						]			1

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 58 of 288

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: E11-135-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889005 Analysis Type: RES

Sample Matrix: SO

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 Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ic.	fCV	CV/	•
Analysis Method : 8270D					Diluti	on: 1															
Pyrene	34:	1	ug/Kg	U	YES	Ė	i. I			Ī	 {			1		····	1 1				ī

Project Number and Name:

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

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53 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 59 of 288

5162

Client Sample ID: E11-135-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

Lab Sample ID: 31101889006

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*		нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CCV
Analysis Method : 60100	>				Dilutio	วก: 1														
Arsenic	8.50		mg/kg		YES	J			1		J	J	1		1	į	1 1		1	I
Barium	70.1		mg/kg		YES						i	ì	ĺ			ļ	1			
Cadmium	1.01		mg/kg		YES	U			U	]					1		1	******		1
Chromium	2.66		mg/kg		YES	J		,,-		1	1	J		[			1		[	1
Lead	8.61		mg/kg		YES	S					J			İ	1					I
Selenium	0.548		mg/kg	J	YES	,,							1		1				1	1
Silver	1.00		mg/kg	U	YES					1					1					
Analysis Method : 7471B					Dilutio	n: 1														
Mercury	0.00194		mg/kg	J	YES					1										1
Analysis Method : 8081					Dilutio	n: 1														
4,4'-DDD	1.23	į	ug/Kg	JP :	YES		1		<u> </u>			!			1 1		l			
4,4'-DDD	1.23	į	ug/Kg	JР	YES						ļ				L		1			
4,4'-DDE	0.894		ug/Kg	JP :	YES		١	ı									f			1
4.4'-DDE	0.894	]	ug/Kg	JP	YES		l								<b>!</b>		I			
4,4'-DDT	10.4		ug/Kg	U	YES										1		1			
4,4'-DDT	10.4	1	ug/Kg	U	YES	1	١	- 1								-	į			
Aldrin	10.4	}	ug/Kg	U	YES												*			
Aldrin	10.4		ug/Kg	U	YES						ļ		j				i			ĺ
alpha-BHC	10.4	i	ug/Kg	U	YES										1					i
alpha-8HC	10.4		ug/Kg	U	YES	[	Ì									-				1
alpha-Chlordane	10,4		ug/Kg	U	YES			1									1			1
alpha-Chlordane	10.4		ug/Kg	Ų	YES			1					1			1	1			
beta-BHC	10.4		ug/Kg	υ	YES	1		1		· · · · · ·		ļ			1					1
bela-BHC	10.4		ug/Kg	U	YES	1	1						1							
Chlordane	34.5		ug/Kg	U	YES		l	1	1				1		1					
Chlordane	34.5		ug/Kg	U	YES						۱۱			 		1	1		· · · · · · i	
delta-BHC	10.4	i	ug/Kg	U	YES :		Ì	1	1		i	1	1	1	i	l	}		ı	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 60 of 288

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

Client Sample ID : E11-135-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889006 Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

***************************************	Uncertainty /	Result	Lab	Rep	Overall					**************	Lab		Rec	Moist	Field				CV/
Result	Error	Units	Qual	Res	Qual*	Temp	HŦ	MB	LCS	MS	Dup	Surr			QC	Tune	ic	ICV	CCV
				Diluti	on: 1														
10.4		ug/Kg	υ	YES								f							Ī
10.4		ug/Kg	U	YES		١			1				}	i i				 I	1
10.4		ид/Кд	U	YES		ĺ						 		i i					1
10.4		ug/Kg	U	YES		[		[				1		1					1
10.4		ug/Kg	U	YES										1				1	1
10.4		ид/Кд	U	YES													,-,-	i I	
10.4		ug/Kg	υ	YES		I						 		1					
10.4		ug/Kg	U	YES														1	i
10.4		ug/Kg	U	YES		1		1	i							1		1	i
10.4		ug/Kg	U	YES						1						1		1	
10.4		ug/Kg	υ	YES															i
10.4		ug/Kg	U	YES		ĺ		1		1				1		1			i
10.4		ug/Kg	υ	YES			l		1										i
10,4		ug/Kg	ย	YES			1	]	1								******		ĺ
10.4		ug/Kg	U	YES	1	1	1	1			····					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******		
10.4		ug/Kg	υ	YES		······	Ì	1	1	}	Ì								
10 4		ug/Kg	н	YES			Ì	1					· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
10.4	·····	ug/Kg	U	YES		i	1			i		1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	 1				
10.4		ид/Кд	U	YES	}	1	1	1			·····	· · · · · · · · · · · · · · · · · · ·	·····i		: 1			·····i	
10.4	1	ug/Kg	U	YES		i.	ì	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	i	i	· · · · · · i		·····i			·····i	
10.4		ug/Kg	U	YES		i		1			·····i	i	i			·····		i	
10.4		ид/Кд	U	YES		i i	ì	1	.,,		·····:		· · · · · · · · · · · · · · · · · · ·		ì	ì	· · · · · ·	· · · · · · · · · · · · · · · · · · ·	
10.4		ug/Kg	υ	YES	· · · · · · · · · · · · · · · · · · ·		<u>î</u>	······;	i		ì			i. 	·······•		· ·····i	i	
10.4		ug/Kg	U	YES		·i	<u>-</u>	i			i				i	<del>:</del>		······!	
10.4	·····	ug/Kg	U	YES		·····i	<u>-</u>	······	······	i	·····i	· · · · · · · · · · · · · · · · · · ·	·····i		·····i			! 	
34.5	• • • • • • • • • • • • • • • • • • • •	ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	<u>-</u>											!	
	Result  10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.	10.4 10.4	Result	Result   Error   Units   Qual	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result   Error   Units   Qual   Res   Qual   Temp   HT   MB   LCS   MS   Dup   Surr   Limit Tot/Dis   QC	Result   Error   Units   Qual   Res   Qual   Temp   HT   MB   LCS   MS   Dup   Surr   Limit   Tot/Dis   QC   Tune	Result   Error   Units   Qual   Res   Qual   Temp   HT   MB   LCS   MS   Dup   Surr Limit Tot/Dis   QC   Tune   IC	Result   Error   Units   Qual   Res   Qual*   Temp   HT   MB   LCS   MS   Dup   Surr   Limit Tot/Dis   QC   Tune   IC   ICV   IU   IU   IU   IU   IU   IU   IU   I

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 61 of 288

<sup>\*</sup> 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: E11-135-S2

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889006

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date:

Analysis Method : 8081 Toxaphene	Result	Error	Units	Qual	Res	Oual									Moist					CVI
	34,5						temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	ŧC.	€CV	CCV
Toxaphene	34,5		~~~~~~		Dilutie	on: 1														
		l	ug/Kg	υ	YES		1		1		1						1 1			1
Analysis Method : 8151					Dilutio	on: 1										•••••			,,,,,,,	
2,4,5·T	0.0173	<u> </u>	mg/kg	υ	YES	:	ì	1							[					
2,4,5-TP (Silvex)	0.0173		mg/kg	U	YES				1										1	1
2,4\-D	0.0173		mg/kg	U	YES		1				ĺ						l		(	1
2,4-DB	0,0173		mg/kg	υ	YES				1	1					1				1	:
Dicamba	0.0173		mg/kg	U	YES	IJ	1		1		UJ				l 1		Î		1	! [
Analysis Method : 8260B					Dilutio	n: 1														
1,1,1,2-Tetrachloroethane	4.68		ug/Kg	Ų	YES	UJ	1				UJ				1		i			
1,1,1-Trichloroethane	4,68		ид/Кд	υ	YES	ΠJ	[ ]				UJ				i i					i
1,1,2,2-Tefrachioroethane	4.68		ug/Kg	U	YES	UJ		********	1		UJ								· · · · · · · · ·	l
1,1,2-Trichloroethane	4.68		ug/Kg	υ	YES :	υJ	1				UJ									: 
1,1-Dichloroelhane	4.68		ug/Kg	U	YES	IJ	]		1		UJ			· · · · · · · · · · · · · · · · · · ·						
1,1-Dichloroethene	4.68		ир/Кр	u	YES	IJ.J	1 1				UJ		1			······	·i			
1,1-Dichloropropene	4.68		ug/Kg	u	YES	บป		]			UJ					i			i	
,2,3-Trichlorobenzene	4.68		ug/Kg	U	YES	UJ	1 1				UJ	1			i	·····i		ا	i	
,2,3-Trichloropropane	4.68	1	ид/Кд	υ	YES :	UJ	1				UJ	i	1			i	i	ن ا		
,2,4-Trichlorobenzene	4.68		ug/Kg	U	YES	UJ	1	 ا			UJ	······ <u>'</u>	<u>i</u>	·i		·····i	1	·	!	
,2,4-Trimethylbenzene	4.68		ug/Kg	U	YES	UJ	1	Ì			IJ		<u>-</u>	i			·····	·i	!	
,2-Dibromo-3-chloropropane	28.1		ug/Kg	U	YES	UJ	i i	i	1	· · · · · · · · · · · · · · · ·	UJ	i	<i>:</i> -			······		·i	·!	• • • • • • • • • • • • • • • • • • • •
,2-Dibromoethane	4.68		ug/Kg	U	YES	UJ	· · · · · · · · · · · · · · · · · · ·	: ]	1	i	UJ	i	<i>i</i> -		•••••	¦	···			***
,2-Dichlorobenzene	4.68		ug/Kg	U	YES	UJ	1		·······i		UJ }	···-··	i. I					······································		
,2-Dichloroethane	4.68		ug/Kg	U	YES	UJ	: !	·i	······		UJ :	···	·····	····¦	••••••			! !	······!	
,2-Dichloropropane	4.68		ug/Kg	u	YES	IJ	i i	 1		······	·····	· ····i					<i></i>			
,3,5-Trimethylbenzene	4.68		ug/Kg	U	YES	UJ	i	······			UJ }	:i	.ئ ا	!			¦,			
,3-Dichlorobenzene	4.68	·····	ug/Kg	····	YES:	LU	:	····	·····-:	<del>-</del>	UJ	اا								
,3-Dichloropropane	4.68		ug/Kg	U	YES:	UJ.	:			i.	·····	······:					····		!	

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 62 of 288

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 : E11-135-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889006

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	i.ab Qual		Overali Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC.	ICV	CCA CA1
Analysis Method : 8260B					Dilutio	n: 1									×11		*************	,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1,4-Dichlorobenzene	4.68	:	ид/Кд	U	YES	เกา					UJ	ì	j	1			f I			
2,2-Dichloropropane	4,68		ug/Kg	U	YES	UJ			l		IJ								1	1
2-Butanone	23.4		ug/Kg	U	YES	IJ	ĺ	1	ſ		บ์		Ī		]					1
2-Chlorotoluene	4.68		ug/Kg	Ų	YES	UJ	i	1			UJ								[	ĺ
2-Hexanone	11.7		ug/Kg	υ	YES	ยม					IJ		1		1					
4-Chlorotoluene	4.68		ug/Kg	υ	YES	UJ					UJ				l i				1	1
4-Isopropyltoluene	4.68		ug/Kg	ប	YES	IJ					บม				l		1		1	l
4-Methyl-2-pentanone	11.7		ug/Kg	U	YES	UJ					UJ							********		 
Acetone	30,4		ug/Kg	J	YES	J					J		J		1					1
Benzene	4.68		ug/Kg	U	YES	UJ					UJ		 		1					
Bromobenzene	4.68		ug/Kg	U	YES	UJ					UJ									
Bromochloromethane	4.68		ug/Kg	U	YES	IJ	l				UJ						1			1
Bromodichloromethane	4.68	;	ug/Kg	U	YES	UJ					UJ				-					1
Bromoform	4.68		ид/Кд	U	YE6	IJ	·····i				ולט				l				1	
Bromomelhane	4.68	i	ug/Kg	U	YES	UJ			1		UJ					1	1			
Carbon disulfide	4.68		ид/Кд	υ	YES	IJ		1	·····I	UJ (	UJ								I	1
Carbon tetrachloride	4 68	1	нр/Кр	u [	YES	UJ	1		I	]	UJ						· · · · · · · · · · · · · · · · · · ·	I		
Chlorobenzene	4.68		ug/Kg	U	YES	UJ	1		1		UJ						i	1		í
Chloroethane	4.68		ug/Kg	υ	YES	IJ	j		1	i	UJ	1		]		1	1		1	
Chloroform	4.68		ug/Kg	U	YES	UJ		1	1	1	UJ	ĺ				· · · · · · · · · · · · · · · · · · ·	1	1		
Chloromethane	4.68		ug/Kg	U	YES	IJ	1	1		}	UJ	1	}	i	1	1		1	1	
cis-1,2-Dichloroethene	4.68	1	ug/Kg	U	YES	UJ			1		UJ		ĺ		1	1		1		, ,
cis-1,3-Dichloropropene	4.68	;	ид/Кд	υ	YES	υJ		1	1		UJ	i	1	1		Ì	į	1	Ì	
Dibromochloromethane	4.68		นg/Kg	U	YES :	UJ		1			UJ	I	1			Ì		i	1	
Dibromomethane	4.68		ug/Kg	U	YES	UJ	1	1	1	ì	UJ	ĺ				i	·····		l	,i
Dichlorodifluoromethane	4.68		ид/Кд	U	YES	IJ.	1				UJ		1	· · · · · · · i			i	i	1	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 63 of 288

<sup>\*</sup> 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: E11-135-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Lab ID: SGSW

Lab Sample ID: 31101889006

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*		нт	МВ	LCS	MS	Lab Dup	Տոււ	Rep Limit	Moist Tot/Dis	Field QC	Tune	ıc	icv	CV/ CCV
Analysis Method : 8260B					Dilutio	on: 1														
Ethyl Benzene	4.68		ug/Kg	U	YES	UJ				]	UJ	ļ	ı	1	Ī		I :			 !
Hexachlerobutadiene	4.68		ug/Kg	U	YES	UJ			ì	: 	. W	: 	·		!! 		:i		!	! 
isopropylbenzene (Cumene)	4.68		ug/Kg	U	YES	IJ			:	: I	:   UJ	:	: I	! !	: 	• • • • • • • • • • • • • • • • • • • •	!! 		' !	! !
m,p-Xylene	9,36		ug/Kg	U	YES		1			 	: :	:	• • • • • • • • • • • • • • • • • • •	: 			! 		! 	! !
Methyl iodide	4.68		ug/Kg	U	YES	IJ	1			UJ	W			! !			! 	••••	! 	
Methylene chloride	1,33		ug/Kg	3	YES	J	·i			/ 	J	· · · · · · · · · · · · · · · · · · ·		`						
Naphthalene	4,68		ug/Kg	υ	YES	UJ	····i	·i		' 	UJ	•••••	: [				li			
n-Butylbenzene	4.68	;	ид/Кд	ប	YES	IJ	i			` 	UJ		 	 						
n-Propylbenzene	4.68		ug/Kg	U	YES	UJ	1			l	UJ					· · · · · · · · · · · · · · · · · · ·				
o-Xylene	4,68	;	ug/Kg	U	YES	UJ					IJ									
sec-Bulylbenzene	4.68		ug/Kg	U	YES	กา	i		 		UJ						i			! 
Slyrene	4.68		ug/Kg	V	YES	UJ	·····	Î	································		UJ							!		
tert-Butyl methyl ether (MTBE)	4.68	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	UJ	· · · · · · · · · · · · · · · · · · ·	·······	·······	` 	UJ i		· · · · · · · · · · · · · · · · · · ·	! 		! 		ا ا	! 	1
tert-Butylbenzene	4.68		ug/Kg	υ	YES ;	ΠŢ		1	i		UJ	i	 		·	:ا ا	·····		! !	!
Tetrachloroelhene	4.68	ì	ug/Kg	U	YES	UJ	1				UJ		i	! ا	i		<u>-</u>	ر ا	! 1	1
Toluene	4.68	;	ug/Kg	U	YES	UJ		1	1		UJ :	······i		· · · · · · · · · · · · · · · · · · ·		··	!	! !		!
frans-1,2-Dichloroethene	4.68	1	ug/Kg	U	YES	UJ	i i	Ì			UJ	ì	······	·······		·····i	······	'! I	······!	
trans-1,3-Dichloropropene	4.68		ug/Kg	U	YES	UJ	1	1	Î		UJ	······i		······	·····i	:	·····	· · · · · · · · · · · · · · · · · · ·	······!	·····::
trans-1,4-Dichloro-2-butene	23.4		ug/Kg	U	YES :	ì		1	1			: 	i		· · · · · · · · · · · · · · · · · · ·	······i	······			!
Trichioroelhene	4.68		ug/Kg	Ų	YES	IJ	· · · · · · i	Î	ì		UJ	·····i	<i>:</i> -	····-i	········	·····/	······	1		
Trichlorofluoromethane	4.68		ug/Kg	υ	YES :	UJ	1	Î	1	1	UJ	·····i		·····i	······································	·····i	· · · · · · · · · · · · · · · · · · ·			·······
Vinyl chloride	4.68		ug/Kg	U	YES :	υJ	1	1			UJ	·····	i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·······		······:	·····i	····
Analysis Method : 8270D				[	Dilution	n: 1										5				
1,2,4-Trichlorobenzene	353		ug/Kg	U į	YES :		1	I	1	1		1	1		1				1	
1,2-Dichlorobenzene	353		ug/Kg	U	YES :		I	Ì	·····	1	······	1	········	. <b>:</b>	···	i	·····	<u>'</u> :	······!·	···
1,3-Dichlorobenzene	353		ид/Кд	U (	YES	1	i	ì	i i	·		i	······	·····i		\. 	·· <u>-</u>	<u>:</u>	·····.!	
4.4-Dichlorobenzene	353		ug/Kg	U	YES		1	·i		<u>-</u>						· · · · · · · · · · · · · · · · · · ·				

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 64 of 288

<sup>\*</sup> 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: E11-135-S2

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889006 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	t.ab Qual	Rep Res	Overall Qual*		нт	₩B	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D				•••••••	Diluti	on: 1							*************							
2,4,5-Trichlorophenol	353		ug/Kg	Ų	YES	:				1	Ì		l			•			ŀ	1
2,4,6-Trichlorophenol	353		ug/Kg	U	YES					1				·····	1				ĺ	I
2,4-Dichiorophenol	353		ug/Kg	U	YES		ı			1					i				1	1
2,4-Dimethylphenol	353		ug/Kg	U	YES		l								1					1
2,4-Dinitrotoluene	353		ug/Kg	υ	YES		[								1				i	i
2,6-Dinitrotoluene	353		ug/Kg	บ	YES										1		1		1	i
2-Chioronaphthalene	353		ug/Kg	U	YES								[		1		1		1	1
2-Chlorophenol	353		ug/Kg	U	YES		I										i		 	i
2-Methylnaphthalene	353		ug/Kg	U	YES		1										!: 		ì	
2-Methylphenol	353		ug/Kg	υ	YES										İ				<del>(</del>	i
2-Nitroaniline	353		ug/Kg	U	YES										i i				 	: 
2-Nitrophenol	353		ug/Kg	U	YES			]		1									I	i
3 and/or 4-Methylphenol	353		ug/Kg	U	YES		1	1	1											i I
3-Nitroaniline	353		ug/Kg	Ų	YES		·····					1							1	[ ]
4-Bromophenyl phenyl ether	353		ug/Kg	U	YES			1	1			1	]		1					i
4-Chloro-3-methylphenol	353		ug/Kg	U	YES		1	1	l		 			1	·i					í
4-Chloroaniline	353	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES	]	1	l	1	i					1		i i			1
4-Chlorophenyl phenyl ether	353		ug/Kg	U	YES	1	1	1	1	1		ì			i		ı			1
4-Nitroaniline	353		ид/Кд	U	YES		İ	Î	1				1				į			
4-Nitrophenol	353		ug/Kg	u	YES		· · · · · · · · · · · · · · · · · · ·	Î	ì				1	· · · · · · · · · · · · · · · · · · ·		·····i			· · · · · · · · · · · · · · · · · · ·	
Acenaphthene	353		ug/Kg	Ų	YES		·····i			i		1				· · · · · · · · · · · · · · · · · · ·				
Acenaphthylene	353		ug/Kg	υ	YES			1	1			1	1		1	I	ì			
Anthracene	353		ug/Kg	υ	YES		·····	1	1		· · · · · · · · · · · · · · · · · · ·	Î	i				Ì			· · · · · · · · · · · · · · · · · · ·
Benzo(a)anthracene	353		ug/Kg	U	YES	1	Ī	Î	<u>-</u>			·······			i	i	1			
Senzo(a)pyrene	353		ug/Kg	U	YES			î	1	 Î	1	1			······	1				
Benzo(b)fluoranthene	353		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	ì	1	1										

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53 \* 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 65 of 288

Client Sample ID: E11-135-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101889006

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quaf		Overall Qual*		нт	мв	LCS	MS	i.ab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	ICV	CCV
Analysis Method : 8270D					Dilutio	n: 1														
Benzo(g,h,i)perylene	353		ug/Kg	Ų	YES		i		1		}			i	1		1 1		ī	1
Benzo(k)fluoranthene	353		ug/Kg	υ	YES				1	 	<u>.</u>			<u>'</u> }	!! 		!! 		<u>.</u>	1 1
Bis(2-Chloroethoxy)methane	353		ug/Kg	U	YES							) 			1 /		ا ا		/ 	1
Bis(2-Chloroethyl)ether	353		ug/Kg	υ	YES		1				i I				!i		:i		: I	1
Bis(2-Chloroisopropyf)ether	353		ug/Kg	U	YES		1								i 				 	·
Bis(2-Ethylhexyl)phthalate	353		ug/Kg	U	YES	(			i					••••	!		!i		 I	<u></u>
Bulyl benzyl phthalate	353		ug/Kg	U	YES		1							••	!i !				! 	1
Chrysene	353		ид/Кд	U	YES		i			• • • • • • • • • • • • • • • • • • • •	:: 				 				! !	1
Oibenz(a,h)anthracene	353		ug/Kg	U	YES			· · · · · · · · · · · · · · · · · · ·					'۔۔۔۔۔۔ ا						! !	
Dibenzofuran	353		ug/Kg	U	YES	i	·····:				í								! !	!
Diethyl phihalale	353	1	ug/Kg	U	YES	i													! [	!
Dimethyl phthalate	353		ug/Kg	U	YES	 	i. I					····							! I	¦ <i>-</i>
Di-n-butyl phthalate	353		ug/Kg	Ų	YES		<i>i</i> -		······	ن ا		····-i		! ا			·	•••••	! 	<u>.</u>
Di-n-octyl phlhalate	353		ug/Kg	U	YES	·······	·····i	·····	·i		<u>:</u> 	······		<u>!</u> !		! !		• • • • • • • • • • • • • • • • • • • •	 !	! !
Fluoranthene	353		ug/Kg	U	YES			1	·i				·	· · · · · · · · · · · · · · · · · · ·	!-	!! I		• • • • • • •		i t
Fluorene	353		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	<u>'</u>	······		<del>-</del>		<u>-</u> '							
Hevachinrobenzene	353		ug/Kg	U	YEC		····i	·····:	·····i			·····:	!.	·····i						· · · · · · · · ·
Hexachlorobutadiene	353		ug/Kg	υ	YES:		····i	······································		<i>!</i>				! 		!		/		! f
Hexachtorocyclopentadiene	353	······	ug/Kg	U	YES		·············		····-:			·············						!		
-lexachloroethane	353		ug/Kg	U	YES			<del>-</del>						!				!	!	
ndeno(1,2,3-cd)pyrene	353		ug/Kg	U	YES	·····i		<u>.</u> .	·····-:			!.	.ن				····		!	
sophorone	353		ug/Kg	υ	YES			····	 1			!		!	!.	!			!	
vaphthalene	353		ug/Kg	U	YES	·····i		· · · · · · · · · · · · · · · · · · ·		!. 1			1	!	!	!		!! 1	!	
litrobenzene	353	*********	ug/Kg		YES			<u>.</u>			<del></del>			!			<u>-</u>			
-Nitrosodi-n-propylamine	353		ug/Kg		YES				<u>.</u> .	ا	!.			!.					!	
entachlorophenol	353		⊔g/Kg		YES:	UJ !	!		··· <del> </del>	UJ	·····						·			

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 66 of 288

• 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 : E11-135-S2

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889006

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	MB	LCS	MS	Leb Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Типе	ic	ICV	CCV CCV
Analysis Method : 8270D					Diluti	on: 1														
Phenanthrene	353		ug/Kg	U	YES				1	ļ		J								
Phenol	353		ug/Kg	U	YES	:				†										1
Pyrene	353		ug/Kg	U	YES					1			]		1				1	

Project Number and Name:

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

Library Used: C

CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 67 of 288

\* 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

5/70

Client Sample ID : E11-135-S3
Sample Date : 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101889009

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Tome	HŦ	MB	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tues	10	ICV	CVI
Analysis Method : 6010C	Nosun	LIIVI	Office		Dilutio		resip		SAIST	LUO	mo	ngh	Surr	Limit	FOUDIS	QC	Tune	IC	IUV	ccv
Arsenic	3.08		mg/kg		YES					1				;			4 1			1
Barium	88.9	<u> </u>	mg/kg		YES		!		! i	!		! <b></b>			ļ		!!		!	ļ
Cadmium	0.778	<u> </u>	mg/kg		YES		: <u>!</u>		!	! I	! i		! !	ļ 1	!!		!		ļ	<u>!</u>
Chromium	5.62		mg/kg		YES	<u></u>			! <u>.</u>	! !	! !	[	l	<u> </u>	<u> </u>		ţ		!	!
Lead	11.8		mg/kg		YES		!		! !	! !	! !	ļ <u>v</u>	! !	[ 	<u></u>		ļ	• • • • • • • • • • • • • • • • • • • •		<u>!</u>
Selenium	0.537		mg/kg		YES		!			! 		ł :		<u> </u> 	ļ					<u>!</u>
Silver	1.04		mg/kg	U	YES		!!		[,		!	: :		!	ļ!	•••••	!			ļ
Analysis Method : 7471B		! <del>-</del>			Dilutio	m: 1	!!			!	·				!		!			i
Mercury	0.0204		mg/kg	υ	YES		1			·····		I			I I		I I			1
Analysis Method : 8081					Dilutio		!			!		!!			!		!	!	اا	1
4,4'-DDD	11.4	i :	ug/Kg	U :	YES								UJ I		1 f		l i		1	
4,4'-DDD	11.4		ug/Kg	U	YES			'' ا	•	'i 			UJ							! !
4,4+DDE	13.4		ug/Kg	υ	YES		! 	' ا		·			UJ		!: 	'۔ ۔ ۔ ۔ ۔ ۔ ۔ ا		ا ا		
4,4'-DDE	11.4		ug/Kg	U	YES			i	ن ا				UJ		!			ارا ا	!	
4,4'-DDT	11.4		ug/Kg	U	YES :			·i	ئر ا	'۔۔۔۔۔۔۔ ا		\	ບປ						! ا	
4,4'-DDT	11.4	*	ug/Kg	U	YES	UJ	!	·/	ر ا	اا ا			UJ I		 	!		!	!	
Aldrin	11.4	·····	υα/Κα	U	YES	IJ	<del>-</del>	i	······i	<u>:</u>		؛ا ا	0.1			!		ئے۔ ا	····!	
Aldrin	11.4		ug/Kg	U	YES	LU	<u>:</u> .	·i		<i>!</i>		····	UJ	i				! 		
a(pha-BHC	11.4		ug/Kg	U	YES	UJ	·········	·i	·i	: j		· <u>'</u>	UJ			! 			·i	
alpha-BHC	11.4		ug/Kg	U	YES	UJ	<u>í</u> -		i			:i i	UJ					ئــــــــــــــــــــــــــــــــــــ	····	
alpha-Chlordane	11.4		ug/Kg	U	YES	IJ	<u>i</u> -	i	·i	······	i	i	UJ					'' !	······!	• • • • • • • • • • • • • • • • • • • •
alpha-Chlordane	11.4		ид/Кд	U	YES	UJ	·····i		·····	 	··	i	ี ซม			·		····		• • • • • • • • • • • • • • • • • • • •
beta-BHC	11.4		ug/Kg	U	YES:	υJ	i- İ	<del>-</del>	······		·i	i	UJ						!	
bela-BHC	11.4		ug/Kg	U	YES	UJ	<del> </del>	<u>-</u> i		···	   		UJ !	· <u>¦</u>	<u>í</u> -	<u>'</u>	·····-		! 	
Chlordane	38.1	·····	ug/Kg	· v	YES :	uJ	<u>-</u>	······	••••• <u>•</u>	······	ن ا		· UJ {	· <u>}</u>	!- 	·i			·······!	
Chlordane	38.1		ug/Kg	v	YES	UJ	··· <u>-</u>	<u>†</u>	<u>:</u>	·¦	· · · · · · · · · · · · · · · · · · ·	<del>-</del>	UJ	·:		l			!	
delta-BHC	11.4		ug/Kg	U	YES:	UJ	·	···	<u>'</u>		i		UJ I			¦	····			

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 68 of 288

<sup>\*</sup> 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: E11-135-S3 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Lab ID : SGSW

Lab Sample ID: 31101889009

Analysis Type: RES

Sample Matrix: SO

		Uncertainty/	Result	Lab		Overall						Lab		Rep			*****	***************************************		CV/
Analyte Name	Result	Error	Units	Quai	Res	Quat*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	TotDis	QC	Tune	IC	icv	ccv
Analysis Method : 8081					Dilutio										~~~~~~~~					
delta-BHC	11.4		ug/Kg	U	YES					<u> </u>	<u></u>	Ĺ,	ប្រ	<u> </u>	1		<u>[</u>		J	
Dieldrin	11.4		ug/Kg	U	YES	υJ	<u> </u>			<u> </u>	<u> , . , , , , , , , , , , , , , ,</u>	l	ŲJ	<u>ļ</u>	<u>                                     </u>		ļ		<u> </u>	1
Dieldrin	11.4		ug/Kg	U	YES	UJ	1		<u></u>	1	<u> </u>	l <i></i>	UJ	<u> </u>	1				1	1
Endosulfan i	11.4		ug/Kg	u	YES	លរ				l			UJ	1	[				1	
Endosulian I	11.4	<u> </u>	ug/Kg	U	YES	IJ	<u> </u>	زا		[			UJ	1						
Endosullan II	11.4	1	ug/Kg	υ	YES	บง	l						UJ	]		*******				
Endosulfan II	11.4		ug/Kg	U	YES	UJ							UJ	}					1	1
Endosulfan sulfate	11.4		ug/Kg	U	YES	ŲJ							IJ		!				1	1
Endosulfan sulfale	11.4		ug/Kg	U	YES	UJ		1					UJ		1					1
Endrin	11.4		ug/Kg	U	YES	UJ	1						UJ		1 (				 	
Endrin	11.4		ug/Kg	U	YES	UJ		]					UJ		ļ [				i	1
Endrin aldehyde	11.4		ug/Kg	U	YES	กา	]	1					បរ		1				 	i
Endrin aldehyde	11.4		ug/Kg	U	YES	UJ	i						IJ	· · · · · · · · · · · ·	i	i			i	i
Endrin ketone	11.4		ug/Kg	U	YES	UJ	[	1					W				i		: 	i
Endrin ketone	11.4		ug/Kg	U	YES	UJ	1	1			i		UJ						/	: [
gamma-BHC (Lindane)	11.4		ug/Kg	U	YES	IJ	<del>-</del> -			i	-,i 		UJ			·:				i
gamma-BHC (Lindane)	11.4		ug/Kg	U	YES	UJ		ì		i	,: J	1	UJ		i	· · · · · · · · · · · · · · · · · · ·				1
gamma-Chlordane	11.4	1	ug/Kg	U	YES	IJ	·····i	1				1	UJ		]	······i				l
garrima-Chlordane	11.4		ug/Kg	U	YES	UJ	i.		1	·······			UJ			· · · · · · · · · · · · · · · · · · ·			i	/
Heplachlor	11.4		ug/Kg	U	YES	UJ	·····i	i	·····i			1	υJ	······		·····:				
Heplachior	11.4		ug/Kg	υ	YES	UJ :	·· ···i	1	······			· · · · · · · · · · · · · · · · · · ·	UJ I	·		·····i				:
leplachlor epoxide	11.4		υg/Kg	U ;	YES	IJ	············					· · · · · · · · · · · · · · · · · · ·	UJ			·····:				
leptachlor epoxide	11.4	•••••••	ug/Kg	- U	YES	UJ	···· · · ·	····· ··ˈ			i	· · · · · · · · · · · · · · · · · · ·	UJ	! I			<u>^</u>			
Methoxychlor	11.4		ug/Kg	υ ;	YES	UJ .			 1	!			UJ			اا			!  !	
Aethoxychior	11.4		ug/Kg	U	YES	UJ .					!		UJ	!		!			!	
oxaphene	38.1		ug/Kg		YES	UJ		<u>-</u>	!			<u>.</u>	UJ			!				

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 69 of 288

<sup>\*</sup> 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 : E11-135-S3 Sample Date : 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101889009

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overa Qual		нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CC/
Analysis Method : 8081					Difuti	on:1						···								
Toxaphene	38.1	:	ug/Kg	Ų	YES	UJ			1		}	 	UJ	1	1		1 1		i	1
Analysis Method : 8151					Diluti	on: 1							.`		1				·	.1
2,4,5-T	0.0189		mg/kg	U	YES	;	i			Ï	i	į	i					***************************************	Ī	1
2,4,5-TP (Silvex)	0.0189		mg/kg	IJ	YES		1		[	1	1		i		l i		i		1	1
2,4-D	0.0189		mg/kg	U	YES		1		1	1		· · · · · · · · · · · · · · · · · · ·	:				i		 I	!'
2,4-08	0.0189		mg/kg	U	YES				1	1		:	:	` 	i		i		1	1
Dicamba	0.0189		mg/kg	Ü	YES		! !		·			: 	` 		i		!! 		/ I	
Analysis Method : 8260B					Diluti	on; 1			·					•••	·	<i>-</i>	1			·
1,1,1,2-Tetrachloroethane	5,08		ug/Kg	υ	YES		1		1				1		}				1	1 !
1,1,1-Trichloroethane	5.08		ug/Kg	U	YES		1 1						l		1		ii		 I	
1,1,2,2-Tetrachloroethane	5.08		ug/Kg	U	YES		i 1								i i				<u>.</u>	
1,1,2-Trichloroethane	5.08		ug/Kg	U	YES		1						i		ii		····		 I	
1,1-Dichtoroethane	5.08		ид/Кд	U	YES	UJ				UJ			/ 		1				! 	!! !
1,1-Dichloroethene	5.08		ug/Kg	U	YEG	UJ	1			UJ	:ن ا	······i		'			·		¦ I	! 
1,1-Dichloropropene	5.08		ид/Кд	υ	YES			1					1	· · · · · · · · · · · · · · · · · · ·					! !	!! !
1,2,3-Trichlorobenzene	5.08		ug/Kg	U	YES				` 		······	: 		·:		· · · · · · · · · · · · · · · · · · ·	······i		! 	!! !
1,2,3-Trichloropropane	5.08		ug/Kg	u (	YFS		i i		·i	i	······i	·i	·:							1 1
1,2,4-Trichlorobenzene	5.08		ug/Kg	U	YES	*	i .	1	i			······i	· · · · · · · · · · · · · · · · · · ·	i I	<del>i</del> -	· · · · · · · · ·				·
1,2,4-Trimelhylbenzene	5.08		ug/Kg	U	YES		i	······		i	·i	i		··i						
1,2-Dibromo-3-chloropropane	30.5		ug/Kg	U	YES			ì			·i			·i					 !	i
1,2-Dibromoethane	5.08		ug/Kg	U	YES		ii	ì			<del>:</del>			·i						·
1,2-Dichlorobenzene	5.08		ug/Kg	V	YES		i		·····		·i	······	·····i							
,2-Dichloroelhane	5.08		ug/Kg	U	YES		i	<del>-</del>			·\	······i	<del>'</del> i	1						
I,2-Dichloropropane	5.08		ug/Kg	v	YES		· · · · · · i	·······	<u>-</u>	i	··i	····:		!				ا	!	
I,3,5-Trimethylbenzene	5.08		ug/Kg	U	YES		1	·····	······	<u>'</u> ,		···			•••••••°		·	! !	!	·····
,3-Dichlorobenzene	5,08		ug/Kg	U	YES		<u>!</u> -	<u>'</u> i							<u>!</u>	!			!	
,3-Dichloropropane	5.08		ug/Kg	U :	YES							٠٠٠٠٠٠٠	ا					اا		

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 70 of 288

<sup>\*</sup> 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: E11-135-S3 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Lab Sample ID: 31101889009

Sample Matrix: SO

Reviewed By / Date :							App	rovec	By /	Date	:									
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CV/
Analysis Method : 8260B					Diluti	on: 1														
1,4-Dichlorobenzene	5.08	:	ug/Kg	U	YES	:			1	1	Ī		1	i	1		1			1
2,2-Dichloropropane	5.08		ug/Kg	U	YES					1	1		1						 	Ì
2-Bulanone	25.4		ug/Kg	U	YES									1	[ ]			: 	: 	i
2-Chlorolojuene	5.08	,	ug/Kg	U	YES	:			1				1	•	1				i	1
2-Hexanone	12.7		ид/Кд	Ų	YES	:	1			1	1		1							1
4-Chiorotoluene	5.08		ид/Кд	Ų	YES					l	i	[						 	 	i
4-Isopropyltoluene	5.08		ug/Kg	Ü	YES					1				]					: 	i
4-Methyl-2-pentanone	12.7		ug/Kg	U	YES		1										 	<b>`~~~~</b>	: 	i
Acetone	50.8		ug/Kg	Ų	YES	UJ				UJ			i						: 	i
Benzene	5.08		ug/Kg	υ	YES								 							1
Bromobenzene	5.08		ug/Kg	U	YES		1								 		i		 	i
Bromochloromelhane	5.08		ug/Kg	υ	YES	,					1									1
Bromodichloromethane	5.08		ug/Kg	U	YES			1	• • • • • • • • •											1
Bromoform	5.08		ug/Kg	υ	YES		1	1					i i		1		······			i 
Bromomethane	5.08		ug/Kg	U	YES	Í	]													i
Carbon disulfide	5.08		ug/Kg	U	YES	IJ	1	1		UJ										i I
Carbon telrachloride	5 08		ug/Kg	U	YES		1	1							1					i
Chlorobenzene	5.08		ug/Kg	U	YES		1	1						ĺ		i				1
Chloroethane	5.08	1	ug/Kg	U	YES	1	1	1									1			1
Chloroform	5.08	;	ug/Kg	U	YES	1	1	1	1	i	i i	ĺ		1	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · ·	1			
Chloromethane	5.08		ug/Kg	U	YES	ļ					1	1		1	1	· · · · · · · · · · · · · · · · · · ·	i		· · · · · · · · · · · · · · · · · · ·	i
is-1,2-Dichloroethene	5.08		ug/Kg	V	YES [			1			1			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	i	ì		· · · · · · · i	i
is-1,3-Dichloropropene	5.08		ug/Kg	U	YES	1	-	1	1			1		· · · · · · · · · · · · · · · · · · ·	i	i	·····	i	· · · · · · · · · · · · · · · · · · ·	1
Dibromochloromethane	5.08		ug/Kg	U	YES		1	1	<u>-</u>	i		· · · · · · · i	}	i	<u>:</u>	·····i	i			
Dibromomelhane	5.08		ug/Kg	U ;	YES	/	1	Ī			}	· · · · · · · · · · · · · · · · · · ·	1		·····i		······i		·····i	
Dichlorodifluoromethane	5.08		ug/Kg	U	YES		1	1	1	i		1	1	········		:i	i	ا	·······!	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 71 of 288

<sup>·</sup> 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 : E11-135-S3

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889009

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal	l Temp	нт	МВ	LCS	uc	í,ab	٠	Rep	Moist		_			CV/
Analysis Method : 8260B		11104	Ullita	- Wuai	Dilutio		16tilb	п;	MID	LUS	MS	Dup	Surr	Limit	ToUDis	QC	Tune	IC	ICA	CCV
Ethyl Benzene	; 5,08		ug/Kg	U	YES		:		1											
Hexachlorobutadiene	5.08		ug/Kg		YES						ļ	ļ	!	<u> </u>	ļi		!		ļ	ļ
Isopropy/benzene (Cumene)	5.08		ug/Kg		YES						<u>!</u>		] 						ļ	ļ
m,p-Xylene	10.2		, - , , , , , , , , , , , , , ,						<u> </u>		ļ		ļ						ļ	ļ
Melhyl iodide	5.08	• • • • • • • • • • • • • • • • • • • •	ид/Кд	u	YES		<u> </u>						<u> </u>				ļ		ļ	ļ
	. (		ug/Kg	U	YES				ļ				<u> </u> 		! <u></u>		ļl			1
Methylene chloride	1.22		ug/Kg	J	YES	J	ļ		ļ	J			ļ		!				<u> </u>	<u> </u>
Naphthalene	5.08		ug/Kg	u j	YES		<u> </u>								<u> </u>				<u> </u>	ļ
n-Bulylbenzene	5.08		ug/Kg	<u>u</u>	YES		<u> </u>			<b>-</b>			<u> </u>						<u>                                     </u>	l
n-Propylbenzene	5.08		ug/Kg	U	YES		<u> </u>		l				<u> </u>				<u> </u>			l
o-Xylene	5.08		ug/Kg	U	YES		<u> </u>		<u> </u>						!					1
sec-Bulyibenzene	5.08	i	ug/Kg	U	YES				[]						[ [		į			]
Slyrene	5.08	<u>j</u>	ug/Kg	υ	YES				l		i	- 1					[			
tert-Butyl methyl ether (MTBE)	5.08		ug/Kg	U	YES	UJ				UJ					}		1		i i	
tert-Bulylbenzene	5.08	i	ug/Kg	U	YES :		[				1	[				<u>.</u>	1			*******
Tetrachloroelhene	5.08	į	ug/Kg	U	YES					i		1			1		1			
Toluene	5.08	-	ug/Kg	U	YES				ĺ			1		: 		·i	····			
trans-1,2-Dichloroethene	5.08	:	ua/Ka	U	YES	LU	1		········	IJ.I		i			· · · · · · · · i	·····i	·····			
Irans-1,3-Dichloropropene	5.08	}	ug/Kg	u :	YES				·······		i	i				····i	ئ ا		·····i	
rans-1,4-Dichloro-2-butene	25.4	1	ug/Kg	U	YES		1			· · · · · · · · i	· · · · · · · · · · · · · · · · · · ·	·····i	′			······:	·····	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Trichloroelhene	5.08		ug/Kg	υ	YES:		·i	·······	·····i		·······!	! 		····-i				!	·····'	
Frichforofluoromelhane	5.08		ug/Kg	U	YES			······ '	·····					····::					!	
/inyl chloride	5.08		ug/Kg	U	YES		····i	<u>'</u>	···· ··· :		·······	! I					· · · · · · · · · · · · · · · · · · ·		!	
Analysis Method : 8270D				٠	Dilutio		!.				!			!					!	
1,2,4-Trichlorobenzene	370		ug/Kg		YES	::::::::::::::::::::::::::::::::::::::	1	ı		1		1		····	1	· · · · · · · · · · · · · · · · · · ·	;	<u>l</u>	i	
,2-Dichlorobenzene	370		ug/Kg		YES	!	¦.		·			!	٠	!				<u>!</u>	<u>!</u> .	
1,3-Dichlorobenzene	370		ug/Kg	· <del>'</del> - ·	YES:	· · · · · · · · · · · · · · · · · · ·				!		·		[			····			
,4-Dichlorobenzene	370		ug/Kg		YES					}										

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 72 of 288

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

Client Sample ID : E11-135-S3

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW Sample Matrix : SO

Sample Date : 07/16/2011

Lab Sample ID: 31101889009

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overali Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	iC	ICV	CV/ CCV
Analysis Method: 8270D	/./				Dilutio	n: 1														
2,4,5-Trichlorophenol	370		ug/Kg	U	YES	~	ì		i		 		1	ĺ	1 1		1 1			
2,4,6-Trichlorophenol	370		ug/Kg	U	YES							: !	<b></b> 	: <i></i>	!i 		1		! I	! 
2,4-Dichlorophenol	370		ug/Kg	U	YES				1				:		!! I i		!' 		! I	! !
2,4-Dimethylphenol	370		ug/Kg	U	YES				i				:		!! 		! 		!! 	: I
2,4-Dinitrateluene	370		ug/Kg	U	YES				1				: 			•••••	i		 	: I
2,6-Dinitrololuene	370		ug/Kg	U	YES		]		· · · · · · ·	i					! !		!: 			! 
2-Chloronaphthalene	370		ug/Kg	υ	YES		······					· · · · · · · · ·					!			/ 
2-Chlorophenol	370		ug/Kg	U	YES		<u>!</u>						i				!		\	:
2-Methylnaphthatene	370	;	ug/Kg	υ	YES					···	i	؛ا ا					!! 			: !
2-Methylphenol	370		ug/Kg	U	YES		1	 		 [	 						l		·!	
2-Nitroaniline	370	1	ug/Kg	U	YES						1	1	:i 	: [	:i		i		······!	
2-Nitrophenol	370		ug/Kg	U	YES		1		1		 I		نا ا	<u>'</u>			!		!	
3 and/or 4-Methylphenol	370		ug/Kg	U	YES			 ا	ا			\ I							!	
3-Nitroaniline	370		ug/Kg	U	YES		1		ĺ		·i			<del>:</del>	<u> </u>	!		<u>-</u> -		
4-Bromophenyl phenyl ether	370		ug/Kg	U	YES	1		ĺ		}		i		·: 	···		 ا	'ا		
4-Chloro-3-methylphenol	370	1	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	Ì	Ì		·····	<u>-</u>		· <i>·</i> 1	<u>'</u> -	·····!		! !	!	!
4-Chioroaniline	370		ug/Kg	U	YES		1		· · · · · · · · · · · · · · · · · · ·					·······'		····	······	! 1		
4-Chlorophenyl phenyl ether	370		ug/Kg	U ;	YES			1	······································	1		·····i	i.	····	i-	······i		! 		
4-Nitroaniline	370		ug/Kg	U	YES		i	ĺ	· · · · · · · · · · · · · · · · · · ·	i i		······i	·····;	i				······	!	
4-Nitrophenol	370		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·····i	Î	······i			····-i	·····:	·····i	• • • • • • • • • • • • • • • • • • • •	······!	·····			!
Acenaphthene	370		ug/Kg	U	YES		·····i	i	·····		í	·····:		·····i					!. I	
Acenaphthylene	370	1	ug/Kg	U	YES		i	ì	·····i	·····;	1	·····::	· · · · · · · · · · · · · · · · · · ·	······!		!		···· · · · · · · · · · · · · · · · · ·	·····!	
Anthracene	370		ug/Kg	u	YES :		·····	ij	······				· · · · · · · · · · · · · · · · · · ·	!.	· · · · · · · · · · · · · · · · · · ·	······!			!.	
Benzo(a)anthracene	370		ug/Kg	v	YES	i	i-	<u>·</u>	<u>'</u> -	i	i	·····		!.				!		
Benzo(a)pyrene	370		ug/Kg	U .	YES	····· .	·····i	· · · · · · · · · · · · · · · · · · ·	·····	<u>}</u>	· · · · · · · · · · · · · · · · · · ·	····		····		· · · · · · · · · · · · · · · · · · ·				!
Benzo(b)fluoranthene	370		ug/Kg	U	YES	····· i	····i		·····					· · · · · · · · · · · · · · · · · · ·		··· : : : : : : : : : : : : : : : : :				

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 73 of 288

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: E11-135-S3

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889009

Reviewed By / Date:

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	НΥ	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8270D					Dilutio	on: 1	*********	~												
Benzo(g,h,i)perylene	370		ug/Kg	υ	YES					1		i	<u> </u>		1					
Benzo(k)fluoranthene	370		ug/Kg	U	YES					1							1		 	i
Bis(2-Chloroethoxy)methane	370		ug/Kg	U	YES					1	1		 							i
Bis(2-Chlaroethyf)ether	370		ug/Kg	U	YES				1		ļ				1					1
Bis(2-Chlorolsopropyl)ether	370		ug/Kg	U	YES										1					l
Bis(2-Ethylhexyl)phthalate	370		ug/Kg	U	YES	1														i
Bulyl benzyl phthalate	370		ug/Kg	U	YES	1	1								l l		1			
Chrysene	370	,	ug/Kg	U	YES	1	<u> </u>		 		1				1		1			
Dibenz(a,h)anthracene	370		ug/Kg	U	YES									.,						
Dibenzofuran	370		ug/Kg	U	YES										1					1
Diethyl phthalate	370		ug/Kg	U	YES				· · · · ·			1								1
Dimethyl phthalate	370		ug/Kg	ម	YES		I				<u> </u>							 		i
Di-n-butyl phthalate	370		ug/Kg	U	YES :	1	1								1		1			i
Di-n-octyl phthalate	370		ug/Kg	υ	YES							1	· · · · · · · · · · · · · · · · · · ·				1			
Fluoranthene	370		ug/Kg	U	YES		1				1					1				
Fluorene	370		ug/Kg	U	YES		1				1					Ì				
Hexachlorobenzene	370	:	ug/Kg	U	YES		1					1				i	·····	1		
Hexachlorobuladiene	370		ug/Kg	U	YES				I			i	1		1		1	1		
Hexachlorocyclopentadiene	370	;	ug/Kg	U	YES				1		,	-	1	1		1			1	
Hexachloroethane	370		ид/Кд	U	YES	1	1						)			Ì	i	Ï	1	· · · · · · · ·
Indeno(1,2,3-cd)pyrene	370		ug/Kg	V	YES		1	1		,		1	1	]	1	1	1	1	1	
Isophorone	370		ug/Kg	U	YES		1	1	]	1		1		1	· · · · · · · · · · · · · · · · · · ·	1	,	1		- 1
Naphthalene	370	;	ug/Kg	U	YES :		1		1		į	1		1		ì		1	······	
Nitrobenzene	370		ug/Kg	υ	YES		·····i	]		i	·····	1	1			·····i			1	
n-Nitrosodi-n-propylamine	370	1	ug/Kg	U	YES	· /	I	1		ì	· · · · · · · ·	1			1	Ì		Î		i i
Pentachlorophenol	370	1	ug/Kg	U	YES :	UJ	1	1	1	UJ	1	1		1	1	·····i		1	f	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53 \* 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 74 of 288

Client Sample ID: E11-135-S3

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889009 Analysis Type: RES

Sample Matrix : SO

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 Đup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	ic	icv	CCV
Analysis Method: 8270D					Diluti	on: 1										///				
Phenanthrene	370		ug/Kg	U	YES	:		1 1		1					l i		[ _ 1		1	
Phenol	370		ug/Kg	U	YES						,		]		1 1		1 1		i	1
Ругеле	370		ug/Kg	U	YES	:							F				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 09:53

Page 75 of 288

\* 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: E11-135-S4

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889010 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

		Uncertainty /	Result	Lab		Overall						Lab		Rep	Moist					CV/
Analyte Name	Result	Error	Units	Quai		Quai*	Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	IC	ICV	CCV
Analysis Method : 6010C					Dilutio	n: 1													******	
Arsenic	1.84		mg/kg		YES	j	<u> </u>	l	l	<u> </u>	J	J	<u> </u>		<u>                                     </u>		l)			1
Barium	84.0		mg/kg		YES			:	[	l	<u> </u>	1	1		l i					]
Cadmium	0.704		mg/kg		YES	U			U			1		ĺ						
Chromium	4,19		mg/kg		YES	J	i 1		l		į	J	1							
Lead	6.41		mg/kg		YES	J	i i		[		J				1				[	l
Selenium	2.05		mg/kg	U	YES										1					l
Silver	1.03		mg/kg	υ	YES								1		[ [					1
Analysis Method : 7471B		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Dilutio	n: 1														*******
Mercury	0.0212		mg/kg	Ų	YES										l i		1			1
Analysis Method : 8081					Dilutio	n:1							`							f
4.4'-DDD	11.4		ug/Kg	U	YES															1
4,4'-DDD	11.4		ид/Кд	U	YES		1		·		i				!		1			í Í
4,4'-DDE	11.4		ug/Kg	υ	YES										1		i			:
4,4'-DDE	11.4		ug/Kg	U	YES		1								· · · · · · · · · · · · · · · · · · ·					: 
4,4'-DDT	11.4		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·			1				i	i						i
4,4'-DDT	11.4		ug/Kg	U	YES :	i	· · · · · · · · ·	1			1				]		·······			i
Aldrin	11.4		ug/Kg	u	YES:		i					 					·i	i		i
Aldrin	11.4		ug/Kg	U	YES		i		1		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	i		·····		·······'	i
alpha-BHC	11.4		ug/Kg	U	YES		·	1	· · · · · · · · · · · · · · · · · · ·	·í	·i				i			ز ا	!	i
alpha-BHC	11.4		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·			·i		·i		1	· · · · · · · · · · · · · · · · · · ·		; i	······	'ا ا	!	i
alpha-Chlordane	11.4		ug/Kg	U	YES :		i. I		 1		·i		·: }	·i	<u>*</u> -	·····i		'' ا	······	: 
alpha-Chlordane	11.4		ug/Kg		YES	: ا	<u>:</u> -	··	·	·	! 	<u>'</u>		<u>f</u>	<u>-</u> '-	! ]	······	؛ا ا	!! 	
oela-BHC	11.4		ug/Kg		YES		<u>'</u> i	<u>'</u> i				······	······'				······	! 	· <u>-</u>	
peta-BHC	11.4		ug/Kg	*	YES :	 ا	<u>-</u> -	<u>'</u>				<u>:</u>		!		! 1	······	اا	·¦	
Chlordane	38.0		ug/Kg		YES			<u>'</u>				1		<u>.</u> .						
Chlordane	38.0	····	ug/Kg		YES											!		!		
Iella-BHC	11.4		ug/Kg		YES :				!					!		!		<del>.</del>		

Project Number and Name:

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

Library Used: CampCarroll

Report Dale: 9/6/2011 09:53

Page 76 of 288

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

Client Sample ID : E11-135-S4

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889010 Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*	Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Тиле	ic	icv	CCV CV1
Analysis Method : 8081					Dilutie	on: 1	,,,,,			•••••••										
della-BHC	11.4	:	ug/Kg	U	YES	. 1			 	1	}		1						····	
Dieldrin	11.4		ug/Kg	υ	YES	1				l		 		 [	i		i		 	<u>:</u>
Dieldrin	11.4		ug/Kg	U	YES									 	1					i
Endosulfan i	11.4		ug/Kg	U	YES	1				l	1		 		1					i
Endosulfan I	11.4		ug/Kg	U	YES					[		 					1		••••	: 
Endosulfan li	11.4		ug/Kg	U	YES			I							1		1		••••	i 
Endosulfan II	11.4		ug/Kg	U	YES		1	1							1					! 
Endosulfan sulfate	11.4		ug/Kg	U	YES	1	ĺ													: 
Endosulfan sulfate	11.4		ug/Kg	υ	YES						}						ii	i		i
Endrin	11.4	ļ	ug/Kg	U	YES						1							· · · · · · · · · i		
Endrin	11.4		ug/Kg	U	YES		1	1									· · · · · · · · · · · · · · · · · · ·	·····		i
Endrin aldehyde	11.4		ug/Kg	U	YES	I	1	1	1		1					i	·····	······	····	1
Endrin aldehyde	11,4		ug/Kg	U	YES	1	1	Ì		,			i		i	·i		······'	···i	
Endrin ketone	11.4	-	ug/Kg	ម	YES	· · · · · · · · · · · · · · · · · · ·		1			i	1				······i	·····		·····i	
Endrin kelone	11.4	:	ug/Kg	U	YES	1	i	1				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · ·	i	i	1	·i	· · · · · · · · · · · · · · · · · · ·	
gamma BHC (Lindane)	11.4		ug/Kg	υ	YES	1	ĺ	1				Ì	1					i	i	
gamma-BHC (Lindane)	11.4		ug/Kg	U	YES	1		1	1				1			1	i			
gamma-Chlordane	11.4		ug/Kg	U	YES		1	1	1			i			· · · · · · · · · · · · · · · · · · ·		1		·····i	
gamma-Chlordane	11.4		ug/Kg	V	YES	1	1	1	1	1	ì	i	1		· · · · · · · · · · · · · · · · · · ·	····i				
Heptachlor	11.4		ug/Kg	U	YES	1	· · · · · · · · · · · · · · · · · · ·	1			1	i		 	1		· · · · · · · · · · · · · · · · · · ·		!	
Heptachlor	11.4		ug/Kg	U	YES		1	1	1			1		· · · · · · · · · · · · · · · · · · ·		i	1		······i	
Heptachlor epoxide	11.4		ug/Kg	U	YES	1		Ĩ	ĺ	1	i	Ì	· · · · · · · · ·	1		i			i	···········
deptachlor epoxide	11.4	-	ид/Кд	U	YES	1	1	Î	1	i	i	1	]		1				·····i	! I
Methoxychlor	11.4	;	ug/Kg	U	YES		1		1			ì	i				·····	1		······i
Melhoxychlor	11.4		ид/Кд	U	YES	1	ĺ	Î		)		i		······		i i			······:	·····i
Foxaphene	38.0	1	ug/Kg	U	YES		1		1	:. I		·····i				i.	······			i

Project Number and Name:

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

Library Used: CampCarroll

.2

Report Date: 9/6/2011 09:53

Page 77 of 288

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 : E11-135-S4

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011 Lab Sample ID: 31101889010

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty I	Result	Lab		Overa						Lab		Rep	Moist	Field				CV/
Analysis Method : 8081	Result	Error	Units	Qual	* * - *		* Temp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	21	€CV	CCV
Toxaphene	: 38.0	;	ug/Kg	U	Diluti	on: 1	,			,		~~~~		******						
Analysis Method : 8151		i	ng/ng :		YES	<u> </u>		!	J	<u> </u>	<u> </u>	<u> </u>	l	<u> </u>			l			1
2.4.5-T	0.0183				Dituti	on: 1														
2,4,5-TP (Silvex)	0.0183		mg/kg mg/kg	U	YES		- <u> </u>		ļ	ļ		[	<u> </u>		<u> </u>		l		<u> </u>	<u> </u>
2,4'-D	0.0183			U		}			ļ	ļ		ļ	ļ		1		l		1	ļ
2,4-DB	0.0183		mg/kg	U	YES	<u> </u>				[			ļ	l	[]	!			<u> </u>	1
Dicamba	0.0183		mg/kg	U			.ļ ļ					ļ	ļ				l		<u> </u>	ļ
Analysis Method : 8260B		l	mg/kg		YES		.!!		l				l		Jl				<u> </u>	1
1,1,1,2-Tetrachloroethane	4.59	i			Dilutio	วก: 1		-							J				****	
***************************************	4.59		ug/Kg	Ų.	YES		.		<u></u>					ļ	<b></b>			,	<u> </u>	<u> </u>
1,1,1-Trichloroethane	4,59		ug/Kg	U ;	YES			!		j			<u>                                     </u>				!		<u> </u>	<u> </u>
1,1,2,2-Telrachloroethane	4.59	····	ug/Kg	U	YES						1		<u> </u>		]				<u>J</u> ,	1
1,1,2-Trichtoroethane 1,1-Dichtoroethane	-!		ug/Kg	U	YES		!						l						1	ļ
1,1-Dichloroethene	4.59		ug/Kg		YES					UJ										
	4.60		ug/Kg	U !	YES	UJ	<u> </u>			นม	!									
1,1-Dichloropropene	4.59	<del>-</del>	ug/Kg	• • • • • • • • • • • • • • • • • • • •	YES		<u> </u>			<u>í</u>		1								. 1
1,2,3-Trichlorobenzene	4.59		ug/Kg		YES		11		1								1			
1,2,3-Trichloropropane	4.59		нр/Кв		YES		<u> </u>				ļ		- 1			1				
1,2,4-Trichtorobenzene	4.59	<u>.</u>	ug/Kg	u	YES		<u>i                                     </u>	1				- 1			i		1			
1,2,4-Trimelhylbenzene	4.59		ug/Kg	U	YES						ļ		1	1	i					·i
1,2-Dibromo-3-chloropropane	27.5		ug/Kg	U	YES		( f		1			1		1		· · · · · · · · · · · · · · · · · · ·		•••••	i	·i
1,2-Dibromoethane	4.59		ug/Kg	U	YES			1	1	i	i	]		1	<i>-</i>	·				
1,2-Dichlorobenzene	4.59		ug/Kg	U	YES			1				i		1		i				
1,2-Dichloroelhane	4.59		ug/Kg	υ	YES		i i	1								<del>'</del> i	····		·····!	1
1,2-Dichloropropane	4.59		ug/Kg	υ	YES		1	ì	<u>-</u>	<del>:</del>	i.	·i		!\ 		\. I		', 1	! !	!
1,3,5-Trimethylbenzene	4.59		ug/Kg	U	YES		i	1		/-	····! 	· <del>-</del>	·•	!		!.		اا ا		
i,3-Dichlorobenzene	4.59		ug/Kg	U	YES		i	:\. 			<del>-</del>				· <del>¦</del> ··					
,3-Dichloropropane	4.59		ug/Kg	U :	YES:		1	·						!.	<del>-</del>		·,			

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 78 of 288

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 : E11-135-S4

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Lab Sample ID: 31101889010

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ic	ICV	CCV
Analysis Method : 8260B					Dilutio	n: 1									***************************************					
1,4-Dichlorobenzene	4.59		ug/Kg	Ų	YES		Ī						ŀ		1 :				[	
2,2-Dichloropropane	4.59		ug/Kg	U	YES		I								<u> </u>				1	
2-Butanone	22.9		ug/Kg	U	YES															
2-Chlorotoluene	4.59		ug/Kg	U	YES	1	1						j							
2-Hexanone	11.5		ug/Kg	υ	YES :								[		1					1
4-Chlorotoluene	4.59		ug/Kg	U	YES												1			1
4-Isopropytloluane	4.59		ug/Kg	U	YES						1									
4-Methyl-2-pentanone	11.5		ид/Кд	U	YES	!					}									
Acetone	45.9		ug/Kg	U	YES	UJ				เกา										
Benzene	4.59		ug/Kg	U	YES		1	(							1				ĺ	
Bromobenzene	4.59		ug/Kg	U	YES						1				ĺ		1			1
Bromochloromethane	4.59	Ì	ug/Kg	U	YES					i	ì		j							i
Bromodichloromethane	4.59		ug/Kg	ย	YES	ĺ				}	1				1					1
Bromoform	4.59	Ì	ug/Kg	U	YES						)									
Bromomelhane	4.59		ug/Kg	υ	YES :		1	1			ĺ			]						
Carbon disulfide	4.59		ug/Kg	ប	YES	UJ	1	1		UJ							i			
Carbon leirachloride	4.59		ug/Kg	U	YES		1	1	Ĭ		· · · · · · · · · · · · · · · · · · ·	]	i		1				Ì	
Chlorobenzene	4.59		ug/Kg	U	YES	1	1	]			1	1	1		· · · · · · · · · · · · · · · · · · ·		1		· · · · · · · · ·	
Chloroethane	4.59		ug/Kg	υ	YES	į	1	1	1					İ		-	1	1	1	
Chloroform	4,59		ид/Кд	U	YES			1	1	-	1					I		I	·····	
Chloromethane	4.59	;	ug/Kg	U	YES					ì		1		1	1				1	. 1
cis-1,2-Dichloroethene	4.59	1	ug/Kg	U	YES	1	. 1	1	1	1	1	1	į		ı	1	1		1	
cis-1,3-Dichtoropropene	4.59		ug/Kg	ម	YES		1	1				-				1		. 1	1	1
Dibromochloromethane	4.59		ug/Kg	U	YES ;					1						1			1	1
Dibromomelhane	4.59		ид/Кд	U	YES	1		1	1	1		Ì	1	1	}	1		1	l	i
Dichlorodifluoromelhane	4.59		ug/Kg	V	YES	1	ı	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 09:53

Page 79 of 288

<sup>\*</sup> 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 : E11-135-S4
Sample Date : 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101889010

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overali Qual*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	ic	ICV	CC /
Analysis Method : 8260B				*****	Diluti	on: 1														
Ethyl Benzene	4.59	<u> </u>	ug/Kg	Ų	YES		i 1		i		}	l			1 1				1	
Hexachlorobutadiene	4.59	:	ug/Kg	U	YES				·		i 	: <i>.</i>	: 	! 	!! 	••••	ii		 	!
Isopropylbenzene (Cumene)	4.59		ug/Kg	U	YES					1	]		:		/i		!! 		1 	i
m.p-Xylene	9.18		ug/Kg	υ	YES					· · · · · · · · · · · · · · · · · · ·			: 		i		 		/ }	! 
Methyl iodide	4.59		ug/Kg	U	YES					 					<u> </u>		i			<u>!</u>
Methylene chloride	1.51		ug/Kg	J	YES	J				J					i i		!		! I	! 
Naphthalene	4,59		ид/Кд	U	YES				••••						: 				! I	! 
n-Butylbenzene	4.59		ug/Kg	Ų	YES										(: 		<del>-</del>		 	: 
n-Propylbenzene	4.59		ug/Kg	U	YES										!: 		<u>-</u>			! 
o-Xylene	4.59		ug/Kg	U	YES ?			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·						<del>-</del>		!! 	! !
sec-Butylbenzene	4.59		ug/Kg	U	YES		1	 ا	i		i 					· <u>'</u>	<del>-</del>		1	! 
Styrene	4.59		ug/Kg	U	YES		1	i		······i	،۔۔۔۔۔ ا		· 			 ا				: I
lert-Bulyl methyl ether (MTSE)	4.59		ug/Kg	U	YES	UJ	i	<u>.</u>	·	UJ	 ا		! [	· · · · · · · · · · · i		i		- * *	!! 	
ted-Butylbenzene	4.59		ug/Kg	U	YES :		i	Ì	·i	······· !	:۔۔۔۔۔ ا	···		: ا		! 				
Tetrachloroethene	4.59		ug/Kg	U	YES	-		I		· · · · · · · · · · · · · · · · · · ·		i	نـ	<u>'</u>		······i				
Toluene	4.59		ug/Kg	U	YES		<u>.</u>	1			i	ì		·!		·i			1	
trans-1,2-Dichloroethene	4.59		ug/Kg	U	YES	IJ		1		U.I	·····i	1		· · · · · · · · · · · · · · · · · · ·	·····				······i	
Irans-1,3-Dichtoropropene	4.59	]	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1	1			·····i	·······	· · · · · · · · · · · · · · · · · · ·		·····:	······································		· · · · · · · · · · · · · · · · · · ·	
rans-1,4-Dichloro-2-butene	22.9		ug/Kg	U	YES		·····	ì	· · · · · · · · · · · · · · · · · · ·		·····i	··· ··· i				·············	······	······	·	
Trichloroethene	4.59		ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	ì	i i	······i		·······!		·····i		·····i	· · · · · · · · · · · · · · · · · · ·			
Trichlorofluoromethane	4.59		ug/Kg	U	YES		·······;.	ì		1		········					·····			
/inyl chloride	4.59		ug/Kg	U	YES			ì				i		····-i			·· ···	!	!	
Analysis Method : 8270D				1	Dilutio	n: 1													!	
,2,4-Trichlorobenzene	379		ug/Kg	U :	YES ;		I		-	1		]	<u>-</u>		1				1	
,2-Dichlorobenzene	379		ug/Kg	U	YES :	1	1	·····	····i					·i	<del>:</del> -				!	!
,3-Dichlorobenzene	379		ug/Kg	U	YES	1	1	· • · • · · · · · · · · · · · · · · · ·	<del>'</del> i	<i>i-</i>			·········	·		<u>:</u>	·····	·i	·!.	! I
,4-Dichlorobenzene	379	1	ug/Kg	U	YES			·····	· <i>',</i>	i				<u>'</u> .	· · · · · · · · · · · · · · · · · · ·	····		ئ.۔۔۔۔۔ ا		

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 80 of 288

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: E11-135-S4

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889010

Sample Matrix: SO

Reviewed By / Date:

Approved By / Date :

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	fC	ICV	CCV
Analysis Method : 8270D					Dilutio	on: 1														
2,4,5-Trichlorophenol	379	;	ug/Kg	Ų	YES				[				ï	i					1	i
2,4,6-Trichlorophenol	379		ug∕Kg	U ;	YES								: 		i		)	• • • • • • • • • • • • • • • • • • • •	<u>-</u> , 	! 
2,4-Dichlorophenol	379		ug/Kg	υ	YES		1						i				i		! 	¦
2,4-Dimethylphenol	379		ug/Kg	υ	YES		1										l		: 	: I
2,4-Dinitrolojuene	379		ug/Kg	U	YES														: ]	<u>:</u>
2,6-Dinitrololuene	379		ug/Kg	υ	YES						1					•••••			: 	! 
2-Chloronaphthalene	379		ug/Kg	U	YES	1					ì						 		:	! 
2-Chlorophenoi	379		ug/Kg	Ü	YES							· · · · · · · · ·							: 	: 
2-Methylnaphthalene	379		ug/Kg	Ų	YES	1	1			1	1	1								i
2-Methylphenol	379		ug/Kg	Ų	YES	1		1				1			1					i I
2-Nitroaniline	379		ид/Кд	U	YES					1		1	1				1			i
2-Nitrophenol	379		ug/Kg	U	YES			Ī			1		i	·í						 I
3 and/or 4-Methylphenol	379		ug/Kg	U	YES		-			ļ		Ī	1	· · · · · · · · · · · · · · · · · · ·						
3-Nitroaniline	379		ug/Kg	U	YES	1		1	1			1			·····		·····			
4-Bromophenyl phenyl ether	379	İ	ug/Kg	U	YES		1		1	]		1	1	<u>:</u>						
4-Chloro-3-methylphenol	379		ug/Kg	U	YES	-	Ï	1	i	}	}	 			i- 	·i	······			
4-Chloroaniline	379		ug/Kg	u	YES			1	1	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		·····		······i	·····'
4-Chlorophenyl phenyl ether	379	;	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·	1	1	·····		ì		ii	······i		·····÷	· · · · · · · · · · · · · · · · · · ·		······
4-Nitroaniline	379		ug/Kg	U	YES	1	I	1	1	·····i			· · · · · · · · · · · · · · · · · · ·	······'	· · · · · · · · · · · · · · · · · · ·	i			·····i	
4-Nitrophenol	379		ug/Kg	ប	YES :		1		1		1	i i	1			i	·····	······i	·······!	1
Acenaphthene	379		ug/Kg	U	YES	]		·····	1			· · · · · · · · · · · · · · · · · · ·	1	1	· · · · · · · · · · · · · · · · · · ·				······i	······i
Acenaphthylene	379	-	ug/Kg	υ	YES	i	1	Î	Î	·····		· · · · i	i.		· · · · · · · · · · · · · · · · · · ·	i	·····	· · · · · · · · · · · · · · · · · · ·	·······!	······:
Anthraceле	379	;	ug/Kg	U	YES	1	ĺ	1	Î	]	1	ΠÏ	i.	·····i			······· i	· ·····'i	······!	
Benzo(a)anthracene	379		ug/Kg	U	YES		·····i	i i	<u>^</u>			1	······································	·····i	·	<u>'</u>			l	! 
3enzo(a)pyrene	379	:	ug/Kg	U	YES		······	ì		1	i.		·····i		1	·····\			!	
Benzo(b)fluoranthene	379		ug/Kg	U	YES	}	i	Î	·····			1		·····:		· · · · · · · · · · · · · · · · · · ·			······!	······!

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 81 of 288

Client Sample ID: E11-135-S4 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Lab ID : SGSW

Lab Sample ID: 31101889010

Analysis Type: RES

Sample Matrix : SO

Reviewed By / Date:

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overati Qual*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis		Tune	íС	icv	CV/
Analysis Method : 8270D					Dilutio	n: 1												··········		
Benzo(g,h,i)perylene	379		ug/Kg	U	YES				1	1	!	·			1 1		1		1	
Senzo(k)fluoranlhene	379		ug/Kg	U	YES			 	·	/ 	: 	 		¦ 	! !		!! !		! I	! !
Bis(2-Chloroelhoxy)methane	379		ug/Kg	U	YES			/ 		 		l		/ 	!	•••••	!! [			! 1
Bis(2-Chloroethyl)ether	379		ug/Kg	U	YES	·		i	·	/ 		: '			! f	••••	!! 		<u> </u>	! !
Bis(2-Chloroisopropyl)ether	379		ug/Kg	U	YES	······		! !		! 	<del>:</del> I					•		• • • • • • • • • • • • • • • • • • • •	<u>.</u>	!
Bis(2-Ethylhexyl)phthalate	379		ид/Кд	U	YES	i		!	· · · · · · · · · · · · · · · · · · ·	' 	/ 			' !					<u> </u>	!
Butyl benzyl phthalate	379		ug/Kg	U	YES		·····	! 	 	' 	; ;	! 						<i>-</i>	1	!
Chrysene	379		ug/Kg	υ	YES					' <b></b>	/ 					••••				i •
Dibenz(a,h)anthracene	379		ug/Kg	U	YES						!									 
Dibenzofuran	379		ug/Kg	U	YES	1								!	!		·		! !	
Diethyl phthalate	379	;	ug/Kg	U	YES		· · · · · · · · · · · · · · · · · · ·		·i	••••			<del>/</del>		!.			• • • • • • • • • • • • • • • • • • • •		
Dimethyl phthalate	379		ug/Kg	U	YES		:: 	···············	·······	i		i	ئــــــــــــــــــــــــــــــــــــ	!		 1				
Di-n-butyl phthalate	379	7	ug/Kg	U	YES :	,	<u>:</u>		! I	ند ا	·i					! 				
Di-n-octyl phthalate	379		ug/Kg	U	YES :		······		·	: ا	<u>-</u>				···	!! !	٠			
Fluoranthene	379		ug/Kg	U	YES		···i	·······		ن إ	···:: 	1		!	•••••					
Fluorene	379		ug/Kg	Ų	YES				<u>:</u>	ئــــــــــــــــــــــــــــــــــــ	i		<del>,</del> ;	!			····			
Hexachlorobenzene	379		ug/Kg	U	YES	·····i		· · · · · · · · · · · · · · · · · · ·	<u>.</u>			····-i	·····				🛔			
Hexachlorobutadiene	379	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES			· · · · · · · · · · · · · · · · · · ·	·····:			····-::	· · · · · · · · · · · · · · · · · · ·				<u>.</u>			
Hexachlorocyclopentadiene	379	:	ug/Kg	U	YES	·i		i i	1									!	!	
Hexachloroethane	379	:	ug/Kg	U	YES		······i		······	·······	·····i	············				!		!	!	
ndeno(1,2,3-cd)pyrene	379		ug/Kg	υ	YES		· · · · · · · · · · · · · · · · · · ·	·····	': 	·····		····			!					
sophorone	379		ug/Kg	U	YES	1	·····i	·····	·····i		·····			· · · · · · · ! ·				!	!.	١
Vaphthalene	379		ug/Kg	υ	YES	·····i	· · · · · · · · · · · · · · · · · · ·			····· :		·····		····· !.		!		!		
Vitrobenzene	379		ug/Kg	U	YES	······································	<u>:</u> -	······	: Î						<del>:</del>		· <del>\</del>		!.	
n-Nitrosodi-n-propytamine	379		ug/Kg	υ	YES	i	······································	<del>:</del>	····-:::							!				
Pentachiorophenol	379		ug/Kg	U	YES	UJ	·······:	<u>^</u>	·····:	·····				· · · · · · · · · · · · · · · · · · ·					!.	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 82 of 288

Client Sample ID: E11-135-S4

Lab Report Batch: 31101889

Sample Date: 07/16/2011

Analysis Type: RE\$

Lab ID : SGSW

Sample Matrix : SO

Lab Sample ID: 31101889010 Reviewed By / Date :

Reviewed By / Date :							Арр	rove	i By /	Date :										
Analyte Name	Resuit	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	íC	icv	CV/
Analysis Method : 8270D					Diluti	on: 1			**/************************************				***************************************							
Phenanthrene	379		ug/Kg	Ų	YES				1	1	}				`				ī	<u> </u>
Phenoi	379		ug/Kg	Ų	YES	;			 [	<u>.</u>	 I	:		<u>'</u> 1	1		[		<u> </u>	
Pyrene	379		ид/Кд	U	YES	· · · · · · · · · ·			`` 	1	1			i	!		l		1	

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

Library Used:

CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 83 of 288

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 : E11-137-S1

Lab Report Batch: 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889011

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*	Temp	нт	MB	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis	Field				CV/
Analysis Method : 6010C			***************************************		Dilutio						mo	սար	Surr	Limit	100018	QC	Tune	ic	ICV	CCV
Arsenic	5.93		mg/kg		YES	J	ī	1	1	1	ل ا					<del></del>				
Barlum	96.6		mg/kg		YES	! <del></del>	1	! !	! !		ļ <u>.</u>		ļ		!!		ļ	ļ 	<u> </u>	
Cadmium	1.02		mg/kg		YES		<u>:</u> :	!	l	!	!		!		<u></u>		ļ		<u> </u>	.1
Chromium	3.22		mg/kg		YES		!! !				! 	ļ		*****					<u> </u>	.1
Lead	21.0	·	mg/kg	·····i	YES	<u>.</u>	<u></u>					J							<u> </u>	1
Selenium	0.480	<del>-</del>	mg/kg		YES						J							: 	<u> </u>	1
Silver	1.05		mg/kg	u :	YES			! <b></b>								!			<u> </u>	1
Analysis Method : 7471B					Dilutio		!		!			İ			1.	<u></u>			<u> </u>	<u> </u>
Mercury	0.00226		mg/kg		YES	1													*****	
Analysis Method : 8081	.:!				Dilutio	n:1	!			!		!				!			J	l
4,4'-DDD	10.2	· · · · · · · · · · · · · · · · · · ·	ug/Kg		YES :	111.1							~~							
4,4'-DDD	10.2	+	ug/Kg	• • • •	YES :	!۔۔۔۔۔ا	!			<u>ļ</u>			٠إ				<u> </u>		<u> </u>	[
4,4'-DDE	0.760	·	ug/Kg	••••	YES			<u> </u>		. <b></b>	<u>ļ</u>	!	ļ		l.				I	l
4,4'-DDE	0.760	********	ug/Kg		YES					···	!		!			1	í	i	<u>l</u>	l
1,4'-DDT	0.757	**********	ug/Kg		YES:	í.								!						
1,4'-DDT	0.757		ug/Kg		YES			<u>-</u>	<u> </u>	<u>-</u>			ļ.		i.					
Aldrin	10.2	***	սը/Kฏ		YES				υļ							l.				
Aldrin	10.2		ug/Kg		YES :	····							l.							
llpha-BHC	10.2		ug/Kg		YES						<u>-</u>		1.	<u>l</u> .	i.,				1	
lpha-BHC	10.2		ug/Kg		YES									].	i		1.			
lpha-Chlordane	10.2		ug/Kg		YES :	····			<u>.</u>											
lpha-Chlordane	10.2		ug/Kg		YES	···· <del>¦.</del> .		<u>.</u>	<b></b>	<u> </u> -	<u> </u> _						<u> </u>	1	1	J
ela-BHC	10.2		ig/Kg		res res	·		·····		<u>.</u>	l.						1			1
eta-BHC	10.2		ıg/Kg	· · · · · · · · · · · · ·	res ÆS:	·		<u>-</u>	<u>.</u>  .		٠			1				ï	ı	1
hlordane	33.8		ig/Kg		ES:			<u>.</u>							]	1		ij.	Ī	
hiordane	33.8							·····		<u>l</u>			<u>.                                    </u>					Ï	١	i
elta-BHC	10,2		ıg/Kg ıg/Kg		ES ES	l.,			1.				1	1		1	1	1	1	1

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 84 of 288

Client Sample ID: E11-137-S1

Sample Date: 07/16/2011

Lab Sample ID: 31101889011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Reviewed By / Date :							App	roved	By /	Date	<b>:</b>									
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai	Rep Res	Overall Qual*	Temp	нт	мв	LCS	MS	£ab Dup	Surr	Rep	Molst Tot/Dis		Tune	íC	ICV	CV/
Analysis Method : 8081					Diluti									5-1114IC	100013		I MINE		ICV	CCV
della-BHC	10.2		ug/Kg	U	YES				1	ī	i	}	1	:	1 1		ï		I	1
Dieldrin	10.2		ug/Kg	U	YES				'	<u>.</u>		: 	! !	! 	!		! !	 i	<u> </u>	
Dieldrin	10.2		ug/Kg	U	YES				` 	: 1	! [	! !	!	! !	!! !		! !	 !	ļ	
Endosulfan i	10.2		ug/Kg	U	YES				' I	<i>!</i>	! ]	² 	! I	! <b></b>	!! !		! !	i 1	<u> </u>	ļ
Endosulfan I	10.2		ug/Kg	U	YES				' 	! I	! Ì	!	!	! <b></b>	! !			} 	<del>!</del>	1
Endosulfan li	10.2		ug/Kg	U	YES					! [	! 	 [	!	[	!		!	! 	ļ	·
Endosulfan II	10,2		ug/Kg	υ	YES		i	'ا إ	<b>'</b>	! 	! !	i	<b>!</b> !	' <b></b>	!! 	• • • • • • • • • • • • • • • • • • • •			<del> </del>	ļ
Endosulfan sulfale	10.2		ug/Kg	Ų	YES			'ا ا	\	! 			! !						<u>!</u>	
Endosulfan sulfate	10.2		ug/Kg	U	YES	·1	!						!					 	<u> </u>	ļ
Endrin	10.2		ug/Kg	U	YES		<u>'</u>	اا		!i			!						<u>!</u>	
Endrin	10.2	·	ug/Kg	U	YES	1										!			1	
Endrin aldehyde	10.2		ug/Kg	υ :	YES :	<u>-</u>	<u>!</u> .		ا		!			!					1	ļ
Endrin aldehyde	10.2		ид/Кд	U	YES :		·······	·······	·······	!	اا			!						
Endrin ketone	10.2		ug/Kg	υ	YES:	i	····	<u>'</u>	! 	<i>i</i>			ئــــــــــــــــــــــــــــــــــــ							
Endrin kelone	10.2		ug/Kg	U	YES		······! 		اا	i		!		!						<b></b>
gamma-BHC (Lindane)	10.2	· · · · · · · · · · · · · · · · · · ·	ug/Kg	U	YES		·· <del>·</del>		!	ئىئ ا										
gamma-BHC (Lindane)	10.2		ug/Kg	U i	YES	• • • • • • • • • • • • • • • • • • • •	······i	·····	!		!									
gamma-Chiordane	10.2	·····	ug/Kg	υ	YES -	·		····	!		! !			[			<u>.</u>	!		
gamma-Chlordane	10.2		ug/Kg	U ;	YES	·····i											<u></u>			
deptachlor	10.2	*	ug/Kg	U	YES	;	• • • • • • • • • • • • • • • • • • • •	<del>-</del>	! !				٠						!	
leptachlor	10.2		ug/Kg	υ	YES		······································					!					<u>.</u>			
leptachlor epoxide	10.2	*************	ug/Kg		YES		· ···						٠					!	!	
leptachlor epoxide	10.2		ug/Kg		YES			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · ·			!		!.					!	
felhoxychlor	10.2	••••	ug/Kg		YES						<u> </u>		••		·					• • • • • • • • • • • • • • • • • • • •
fethoxychlor	10,2		ug/Kg		YES				<u>.</u> .				[					ļ		
oxaphene	33.8	errerre e errefer	ug/Kg		YES								!							

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 85 of 288

Client Sample ID : E11-137-S1

Lab Sample ID: 31101889011

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

		Hanadata 1	D		_															
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overa Qual	all * Temp	нт	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	ıc	ICV	CV/
Analysis Method : 8081					Difuti									4.11111	1000015	40	Tulle		ICV	CCV
Toxaphene	33.8		ug/Kg	Ų	YES		i			i	İ	<u> </u>	·		j i		[ :		1	ī
Analysis Method : 8151		***************************************			Diluti	on: 1			• • • • • • • •				¹	!	!!		·			
2,4,5-T	0.0163		mg/kg	U	YES	:	i I			Ī	ì		<u> </u>	(	<u> </u>		l i		1	1
2,4,5-TP (Silvex)	0.0163		mg/kg	U	YES					: ]	i 		: • • • • • • • • • • • • • • • • • • •		i					
2,4'-D	0.0163		mg/kg	U	YES		1			: 			·		! !		!! !		! 	¦
2,4-DB	0.0163		mg/kg	U	YES			······i		 					: 		· · · · · · · · · · · · · · · · · · ·		! 	!
Dicamba	0.0163		mg/kg	U	YES			1				:. <b>.</b>	i						! 	! !
Analysis Method : 8260B					Diluti	on: 1									!				1	!
1,1,1,2-Tetrachloroethane	3.84		ug/Kg	U	YES		1 1			F					l i				I	
1,1,1-Trichloroethane	3.84	ĺ	ug/Kg	U	YES		1 1	Î									·		/ I	! 
1,1,2,2-Tetrachloroethane	3.84		ug/Kg	U	YES		İ												! 	!
1,1,2-Trichloroelhane	3.84		ug/Kg	U	YES	:	1	1					:ا ا				ئ		! 	!!
1,1-Dichloroethane	3.84		ид/Кд	ย	YES	IJ	1			UJ			········· /	' ا			 ا			!!
1,1-Dichloroethene	3.84		ug/Kg	U	YES	IJ	1	ï	· · · · · · · · · · · · · · · · · · ·	UJ	·i		i	:i	i		···		·	!
1,1-Dichloropropene	3.84		ид/Кд	U	YES			i		······			4	······ <u>·</u>	·		<u>-</u>			
1,2,3-Trichlorobenzene	3.84		ид/Кд	U	YES		1	î	·····	i	······	:i	····	· · · · · · · · · · · · · · · · · · ·						
1,2,3-Trichloropropane	3.84		ug/Kg	u (	YEε		i i	1	<u>-</u> 1		······································	············		· · · · · · · · · · · · · · · · · · ·						
1,2,4-Trichlorobenzene	3.84		ug/Kg	U	YES		1 1	·	<u>-</u>			: 	i	·i		i				!
1,2,4-Trimethylbenzene	3.84		ug/Kg	U	YES		i i	ì	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	····: ;	· · · · · · i	·/.	! I	· · · · · · · · · · · · · · · · · · ·				!	
1,2-Dibromo-3-chloropropane	23.0		ug/Kg	U	YES		i i	<del>-</del>	······		·	i					·		! ا	
1,2-Dibromoethane	3.84		ug/Kg	V	YES		i i	<del>-</del>	······		i	·'				:		!	ا	!
, 2-Dichlorobenzene	3.84		ug/Kg	U ;	YES :		i i	\ <u>`</u> .			i,	·-····································		!	••			ر ا	!	
1,2-Dichloroethane	3.84	:	ug/Kg	U	YES		i i	<u>-</u>		<u>\</u>	i	: 1			<del> </del> -			اا	! 	:
1,2-Dichloropropane	3.84	:	ug/Kg	υ	YES	-,	i i	······\	i			·····-i	·······	·····-!.			·	!ا	!	! 1
f,3,5-Trimethylbenzene	3.84		ug/Kg	υ	YES		i i		<u>'</u> -	·/, 		····	<u>-</u>		·	······!	······		! 1	1
I,3-Dichlorobenzene	3.84		ug/Kg	υ	YES		i i	<u>;</u>	·			···		·!.		<u>'</u> -		!	<u> </u>	
i,3-Dichloropropane	3.84		ug/Kg	U	YES		:	<u>'</u>					<u>.</u>				·	!		

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 86 of 288

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 : E11-137-S1

Lab Report Batch : 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889011

Reviewed By / Date :

#### Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overail Quai*	Temp	НТ	мв	LCS	MS	Lab Dup	Surr		Moist Tot/Dis		Tune	łC	icv	CCV
Analysis Method : 8260B					Dilutio	on: 1						······································								
1,4-Dichlorobenzene	3.84		ug/Kg	U	YES				<u> </u>	1	}	1	]		i i				1	Ī
2,2-Dichloropropane	3.84		ug/Kg	U	YES	<u> </u>			1	1			i						: 	1
2-Butanone	19.2		ug/Kg	U	YES						1		`						 	: 
2-Chlorotoluene	3.84		ug/Kg	υ	YES							1		` <del></del>						: 
2-Hexanone	9.60		ug/Kg	U	YES								l i						 	: 
4-Chlorotoluene	3.84		ug/Kg	U	YES		1													! 
4-Isopropyltoluene	3.84		ug/Kg	υ	YES							1							 	: I
4-Methyl-2-pentanone	9.60		ug/Kg	U	YES		]					} 							: 	: I
Acetone	6.47		ug/Kg	J	YES	J				J		: 			i				` 	
Benzene	3.84		ug/Kg	υ	YES									<u>-</u>						!····
Bromobenzene	3.84		ug/Kg	U	YES	1						}		<u>'</u>						i
Bromochloromethane	3.84		ug/Kg	U	YES		1													,
Bromodichloromethane	3.84		ug/Kg	U	YES						• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·		i	·i		·······		
Bromoform	3.84	:	ug/Kg	U	YES	1	1							·····i	i	····i				
Bromomethane	3.84		ug/Kg	ย	YES													······i		
Carbon disulfide	3.84		ug/Kg	U	YES	เน		1	i	UJ			1	<u>;</u>		i		<u>:</u>	·····i	· · · · · · · ·
Carbon tetrachloride	3.84	:	ug/Kg	U	YES:			1					1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	i	······		1
Chlorobenzene	3.84	;	ug/Kg	υ	YES		1		· · · · · · · ·			· · · · · · · ·	······	· · · · · · i		· · · · · · · · · · · · · · · · · · ·	·····-		····i	
Chloroelhane	3.84		ug/Kg	U	YES			Ì	1			Ì	······	·····i		······i	i	٠١	·····:	i
Chloroform	3.84		ug/Kg	U	YES		1	Ì		· · · · · · · · · · · · · · · · · · ·		i		·······i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<u>'</u>	· ······ ·	······
Chloromethane	3.84		ug/Kg	U	YES		I	1	i		i			i			1	······	·····i	
cis-1,2-Dichloroethene	3.84		ug/Kg	U	YES	1	1	1	1		1	i	···· \ i			·····i	· · · · · · · · · · · · · · · · · · ·	······		······i
cis-1,3-Dichloropropene	3.84	:	ug/Kg	υ	YES	i. 	· · · · · · · · · · · · · · · · · · ·	i i	· · · · · · · ·	í	i				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	 i	i	!	
Dibromochloromethane	3.84		ug/Kg	U	YES		i	1	<u>-</u>	<u>.</u>	Ì	i I		···	<u>'</u> -	1				١١
Dibromomethane	3.84		ug/Kg	U	YES	]		ì	i	1	······	············		!. I	···· ··· ·	· · · · · · · i			······!	······!
Dichlorodifluoromelhane	3.84		ug/Kg	υ	YES		·· ·· · · · · · · · · · · · · · · · ·	i	i			· · · · · · · · · · · · · · · · · · ·		·······!			.ئ ا		!	······!

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 87 of 288

Client Sample ID: E11-137-S1

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Date: 07/16/2011 Lab Sample ID: 31101889011

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Quai		Overal Qual*		нт	мв	LCS	440	Lab		Rep	Moist					CV/
Analysis Method : 8260B	Result	E1101	Units		Dilutio		1emp	m I	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Типе	IC	ICV	ccv
Ethyl Benzene	3.84	;	ug/Kg	ų :	YES		i		1		ŧ ;		1		1 2	-				1
Hexachlorobuladiene	3.84		ug/Kg	<u>v</u>	YES		!	! 	<u>.</u>	1			!							ļ
Isopropyibenzene (Cumene)	3.84		ug/Kg	············	YES		l!	!	! 	! 	!		1				ļ		ļ	ļ
m,p-Xylene	7.68	<u> </u>	ug/Kg	Ü	YES		·		! !	! 								• • • • • • • • • • • • • • • • • • • •		ļ
Methyl iodide	3.84		ug/Kg	υ	YES	• • • • • • • • • • • • • • • • • • • •	!! !		!	! !	<u> </u>									
Methylene chloride	15.4		ug/Kg	U	YES	IJ	·		l	l UJ	1 1	•••••								!
Naphthalene	3.84	! !	ug/Kg	U	YES		!! 		· !	00										ļ
n-Butylbenzene	3,84	••••	ug/Kg		YES						! <u>!</u>									<u> </u>
n-Propyibenzene	3,84		ug/Kg	U	YES						<u>.</u>			i				<u>.</u>		<u> </u>
o-Xylene	3.84		ug/Kg	<u>U</u>	YES		<u>!</u>		! 					!				!		ļ
sec-Butylbenzene	3.84		ug/Kg	U	YES	•••••												اا		l
Styrene	3.84	·	ug/Kg	U	YES		!		!	!								اا		
tert-Butyl methyl ether (MTBE)	3.84		ug/Kg	U	YES	IJ				ا ز ران										
tert-Butylbenzene	3.84		ug/Kg		YES		!		ا		······i									
Tetrachioroethene	3.84		ид/Кд	u i	YES				! I			!					·····			
Toluene	3.84	***********	ug/Kg		YES				·!	باا		···			<u>i</u> ,					
trans-1,2-Dichtoroethene	3.84		ug/Kg	U	YE8				!				<u>i</u>						!	
trans-1,3-Dichloropropene	3,84		ug/Kg		YES:			! !	!			!								
Irans-1,4-Dichloro-2-butene	19.2	·····†	ug/Kg		YES			! 1									<u>-</u>		!	
Trichloroethene	3.84	•••••••••••••••••••••••••••••••••••••••	ug/Kg		YES:	····-!	· · · · · · · · · · · · · · · · · · ·	····	······							!			!	
Trichlorofluoromelhane	3.84		ug/Kg		YES		· · · · · · · · · · · · · · · · · · ·		اا		····	1	!.			<u>l</u>	<u></u>			
Vinyl chloride	3.84		ид/Кд		YES	· · · · · · · · · · · /		· · · · · · · · · · · · · · · · · · ·	!					!.						!
Analysis Method : 8270D	1				Dilutio	n: 1	!					!	!.	!.	!.	!			!	
1,2,4-Trichlorobenzene	320	1	ug/Kg	U	YES :				1			I		I		1	l		1	<u> </u>
1,2-Dichlorobenzene	320		ug/Kg	U	YES	i	··· <u>:</u> -	<u>'</u> -		<u>-</u>	!-	<u>-</u> 1		!. 		<u>!</u> !				
1,3-Dichlorobenzene	320		ug/Kg	υ	YES		·		<u>'</u> -	<u>'</u> -		!	······		·i	! 1			<u> </u>	
1,4-Dichlorobenzene	320		ug/Kg	· ·	YES									!.	<u>!</u>			<u>-</u>		

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 88 of 288

<sup>\*</sup> 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 : E11-137-S1

Lab Report Batch: 31101889

Lab ID : SGSW

Sample Date: 07/16/2011

Lab Sample ID: 31101889011

Analysis Type: RES

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty /	Result Units	Lab Quai		Overall	<b></b>					Lab	_	Rep						CV/
Analysis Method : 8270D	Nesun	E(10)	Units	Quai	Dilutio	Qual*	lemp	HT	MB	LCS	MS	Dup	Surr	Limit	Tot/Dis	QC	Tune	IC	ICV	CCV
2,4,5-Trichlorophenol	: 320	1	ug/Kg	U	YES	JII. I				í										
2,4,6-Trichlorophenol	320		ug/Kg	<u>.</u>	YES					ļ	<u>!</u>	ļ		!	<u> </u>			· · · · · · · ·	ļ	<u>[</u>
2,4-Dichlorophenol	320	ļ	ug/Kg	<u></u>	YES							<u> </u>			ļi				ļ	ļ
2,4-Dimethylphenol	320		ug/Kg	<u>.</u>	YES				 	ļ		ļ			ļ <u>!</u>		<u> </u>		<u>!</u>	<u> </u>
2,4-Dinitrololuene	320		ug/Kg		YES						<u> </u>	<u></u>			<u>!</u> !		ļ		!	ļ
2,6-Dinitrotoluene	320		ug/Kg		YES								!		ļ					ļ
2-Chloronaphthalene	320																			ļ
2-Chlorophenol	320		ug/Kg	U	YES	· <u></u>													l	<u> </u>
2-Methylnaphthalene	320		ug/Kg	U	YES															<u> </u>
2-Melhylphenol	320		ug/Kg	U	YES		!													ļ
2-Nitroaniline	320		ug/Kg	U												!				ļ
2-Nitrophenol	320		ug/Kg	U ;	YES			!		!					·		<u>l</u>			<u> </u>
·*** * <del>-</del> , • - • • • • • •		·	ug/Kg	U	YES	!	!					1		!						<u> </u>
3 and/or 4-Methylphenol 3 Nitroaniline	320		ид/Кд	U	YES				<u>l</u>						<u>l</u> .		1			l
	320		ug/Kg	U	YES							1	l	!	l.		!		1	
4-Bromophenyl phenyl ether	320		ug/Kg	U	YES						!									
4-Chloro-3-methylphenol	320		ug/Kg	U	YES					l	!		]		<u>l</u> .	1				
4-Chloroanifine	320		ug/Kg	V	YES							1								
4-Chlorophenyl phenyl ether	320		ug/Kg	U	YES		!.								<u>l</u> .			]		
4-Nitroaniline	320		ug/Kg	υ;	YES :							1	1							
f-Nitrophenol	320		ug/Kg	U	YES			1									1			
Acenaphthene	320		ug/Kg	U	YES				1			1	1			1	1	-	1	
Acenaphthylene	320		ug/Kg	υ ;	YES	!.		].	<u>.</u> .	į	1	1		-			1	1	1	Í
Anthracene	320	<u>.</u>	ug/Kg	U	YES				1		f	1		ſ	1	1	ì	1		ſ
Benzo(a)anthracene	320		ug/Kg	U	YES		1	1					,	i		1	Ì	1	1	
Benzo(a)pyrene	320		ug/Kg	U	YES		1	1	[	1	1	I	1	1		I	1			
Benzo(b)fluoranthene	320	:	ug/Kg	U	YES	i i	· · · · · · · · · · · · · · · · · · ·	i	ĺ	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 09:53

Page 89 of 288

\* 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 : E11-137-S1 Sample Date : 07/16/2011

Lab Report Batch : 31101889 Analysis Type: RES

Lab ID : SGSW
Sample Matrix : SO

Lab Sample ID: 31101889011

Lab Cample 15:01 1010000

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		Tune	ic	ICV	CV/
Analysis Method : 8270D					Dilutio	on: 1				~***				·						
Senzo(g.h.i)perylene	320		ug/Kg	U	YES		·I		Ĭ i	1				<u></u>	1 1		1 }	····	1	1
Benzo(k)fluoranthene	320		ug/Kg	U	YES	i	·····i		1		··				!!   }	••••	!		! 	<u>.</u>
Bis(2-Chloroethoxy)methane	320		ug/Kg	U	YES	i		• • • • • • • • • • • • • • • • • • • •	i i		·				!:! !		!! [		 1	<u> </u>
Bis(2-Chloroethyf)ether	320		ug/Kg	U	YES	i			· · · · · · · · ·						!! 		!		! !	!
Bis(2-Chloroisopropyl)ether	320		ug/Kg	ŭ	YES		1		·	' 							! <u>.</u>		! !	
Bis(2-Ethylhexyl)phthalate	320		ug/Kg	U	YES		i	,	(				·	·				•••••	! !	!
Butyl benzyl phthalate	320		ug/Kg	U	YES	1	·····i	 	 		! 		·					•••••	! !	!
Chrysene	320	,	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		·· ا			<u>-</u>	·i	······			!۔۔۔۔۔ا			!	<u>.</u>
Dibenz(a,h)anthracene	320		ug/Kg	U	YES							·	ئئ ا	·:		!	اا		!	<u>!</u>
Dibenzofuran	320		ug/Kg	υ	YES	1	·····i		·	: ا				··		!			! 	!
Diethyl phthalate	320		ug/Kg	U	YES :	· · · · · · · · · · · · · · · · · · ·					 ا			· ! 		! I				!
Dimethyl phthalate	320		ug/Kg	U	YES		·····i			· · · · · · · · · · · · · · · · · · ·	· }	!	i			!	••••••			
Di-n-bulyl phthalate	320		ug/Kg	υ	YES		<u>í</u> -	·····	·i	ا	·		<u>3</u> .							
Di-n-octyl phthalate	320		ug/Kg	U	YE3		i,		·					····················	<del>[-</del>	!				
Fluoranthene	320	1	ug/Kg	U	YES		i	ì	·············		·····;			· · · · · · · · · · · · · · · · · · ·						
Fluorene	320		ug/Kg	U	YES	i-	:		i	·	i.		·····		<del> </del> -				<u>-</u>	
Hexachlorobenzene	320		ug/Kg	IJ.	YES	j	············	······	i i			·····-:¦			· · · · · · · · · · · · · · · · · · ·		·····		!	
Hexachlorobutadiene	320		ид/Кд	U	YES		·····i	i	i i			·····:				!	· · · · · · · · · · · · · · · · · · ·	!	!	
Hexachlorocyclopentadiene	320		ug/Kg	U	YES :		·····i	i	ì			<u>'</u>			·-··	!		!	!	
-lexachloroethane	320		ug/Kg	U	YES			· ····	····i	·····		·····					····	!		
ndeno(1,2,3-cd)pyrene	320		ug/Kg	U	YES		········	····	···········			·······		···		····	·····	!	!	!
sophorone	320		ug/Kg	u	YES	}	1	1	Î	i		·····-		······				· · · · · · · · · · · · · · · · · · ·		!
Naphihalene	320	:	ug/Kg	U	YES		1	· · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			·· ··¦·		!-				!	!	!
Vitrobenzene	320		ug/Kg	U	YES	·i	i	1	' 		\. 	!-		!-	!	·	·			
i-Nitrosodi-n-propylamine	320	:	ug/Kg	U	YES	i	······································		·······	······			! 	!.	!			!	<u>!</u> .	
Pentachiorophenol	320		ид/Кд	U	YES	υJ	·····	<u>'</u>		UJ	! I	!.	!	!.						

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

· -

Report Date: 9/6/2011 09:53

Page 90 of 288

Client Sample ID : E11-137-S1

Lab Report Batch: 31101889

Lab ID: SGSW

Sample Date: 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889011

Reviewed By / Date :							App	rove	i By /	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	£ab Qual	Rep Res	Overali Qual*	Temp	нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	icv	CV/ CCV
Analysis Method : 8270D					Diluti	on: 1						**								· · · · · · · · · · · · · · · · · · ·
Phenanthrene	320		ug/Kg	U	YES	: 1		1	1		i			1	1	ļ	1		I	1 1
Phenol	320		ug/Kg	U	YES		••••	: 	i	í	 Í	! [	' ]	/ §	1			• • • • • • •		!!
Pyrene	320		ug/Kg	U	YES			: 	' 	 	: 	' • • • • • • • • • • • • • • • • • • •	' 	! <i></i> !	!! 	! 	!! 		! I	

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 91 of 288

\* 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 : E11-137-S2 Sample Date : 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

Lab Sample ID: 31101889012

Reviewed By / Date :

Approved By / Date :

Analyte Name	Resutt	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overal Qual*	l Temp	HT	МВ	LCS	MS	Lab Đup	Surr	Rep Limit	Moist Tot/Dis		Tune	iC	icv	CCV
Analysis Method : 6010C					Dilutio	on: 1							/. /							
Arsenic	3.63		mg/kg		YES	J	-		Ī	1	J	J		1	1 3					1
Barium	79.9	,	mg/kg		YES		}		1	 	: 	:	i		i		!	' 	! 	1
Cadmium	0,864		mg/kg		YES	U			υ	1	i 	; -, , 	ì 	<u></u>	!! 		!		! 	1
Chromium	4.75	,	mg/kg		YES	J				i	}	J	: 	; 	i i		!		! 	<u>.</u>
Lead	7.73		mg/kg		YES	J		[	1	 	J		: 	: 	ii		i		! 	i
Selenium	0.708		mg/kg	j	YES	******	1		1	1			:	i	! !	••••	!		! <i>.</i>	
Silver	1.12		mg/kg	U	YES		}	 	i	: 			! 	: 	!! 	• • • • • • • • • • • • • • • • • • • •			! 	!
Analysis Method : 7471B	****************	**********			Dilutio	n: 1				·			·	!	!!					ł
Mercury	0.0220		mg/kg	U	YES		}		l .	 	I			· · · · · · · · · · · · · · · · · · ·	1 1		I			 I
Analysis Method : 8081					Dilutio	n: 1	/				``···				f					!
4,4'-DDD	10.5		ug/Kg	U	YES						i		,		1					<u> </u>
4,4'-DDD	10.5	į	ug/Kg	U	YES :										!! 		·			: [
4,4'-DDE	0.535		ug/Kg	JP :	YES					i	: ا					! !				! !
4,4'-DDE	0.535		ug/Kg	JP	YES		· · · · · · · · · · · · · · · · · · ·				:					! 1			!	í
4,4'-DDT	2.35	1	ug/Kg	J	YES :	UJ			υj	نــــــــــــــــــــــــــــــــــــ	J			: 1	·····i	1			!	
4,4'-DDT	2.35		ug/Kg	J	YES	UJ	1			 إ	j	\ 	ئــــــــــــــــــــــــــــــــــــ	·······	i.	<u>!</u>		الا	!	
Aldrin	10.5	·····	ug/Kg	U	YES		·····ì	i	` 	'۔۔۔۔۔ ا	······	!		i	·			:		
Aldrin	10.5		ug/Kg	U	YES			······· ا	i	····í	······	··			<del> </del> -			······	!	
alpha·BHC	10.5		ug/Kg	U	YES	·····	i		······i	·i		·:	······							
alpha-BHC	10.5	1	ug/Kg	U	YES		i		· · · · · · · · · · · · · · · · · · ·		····	··i					<del>,</del> \.	· · · · · · · · · · · · · · · · · · ·	!	
alpha-Chlordane	10.5		ug/Kg	U	YES	·······			·i		· · · · · · · · · · · · · · · · · · ·	i		······!						*****
alpha-Chlordane	10.5	• • • • • • • • • • • • • • • • • • • •	ug/Kg	ับ	YES	·i	<u>'</u> .	·i				·i	· · · · · · · · · · · · · · · · · · ·	<u>'</u>		·	٠	······	!	• • • • • • • • • • • • • • • • • • • •
bela-BHC	10.5		ug/Kg	U	YES :			·	<i></i>		<u>-</u>	اا ا						· · · · · · · · · · · · · · · · · · ·	!	• • • • • • • • •
oeta-BHC	10.5		ug/Kg	U	YES :	·i	i	<u>-</u>					·	·	·••••					••••
Chlordane	35.1		ug/Kg	U	YES		········· <u>·</u>	<del>'</del> i		······		!								• • • • • • • • • • • • • • • • • • • •
Chlordane	35.1		ид/Кд		YES:		<u>-</u> -	<u>-</u> '		! !		···		!.						
ieila-BHC	10.5		ug/Kg		YES														!	

Project Number and Name:

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 92 of 288

<sup>\*</sup> 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 : E11-137-S2 Sample Date : 07/16/2011

Reviewed By / Date :

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID : SGSW

Sample Matrix: SO

Lab Sample ID: 31101889012

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Qual*		HT	MB	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis	Field	Tune	ıc	ICV	CCV
Analysis Method : 8081					Diluti	on: 1						·············								
delta-BHC	10.5		ug/Kg	U	YES					i	<u> </u>	~~					1 1		· · · · · ·	
Dieldrin	10.5		ug/Kg	U	YES					' 		:		! I	ļ!	*****	!! i			
Dieldrin	10.5		ug/Kg	υ	YES					' 	/ }				<u> </u>	••••	!! !		<u></u>	
Endosulfan I	10.5		ug/Kg	U	YES		·i									•••	!		1	<del>- </del> -
Endosulfan i	10.5		ug/Kg	U	YES		·····i								!! !	•	!!		<del>!</del>	<u>-</u>
Endosulfan II	10.5		ug/Kg	U	YES	،			! 		:! 				<u></u>		!!		<u> </u>	<u> </u>
Endosulfan II	10.5		ug/Kg	U	YES			'۔۔۔۔۔۔ا	/, <i>!</i>		' <u>-</u>	!	اا		!				<u> </u>	
Endosulfan sullate	10.5		ug/Kg	U	YES		!. 	'۔۔۔۔۔' ا	<u>'</u> ا	<i>i</i>	! 	! 	 ا		l	•••••		•••	1	·
Endosulfan sulfate	10.5		ug/Kg	U	YES				! 			! 1	لــــــــــــــــــــــــــــــــــــ						ļ	
Endrin	10.5		ug/Kg	U	YES		<u>:</u> .	·1	1			! I			 			• • • • • • • • • • • • • • • • • • • •	<u>!</u>	ļ
Endrin	10.5	;	ug/Kg	U	YES	·i	<u>:</u> .	·\	······		!۔۔۔۔۔۔ا				<u> </u> -	·····		• • • • • • • • • • • • • • • • • • • •	<u> </u>	1
Endrin aldehyde	10.5		ug/Kg	U	YES									<u>!</u>		!	÷		ļ	!
Endrin aldehyde	10.5		ug/Kg	U	YES		·i	······		·	 ا	•		!			i		1	ļ
Endrin ketone	10.5	1	ug/Kg	U	YES		·i	·	¦. 		<u>-</u>	<u>-</u>							!	
Endrin kelone	10.5		ug/Kg	U	YES :		i		<u>:</u>											
gamma-BHC (Lindane)	10.5		ug/Kg	U	YES	······	···········	<u>1</u>	······	i		!							! 	<u>.</u>
gamma-BHC (Lindane)	10.5		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	·····i	····	·······											<u>!</u>
gamma-Chiordane	10.5		ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·		ì	·····i		·····									ļ
gamma-Chlordane	10.5		ug/Kg	U	YES	··········	·····i		 1	·· ···							· • · · · ·			! •
-leptachlor	10.5		ид/Кд	U	YES:	·····i			····						• • • • • • • • • • • • • • • • • • • •					
deptachlor	10.5	1	ug/Kg	U	YES:		·······	······	·····								·		!	
deptachtor epoxide	10.5		ид/Кд	U	YES	····i		····	·····i				·····	! . 					!	
leptachlor epoxide	10.5	`````	ug/Kg	U	YES	:-		····	·····:	·····				!. !						
Melhoxychlor	10.5	•••••••••••••••••••••••••••••••••••••••	ug/Kg	U	YES	· · · · · · · · · · · · · · · · · · ·	<del>-</del>	·¦·		·†		!,		!.						
Methoxychlor	10,5	·····	ug/Kg	υ	YES		····	·······				···· <del> </del> -								
oxaphene	35.1		ug/Kg		YES				!					!.						

Project Number and Name:

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 93 of 288

\* 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: E11-137-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID: SGSW

Lab Sample ID: 31101889012

Sample Matrix: SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Over Qua	ali I* Temp	HT	мв	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis		Tune	IC	icv	CCV
Analysis Method : 8081					Diluti		<del>-</del>	~~		. 777					100018		·········		, , C V	CCV
Toxaphene	35.1		ug/Kg	U	YES	:			1	1	:				1 1	1		 I	1	
Analysis Method : 8151		*********			Diluti	on:1			·		··			·····	!		!	·	-d	-1
2,4,5-T	0.0170		mg/kg	U	YES	;			Ī.			i	1	!	i i		1	·	I	1
2,4,5-TP (Silvex)	0.0170		mg/kg	U	YES		· · · · · · · · · · · · · · · · · · ·		) 			( 	! 	<i>:.</i> I			! I	 1	·	
2,4'-D	0.0170		mg/kg	U	YES				: 				! 	!	!		<b>!</b> !	ł	·	
2,4-DB	0.0170		mg/kg	Ų	YES				 					! }	!!		! I	i	ļ	<u>!</u>
Dicamba	0.0170		mg/kg	υ	YES		1	·····			'		!	/ 	!! !		! !	! !	. <u></u>	ļ
Analysis Method : 8260B		*			Diluti	on: 1								!	!:	• • • • • • • • • • • • • • • • • • • •	!		·	.!
1,1,1,2-Tetrachloroethane	4.67		ug/Kg	U	YES		1 1	i									1		1	1
1,1,1-Trichloroethane	4.67		ид/Кд	υ	YES	: :		'۔۔۔۔۔ ا	ر ا	ئــــــــــــــــــــــــــــــــــــ		<u></u> !			! <u>!</u>				1	ļ
1,1,2,2-Tetrachioroethane	4.67		ug/Kg	U	YES	;	·-i'	1 1	را ا	···! ا	i	!		! <del></del>					<u> </u>	ļ
1,1,2-Trichloroethane	4.67		ug/Kg	U :	YES		<u>-</u>	 1	! 	!ا ا	اا	! !							<u> </u>	
1,1-Dichloroethane	4.67	•	ug/Kg	υ	YES	UJ		· · · · · · · · · · · · · · · · · · ·		UJ I	اا	! ا	اا			!			<u>.</u>	<u>!</u>
1,1-Dichloroethene	4.67		ug/Kg	u i	YES	UJ	1	·	اا	UJ I	···!							•	<del>!</del>	
1,1-Dichloropropene	4.67		ug/Kg	υ 🕆	YES		3 1	······				1	!					<b>-</b>	ļ	
1,2,3-Trichlorobenzene	4.67		ug/Kg	U	YES			ئىمە ،	·!		·	!		!					1	ļ!
1,2,3-Trichloropropane	4.67		ug/Kg	U	YES	•••••	i	<u>-</u> 1											j	
1,2,4-Trichiorobenzene	4.67	·	ug/Kg	U	YES :			·											1	
1,2,4-Trimethylbenzene	4.67	·	ug/Kg	U	YES:			·		<i>i.</i>				!					1	
1,2-Dibromo-3-chloropropane	28.0		ug/Kg	U	YES		·i·····i										····			
1,2-Dibromoethane	4.67		ug/Kg	υ ;	YES :								٠٠٠٠٠٠ أ							
1,2-Dichlorobenzene	4.67	**************	ug/Kg		YES					٠				!						
1,2-Dichloroethane	4.67		ug/Kg		YES		• <del>•</del> •••• <del>•</del>					!								
1,2-Dichloropropane	4.67		ид/Кд	U	YES		· <del>.</del>				<u>!</u> -		<u>.</u>				·			
1,3,5-Trimethylbenzene	4.67	•••••••	ug/Kg		YES :		-1												ļ	
l,3-Dichlorobenzene	4.67	• • • • • • • • • • • • • • • • • • • •	ид/Кд		YES	• •		<del>'</del>											·!	
i,3-Dichloropropane	4.67		ug/Kg		YES		.4			····			·····						·	

Project Number and Name:

ADR 8.2

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

Library Used:

Report Date: 9/6/2011 09:53

Page 94 of 288

Client Sample ID : E11-137-S2

Lab Report Batch: 31101889

Sample Date: 07/16/2011 Lab Sample ID: 31101889012

Analysis Type: RES

Lab ID: SGSW

Sample Matrix : SO

Reviewed By / Date :

Reviewed By / Date :		***************************************					- Libb		, Dy i	Date :										
Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overati Qual*	Temp	НT	МВ	LCS	MS	Lab Dup	Surr	Rep	Moist Tot/Dis	Field QC	Tune	ıc	icv	CCV
Analysis Method : 8260B					Diluti												- Tuite			CCV
1,4-Dichlorobenzene	4.67	Ĭ.	ug/Kg	U	YES	:				1	·····		<del></del>		1 1	***************************************	ı .		1	1
2,2-Dichtoropropane	4.67		ug/Kg	U	YES				 I	 [			! 	' I	 	•	!		 1	ļ
2-Bulanone	23.3		ид/Кд	U	YES					 I	: 		!		!: !		!! !		 1	<u> </u>
2-Chlorololuene	4.67		ug/Kg	U	YES		····		` 	/	¦					,	!		! 1	·
2-Hexanone	11.7		ug/Kg	U	YES		·············		• <i></i>		} 				!! !	,	!! !		! 	<u> </u>
4-Chlorotoluene	4.67		ug/Kg	Ü	YES			'ا ا	 	! I			! <u>-</u>		!! 			••••		
4-Isopropyltoluene	4.67		ug/Kg	Ų	YES		! I			' 			!		!i			• • • • • • • • • • • • • • • • • • • •	! !	1
4-Methyl-2-pentanone	11.7		ид/Кд	U	YES	·····		l		\			! ! 	!		! ا				ļ
Acetone	15.4		ug/Kg	J	YES	J		<u>.</u>		J			!! 		!					ļ
Benzene	4.67		ug/Kg	U	YE\$		i	······						!		!				ļ
Bromobenzene	4.67		ug/Kg	U	YES	í	i							·!	i	······!				
Bromochloromethane	4.67	ĺ	ug/Kg	U	YES		i	·····		ئىى ا	· · · · · · · · · · · · · · · · · · ·	!		!						!
Bromodichloromethane	4.67		ug/Kg	U	YES		ĺ		······i		i	··········	·							·
Bromoform	4 67		ug/Kg	U	YES :		· · · · · · · · · · · · · · · · · · ·	1	·i	: 	· · · · · · · · · · · · · · · · · · ·	······	·	!	<del>i</del> .			!		
Bromomelhane	4.67		ид/Кд	υ	YES		·······.	······	1		······	·: 		································	i.	11	<u>-</u> -			
Carbon disulfide	4.67		ug/Kg	U	YES	UJ		·····		UJ		·· <u>:</u>		<u>!</u>					····- <u>!</u>	
Carbon tetrachloride	4.67	;	ug/Kg	U	YES		·····i	·····	·····	· · · · · · · · · · · · · · · · · · ·		 1	····		····		<u>.</u>		!	
Chlorobenzene	4.67		ug/Kg	บ	YES		I	ì	1		ii					1	·····-	اا ا	!	
Chloroethane	4.67	;	ug/Kg	U	YES		1		i		······································			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		·····-			
Chloroform	4.67		ug/Kg	U	YES		i	ì				·····i						<u>/</u>	!	
Chloromethane	4.67		ug/Kg	U	YES		1		·····			····· i	·- ·- ·- · · · · · · · · · · · · · · ·		···					
is-1,2-Dichtoroethene	4.67		ug/Kg	U	YES :	1	·····i	i i	i	······			!. 	·		· · · · · · · · · · · · · · · · · · ·	·····-	···	!	
is-1,3-Dichloropropene	4.67		ug/Kg	U	YES		i	i	·····	1	!.	1		····	/ 	·!.		l	!	
Dibromochloromelhane	4.67		ug/Kg	U	YES	1	( 	·	·····/	·····	: i	1	·	·····-!		!.		¦		
Dibromomethane	4.67		ug/Kg	U	YE\$		··· i ··	·····	······		····	!.		···· <u>'</u> -						
ichlorodifluoromelhane	4.67		ug/Kg	u i	YES		·····i	·····	·····::								<u>†</u> .			

Project Number and Name:

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

Page 95 of 288

Client Sample ID : E11-137-S2

Lab Report Batch: 31101889

Sample Date : 07/16/2011 Lab Sample ID: 31101889012

Analysis Type: RES

Lab ID: SGSW

Sample Matrix: SO

ype: RES

Reviewed By / Date :

Approved By / Date:

Analyte Name		Uncertainty /	Result	Lab		Overal						Lab		Rep	Moist	Field				CV/
***************************************	Result	Еггог	Units	Quai		*** * * * * * * * * * * * * * * * * * *	Temp	HT	MB	LCS	MS	Dup	Surr		Tot/Dis	QC	Типе	łC	ICV	CCV
Analysis Method : 8260B Ethyl Benzene		:			Dilutio	on: 1														**//
Hexachlorobuladiene	4.67		ug/Kg	U	YES		İ			<u> </u>			l						1	1
***************************************	4.67		ug/Kg		YES		l		· · · · · · · · · · · · · · · · · · ·	l							ì		1	i
Isopropylbenzene (Cumene)	4.67		ug/Kg	U	YES		<u>                                     </u>										l	******	1	; 
m,p-Xylene	9.33		ug/Kg	U ;	YES		<u>!</u>										1	• • • • • • • • • • • • • • • • • • • •	i	:
Methyl iodide	4.67		ug/Kg	U	YES		i I								1		i	••••	 I	! I
Methylene chloride	18.7	<u>i</u>	ug/Kg	U	YES	UJ	i I			W								• •	!! 	! 
Naphthalene	4.67		ug/Kg	U	YES ;		ĺ	1		1		· · · · · · · · · · · · · · · · · · ·	}				السنديين			! 
n-Butylbenzene	4.67		ug/Kg	U	YES						······		 			!! ا	·		·	
n-Propylbenzene	4.67		ug/Kg	υ	YES		i	ï		'ا ا	i	·····	·i	!۔۔۔۔۔ا		اا				
o-Xylene	4.67	;	ug/Kg	V	YES			······	!		<u>-</u>		ئى ا			!				
sec-Bulylbenzene	4.67		ug/Kg	υ	YES			·····	را ا		· <u>-</u>			· <u>!</u>					!	- ·
Slyrene	4.67		ид/Кд	U	YES	i	·····i		! 			!								
tert-Butyl methyl ether (MTBE)	4.67	1	ug/Kg	υ	YES	רט	<del>'</del> i	·····	! !		·····		!.							
tert-Butylbenzene	4.67		tig/Kg	u į	YES:		·:	···												
Telrachiorosihene	4.67		ug/Kg	U	YES :	·i			!	 آ										
Toluene	4.67		ug/Kg	u i	YES :			¦									···			
trans-1,2-Dichloroethene	4.67		ug/Kg		YES	UJ	· · · · · · · · · · · · · · · · · ·		·····-!					[						
trans-1,3-Dichloropropene	4.67		ug/Kg		YES								····	!						!
Irans-1,4-Dichloro-2-butene	23.3		ug/Kg		YES		· · · · · · · ·						·			!.				
Trichtoroethene	4.67		ug/Kg		YES			<u>ا</u>							!-			ļ.		!
Frichlorofluoromethane	4,67		ид/Кд		YES					<u>.</u>								ļ.		
Vinyl chloride	4.67		ug/Kg		YES								<u>ļ</u> .	<u>ļ</u> .		<u>f</u> .		l.		
Analysis Method : 8270D	·		-91.9		ilution		!		<u>.</u> !.			J.		<u>l</u> .		!.	l	1		1
,2,4-Trichlorobenzene	352		ug/Kg		YES	F		1	1			1			<del></del>					
I,2-Dichlorobenzene	352		ug/Kg		YES :				<u> </u> -		···	ļ.			l	1.				1
,3-Dichlarobenzene	352	]	ug/Kg		YES :	· <u>-</u>				<i>}</i>		<u>-</u>  .			l		<u>l</u>			1
.4-Dichlorobenzene	352		ug/Kg		res YES			L	. <b></b>					[		1	1	1	. 1	1

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 96 of 288

Client Sample ID: E11-137-S2 Sample Date: 07/16/2011

Lab Report Batch: 31101889

Analysis Type: RES

Lab ID ; SGSW

Sample Matrix: SO

Lab Sample ID: 31101889012

Reviewed By / Date :

Approved By / Date:

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual		Overall Quai*		нт	МВ	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	fC	ICV	CV
Analysis Method : 8270D			***************************************		Diluti	on: 1					·/···				**///					
2,4,5-Trichlorophenol	352		ug/Kg	U	YES					i				ļ	[ ]		1 1		1	
2,4,6-Trichlorophenol	352		ug/Kg	Ų	YES					' <i>,,,</i>	(			! 	!		!! !		1	·
2,4-Dichlorophenol	352		ug/Kg	U	YES		 							! }	!		!! !			· · · · · ·
2,4-Dimethylphenol	352		ug/Kg	U ;	YES						·			! 					¦	
2,4-Dinitrotoluene	352		ug/Kg	U	YES	,,					1			! 		•••••	!! !		<u></u>	
2,6-Dinitrolaluene	352		ug/Kg	U	YES						i	·i		'		••	!! 		1 I	<u> </u>
2-Chloronaphthalene	352		ug/Kg	U	YES						ا ۔۔۔۔۔۔ا	·!		!! 			!i	<b>-</b>	<u> </u>	·
2-Chlorophenol	352		ug/Kg	U	YES		·····i		 ا	ا ا	<u>-</u>	·!					!		 I	
2-Methylnaphthalene	352		ug/Kg	ŭ	YES	ì	!		! I	ئــــــــــــــــــــــــــــــــــــ	ئــــــــــــــــــــــــــــــــــــ	1	2						! 	ļ
2-Methylphenol	352		ug/Kg	U	YES					!! إ									!	1
2-Nitroaniline	352		ug/Kg	U	YES		······	   	را ا		ئــــــــــــــــــــــــــــــــــــ	!	ئـــــا ا	!					¦	!
2-Nitrophenol	352		ug/Kg	υ	YES	·i	<u>i</u>	· · · · · · · · · · · · · · · · · · ·	······!		اا	1	!							!
3 and/or 4-Methylphenol	352		ид/Кд	U	YES		·····!		·····		ئـــــ		ئئ ا	···!	!.				l :	
3-Nitroaniline	352		ug/Kg	11	YES:	· · · · · · · · · · · · · · · · · · ·		'. 		<del>-</del>				! !						!
4-Bromophenyl phenyl ether	352		ug/Kg	U	YES	·i	·············	········	······				.ئــــــــــــــــــــــــــــــــــــ							ļ
4-Chloro-3-methylphenol	352		ug/Kg	U	YES :	:	······					!. !	••••••							ļ i
4-Chloroaniline	352		ug/Kg	U	YES		········		······					!						ļ
f-Chlorophenyl phenyl elher	352		ug/Kg	U	YES :		·····/		·····											
1-Nitroaniline	352		ид/Кд	U	YES	·· ····i.		·····	·····							:		!	· · · · · · · · · · · · · · · · · · ·	
I-Nitrophenol	352	1	ug/Kg	υ	YES		i	·····	· · · · · · · · · · · · · · ·									!		
Acenaphthene	352		ug/Kg	U	YES		·····i		·····		·······:		· · · · · · · · · · · · · · · · · · ·	!					····	
Acenaphthylene	352	· · · · · · · · · · · · · · · · · · ·	ug/Kg	υ	YES		· ··· - ¦·													
Anthracene	352		ug/Kg	υ	YES				·· ··¦-										· · · · · · · · . [	
Benzo(a)anthracene	352		ug/Kg	· · · · · · · · · · · · · · ·	YES		! 1	¦.			·						···			
Benzo(a)pyrene	352	· · · · · · · · · · · · · · · · · · ·	ug/Kg		YES:			·· ··		٠٠٠٠٠٠	!.									
Benzo(b)fluoranthene	352		ug/Kg		YES			····		·				!.					!	

ADR 8.2

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

Library Used: CampCarroll

Report Date: 9/6/2011 09:53

Page 97 of 288

