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Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889030

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
tert-Butylbenzene	4.09		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	4.09		ug/Kg	U	YES	UJ						UJ								
Toluene	4.09		ug/Kg	U	YES	UJ						UJ								
trans-1,2-Dichloroethene	4.09		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	4.09		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	20.4		ug/Kg	U	YES															
Trichloroethene	4.09		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.09		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	4.09		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	346		ug/Kg	U	YES															
1,2-Dichlorobenzene	346		ug/Kg	U	YES															
1,3-Dichlorobenzene	346		ug/Kg	U	YES															
1,4-Dichlorobenzene	346		ug/Kg	U	YES															
2,4,5-Trichlorophenol	346		ug/Kg	U	YES															
2,4,6-Trichlorophenol	346		ug/Kg	U	YES															
2,4-Dichlorophenol	346		ug/Kg	U	YES															
2,4-Dimethylphenol	346		ug/Kg	U	YES															
2,4-Dinitrotoluene	346		ug/Kg	U	YES															
2,6-Dinitrotoluene	346		ug/Kg	U	YES															
2-Chloronaphthalene	346		ug/Kg	U	YES															
2-Chlorophenol	346		ug/Kg	U	YES															
2-Methylnaphthalene	346		ug/Kg	U	YES															
2-Methylphenol	346		ug/Kg	U	YES															
2-Nitroaniline	346		ug/Kg	U	YES															
2-Nitrophenol	346		ug/Kg	U	YES															
3 and/or 4-Methylphenol	346		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5301

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889030

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
3-Nitroaniline	346		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	346		ug/Kg	U	YES															
4-Chloro-3-methylphenol	346		ug/Kg	U	YES															
4-Chloroaniline	346		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	346		ug/Kg	U	YES															
4-Nitroaniline	346		ug/Kg	U	YES															
4-Nitrophenol	346		ug/Kg	U	YES															
Acenaphthene	346		ug/Kg	U	YES															
Acenaphthylene	346		ug/Kg	U	YES															
Anthracene	346		ug/Kg	U	YES															
Benzo(a)anthracene	346		ug/Kg	U	YES															
Benzo(a)pyrene	346		ug/Kg	U	YES															
Benzo(b)fluoranthene	346		ug/Kg	U	YES															
Benzo(g,h,i)perylene	346		ug/Kg	U	YES															
Benzo(k)fluoranthene	346		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	346		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	346		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	346		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	346		ug/Kg	U	YES															
Butyl benzyl phthalate	346		ug/Kg	U	YES															
Chrysene	346		ug/Kg	U	YES															
Dibenz(a,h)anthracene	346		ug/Kg	U	YES															
Dibenzofuran	346		ug/Kg	U	YES															
Diethyl phthalate	346		ug/Kg	U	YES															
Dimethyl phthalate	346		ug/Kg	U	YES															
Di-n-butyl phthalate	346		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

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5302

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889030

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8270D																				
Dilution: 1																				
Din-octyl phthalate	346		ug/Kg	U	YES															
Fluoranthene	346		ug/Kg	U	YES															
Fluorene	346		ug/Kg	U	YES															
Hexachlorobenzene	346		ug/Kg	U	YES															
Hexachlorobutadiene	346		ug/Kg	U	YES															
Hexachlorocyclopentadiene	346		ug/Kg	U	YES															
Hexachloroethane	346		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	346		ug/Kg	U	YES															
Isophorone	346		ug/Kg	U	YES															
Naphthalene	346		ug/Kg	U	YES															
Nitrobenzene	346		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	346		ug/Kg	U	YES															
Pentachlorophenol	346		ug/Kg	U	YES	UJ					UJ									
Phenanthrene	346		ug/Kg	U	YES															
Phenol	346		ug/Kg	U	YES															
Pyrene	346		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5303

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	3.84		mg/kg		YES															
Barium	71.9		mg/kg		YES															
Cadmium	0.849		mg/kg		YES	U														
Chromium	3.73		mg/kg		YES															
Lead	11.6		mg/kg		YES															
Selenium	1.86		mg/kg	U	YES															
Silver	0.932		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0200		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	4.56		ug/kg	J	YES															
4,4'-DDD	4.56		ug/kg	J	YES															
4,4'-DDE	3.85		ug/kg	J	YES															
4,4'-DDE	3.85		ug/kg	J	YES															
4,4'-DDT	31.0		ug/kg		YES	J					J									
4,4'-DDT	31.0		ug/kg		YES	J					J									
Aldrin	10.2		ug/kg	U	YES															
Aldrin	10.2		ug/kg	U	YES															
alpha BHC	10.2		ug/kg	U	YES															
alpha-BHC	10.2		ug/kg	U	YES															
alpha-Chlordane	10.2		ug/kg	U	YES															
alpha-Chlordane	10.2		ug/kg	U	YES															
beta-BHC	10.2		ug/kg	U	YES															
beta-BHC	10.2		ug/kg	U	YES															
Chlordane	34.0		ug/kg	U	YES															
Chlordane	34.0		ug/kg	U	YES															
delta-BHC	10.2		ug/kg	U	YES															

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

Library Used: CampCarroll

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5304

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
della-BHC	10.2		ug/Kg	U	YES															
Dieldrin	10.2		ug/Kg	U	YES															
Dieldrin	10.2		ug/Kg	U	YES															
Endosulfan I	10.2		ug/Kg	U	YES															
Endosulfan I	10.2		ug/Kg	U	YES															
Endosulfan II	10.2		ug/Kg	U	YES															
Endosulfan II	10.2		ug/Kg	U	YES															
Endosulfan sulfate	10.2		ug/Kg	U	YES															
Endosulfan sulfate	10.2		ug/Kg	U	YES															
Endrin	10.2		ug/Kg	U	YES															
Endrin	10.2		ug/Kg	U	YES															
Endrin aldehyde	10.2		ug/Kg	U	YES															
Endrin aldehyde	10.2		ug/Kg	U	YES															
Endrin ketone	10.2		ug/Kg	U	YES															
Endrin ketone	10.2		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES															
gamma-Chlordane	10.2		ug/Kg	U	YES															
gamma-Chlordane	10.2		ug/Kg	U	YES															
Heptachlor	10.2		ug/Kg	U	YES															
Heptachlor	10.2		ug/Kg	U	YES															
Heptachlor epoxide	10.2		ug/Kg	U	YES															
Heptachlor epoxide	10.2		ug/Kg	U	YES															
Methoxychlor	10.2		ug/Kg	U	YES															
Methoxychlor	10.2		ug/Kg	U	YES															
Toxaphene	34.0		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

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5305

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8081				Dilution: 1																
Toxaphene	34.0		ug/Kg	U	YES															
Analysis Method : 8151				Dilution: 1																
2,4,5-T	0.0174		mg/kg	U	YES															
2,4,5-T	0.0174		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES															
2,4-D	0.0174		mg/kg	U	YES															
2,4-D	0.0174		mg/kg	U	YES															
2,4-DB	0.0174		mg/kg	U	YES															
2,4-DB	0.0174		mg/kg	U	YES															
Dicamba	0.0174		mg/kg	U	YES															
Dicamba	0.0174		mg/kg	U	YES															
Analysis Method : 8260B				Dilution: 1																
1,1,1,2-Tetrachloroethane	3.91		ug/Kg	U	YES															
1,1,1-Trichloroethane	3.91		ug/Kg	U	YES															
1,1,2-Tetrachloroethane	3.91		ug/Kg	U	YES	UJ					UJ									
1,1,2-Trichloroethane	3.91		ug/Kg	U	YES															
1,1-Dichloroethane	3.91		ug/Kg	U	YES															
1,1-Dichloroethane	3.91		ug/Kg	U	YES															
1,1-Dichloropropane	3.91		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	3.91		ug/Kg	U	YES															
1,2,3-Trichloropropane	3.91		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	3.91		ug/Kg	U	YES															
1,2,4-Trimethylbenzene	3.91		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	23.4		ug/Kg	U	YES															
1,2-Dibromoethane	3.91		ug/Kg	U	YES															
1,2-Dichlorobenzene	3.91		ug/Kg	U	YES															

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5306

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field GC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dichloroethane	3.91		ug/Kg	U	YES															
1,2-Dichloropropane	3.91		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	3.91		ug/Kg	U	YES															
1,3-Dichlorobenzene	3.91		ug/Kg	U	YES															
1,3-Dichloropropane	3.91		ug/Kg	U	YES															
1,4-Dichlorobenzene	3.91		ug/Kg	U	YES															
2,2-Dichloropropane	3.91		ug/Kg	U	YES															
2-Butanone	8.84		ug/Kg	J	YES	J					J									
2-Chlorotoluene	3.91		ug/Kg	U	YES															
2-Hexanone	9.76		ug/Kg	U	YES															
4-Chlorotoluene	3.91		ug/Kg	U	YES															
4-Isopropyltoluene	3.91		ug/Kg	U	YES															
4-Methyl-2-pentanone	9.76		ug/Kg	U	YES															
Acetone	28.8		ug/Kg	J	YES	J					J									
Benzene	3.91		ug/Kg	U	YES															
Bromobenzene	3.91		ug/Kg	U	YES															
Bromochloromethane	3.91		ug/Kg	U	YES															
Bromodichloromethane	3.91		ug/Kg	U	YES															
Bromoform	3.01		ug/Kg	U	YES	UJ					UJ									
Bromomethane	3.91		ug/Kg	U	YES															
Carbon disulfide	3.91		ug/Kg	U	YES															
Carbon tetrachloride	3.91		ug/Kg	U	YES															
Chlorobenzene	3.91		ug/Kg	U	YES															
Chloroethane	3.91		ug/Kg	U	YES	UJ					UJ									
Chloroform	3.91		ug/Kg	U	YES															
Chloromethane	3.91		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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5307

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
cis-1,2-Dichloroethene	3.91		ug/Kg	U	YES															
cis-1,3-Dichloropropene	3.91		ug/Kg	U	YES															
Dibromochloromethane	3.91		ug/Kg	U	YES															
Dibromomethane	3.91		ug/Kg	U	YES															
Dichlorodifluoromethane	3.91		ug/Kg	U	YES															
Ethyl Benzene	3.91		ug/Kg	U	YES															
Hexachlorobutadiene	3.91		ug/Kg	U	YES	UJ					UJ									
Isopropylbenzene (Cumene)	3.91		ug/Kg	U	YES															
m,p-Xylene	7.81		ug/Kg	U	YES															
Methyl iodide	3.91		ug/Kg	U	YES															
Methylene chloride	2.12		ug/Kg	J	YES															
Naphthalene	3.91		ug/Kg	U	YES															
n-Butylbenzene	3.91		ug/Kg	U	YES															
n-Propylbenzene	3.91		ug/Kg	U	YES															
o-Xylene	3.91		ug/Kg	U	YES															
sec-Butylbenzene	3.91		ug/Kg	U	YES															
Styrene	3.91		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	3.91		ug/Kg	U	YES															
tert-Butylbenzene	3.91		ug/Kg	U	YES															
Tetrachloroethene	3.91		ug/Kg	U	YES															
Toluene	3.91		ug/Kg	U	YES															
trans-1,2-Dichloroethene	3.91		ug/Kg	U	YES	UJ					UJ									
trans-1,3-Dichloropropane	3.91		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	19.5		ug/Kg	U	YES															
Trichloroethene	3.91		ug/Kg	U	YES															
Trichlorofluoromethane	3.91		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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5308

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B				Dilution: 1																
Vinyl chloride	3.91		ug/Kg	U	YES															
Analysis Method : 8270D				Dilution: 1																
1,2,4-Trichlorobenzene	348		ug/Kg	U	YES															
1,2-Dichlorobenzene	348		ug/Kg	U	YES															
1,3-Dichlorobenzene	348		ug/Kg	U	YES															
1,4-Dichlorobenzene	348		ug/Kg	U	YES															
2,4,5-Trichlorophenol	348		ug/Kg	U	YES															
2,4,6-Trichlorophenol	348		ug/Kg	U	YES															
2,4-Dichlorophenol	348		ug/Kg	U	YES															
2,4-Dimethylphenol	348		ug/Kg	U	YES															
2,4-Dinitrotoluene	348		ug/Kg	U	YES															
2,6-Dinitrotoluene	348		ug/Kg	U	YES															
2-Chloronaphthalene	348		ug/Kg	U	YES															
2-Chlorophenol	348		ug/Kg	U	YES															
2-Methylnaphthalene	348		ug/Kg	U	YES															
2-Methylphenol	348		ug/Kg	U	YES															
2-Nitroaniline	348		ug/Kg	U	YES															
2-Nitrophenol	348		ug/Kg	U	YES															
3 and/or 4-Methylphenol	348		ug/Kg	U	YES															
3-Nitroaniline	340		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	348		ug/Kg	U	YES															
4-Chloro-3-methylphenol	348		ug/Kg	U	YES															
4-Chloroaniline	348		ug/Kg	U	YCC															
4-Chlorophenyl phenyl ether	348		ug/Kg	U	YES															
4-Nitroaniline	348		ug/Kg	U	YES															
4-Nitrophenol	348		ug/Kg	U	YES															
Acenaphthene	348		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5309

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Rep Limit	Moist Tol/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																			
Dilution: 1																			
Acenaphthylene	348		ug/Kg	U	YES														
Anthracene	348		ug/Kg	U	YES														
Benzo(a)anthracene	348		ug/Kg	U	YES														
Benzo(a)pyrene	348		ug/Kg	U	YES														
Benzo(b)fluoranthene	348		ug/Kg	U	YES														
Benzo(g,h,i)perylene	348		ug/Kg	U	YES														
Benzo(k)fluoranthene	348		ug/Kg	U	YES														
Bis(2-Chloroethoxy)methane	348		ug/Kg	U	YES														
Bis(2-Chloroethyl)ether	348		ug/Kg	U	YES														
Bis(2-Chloroisopropyl)ether	348		ug/Kg	U	YES														
Bis(2-Ethylhexyl)phthalate	348		ug/Kg	U	YES														
Butyl benzyl phthalate	348		ug/Kg	U	YES														
Chrysene	348		ug/Kg	U	YES														
Dibenz(a,h)anthracene	348		ug/Kg	U	YES														
Dibenzofuran	348		ug/Kg	U	YES														
Diethyl phthalate	348		ug/Kg	U	YES														
Dimethyl phthalate	348		ug/Kg	U	YES														
Di-n-butyl phthalate	348		ug/Kg	U	YES														
Di-n-octyl phthalate	348		ug/Kg	U	YES														
Fluoranthene	348		ug/Kg	U	YES														
Fluorene	348		ug/Kg	U	YES														
Hexachlorobenzene	348		ug/Kg	U	YES														
Hexachlorobutadiene	348		ug/Kg	U	YES														
Hexachlorocyclopentadiene	348		ug/Kg	U	YES														
Hexachloroethane	348		ug/Kg	U	YES														
Indeno(1,2,3-cd)pyrene	348		ug/Kg	U	YES														

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

Library Used: CampCarroll

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* 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

5310

Sample Qualification Report (All Analytes)

Client Sample ID : E11-145-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889031

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Isophorone	348		ug/Kg	U	YES															
Naphthalene	348		ug/Kg	U	YES															
Nitrobenzene	348		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	348		ug/Kg	U	YES															
Pentachlorophenol	348		ug/Kg	U	YES	UJ				UJ										
Phenanthrene	348		ug/Kg	U	YES															
Phenol	348		ug/Kg	U	YES															
Pyrene	348		ug/Kg	U	YES															

5311

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	1.65		mg/kg		YES															
Barium	116		mg/kg		YES															
Cadmium	0.850		mg/kg		YES	U							U							
Chromium	5.74		mg/kg		YES															
Lead	9.55		mg/kg		YES															
Selenium	2.17		mg/kg	U	YES															
Silver	1.08		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0201		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	10.5		ug/Kg	U	YES															
4,4'-DDD	10.5		ug/Kg	U	YES															
4,4'-DDE	1.55		ug/Kg	J	YES															
4,4'-DDE	1.55		ug/Kg	J	YES															
4,4'-DDT	1.68		ug/Kg	J	YES	U							U							
4,4'-DDT	1.68		ug/Kg	J	YES	U							U							
Aldrin	10.5		ug/Kg	U	YES															
Aldrin	10.5		ug/Kg	U	YES															
alpha-BHC	10.5		ug/Kg	U	YES															
alpha-BHC	10.5		ug/Kg	U	YES															
alpha-Chlordane	10.5		ug/Kg	U	YES															
alpha-Chlordane	10.5		ug/Kg	U	YES															
beta-BHC	10.5		ug/Kg	U	YES															
beta-BHC	10.5		ug/Kg	U	YES															
Chlordane	35.1		ug/Kg	U	YES															
Chlordane	35.1		ug/Kg	U	YES															
delta-BHC	10.5		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

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Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.5		ug/Kg	U	YES															
Dieldrin	10.5		ug/Kg	U	YES															
Dieldrin	10.5		ug/Kg	U	YES															
Endosulfan I	10.5		ug/Kg	U	YES															
Endosulfan I	10.5		ug/Kg	U	YES															
Endosulfan II	10.5		ug/Kg	U	YES															
Endosulfan II	10.5		ug/Kg	U	YES															
Endosulfan sulfate	10.5		ug/Kg	U	YES															
Endosulfan sulfate	10.5		ug/Kg	U	YES															
Endrin	10.5		ug/Kg	U	YES															
Endrin	10.5		ug/Kg	U	YES															
Endrin aldehyde	1.57		ug/Kg	J	YES															
Endrin aldehyde	1.57		ug/Kg	J	YES															
Endrin ketone	10.5		ug/Kg	U	YES															
Endrin ketone	10.5		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.5		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.5		ug/Kg	U	YES															
gamma-Chlordane	10.5		ug/Kg	U	YES															
gamma-Chlordane	10.5		ug/Kg	U	YES															
Heptachlor	10.5		ug/Kg	U	YES															
Heptachlor	10.5		ug/Kg	U	YES															
Heptachlor epoxide	10.5		ug/Kg	U	YES															
Heptachlor epoxide	10.5		ug/Kg	U	YES															
Methoxychlor	10.5		ug/Kg	U	YES															
Methoxychlor	10.5		ug/Kg	U	YES															
Toxaphene	35.1		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5313

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field GC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	35.1		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0174		mg/kg	U	YES															
2,4,5-T	0.0174		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0174		mg/kg	U	YES															
2,4'-D	0.0174		mg/kg	U	YES															
2,4'-D	0.0174		mg/kg	U	YES															
2,4-DB	0.0174		mg/kg	U	YES															
2,4-DB	0.0174		mg/kg	U	YES															
Dicamba	0.0174		mg/kg	U	YES															
Dicamba	0.0174		mg/kg	U	YES															
Analysis Method : 8250B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropene	4.32		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	4.32		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropane	4.32		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	4.32		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.32		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromo-3-chloropropane	25.9		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromoethane	4.32		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	4.32		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5314

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dichloroethane	4.32		ug/Kg	U	YES	UJ														
1,2-Dichloropropane	4.32		ug/Kg	U	YES	UJ														
1,3,5-Trimethylbenzene	4.32		ug/Kg	U	YES	UJ														
1,3-Dichlorobenzene	4.32		ug/Kg	U	YES	UJ														
1,3-Dichloropropane	4.32		ug/Kg	U	YES	UJ														
1,4-Dichlorobenzene	4.32		ug/Kg	U	YES	UJ														
2,2-Dichloropropane	4.32		ug/Kg	U	YES	UJ														
2-Butanone	27.0		ug/Kg		YES	J								J						
2-Chlorotoluene	4.32		ug/Kg	U	YES	UJ														
2-Hexanone	10.8		ug/Kg	U	YES	UJ														
4-Chlorotoluene	4.32		ug/Kg	U	YES	UJ														
4-Isopropyltoluene	4.32		ug/Kg	U	YES	UJ														
4-Methyl-2-pentanone	10.8		ug/Kg	U	YES	UJ														
Acetone	165		ug/Kg		YES	J								J						
Benzene	4.32		ug/Kg	U	YES	UJ														
Bromobenzene	4.32		ug/Kg	U	YES	UJ														
Bromochloromethane	4.32		ug/Kg	U	YES	UJ														
Bromodichloromethane	4.32		ug/Kg	U	YES	UJ														
Bromoform	4.32		ug/Kg	U	YES	UJ														
Bromomethane	4.32		ug/Kg	U	YES	UJ														
Carbon disulfide	4.32		ug/Kg	U	YES	UJ														
Carbon tetrachloride	4.32		ug/Kg	U	YES	UJ														
Chlorobenzene	4.32		ug/Kg	U	YES	UJ														
Chloroethane	4.32		ug/Kg	U	YES	UJ														
Chloroform	4.32		ug/Kg	U	YES	UJ														
Chloromethane	4.32		ug/Kg	U	YES	UJ														

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

Library Used: CampCarroll

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* 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

5315

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
cis-1,2-Dichloroethene	4.32		ug/Kg	U	YES	UJ						UJ								
cis-1,3-Dichloropropene	4.32		ug/Kg	U	YES	UJ						UJ								
Dibromochloromethane	4.32		ug/Kg	U	YES	UJ						UJ								
Dibromomethane	4.32		ug/Kg	U	YES	UJ						UJ								
Dichlorodifluoromethane	4.32		ug/Kg	U	YES	UJ						UJ								
Ethyl Benzene	4.32		ug/Kg	U	YES	UJ						UJ								
Hexachlorobutadiene	4.32		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.32		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	8.64		ug/Kg	U	YES	UJ														
Methyl iodide	3.00		ug/Kg	J	YES	J				J	J		J							
Methylene chloride	17.3		ug/Kg	U	YES	UJ						UJ								
Naphthalene	4.32		ug/Kg	U	YES	UJ						UJ								
n-Butylbenzene	4.32		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	4.32		ug/Kg	U	YES	UJ						UJ								
o-Xylene	4.32		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	4.32		ug/Kg	U	YES	UJ						UJ								
Styrene	4.32		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.32		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	4.32		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	4.32		ug/Kg	U	YES	UJ						UJ								
Toluene	4.32		ug/Kg	U	YES	UJ						UJ								
trans-1,2-Dichloroethene	4.32		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	4.32		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	21.6		ug/Kg	U	YES	UJ						UJ								
Trichloroethene	4.32		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.32		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

53/6

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Vinyl chloride	4.32		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	347		ug/Kg	U	YES															
1,2-Dichlorobenzene	347		ug/Kg	U	YES															
1,3-Dichlorobenzene	347		ug/Kg	U	YES															
1,4-Dichlorobenzene	347		ug/Kg	U	YES															
2,4,5-Trichlorophenol	347		ug/Kg	U	YES															
2,4,6-Trichlorophenol	347		ug/Kg	U	YES															
2,4-Dichlorophenol	347		ug/Kg	U	YES															
2,4-Dimethylphenol	347		ug/Kg	U	YES															
2,4-Dinitrotoluene	347		ug/Kg	U	YES															
2,6-Dinitrotoluene	347		ug/Kg	U	YES															
2-Chloronaphthalene	347		ug/Kg	U	YES															
2-Chlorophenol	347		ug/Kg	U	YES															
2-Methylnaphthalene	347		ug/Kg	U	YES															
2-Methylphenol	347		ug/Kg	U	YES															
2-Nitroaniline	347		ug/Kg	U	YES															
2-Nitrophenol	347		ug/Kg	U	YES															
3 and/or 4-Methylphenol	347		ug/Kg	U	YES															
3-Nitroaniline	347		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	347		ug/Kg	U	YES															
4-Chloro-3-methylphenol	347		ug/Kg	U	YES															
4-Chloroaniline	347		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	347		ug/Kg	U	YES															
4-Nitroaniline	347		ug/Kg	U	YES															
4-Nitrophenol	347		ug/Kg	U	YES															
Acenaphthene	347		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5317

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889038

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Acenaphthylene	347		ug/Kg	U	YES															
Anthracene	347		ug/Kg	U	YES															
Benzo(a)anthracene	347		ug/Kg	U	YES															
Benzo(a)pyrene	347		ug/Kg	U	YES															
Benzo(b)fluoranthene	347		ug/Kg	U	YES															
Benzo(g,h,i)perylene	347		ug/Kg	U	YES															
Benzo(k)fluoranthene	347		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	347		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	347		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	347		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	347		ug/Kg	U	YES															
Butyl benzyl phthalate	347		ug/Kg	U	YES															
Chrysene	347		ug/Kg	U	YES															
Dibenz(a,h)anthracene	347		ug/Kg	U	YES															
Dibenzofuran	347		ug/Kg	U	YES															
Diethyl phthalate	347		ug/Kg	U	YES															
Dimethyl phthalate	347		ug/Kg	U	YES															
Di-n-butyl phthalate	347		ug/Kg	U	YES															
Di-n-octyl phthalate	347		ug/Kg	U	YES															
Fluoranthene	347		ug/Kg	U	YES															
Fluorene	347		ug/Kg	U	YES															
Hexachlorobenzene	347		ug/Kg	U	YES															
Hexachlorobutadiene	347		ug/Kg	U	YES															
Hexachlorocyclopentadiene	347		ug/Kg	U	YES															
Hexachloroethane	347		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	347		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5318

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S1

Lab Report Batch : 31101889

Lab ID : SGSW

Sample Date : 07/16/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889038

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Isophorone	347		ug/Kg	U	YES															
Naphthalene	347		ug/Kg	U	YES															
Nitrobenzene	347		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	347		ug/Kg	U	YES															
Pentachlorophenol	347		ug/Kg	U	YES	UJ				UJ										
Phenanthrene	347		ug/Kg	U	YES															
Phenol	347		ug/Kg	U	YES															
Pyrene	347		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5319

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	1.22		mg/kg		YES															
Barium	65.6		mg/kg		YES															
Cadmium	0.699		mg/kg		YES	U				U										
Chromium	3.86		mg/kg		YES															
Lead	4.09		mg/kg		YES															
Selenium	1.96		mg/kg	U	YES															
Silver	0.981		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0186		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	10.0		ug/Kg	U	YES															
4,4'-DDE	10.0		ug/Kg	U	YES															
4,4'-DDT	10.0		ug/Kg	U	YES															
Aldrin	10.0		ug/Kg	U	YES															
alpha-BHC	10.0		ug/Kg	U	YES															
alpha-Chlordane	10.0		ug/Kg	U	YES															
beta-BHC	10.0		ug/Kg	U	YES															
Chlordane	33.3		ug/Kg	U	YES															
delta-BHC	10.0		ug/Kg	U	YES															
Dieldrin	10.0		ug/Kg	U	YES															
Endosulfan I	10.0		ug/Kg	U	YES															
Endosulfan II	10.0		ug/Kg	U	YES															
Endosulfan sulfate	10.0		ug/Kg	U	YES															
Endrin	10.0		ug/Kg	U	YES															
Endrin aldehyde	10.0		ug/Kg	U	YES															
Endrin ketone	10.0		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.0		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

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* 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

5320

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
gamma-Chlordane	10.0		ug/Kg	U	YES															
Heptachlor	10.0		ug/Kg	U	YES															
Heptachlor epoxide	10.0		ug/Kg	U	YES															
Methoxychlor	10.0		ug/Kg	U	YES															
Toxaphene	33.3		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0162		mg/kg	U	YES															
2,4,5-T	0.0162		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0162		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0162		mg/kg	U	YES															
2,4-D	0.0162		mg/kg	U	YES															
2,4-D	0.0162		mg/kg	U	YES															
2,4-DB	0.0162		mg/kg	U	YES															
2,4-DB	0.0162		mg/kg	U	YES															
Dicamba	0.0162		mg/kg	U	YES															
Dicamba	0.0162		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethene	4.50		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropene	4.50		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropane	4.50		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5321

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2,4-Trimethylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromo-3-chloropropane	27.0		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromoethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloropropane	4.50		ug/Kg	U	YES	UJ						UJ								
1,3,5-Trimethylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,3-Dichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
1,3-Dichloropropane	4.50		ug/Kg	U	YES	UJ						UJ								
1,4-Dichlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
2,2-Dichloropropane	4.50		ug/Kg	U	YES	UJ						UJ								
2-Butanone	22.5		ug/Kg	U	YES	UJ						UJ								
2-Chlorotoluene	4.50		ug/Kg	U	YES	UJ						UJ								
2-Hexanone	11.2		ug/Kg	U	YES	UJ						UJ								
4-Chlorotoluene	4.50		ug/Kg	U	YES	UJ						UJ								
4-Isopropyltoluene	4.50		ug/Kg	U	YES	UJ						UJ								
4-Methyl-2-pentanone	11.2		ug/Kg	U	YES	UJ						UJ								
Acetone	12.8		ug/Kg	J	YES	J						J								
Benzene	4.50		ug/Kg	U	YES	UJ						UJ								
Bromobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
Bromochloromethane	4.50		ug/Kg	U	YES	UJ						UJ								
Bromodichloromethane	4.50		ug/Kg	U	YES	UJ						UJ								
Bromoform	4.50		ug/Kg	U	YES	UJ						UJ								
Bromomethane	4.50		ug/Kg	U	YES	UJ						UJ								
Carbon disulfide	4.50		ug/Kg	U	YES	UJ					UJ	UJ								
Carbon tetrachloride	4.50		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5322

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Chlorobenzene	4.50		ug/Kg	U	YES	UJ						UJ								
Chloroethane	4.50		ug/Kg	U	YES	UJ						UJ								
Chloroform	4.50		ug/Kg	U	YES	UJ						UJ								
Chloromethane	4.50		ug/Kg	U	YES	UJ						UJ								
cis-1,2-Dichloroethene	4.50		ug/Kg	U	YES	UJ						UJ								
cis-1,3-Dichloropropene	4.50		ug/Kg	U	YES	UJ						UJ								
Dibromochloromethane	4.50		ug/Kg	U	YES	UJ						UJ								
Dibromomethane	4.50		ug/Kg	U	YES	UJ						UJ								
Dichlorodifluoromethane	4.50		ug/Kg	U	YES	UJ						UJ								
Ethyl Benzene	4.50		ug/Kg	U	YES	UJ						UJ								
Hexachlorobutadiene	4.50		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.50		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	8.99		ug/Kg	U	YES	UJ						UJ								
Methyl Iodide	4.50		ug/Kg	U	YES	UJ						UJ	UJ							
Methylene chloride	1.72		ug/Kg	J	YES	J						J								
Naphthalene	4.50		ug/Kg	U	YES	UJ						UJ								
n-Butylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
o-Xylene	4.50		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
Styrene	4.50		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.50		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	4.50		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	4.50		ug/Kg	U	YES	UJ						UJ								
Toluene	0.890		ug/Kg	J	YES	J						J								
trans-1,2-Dichloroethene	4.50		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

53 23

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Rep Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
trans-1,3-Dichloropropene	4.50		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	22.5		ug/Kg	U	YES															
Trichloroethene	4.50		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.50		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	4.50		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	328		ug/Kg	U	YES															
1,2-Dichlorobenzene	328		ug/Kg	U	YES															
1,3-Dichlorobenzene	328		ug/Kg	U	YES															
1,4-Dichlorobenzene	328		ug/Kg	U	YES															
2,4,5-Trichlorophenol	328		ug/Kg	U	YES															
2,4,6-Trichlorophenol	328		ug/Kg	U	YES															
2,4-Dichlorophenol	328		ug/Kg	U	YES															
2,4-Dimethylphenol	328		ug/Kg	U	YES															
2,4-Dinitrotoluene	328		ug/Kg	U	YES															
2,6-Dinitrotoluene	328		ug/Kg	U	YES															
2-Chloronaphthalene	328		ug/Kg	U	YES															
2-Chlorophenol	328		ug/Kg	U	YES															
2-Methylnaphthalene	328		ug/Kg	U	YES															
2-Methylphenol	328		ug/Kg	U	YES															
2-Nitroaniline	328		ug/Kg	U	YES															
2-Nitrophenol	328		ug/Kg	U	YES															
3 and/or 4-Methylphenol	328		ug/Kg	U	YES															
3-Nitroaniline	328		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	328		ug/Kg	U	YES															
4-Chloro-3-methylphenol	328		ug/Kg	U	YES															
4-Chloroaniline	328		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5324

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Rep Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
4-Chlorophenyl phenyl ether	328		ug/Kg	U	YES															
4-Nitroaniline	328		ug/Kg	U	YES															
4-Nitrophenol	328		ug/Kg	U	YES															
Acenaphthene	328		ug/Kg	U	YES															
Acenaphthylene	328		ug/Kg	U	YES															
Anthracene	328		ug/Kg	U	YES															
Benzo(a)anthracene	328		ug/Kg	U	YES															
Benzo(a)pyrene	328		ug/Kg	U	YES															
Benzo(b)fluoranthene	328		ug/Kg	U	YES															
Benzo(g,h,i)perylene	328		ug/Kg	U	YES															
Benzo(k)fluoranthene	328		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	328		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	328		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	328		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	91.7		ug/Kg	J	YES															
Butyl benzyl phthalate	328		ug/Kg	U	YES															
Chrysene	328		ug/Kg	U	YES															
Dibenz(a,h)anthracene	328		ug/Kg	U	YES															
Dibenzofuran	328		ug/Kg	U	YES															
Diethyl phthalate	328		ug/Kg	U	YES															
Dimethyl phthalate	328		ug/Kg	U	YES															
Di-n-butyl phthalate	328		ug/Kg	U	YES															
Di-n-octyl phthalate	328		ug/Kg	U	YES															
Fluoranthene	328		ug/Kg	U	YES															
Fluorene	328		ug/Kg	U	YES															
Hexachlorobenzene	328		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

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* 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

5325

Sample Qualification Report (All Analytes)

Client Sample ID : E11-147-S2
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889039

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Hexachlorobutadiene	328		ug/Kg	U	YES															
Hexachlorocyclopentadiene	328		ug/Kg	U	YES															
Hexachloroethane	328		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	328		ug/Kg	U	YES															
Isophorone	328		ug/Kg	U	YES															
Naphthalene	328		ug/Kg	U	YES															
Nitrobenzene	328		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	328		ug/Kg	U	YES															
Pentachlorophenol	328		ug/Kg	U	YES	UJ					UJ									
Phenanthrene	328		ug/Kg	U	YES															
Phenol	328		ug/Kg	U	YES															
Pyrene	328		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5326

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C			Dilution: 1																	
Arsenic	4.36		mg/kg		YES	J						J	J							
Barium	78.7		mg/kg		YES	J														
Cadmium	1.09		mg/kg		YES	U			U											
Chromium	5.31		mg/kg		YES	J						J								
Lead	15.1		mg/kg		YES	J						J								
Selenium	2.21		mg/kg	U	YES	J														
Silver	1.10		mg/kg	U	YES	J														
Analysis Method : 7471B			Dilution: 1																	
Mercury	0.00278		mg/kg	J	YES	J														
Analysis Method : 8081			Dilution: 1																	
4,4'-DDD	3.27		ug/Kg	J	YES	J														
4,4'-DDD	3.27		ug/Kg	J	YES	J														
4,4'-DDE	10.4		ug/Kg	U	YES	J														
4,4'-DDE	10.4		ug/Kg	U	YES	J														
4,4'-DDT	4.92		ug/Kg	J	YES	UJ			U			J								
4,4'-DDT	4.92		ug/Kg	J	YES	UJ			U			J								
Aldrin	10.4		ug/Kg	U	YES	J														
Aldrin	10.4		ug/Kg	U	YES	J														
alpha-BHC	10.4		ug/Kg	U	YES	J														
alpha-BHC	10.4		ug/Kg	U	YES	J														
alpha-Chlordane	10.4		ug/Kg	U	YES	J														
alpha-Chlordane	10.4		ug/Kg	U	YES	J														
beta-BHC	10.4		ug/Kg	U	YES	J														
beta-BHC	10.4		ug/Kg	U	YES	J														
Chlordane	34.7		ug/Kg	U	YES	J														
Chlordane	34.7		ug/Kg	U	YES	J														
delta-BHC	10.4		ug/Kg	U	YES	J														

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5327

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101869020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.4		ug/Kg	U	YES															
Dieldrin	10.4		ug/Kg	U	YES															
Dieldrin	10.4		ug/Kg	U	YES															
Endosulfan I	10.4		ug/Kg	U	YES															
Endosulfan I	10.4		ug/Kg	U	YES															
Endosulfan II	10.4		ug/Kg	U	YES															
Endosulfan II	10.4		ug/Kg	U	YES															
Endosulfan sulfate	10.4		ug/Kg	U	YES															
Endosulfan sulfate	10.4		ug/Kg	U	YES															
Endrin	10.4		ug/Kg	U	YES															
Endrin	10.4		ug/Kg	U	YES															
Endrin aldehyde	10.4		ug/Kg	U	YES															
Endrin aldehyde	10.4		ug/Kg	U	YES															
Endrin ketone	10.4		ug/Kg	U	YES															
Endrin ketone	10.4		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.4		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.4		ug/Kg	U	YES															
gamma-Chlordane	10.4		ug/Kg	U	YES															
gamma-Chlordane	10.4		ug/Kg	U	YES															
Heptachlor	10.4		ug/Kg	U	YES															
Heptachlor	10.4		ug/Kg	U	YES															
Heptachlor epoxide	10.4		ug/Kg	U	YES															
Heptachlor epoxide	10.4		ug/Kg	U	YES															
Methoxychlor	10.4		ug/Kg	U	YES															
Methoxychlor	10.4		ug/Kg	U	YES															
Toxaphene	34.7		ug/Kg	IJ	YFS															

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

Library Used: CampCarroll

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* 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

5328

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	34.7		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0173		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0173		mg/kg	U	YES															
2,4-D	0.0173		mg/kg	U	YES															
2,4-DB	0.0173		mg/kg	U	YES															
Dicamba	0.0173		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.66		ug/Kg	U	YES	UJ														
1,1,1-Trichloroethane	4.66		ug/Kg	U	YES	UJ														
1,1,2,2-Tetrachloroethane	4.66		ug/Kg	U	YES	UJ														
1,1,2-Trichloroethane	4.66		ug/Kg	U	YES	UJ														
1,1-Dichloroethane	4.66		ug/Kg	U	YES	UJ														
1,1-Dichloroethene	4.66		ug/Kg	U	YES	UJ														
1,1-Dichloropropene	4.66		ug/Kg	U	YES	UJ														
1,2,3-Trichlorobenzene	4.66		ug/Kg	U	YES	UJ														
1,2,3-Trichloropropane	4.66		ug/Kg	U	YES	UJ														
1,2,4-Trichlorobenzene	4.66		ug/Kg	U	YES	UJ														
1,2,4-Trimethylbenzene	4.66		ug/Kg	U	YES	UJ														
1,2-Dibromo-3-chloropropane	28.0		ug/Kg	U	YES	UJ														
1,2-Dibromoethane	4.66		ug/Kg	U	YES	UJ														
1,2-Dichlorobenzene	4.66		ug/Kg	U	YES	UJ														
1,2-Dichloroethane	4.66		ug/Kg	U	YES	UJ														
1,2-Dichloropropane	4.66		ug/Kg	U	YES	UJ														
1,3,5-Trimethylbenzene	4.66		ug/Kg	U	YES	UJ														
1,3-Dichlorobenzene	4.66		ug/Kg	U	YES	UJ														
1,3-Dichloropropane	4.66		ug/Kg	U	YES	UJ														

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5329

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	4.66		ug/Kg	U	YES	UJ						UJ								
2,2-Dichloropropane	4.66		ug/Kg	U	YES	UJ						UJ								
2-Butanone	23.3		ug/Kg	U	YES	UJ						UJ								
2-Chlorotoluene	4.66		ug/Kg	U	YES	UJ						UJ								
2-Hexanone	11.7		ug/Kg	U	YES	UJ						UJ								
4-Chlorotoluene	4.66		ug/Kg	U	YES	UJ						UJ								
4-Isopropyltoluene	4.66		ug/Kg	U	YES	UJ						UJ								
4-Methyl-2-pentanone	11.7		ug/Kg	U	YES	UJ						UJ								
Acelone	19.5		ug/Kg	J	YES	J						J								
Benzene	4.66		ug/Kg	U	YES	UJ						UJ								
Bromobenzene	4.66		ug/Kg	U	YES	UJ						UJ								
Bromochloromethane	4.66		ug/Kg	U	YES	UJ						UJ								
Bromodichloromethane	4.66		ug/Kg	U	YES	UJ						UJ								
Bromoform	4.66		ug/Kg	U	YES	UJ						UJ								
Bromomethane	4.66		ug/Kg	U	YES	UJ						UJ								
Carbon disulfide	4.66		ug/Kg	U	YES	UJ					UJ	UJ								
Carbon tetrachloride	4.66		ug/Kg	U	YES	UJ						UJ								
Chlorobenzene	4.66		ug/Kg	U	YES	UJ						UJ								
Chloroethane	4.66		ug/Kg	U	YES	UJ						UJ								
Chloroform	4.66		ug/Kg	U	YES	UJ						UJ								
Chloromethane	4.66		ug/Kg	U	YES	UJ						UJ								
cis-1,2-Dichloroethene	4.66		ug/Kg	U	YES	UJ						UJ								
cis-1,3-Dichloropropene	4.66		ug/Kg	U	YES	UJ						UJ								
Dibromochloromethane	4.66		ug/Kg	U	YES	UJ						UJ								
Dibromomethane	4.66		ug/Kg	U	YES	UJ						UJ								
Dichlorodifluoromethane	4.66		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

ADR 8.2

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* 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

5330

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	4.66		ug/Kg	U	YES	UJ						UJ								
Hexachlorobutadiene	4.66		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.66		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	9.32		ug/Kg	U	YES	UJ														
Methyl iodide	4.66		ug/Kg	U	YES	UJ				UJ	UJ									
Methylene chloride	1.94		ug/Kg	J	YES	J					J									
Naphthalene	4.66		ug/Kg	U	YES	UJ						UJ								
n-Butylbenzene	4.66		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	4.66		ug/Kg	U	YES	UJ						UJ								
o-Xylene	4.66		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	4.66		ug/Kg	U	YES	UJ						UJ								
Styrene	4.66		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.66		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	4.66		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	4.66		ug/Kg	U	YES	UJ						UJ								
Toluene	1.14		ug/Kg	J	YES	J					J									
trans-1,2-Dichloroethene	4.66		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	4.66		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	23.3		ug/Kg	U	YES	UJ														
Trichloroethene	4.66		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.66		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	4.66		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	352		ug/Kg	U	YES															
1,2-Dichlorobenzene	352		ug/Kg	U	YES															
1,3-Dichlorobenzene	352		ug/Kg	U	YES															
1,4-Dichlorobenzene	352		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5331

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2,4,5-Trichlorophenol	352		ug/Kg	U	YES															
2,4,6-Trichlorophenol	352		ug/Kg	U	YES															
2,4-Dichlorophenol	352		ug/Kg	U	YES															
2,4-Dimethylphenol	352		ug/Kg	U	YES															
2,4-Dinitrotoluene	352		ug/Kg	U	YES															
2,6-Dinitrotoluene	352		ug/Kg	U	YES															
2-Chloronaphthalene	352		ug/Kg	U	YES															
2-Chlorophenol	352		ug/Kg	U	YES															
2-Methylnaphthalene	352		ug/Kg	U	YES															
2-Methylphenol	352		ug/Kg	U	YES															
2-Nitroaniline	352		ug/Kg	U	YES															
2-Nitrophenol	352		ug/Kg	U	YES															
3 and/or 4-Methylphenol	352		ug/Kg	U	YES															
3-Nitroaniline	352		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	352		ug/Kg	U	YES															
4-Chloro-3-methylphenol	352		ug/Kg	U	YES															
4-Chloroaniline	352		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	352		ug/Kg	U	YES															
4-Nitroaniline	352		ug/Kg	U	YES															
4 Nitrophenol	352		ug/Kg	U	YES															
Acenaphthene	352		ug/Kg	U	YES															
Acenaphthylene	352		ug/Kg	U	YES															
Anthracene	352		ug/Kg	U	YES															
Benzo(a)anthracene	352		ug/Kg	U	YES															
Benzo(a)pyrene	352		ug/Kg	U	YES															
Benzo(b)fluoranthene	352		ug/Kg	U	YES															

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5332

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	352		ug/Kg	U	YES															
Benzo(k)fluoranthene	352		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	352		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	352		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	352		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	352		ug/Kg	U	YES															
Butyl benzyl phthalate	352		ug/Kg	U	YES															
Chrysene	352		ug/Kg	U	YES															
Dibenz(a,h)anthracene	352		ug/Kg	U	YES															
Dibenzofuran	352		ug/Kg	U	YES															
Diethyl phthalate	352		ug/Kg	U	YES															
Dimethyl phthalate	352		ug/Kg	U	YES															
Di-n-butyl phthalate	352		ug/Kg	U	YES															
Di-n-octyl phthalate	352		ug/Kg	U	YES															
Fluoranthene	352		ug/Kg	U	YES															
Fluorene	352		ug/Kg	U	YES															
Hexachlorobenzene	352		ug/Kg	U	YES															
Hexachlorobutadiene	352		ug/Kg	U	YES															
Hexachlorocyclopentadiene	352		ug/Kg	U	YES															
Hexachlorocyclohexane	352		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	352		ug/Kg	U	YES															
Isophorone	352		ug/Kg	U	YES															
Naphthalene	352		ug/Kg	U	YES															
Nitrobenzene	352		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	352		ug/Kg	U	YES															
Pentachlorophenol	352		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5333

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889020

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dts	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8270D																				
Dilution: 1																				
Phenanthrene	352		ug/Kg	U	YES															
Phenol	352		ug/Kg	U	YES															
Pyrene	352		ug/Kg	U	YES															

5334

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty/ Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8081																				
Dilution: 10																				
4,4'-DDD	30.9		ug/Kg	J	YES	J							J							
4,4'-DDD	30.9		ug/Kg	J	YES	J							J							
4,4'-DDE	15.4		ug/Kg	J	YES	J							J							
4,4'-DDE	15.4		ug/Kg	J	YES	J							J							
4,4'-DDT	134		ug/Kg		YES	J					J		J							
4,4'-DDT	134		ug/Kg		YES	J					J		J							
Aldrin	104		ug/Kg	U	YES	UJ							UJ							
Aldrin	104		ug/Kg	U	YES	UJ							UJ							
alpha-BHC	104		ug/Kg	U	YES	UJ							UJ							
alpha-BHC	104		ug/Kg	U	YES	UJ							UJ							
alpha-Chlordane	104		ug/Kg	U	YES	UJ							UJ							
alpha-Chlordane	104		ug/Kg	U	YES	UJ							UJ							
beta-BHC	104		ug/Kg	U	YES	UJ							UJ							
beta-BHC	104		ug/Kg	U	YES	UJ							UJ							
Chlordane	347		ug/Kg	U	YES	UJ							UJ							
Chlordane	347		ug/Kg	U	YES	UJ							UJ							
delta-BHC	104		ug/Kg	U	YES	UJ							UJ							
delta-BHC	104		ug/Kg	U	YES	UJ							UJ							
Dieldrin	104		ug/Kg	U	YES	UJ							UJ							
Dieldrin	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan I	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan I	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan II	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan II	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan sulfate	104		ug/Kg	U	YES	UJ							UJ							
Endosulfan sulfate	104		ug/Kg	U	YES	UJ							UJ							

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5335

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 Analysis Type: DL

Lab ID : SGSW
 Sample Matrix : SO

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 10																				
Endrin	104		ug/Kg	U	YES	UJ							UJ							
Endrin	104		ug/Kg	U	YES	UJ							UJ							
Endrin aldehyde	104		ug/Kg	U	YES	UJ							UJ							
Endrin aldehyde	104		ug/Kg	U	YES	UJ							UJ							
Endrin ketone	104		ug/Kg	U	YES	UJ							UJ							
Endrin ketone	104		ug/Kg	U	YES	UJ							UJ							
gamma-BHC (Lindane)	104		ug/Kg	U	YES	UJ							UJ							
gamma-BHC (Lindane)	104		ug/Kg	U	YES	UJ							UJ							
gamma-Chlordane	104		ug/Kg	U	YES	UJ							UJ							
gamma-Chlordane	104		ug/Kg	U	YES	UJ							UJ							
Heptachlor	104		ug/Kg	U	YES	UJ							UJ							
Heptachlor	104		ug/Kg	U	YES	UJ							UJ							
Heptachlor epoxide	104		ug/Kg	U	YES	UJ							UJ							
Heptachlor epoxide	104		ug/Kg	U	YES	UJ							UJ							
Methoxychlor	104		ug/Kg	U	YES	UJ							UJ							
Methoxychlor	104		ug/Kg	U	YES	UJ							UJ							
Toxaphene	347		ug/Kg	U	YES	UJ							UJ							
Toxaphene	347		ug/Kg	U	YES	UJ							UJ							

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/8/2011 09:53

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* 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

5336

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 6010C				Dilution: 1																
Arsenic	6.19		mg/kg		YES															
Barium	112		mg/kg		YES															
Cadmium	1.07		mg/kg		YES	U							U							
Chromium	4.39		mg/kg		YES															
Lead	19.4		mg/kg		YES															
Selenium	1.01		mg/kg	J	YES															
Silver	1.03		mg/kg	U	YES															
Analysis Method : 7471B				Dilution: 1																
Mercury	0.00154		mg/kg	J	YES															
Analysis Method : 8151				Dilution: 1																
2,4,5-T	0.0169		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0169		mg/kg	U	YES															
2,4-D	0.0169		mg/kg	U	YES															
2,4-DB	0.0169		mg/kg	U	YES															
Dicamba	0.0169		mg/kg	U	YES															
Analysis Method : 8260B				Dilution: 1																
1,1,1,2-Tetrachloroethane	4.44		ug/kg	U	YES															
1,1,1-Trichloroethane	4.44		ug/kg	U	YES															
1,1,2,2-Tetrachloroethane	4.44		ug/kg	U	YES	I,I														
1,1,2-Trichloroethane	4.44		ug/kg	U	YES															
1,1-Dichloroethane	4.44		ug/kg	U	YES															
1,1-Dichloroethene	4.44		ug/kg	U	YES															
1,1-Dichloropropene	4.44		ug/kg	U	YES															
1,2,3-Trichlorobenzene	4.44		ug/kg	U	YES															
1,2,3-Trichloropropane	4.44		ug/kg	U	YES															
1,2,4-Trichlorobenzene	4.44		ug/kg	U	YES															
1,2,4-Trimethylbenzene	4.44		ug/kg	U	YES															

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

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* 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

53 37

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,2-Dibromo-3-chloropropane	26.6		ug/Kg	U	YES															
1,2-Dibromoethane	4.44		ug/Kg	U	YES															
1,2-Dichlorobenzene	4.44		ug/Kg	U	YES															
1,2-Dichloroethane	4.44		ug/Kg	U	YES															
1,2-Dichloropropane	4.44		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	4.44		ug/Kg	U	YES															
1,3-Dichlorobenzene	4.44		ug/Kg	U	YES															
1,3-Dichloropropane	4.44		ug/Kg	U	YES															
1,4-Dichlorobenzene	4.44		ug/Kg	U	YES															
2,2-Dichloropropane	4.44		ug/Kg	U	YES															
2-Butanone	22.2		ug/Kg	U	YES															
2-Chlorotoluene	4.44		ug/Kg	U	YES															
2-Hexanone	11.1		ug/Kg	U	YES															
4-Chlorotoluene	4.44		ug/Kg	U	YES															
4-Isopropyltoluene	4.44		ug/Kg	U	YES															
4-Methyl-2-pentanone	11.1		ug/Kg	U	YES															
Acetone	80.7		ug/Kg	U	YES	J					J									
Benzene	4.44		ug/Kg	U	YES															
Bromobenzene	4.44		ug/Kg	U	YES															
Bromochloromethane	4.44		ug/Kg	U	YES															
Bromodichloromethane	4.44		ug/Kg	U	YES															
Bromoform	4.44		ug/Kg	U	YES	UJ					UJ									
Bromomethane	4.44		ug/Kg	U	YES															
Carbon disulfide	4.44		ug/Kg	U	YES															
Carbon tetrachloride	4.44		ug/Kg	U	YES															
Chlorobenzene	4.44		ug/Kg	U	YES															

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5338

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field GC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Chloroethane	4.44		ug/Kg	U	YES	UJ						UJ								
Chloroform	4.44		ug/Kg	U	YES															
Chloromethane	4.44		ug/Kg	U	YES															
cis-1,2-Dichloroethene	4.44		ug/Kg	U	YES															
cis-1,3-Dichloropropene	4.44		ug/Kg	U	YES															
Dibromochloromethane	4.44		ug/Kg	U	YES															
Dibromomethane	4.44		ug/Kg	U	YES															
Dichlorodifluoromethane	4.44		ug/Kg	U	YES															
Ethyl Benzene	4.44		ug/Kg	U	YES															
Hexachlorobutadiene	4.44		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.44		ug/Kg	U	YES															
m,p-Xylene	8.88		ug/Kg	U	YES															
Methyl iodide	4.44		ug/Kg	U	YES															
Methylene chloride	2.27		ug/Kg	J	YES															
Naphthalene	4.44		ug/Kg	U	YES															
n-Butylbenzene	4.44		ug/Kg	U	YES															
n-Propylbenzene	4.44		ug/Kg	U	YES															
o-Xylene	4.44		ug/Kg	U	YES															
sec-Butylbenzene	4.44		ug/Kg	U	YES															
Styrene	4.44		ug/Kg	U	YCC															
tert-Butyl methyl ether (MTBE)	4.44		ug/Kg	U	YES															
tert-Butylbenzene	4.44		ug/Kg	U	YES															
Tetrahydroethene	1.73		ug/Kg	J	YES															
Toluene	4.44		ug/Kg	U	YES															
trans-1,2-Dichloroethene	4.44		ug/Kg	U	YES	UJ							UJ							
trans-1,3-Dichloropropene	4.44		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5339

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
trans-1,4-Dichloro-2-butene	22.2		ug/Kg	U	YES															
Trichloroethene	4.44		ug/Kg	U	YES															
Trichlorofluoromethane	4.44		ug/Kg	U	YES															
Vinyl chloride	4.44		ug/Kg	U	YES															
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	352		ug/Kg	U	YES															
1,2-Dichlorobenzene	352		ug/Kg	U	YES															
1,3-Dichlorobenzene	352		ug/Kg	U	YES															
1,4-Dichlorobenzene	352		ug/Kg	U	YES															
2,4,5-Trichlorophenol	352		ug/Kg	U	YES															
2,4,6-Trichlorophenol	352		ug/Kg	U	YES															
2,4-Dichlorophenol	352		ug/Kg	U	YES															
2,4-Dimethylphenol	352		ug/Kg	U	YES															
2,4-Dinitrotoluene	352		ug/Kg	U	YES															
2,6-Dinitrotoluene	352		ug/Kg	U	YES															
2-Chloronaphthalene	352		ug/Kg	U	YES															
2-Chlorophenol	352		ug/Kg	U	YES															
2-Methylnaphthalene	352		ug/Kg	U	YES															
2-Methylphenol	352		ug/Kg	U	YES															
2-Nitroaniline	352		ug/Kg	U	YES															
2-Nitrophenol	352		ug/Kg	U	YES															
3 and/or 4-Methylphenol	352		ug/Kg	U	YES															
3 Nitroaniline	352		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	352		ug/Kg	U	YES															
4-Chloro-3-methylphenol	352		ug/Kg	U	YES															
4-Chloroaniline	352		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	352		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5340

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
4-Nitroaniline	352		ug/Kg	U	YES															
4-Nitrophenol	352		ug/Kg	U	YES															
Acenaphthene	352		ug/Kg	U	YES															
Acenaphthylene	352		ug/Kg	U	YES															
Anthracene	352		ug/Kg	U	YES															
Benzo(a)anthracene	352		ug/Kg	U	YES															
Benzo(a)pyrene	352		ug/Kg	U	YES															
Benzo(b)fluoranthene	352		ug/Kg	U	YES															
Benzo(g,h,i)perylene	352		ug/Kg	U	YES															
Benzo(k)fluoranthene	352		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	352		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	352		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	352		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	35.1		ug/Kg	J	YES															
Butyl benzyl phthalate	352		ug/Kg	U	YES															
Chrysene	352		ug/Kg	U	YES															
Dibenz(a,h)anthracene	352		ug/Kg	U	YES															
Dibenzofuran	352		ug/Kg	U	YES															
Diethyl phthalate	352		ug/Kg	U	YES															
Dimethyl phthalate	59.6		ug/Kg	J	YES															
Di-n-butyl phthalate	352		ug/Kg	U	YES															
Di-n-octyl phthalate	352		ug/Kg	U	YES															
Fluoranthene	352		ug/Kg	U	YES															
Fluorene	352		ug/Kg	U	YES															
Hexachlorobenzene	352		ug/Kg	U	YES															
Hexachlorobutadiene	352		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5341

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889021

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Hexachlorocyclopentadiene	352		ug/Kg	U	YES															
Hexachloroethane	352		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	352		ug/Kg	U	YES															
Isophorone	352		ug/Kg	U	YES															
Naphthalene	352		ug/Kg	U	YES															
Nitrobenzene	352		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	352		ug/Kg	U	YES															
Pentachlorophenol	352		ug/Kg	U	YES	UJ					UJ									
Phenanthrene	352		ug/Kg	U	YES															
Phenol	352		ug/Kg	U	YES															
Pyrene	352		ug/Kg	U	YES															

5342

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C				Dilution: 1																
Arsenic	2.86		mg/kg		YES	J						J	J							
Barium	74.9		mg/kg		YES															
Cadmium	0.769		mg/kg		YES	U			U											
Chromium	4.46		mg/kg		YES	J							J							
Lead	7.02		mg/kg		YES	J						J								
Selenium	0.700		mg/kg	J	YES															
Silver	0.934		mg/kg	U	YES															
Analysis Method : 7471B				Dilution: 1																
Mercury	0.0204		mg/kg	U	YES															
Analysis Method : 8081				Dilution: 1																
4,4'-DDD	10.0		ug/Kg	U	YES															
4,4'-DDD	10.0		ug/Kg	U	YES															
4,4'-DDE	10.0		ug/Kg	U	YES															
4,4'-DDE	10.0		ug/Kg	U	YES															
4,4'-DDT	3.43		ug/Kg	J	YES	UJ			U			J								
4,4'-DDT	3.43		ug/Kg	J	YES	UJ			U			J								
Aldrin	10.0		ug/Kg	U	YES															
Aldrin	10.0		ug/Kg	U	YES															
alpha-DIC	10.0		ug/Kg	U	YES															
alpha-BHC	10.0		ug/Kg	U	YES															
alpha-Chlordane	10.0		ug/Kg	U	YES															
alpha-Chlordane	10.0		ug/Kg	U	YES															
beta-BHC	10.0		ug/Kg	U	YES															
beta-BHC	10.0		ug/Kg	U	YES															
Chlordane	33.4		ug/Kg	U	YES															
Chlordane	33.4		ug/Kg	U	YES															
delta-BHC	10.0		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5343

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.0		ug/Kg	U	YES															
Dieldrin	10.0		ug/Kg	U	YES															
Dieldrin	10.0		ug/Kg	U	YES															
Endosulfan I	10.0		ug/Kg	U	YES															
Endosulfan I	10.0		ug/Kg	U	YES															
Endosulfan II	10.0		ug/Kg	U	YES															
Endosulfan II	10.0		ug/Kg	U	YES															
Endosulfan sulfate	10.0		ug/Kg	U	YES															
Endosulfan sulfate	10.0		ug/Kg	U	YES															
Endrin	10.0		ug/Kg	U	YES															
Endrin	10.0		ug/Kg	U	YES															
Endrin aldehyde	10.0		ug/Kg	U	YES															
Endrin aldehyde	10.0		ug/Kg	U	YES															
Endrin ketone	10.0		ug/Kg	U	YES															
Endrin ketone	10.0		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.0		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.0		ug/Kg	U	YES															
gamma-Chlordane	10.0		ug/Kg	U	YES															
gamma-Chlordane	10.0		ug/Kg	U	YES															
Heptachlor	10.0		ug/Kg	U	YES															
Heptachlor	10.0		ug/Kg	U	YES															
Heptachlor epoxide	10.0		ug/Kg	U	YES															
Heptachlor epoxide	10.0		ug/Kg	U	YES															
Methoxychlor	10.0		ug/Kg	U	YES															
Methoxychlor	10.0		ug/Kg	U	YES															
Toxaphene	33.4		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5344

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	33.4		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0168		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0168		mg/kg	U	YES															
2,4'-D	0.0168		mg/kg	U	YES															
2,4-DB	0.0168		mg/kg	U	YES															
Dicamba	0.0168		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethene	4.14		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromo-3-chloropropane	24.8		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromoethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloroethane	4.14		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloropropane	4.14		ug/Kg	U	YES	UJ						UJ								
1,3,5-Trimethylbenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,3-Dichlorobenzene	4.14		ug/Kg	U	YES	UJ						UJ								
1,3-Dichloropropane	4.14		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5345

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	4.14		ug/Kg	U	YES	UJ					UJ									
2,2-Dichloropropane	4.14		ug/Kg	U	YES	UJ					UJ									
2-Butanone	20.7		ug/Kg	U	YES	UJ					UJ									
2-Chlorotoluene	4.14		ug/Kg	U	YES	UJ					UJ									
2-Hexanone	10.3		ug/Kg	U	YES	UJ					UJ									
4-Chlorotoluene	4.14		ug/Kg	U	YES	UJ					UJ									
4-Isopropyltoluene	4.14		ug/Kg	U	YES	UJ					UJ									
4-Methyl-2-pentanone	10.3		ug/Kg	U	YES	UJ					UJ									
Acetone	7.71		ug/Kg	J	YES	J					J									
Benzene	4.14		ug/Kg	U	YES	UJ					UJ									
Bromobenzene	4.14		ug/Kg	U	YES	UJ					UJ									
Bromochloromethane	4.14		ug/Kg	U	YES	UJ					UJ									
Bromodichloromethane	4.14		ug/Kg	U	YES	UJ					UJ									
Bromoform	4.14		ug/Kg	U	YES	UJ					UJ									
Bromomethane	4.14		ug/Kg	U	YES	UJ					UJ									
Carbon disulfide	4.14		ug/Kg	U	YES	UJ				UJ	UJ									
Carbon tetrachloride	4.14		ug/Kg	U	YES	UJ					UJ									
Chlorobenzene	4.14		ug/Kg	U	YES	UJ					UJ									
Chloroethane	4.14		ug/Kg	U	YES	UJ					UJ									
Chloroform	4.14		ug/Kg	U	YCC	UJ					UJ									
Chloromethane	4.14		ug/Kg	U	YES	UJ					UJ									
cis-1,2-Dichloroethene	4.14		ug/Kg	U	YES	UJ					UJ									
cis-1,3-Dichloropropane	4.14		ug/Kg	U	YES	UJ					UJ									
Dibromochloromethane	4.14		ug/Kg	U	YES	UJ					UJ									
Dibromomethane	4.14		ug/Kg	U	YES	UJ					UJ									
Dichlorodifluoromethane	4.14		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

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* 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

5346

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	4.14		ug/Kg	U	YES	UJ					UJ									
Hexachlorobutadiene	4.14		ug/Kg	U	YES	UJ					UJ									
Isopropylbenzene (Cumene)	4.14		ug/Kg	U	YES	UJ					UJ									
m,p-Xylene	8.28		ug/Kg	U	YES															
Methyl iodide	4.14		ug/Kg	U	YES	UJ				UJ	UJ									
Methylene chloride	2.13		ug/Kg	J	YES	J					J									
Naphthalene	4.14		ug/Kg	U	YES	UJ					UJ									
n-Butylbenzene	4.14		ug/Kg	U	YES	UJ					UJ									
n-Propylbenzene	4.14		ug/Kg	U	YES	UJ					UJ									
o-Xylene	4.14		ug/Kg	U	YES	UJ					UJ									
sec-Butylbenzene	4.14		ug/Kg	U	YES	UJ					UJ									
Styrene	4.14		ug/Kg	U	YES	UJ					UJ									
tert-Butyl methyl ether (MTBE)	4.14		ug/Kg	U	YES	UJ					UJ									
tert-Butylbenzene	4.14		ug/Kg	U	YES	UJ					UJ									
Tetrachloroethene	0.828		ug/Kg	J	YES	J					J									
Toluene	2.00		ug/Kg	J	YES	J					J									
trans-1,2-Dichloroethene	4.14		ug/Kg	U	YES	UJ					UJ									
trans-1,3-Dichloropropene	4.14		ug/Kg	U	YES	UJ					UJ									
trans-1,4-Dichloro-2-butene	20.7		ug/Kg	U	YES															
Trichloroethene	4.14		ug/Kg	U	YES	UJ					UJ									
Trichlorofluoromethane	4.14		ug/Kg	U	YES	UJ					UJ									
Vinyl chloride	4.14		ug/Kg	U	YES	UJ					UJ									
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	339		ug/Kg	U	YES															
1,2-Dichlorobenzene	339		ug/Kg	U	YES															
1,3-Dichlorobenzene	339		ug/Kg	U	YES															
1,4-Dichlorobenzene	339		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5347

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV	
Analysis Method : 8270D																					
Dilution: 1																					
2,4,5-Trichlorophenol	339		ug/Kg	U	YES																
2,4,6-Trichlorophenol	339		ug/Kg	U	YES																
2,4-Dichlorophenol	339		ug/Kg	U	YES																
2,4-Dimethylphenol	339		ug/Kg	U	YES																
2,4-Dinitrotoluene	339		ug/Kg	U	YES																
2,6-Dinitrotoluene	339		ug/Kg	U	YES																
2-Chloronaphthalene	339		ug/Kg	U	YES																
2-Chlorophenol	339		ug/Kg	U	YES																
2-Methylnaphthalene	339		ug/Kg	U	YES																
2-Methylphenol	339		ug/Kg	U	YES																
2-Nitroaniline	339		ug/Kg	U	YES																
2-Nitrophenol	339		ug/Kg	U	YES																
3 and/or 4-Methylphenol	339		ug/Kg	U	YES																
3-Nitroaniline	339		ug/Kg	U	YES																
4-Bromophenyl phenyl ether	339		ug/Kg	U	YES																
4-Chloro-3-methylphenol	339		ug/Kg	U	YES																
4-Chloroaniline	339		ug/Kg	U	YES																
4-Chlorophenyl phenyl ether	339		ug/Kg	U	YES																
4-Nitroaniline	339		ug/Kg	U	YES																
4-Nitrophenol	339		ug/Kg	U	YES																
Acenaphthene	339		ug/Kg	U	YES																
Acenaphthylene	339		ug/Kg	U	YES																
Anthracene	339		ug/Kg	U	YCC																
Benzo(a)anthracene	339		ug/Kg	U	YES																
Benzo(a)pyrene	339		ug/Kg	U	YES																
Benzo(b)fluoranthene	339		ug/Kg	U	YES																

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5348

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dts	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	339		ug/Kg	U	YES															
Benzo(k)fluoranthene	339		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	339		ug/Kg	U	YES															
Bis(2-Chloroethoxy)ether	339		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	339		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	339		ug/Kg	U	YES															
Butyl benzyl phthalate	339		ug/Kg	U	YES															
Chrysene	339		ug/Kg	U	YES															
Dibenz(a,h)anthracene	339		ug/Kg	U	YES															
Dibenzofuran	339		ug/Kg	U	YES															
Diethyl phthalate	339		ug/Kg	U	YES															
Dimethyl phthalate	339		ug/Kg	U	YES															
Di-n-butyl phthalate	339		ug/Kg	U	YES															
Di-n-octyl phthalate	339		ug/Kg	U	YES															
Fluoranthene	339		ug/Kg	U	YES															
Fluorene	339		ug/Kg	U	YES															
Hexachlorobenzene	339		ug/Kg	U	YES															
Hexachlorobuladiene	339		ug/Kg	U	YES															
Hexachlorocyclopentadiene	339		ug/Kg	U	YES															
Hexachloroethane	339		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	339		ug/Kg	U	YES															
Isophorone	339		ug/Kg	U	YES															
Naphthalene	339		ug/Kg	U	YCC															
Nitrobenzene	339		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	339		ug/Kg	U	YES															
Pentachlorophenol	339		ug/Kg	U	YES	UJ														UJ

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

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* 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

5349

Sample Qualification Report (All Analytes)

Client Sample ID : E11-148-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889024

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8270D		Dilution: 1																		
Phenanthrene	339		ug/Kg	U	YES															
Phenol	339		ug/Kg	U	YES															
Pyrene	339		ug/Kg	U	YES															

* 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

5350

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Llimit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C				Dilution: 1																
Arsenic	5.26		mg/kg		YES	J					J	J								
Barium	70.7		mg/kg		YES															
Cadmium	0.954		mg/kg		YES	U					U									
Chromium	6.83		mg/kg		YES	J						J								
Lead	9.47		mg/kg		YES	J					J									
Selenium	2.10		mg/kg	U	YES															
Silver	1.05		mg/kg	U	YES															
Analysis Method : 7471B				Dilution: 1																
Mercury	0.0179		mg/kg	U	YES															
Analysis Method : 8081				Dilution: 1																
4,4'-DDD	1.21		ug/Kg	J	YES															
4,4'-DDD	1.21		ug/Kg	J	YES															
4,4'-DDE	3.51		ug/Kg	J	YES															
4,4'-DDE	3.51		ug/Kg	J	YES															
4,4'-DDT	10.5		ug/Kg		YES	J					J									
4,4'-DDT	10.5		ug/Kg		YES	J					J									
Aldrin	10.1		ug/Kg	U	YES															
Aldrin	10.1		ug/Kg	U	YES															
alpha-BHC	10.1		ug/Kg	U	YES															
alpha-BHC	10.1		ug/Kg	U	YES															
alpha-Chlordane	10.1		ug/Kg	U	YES															
alpha-Chlordane	10.1		ug/Kg	U	YES															
beta-BHC	10.1		ug/Kg	U	YFR															
beta-BHC	10.1		ug/Kg	U	YES															
Chlordane	33.8		ug/Kg	U	YES															
Chlordane	33.8		ug/Kg	U	YES															
delta-BHC	10.1		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5351

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
della-BHC	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.1		ug/Kg	U	YES															
gamma-Chlordane	10.1		ug/Kg	U	YES															
gamma-Chlordane	10.1		ug/Kg	U	YES															
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Toxaphene	33.8		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5352

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	33.8		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0165		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0165		mg/kg	U	YES															
2,4-D	0.0165		mg/kg	U	YES															
2,4-DB	0.0165		mg/kg	U	YES															
Dicamba	0.0165		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,1,1-Trichloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,1,2,2-Tetrachloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,1,2-Trichloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloroethene	4.34		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloropropene	4.34		ug/Kg	U	YES	UJ					UJ									
1,2,3-Trichlorobenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,2,3-Trichloropropane	4.34		ug/Kg	U	YES	UJ					UJ									
1,2,4-Trichlorobenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,2,4 Trimethylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,2-Dibromo-3-chloropropane	26.0		ug/Kg	U	YES	UJ					UJ									
1,2-Dibromoethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,2-Dichlorobenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,2-Dichloroethane	4.34		ug/Kg	U	YES	UJ					UJ									
1,2-Dichloropropane	4.34		ug/Kg	U	YES	UJ					UJ									
1,3,5-Trimethylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,3-Dichlorobenzene	4.34		ug/Kg	U	YES	UJ					UJ									
1,3-Dichloropropane	4.34		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5353

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist ToUDis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	4.34		ug/Kg	U	YES	UJ						UJ								
2,2-Dichloropropane	4.34		ug/Kg	U	YES	UJ						UJ								
2-Butanone	21.7		ug/Kg	U	YES	UJ						UJ								
2-Chlorotoluene	4.34		ug/Kg	U	YES	UJ						UJ								
2-Hexanone	10.8		ug/Kg	U	YES	UJ						UJ								
4-Chlorotoluene	4.34		ug/Kg	U	YES	UJ						UJ								
4-Isopropyltoluene	4.34		ug/Kg	U	YES	UJ						UJ								
4-Methyl-2-pentanone	10.8		ug/Kg	U	YES	UJ						UJ								
Acetone	7.46		ug/Kg	J	YES	J						J								
Benzene	4.34		ug/Kg	U	YES	UJ						UJ								
Bromobenzene	4.34		ug/Kg	U	YES	UJ						UJ								
Bromochloromethane	4.34		ug/Kg	U	YES	UJ						UJ								
Bromodichloromethane	4.34		ug/Kg	U	YES	UJ						UJ								
Bromoform	4.34		ug/Kg	U	YES	UJ						UJ								
Bromomethane	4.34		ug/Kg	U	YES	UJ						UJ								
Carbon disulfide	4.34		ug/Kg	U	YES	UJ					UJ	UJ								
Carbon tetrachloride	4.34		ug/Kg	U	YES	UJ						UJ								
Chlorobenzene	4.34		ug/Kg	U	YES	UJ						UJ								
Chloroethane	4.34		ug/Kg	U	YES	UJ						UJ								
Chloroform	4.34		ug/Kg	U	YES	UJ						UJ								
Chloromethane	4.34		ug/Kg	U	YES	UJ						UJ								
cis-1,2-Dichloroethene	4.34		ug/Kg	U	YES	UJ						UJ								
cis-1,3-Dichloropropene	4.34		ug/Kg	U	YES	UJ						UJ								
Dibromochloromethane	4.34		ug/Kg	U	YES	UJ						UJ								
Dibromomethane	4.34		ug/Kg	U	YES	UJ						UJ								
Dichlorodifluoromethane	4.34		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5354

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	4.34		ug/Kg	U	YES	UJ					UJ									
Hexachlorobutadiene	4.34		ug/Kg	U	YES	UJ					UJ									
Isopropylbenzene (Cumene)	4.34		ug/Kg	U	YES	UJ					UJ									
m,p-Xylene	8.68		ug/Kg	U	YES															
Methyl iodide	4.34		ug/Kg	U	YES	UJ				UJ	UJ									
Methylene chloride	2.13		ug/Kg	J	YES	J					J									
Naphthalene	4.34		ug/Kg	U	YES	UJ					UJ									
n-Butylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
n-Propylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
o-Xylene	4.34		ug/Kg	U	YES	UJ					UJ									
sec-Butylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
Styrene	4.34		ug/Kg	U	YES	UJ					UJ									
tert-Butyl methyl ether (MTBE)	4.34		ug/Kg	U	YES	UJ					UJ									
tert-Butylbenzene	4.34		ug/Kg	U	YES	UJ					UJ									
Tetrachloroethene	4.34		ug/Kg	U	YES	UJ					UJ									
Toluene	3.79		ug/Kg	J	YES	J					J									
trans-1,2-Dichloroethene	4.34		ug/Kg	U	YES	UJ					UJ									
trans-1,3-Dichloropropene	4.34		ug/Kg	U	YES	UJ					UJ									
trans-1,4-Dichloro-2-butene	21.7		ug/Kg	U	YES															
Trichloroethene	4.34		ug/Kg	U	YES	UJ					UJ									
Trichlorofluoromethane	4.34		ug/Kg	U	YES	UJ					UJ									
Vinyl chloride	4.34		ug/Kg	U	YES	UJ					UJ									
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	337		ug/Kg	U	YES															
1,2-Dichlorobenzene	337		ug/Kg	U	YES															
1,3-Dichlorobenzene	337		ug/Kg	U	YES															
1,4-Dichlorobenzene	337		ug/Kg	U	YES															

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* 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

5355

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dts	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8270D																				
Dilution: 1																				
2,4,5-Trichlorophenol	337		ug/Kg	U	YES															
2,4,6-Trichlorophenol	337		ug/Kg	U	YES															
2,4-Dichlorophenol	337		ug/Kg	U	YES															
2,4-Dimethylphenol	337		ug/Kg	U	YES															
2,4-Dinitrotoluene	337		ug/Kg	U	YES															
2,6-Dinitrotoluene	337		ug/Kg	U	YES															
2-Chloronaphthalene	337		ug/Kg	U	YES															
2-Chlorophenol	337		ug/Kg	U	YES															
2-Methylnaphthalene	337		ug/Kg	U	YES															
2-Methylphenol	337		ug/Kg	U	YES															
2-Nitroaniline	337		ug/Kg	U	YES															
2-Nitrophenol	337		ug/Kg	U	YES															
3 and/or 4-Methylphenol	337		ug/Kg	U	YES															
3-Nitroaniline	337		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	337		ug/Kg	U	YES															
4-Chloro-3-methylphenol	337		ug/Kg	U	YES															
4-Chloroaniline	337		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	337		ug/Kg	U	YES															
4-Nitroaniline	337		ug/Kg	U	YES															
4-Nitrophenol	337		ug/Kg	U	YES															
Acenaphthene	337		ug/Kg	U	YES															
Acenaphthylene	337		ug/Kg	U	YES															
Anthracene	337		ug/Kg	U	YCC															
Benzo(a)anthracene	337		ug/Kg	U	YES															
Benzo(a)pyrene	337		ug/Kg	U	YES															
Benzo(b)fluoranthene	337		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5356

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	337		ug/Kg	U	YES															
Benzo(k)fluoranthene	337		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	337		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	337		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	337		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	337		ug/Kg	U	YES															
Butyl benzyl phthalate	337		ug/Kg	U	YES															
Chrysene	337		ug/Kg	U	YES															
Dibenz(a,h)anthracene	337		ug/Kg	U	YES															
Dibenzofuran	337		ug/Kg	U	YES															
Diethyl phthalate	337		ug/Kg	U	YES															
Dimethyl phthalate	337		ug/Kg	U	YES															
Di-n-butyl phthalate	337		ug/Kg	U	YES															
Di-n-octyl phthalate	337		ug/Kg	U	YES															
Fluoranthene	337		ug/Kg	U	YES															
Fluorene	337		ug/Kg	U	YES															
Hexachlorobenzene	337		ug/Kg	U	YES															
Hexachlorobutadiene	337		ug/Kg	U	YES															
Hexachlorocyclopentadiene	337		ug/Kg	U	YES															
Hexachloroethane	337		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	337		ug/Kg	U	YES															
Isophorone	337		ug/Kg	U	YES															
Naphthalene	337		ug/Kg	U	YCD															
Nitrobenzene	337		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	337		ug/Kg	U	YES															
Pentachlorophenol	337		ug/Kg	U	YES	UJ														

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* 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

5357

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S1
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889025

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D		Dilution: 1																		
Phenanthrene	337		ug/Kg	U	YES															
Phenol	337		ug/Kg	U	YES															
Pyrene	337		ug/Kg	U	YES															

5358

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	4.83		mg/kg		YES															
Barium	79.8		mg/kg		YES															
Cadmium	1.23		mg/kg		YES	U							U							
Chromium	4.35		mg/kg		YES															
Lead	14.4		mg/kg		YES															
Selenium	1.94		mg/kg	U	YES															
Silver	0.972		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0188		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	0.706		ug/kg	J P	YES															
4,4'-DDD	0.706		ug/kg	J P	YES															
4,4'-DDE	2.29		ug/kg	J P	YES															
4,4'-DDE	2.29		ug/kg	J P	YES															
4,4'-DDT	9.53		ug/kg	J	YES	UJ							U							
4,4'-DDT	9.53		ug/kg	J	YES	UJ							U							
Aldrin	10.7		ug/kg	U	YES															
Aldrin	10.7		ug/kg	U	YES															
alpha-BHC	10.7		ug/kg	U	YES															
alpha-BHC	10.7		ug/kg	U	YES															
alpha-Chlordane	10.7		ug/kg	U	YES															
alpha-Chlordane	10.7		ug/kg	U	YES															
beta-BHC	10.7		ug/kg	U	YES															
beta-BHC	10.7		ug/kg	U	YES															
Chlordane	35.6		ug/kg	U	YES															
Chlordane	35.6		ug/kg	U	YES															
delta-BHC	10.7		ug/kg	U	YES															

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* 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

5359

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.7		ug/Kg	U	YES															
Dieldrin	10.7		ug/Kg	U	YES															
Dieldrin	10.7		ug/Kg	U	YES															
Endosulfan I	10.7		ug/Kg	U	YES															
Endosulfan I	10.7		ug/Kg	U	YES															
Endosulfan II	10.7		ug/Kg	U	YES															
Endosulfan II	10.7		ug/Kg	U	YES															
Endosulfan sulfate	10.7		ug/Kg	U	YES															
Endosulfan sulfate	10.7		ug/Kg	U	YES															
Endrin	10.7		ug/Kg	U	YES															
Endrin	10.7		ug/Kg	U	YES															
Endrin aldehyde	10.7		ug/Kg	U	YES															
Endrin aldehyde	10.7		ug/Kg	U	YES															
Endrin ketone	10.7		ug/Kg	U	YES															
Endrin ketone	10.7		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.7		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.7		ug/Kg	U	YES															
gamma-Chlordane	10.7		ug/Kg	U	YES															
gamma-Chlordane	10.7		ug/Kg	U	YCD															
Heptachlor	10.7		ug/Kg	U	YES															
Heptachlor	10.7		ug/Kg	U	YES															
Heptachlor epoxide	10.7		ug/Kg	U	YES															
Heptachlor epoxide	10.7		ug/Kg	U	YES															
Methoxychlor	10.7		ug/Kg	U	YES															
Methoxychlor	10.7		ug/Kg	U	YES															
Toxaphene	35.6		ug/Kg	U	YES															

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

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* 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

5360

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081				Dilution: 1																
Toxaphene	35.6		ug/Kg	U	YES															
Analysis Method : 8151				Dilution: 1																
2,4,5-T	0.0175		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0175		mg/kg	U	YES															
2,4'-D	0.0175		mg/kg	U	YES															
2,4-DB	0.0175		mg/kg	U	YES															
Dicamba	0.0175		mg/kg	U	YES															
Analysis Method : 8260B				Dilution: 1																
1,1,1,2-Tetrachloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethene	4.17		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropene	4.17		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropane	4.17		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromo-3-chloropropane	25.0		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromoethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloroethane	4.17		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloropropane	4.17		ug/Kg	U	YES	UJ						UJ								
1,3,5-Trimethylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,3-Dichlorobenzene	4.17		ug/Kg	U	YES	UJ						UJ								
1,3-Dichloropropane	4.17		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5361

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	4.17		ug/Kg	U	YES	UJ					UJ									
2,2-Dichloropropane	4.17		ug/Kg	U	YES	UJ					UJ									
2-Butanone	10.3		ug/Kg	J	YES	J					J		J							
2-Chlorotoluene	4.17		ug/Kg	U	YES	UJ					UJ									
2-Hexanone	10.4		ug/Kg	U	YES	UJ					UJ									
4-Chlorotoluene	4.17		ug/Kg	U	YES	UJ					UJ									
4-Isopropyltoluene	4.17		ug/Kg	U	YES	UJ					UJ									
4-Methyl-2-pentanone	10.4		ug/Kg	U	YES	UJ					UJ									
Acetone	33.8		ug/Kg	J	YES	J					J		J							
Benzene	4.17		ug/Kg	U	YES	UJ					UJ									
Bromobenzene	4.17		ug/Kg	U	YES	UJ					UJ									
Bromochloromethane	4.17		ug/Kg	U	YES	UJ					UJ									
Bromodichloromethane	4.17		ug/Kg	U	YES	UJ					UJ									
Bromoform	4.17		ug/Kg	U	YES	UJ					UJ									
Bromomethane	4.17		ug/Kg	U	YES	UJ					UJ									
Carbon disulfide	4.17		ug/Kg	U	YES	UJ				UJ	UJ									
Carbon tetrachloride	4.17		ug/Kg	U	YES	UJ					UJ									
Chlorobenzene	4.17		ug/Kg	U	YES	UJ					UJ									
Chloroethane	4.17		ug/Kg	U	YES	UJ					UJ									
Chloroform	4.17		ug/Kg	U	YES	UJ					UJ									
Chloromethane	4.17		ug/Kg	U	YES	UJ					UJ									
cis-1,2-Dichloroethene	4.17		ug/Kg	U	YES	UJ					UJ									
cis-1,3-Dichloropropene	4.17		ug/Kg	U	YES	UJ					UJ									
Dibromochloromethane	4.17		ug/Kg	U	YES	UJ					UJ									
Dibromomethane	4.17		ug/Kg	U	YES	UJ					UJ									
Dichlorodifluoromethane	4.17		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

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* 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

5362

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	4.17		ug/Kg	U	YES	UJ						UJ								
Hexachlorobutadiene	4.17		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.17		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	8.35		ug/Kg	U	YES															
Methyl iodide	4.17		ug/Kg	U	YES	UJ					UJ	UJ								
Methylene chloride	16.7		ug/Kg	U	YES	UJ						UJ								
Naphthalene	4.17		ug/Kg	U	YES	UJ						UJ								
n-Butylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
o-Xylene	4.17		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
Styrene	4.17		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.17		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	4.17		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	4.17		ug/Kg	U	YES	UJ						UJ								
Toluene	6.59		ug/Kg		YES	J							J							
trans-1,2-Dichloroethene	4.17		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	4.17		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	20.9		ug/Kg	U	YES															
Trichloroethene	4.17		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.17		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	4.17		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	351		ug/Kg	U	YES															
1,2-Dichlorobenzene	351		ug/Kg	U	YES															
1,3-Dichlorobenzene	351		ug/Kg	U	YES															
1,4-Dichlorobenzene	351		ug/Kg	U	YES															

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

Library Used: CampCarroll

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

5363

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Maist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV	
Analysis Method : 8270D																					
Dilution: 1																					
2,4,5-Trichlorophenol	351		ug/Kg	U	YES																
2,4,6-Trichlorophenol	351		ug/Kg	U	YES																
2,4-Dichlorophenol	351		ug/Kg	U	YES																
2,4-Dimethylphenol	351		ug/Kg	U	YES																
2,4-Dinitrotoluene	351		ug/Kg	U	YES																
2,6-Dinitrotoluene	351		ug/Kg	U	YES																
2-Chloronaphthalene	351		ug/Kg	U	YES																
2-Chlorophenol	351		ug/Kg	U	YES																
2-Methylnaphthalene	351		ug/Kg	U	YES																
2-Methylphenol	351		ug/Kg	U	YES																
2-Nitroaniline	351		ug/Kg	U	YES																
2-Nitrophenol	351		ug/Kg	U	YES																
3 and/or 4-Methylphenol	351		ug/Kg	U	YES																
3-Nitroaniline	351		ug/Kg	U	YES																
4-Bromophenyl phenyl ether	351		ug/Kg	U	YES																
4-Chloro-3-methylphenol	351		ug/Kg	U	YES																
4-Chloroaniline	351		ug/Kg	U	YES																
4-Chlorophenyl phenyl ether	351		ug/Kg	U	YES																
4-Nitroaniline	351		ug/Kg	U	YES																
4-Nitrophenol	351		ug/Kg	U	YES																
Acenaphthene	351		ug/Kg	U	YES																
Acenaphthylene	351		ug/Kg	U	YES																
Anthracene	351		ug/Kg	U	YES																
Benzo(a)anthracene	351		ug/Kg	U	YES																
Benzo(a)pyrene	351		ug/Kg	U	YES																
Benzo(b)fluoranthene	351		ug/Kg	U	YES																

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

Library Used: CampCarroll

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Report Date: 9/5/2011 09:53

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* 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

5364

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	351		ug/Kg	U	YES															
Benzo(k)fluoranthene	351		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	351		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	351		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	351		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	351		ug/Kg	U	YES															
Bulyl benzyl phthalate	351		ug/Kg	U	YES															
Chrysene	351		ug/Kg	U	YES															
Dibenz(a,h)anthracene	351		ug/Kg	U	YES															
Dibenzofuran	351		ug/Kg	U	YES															
Diethyl phthalate	351		ug/Kg	U	YES															
Dimethyl phthalate	351		ug/Kg	U	YES															
Di-n-butyl phthalate	351		ug/Kg	U	YES															
Di-n-octyl phthalate	351		ug/Kg	U	YES															
Fluoranthene	351		ug/Kg	U	YES															
Fluorene	351		ug/Kg	U	YES															
Hexachlorobenzene	351		ug/Kg	U	YES															
Hexachlorobutadiene	351		ug/Kg	U	YES															
Hexachlorocyclopentadiene	351		ug/Kg	U	YCD															
Hexachloroethane	351		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	351		ug/Kg	U	YES															
Isophorone	351		ug/Kg	U	YES															
Naphthalene	351		ug/Kg	U	YES															
Nitrobenzene	351		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	351		ug/Kg	U	YES															
Pentachlorophenol	351		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5365

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S2
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889026

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8270D		Dilution: 1																		
Phenanthrene	351		ug/Kg	U	YES															
Phenol	351		ug/Kg	U	YES															
Pyrene	351		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5366

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C			Dilution: 1																	
Arsenic	4.94		mg/kg		YES															
Barium	88.2		mg/kg		YES															
Cadmium	1.10		mg/kg		YES	U							U							
Chromium	3.91		mg/kg		YES															
Lead	15.8		mg/kg		YES															
Selenium	2.04		mg/kg	U	YES															
Silver	1.02		mg/kg	U	YES															
Analysis Method : 7471B			Dilution: 1																	
Mercury	0.00241		mg/kg	J	YES															
Analysis Method : 8081			Dilution: 1																	
4,4'-DDD	20.3		ug/Kg		YES															
4,4'-DDD	20.3		ug/Kg		YES															
4,4'-DDE	10.0		ug/Kg	J	YES															
4,4'-DDE	10.0		ug/Kg	J	YES															
4,4'-DDT	35.4		ug/Kg		YES	J							J							
4,4'-DDT	35.4		ug/Kg		YES	J							J							
Aldrin	10.3		ug/Kg	U	YES															
Aldrin	10.3		ug/Kg	U	YES															
alpha-BHC	10.3		ug/Kg	U	YES															
alpha-BHC	10.3		ug/Kg	U	YES															
alpha-Chlordane	10.3		ug/Kg	U	YCO															
alpha-Chlordane	10.3		ug/Kg	U	YES															
beta-BHC	10.3		ug/Kg	U	YES															
beta-BHC	10.3		ug/Kg	U	YES															
Chlordane	34.4		ug/Kg	U	YES															
Chlordane	34.4		ug/Kg	U	YES															
delta-BHC	10.3		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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

5367

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV	
Analysis Method : 8081																					
Dilution: 1																					
della-BHC	10.3		ug/Kg	U	YES																
Dieldrin	10.3		ug/Kg	U	YES																
Dieldrin	10.3		ug/Kg	U	YES																
Endosulfan I	10.3		ug/Kg	U	YES																
Endosulfan I	10.3		ug/Kg	U	YES																
Endosulfan II	10.3		ug/Kg	U	YES																
Endosulfan II	10.3		ug/Kg	U	YES																
Endosulfan sulfate	10.3		ug/Kg	U	YES																
Endosulfan sulfate	10.3		ug/Kg	U	YES																
Endrin	10.3		ug/Kg	U	YES																
Endrin	10.3		ug/Kg	U	YES																
Endrin aldehyde	10.3		ug/Kg	U	YES																
Endrin aldehyde	10.3		ug/Kg	U	YES																
Endrin ketone	10.3		ug/Kg	U	YES																
Endrin ketone	10.3		ug/Kg	U	YES																
gamma-BHC (Lindane)	10.3		ug/Kg	U	YES																
gamma-BHC (Lindane)	10.3		ug/Kg	U	YES																
gamma-Chlordane	10.3		ug/Kg	U	YES																
gamma-Chlordane	10.3		ug/Kg	U	YES																
Heptachlor	10.3		ug/Kg	U	YES																
Heptachlor	10.3		ug/Kg	U	YES																
Heptachlor epoxide	10.3		ug/Kg	U	YES																
Heptachlor epoxide	10.3		ug/Kg	U	YES																
Methoxychlor	10.3		ug/Kg	U	YES																
Methoxychlor	10.3		ug/Kg	U	YES																
Toxaphene	34.4		ug/Kg	U	YES																

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5368

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	34.4		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0167		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES															
2,4-D	0.0167		mg/kg	U	YES															
2,4-DB	0.0167		mg/kg	U	YES															
Dicamba	0.0167		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropane	3.99		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropane	3.99		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	3.99		ug/Kg	U	YES	ILI						UJ								
1,2-Dibromo-3-chloropropane	23.9		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromobenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloroethane	3.99		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloropropane	3.99		ug/Kg	U	YES	UJ						UJ								
1,3,5-Trimethylbenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,3-Dichlorobenzene	3.99		ug/Kg	U	YES	UJ						UJ								
1,3-Dichloropropane	3.99		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5369

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	3.99		ug/Kg	U	YES	UJ														
2,2-Dichloropropane	3.99		ug/Kg	U	YES	UJ														
2-Butanone	20.0		ug/Kg	U	YES	UJ														
2-Chlorotoluene	3.99		ug/Kg	U	YES	UJ														
2-Hexanone	9.98		ug/Kg	U	YES	UJ														
4-Chlorotoluene	3.99		ug/Kg	U	YES	UJ														
4-Isopropyltoluene	3.99		ug/Kg	U	YES	UJ														
4-Methyl-2-pentanone	9.98		ug/Kg	U	YES	UJ														
Acetone	30.3		ug/Kg	J	YES	J						J	J							
Benzene	3.99		ug/Kg	U	YES	UJ														
Bromobenzene	3.99		ug/Kg	U	YES	UJ														
Bromochloromethane	3.99		ug/Kg	U	YES	UJ														
Bromodichloromethane	3.99		ug/Kg	U	YES	UJ														
Bromoform	3.99		ug/Kg	U	YES	UJ														
Bromomethane	3.99		ug/Kg	U	YES	UJ														
Carbon disulfide	3.99		ug/Kg	U	YES	UJ					UJ	UJ								
Carbon tetrachloride	3.99		ug/Kg	U	YES	UJ														
Chlorobenzene	3.99		ug/Kg	U	YES	UJ														
Chloroethane	3.99		ug/Kg	U	YES	UJ														
Chloroform	3.99		ug/Kg	U	YES	UJ														
Chloromethane	3.99		ug/Kg	U	YES	UJ														
cis-1,2-Dichloroethene	3.99		ug/Kg	U	YES	UJ														
cis-1,3-Dichloropropene	3.99		ug/Kg	U	YES	UJ														
Dibromochloromethane	3.99		ug/Kg	U	YES	UJ														
Dibromomethane	3.99		ug/Kg	U	YES	UJ														
Dichlorodifluoromethane	3.99		ug/Kg	U	YES	UJ														

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

Library Used: CampCarroll

ADR 8.2

Report Date: 8/6/2011 09:53

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* 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

5370

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist TotDis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	3.99		ug/Kg	U	YES	UJ														
Hexachlorobutadiene	3.99		ug/Kg	U	YES	UJ														
Isopropylbenzene (Cumene)	3.99		ug/Kg	U	YES	UJ														
m,p-Xylene	7.98		ug/Kg	U	YES	UJ														
Methyl iodide	3.99		ug/Kg	U	YES	UJ				UJ	UJ									
Methylene chloride	1.77		ug/Kg	J	YES	J														
Naphthalene	3.99		ug/Kg	U	YES	UJ														
n-Butylbenzene	3.99		ug/Kg	U	YES	UJ														
n-Propylbenzene	3.99		ug/Kg	U	YES	UJ														
o-Xylene	3.99		ug/Kg	U	YES	UJ														
sec-Butylbenzene	3.99		ug/Kg	U	YES	UJ														
Styrene	3.99		ug/Kg	U	YES	UJ														
tert-Butyl methyl ether (MTBE)	3.99		ug/Kg	U	YES	UJ														
tert-Butylbenzene	3.99		ug/Kg	U	YES	UJ														
Tetrachloroethene	0.990		ug/Kg	J	YES	J														
Toluene	8.55		ug/Kg	U	YES	J														
trans-1,2-Dichloroethene	3.99		ug/Kg	U	YES	UJ														
trans-1,3-Dichloropropene	3.99		ug/Kg	U	YES	UJ														
trans-1,4-Dichloro-2-butene	20.0		ug/Kg	U	YES	UJ														
1,1-dichloroethene	3.99		ug/Kg	U	YES	UJ														
Trichlorofluoromethane	3.99		ug/Kg	U	YES	UJ														
Vinyl chloride	3.99		ug/Kg	U	YES	UJ														
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	344		ug/Kg	U	YES	UJ														
1,2-Dichlorobenzene	344		ug/Kg	U	YES	UJ														
1,3-Dichlorobenzene	344		ug/Kg	U	YES	UJ														
1,4-Dichlorobenzene	344		ug/Kg	U	YES	UJ														

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5371

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2,4,5-Trichlorophenol	344		ug/Kg	U	YES															
2,4,6-Trichlorophenol	344		ug/Kg	U	YES															
2,4-Dichlorophenol	344		ug/Kg	U	YES															
2,4-Dimethylphenol	344		ug/Kg	U	YES															
2,4-Dinitrotoluene	344		ug/Kg	U	YES															
2,6-Dinitrotoluene	344		ug/Kg	U	YES															
2-Chloronaphthalene	344		ug/Kg	U	YES															
2-Chlorophenol	344		ug/Kg	U	YES															
2-Methylnaphthalene	344		ug/Kg	U	YES															
2-Methylphenol	344		ug/Kg	U	YES															
2-Nitroaniline	344		ug/Kg	U	YES															
2-Nitrophenol	344		ug/Kg	U	YES															
3 and/or 4-Methylphenol	344		ug/Kg	U	YES															
3-Nitroaniline	344		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	344		ug/Kg	U	YES															
4-Chloro-3-methylphenol	344		ug/Kg	U	YES															
4-Chloroaniline	344		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	344		ug/Kg	U	YES															
4-Nitroaniline	344		ug/Kg	U	YES															
4-Nitrophenol	344		ug/Kg	U	YES															
Acenaphthene	344		ug/Kg	U	YES															
Acenaphthylene	344		ug/Kg	U	YES															
Anthracene	344		ug/Kg	U	YES															
Benzo(a)anthracene	344		ug/Kg	U	YES															
Benzo(a)pyrene	344		ug/Kg	U	YES															
Benzo(b)fluoranthene	344		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5372

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3

Lab Report Batch : 31101889

Lab ID : SGSW

Sample Date : 07/17/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889027

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	344		ug/Kg	U	YES															
Benzo(k)fluoranthene	344		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	344		ug/Kg	U	YES															
Bis(2-Chloroethoxy)ether	344		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	344		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	344		ug/Kg	U	YES															
Butyl benzyl phthalate	344		ug/Kg	U	YES															
Chrysene	344		ug/Kg	U	YES															
Dibenz(a,h)anthracene	344		ug/Kg	U	YES															
Dibenzofuran	344		ug/Kg	U	YES															
Diethyl phthalate	344		ug/Kg	U	YES															
Dimethyl phthalate	344		ug/Kg	U	YES															
Di-n-butyl phthalate	344		ug/Kg	U	YES															
Di-n-octyl phthalate	344		ug/Kg	U	YES															
Fluoranthene	344		ug/Kg	U	YES															
Fluorene	344		ug/Kg	U	YES															
Hexachlorobenzene	344		ug/Kg	U	YES															
Hexachlorobutadiene	344		ug/Kg	U	YES															
Hexachlorocyclopentadiene	344		ug/Kg	U	YES															
Hexachloroethane	344		ug/Kg	U	YES															
Indeno(1,2,3-cd)pyrene	344		ug/Kg	U	YES															
Isophorone	344		ug/Kg	U	YES															
Naphthalene	344		ug/Kg	U	YES															
Nitrobenzene	344		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	344		ug/Kg	U	YES															
Pentachlorophenol	344		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5373

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S3
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889027

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / GCV
Analysis Method : 8270D		Dilution: 1																		
Phenanthrene	344		ug/Kg	U	YES															
Phenol	344		ug/Kg	U	YES															
Pyrene	344		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5374

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4

Lab Report Batch : 31101889

Lab ID : SGSW

Sample Date : 07/17/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889028

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	1.27		mg/kg		YES															
Barium	87.8		mg/kg		YES															
Cadmium	0.792		mg/kg		YES	U			U											
Chromium	4.09		mg/kg		YES															
Lead	6.36		mg/kg		YES															
Selenium	1.32		mg/kg	J	YES															
Silver	0.986		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0181		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	10.1		ug/Kg	U	YES															
4,4'-DDD	10.1		ug/Kg	U	YES															
4,4'-DDE	10.1		ug/Kg	U	YES															
4,4'-DDE	10.1		ug/Kg	U	YES															
4,4'-DDT	1.13		ug/Kg	J P	YES	UJ			U		J									
4,4'-DDT	1.13		ug/Kg	J P	YES	UJ			U		J									
Aldrin	10.1		ug/Kg	U	YES															
Aldrin	10.1		ug/Kg	U	YES															
alpha-BHC	10.1		ug/Kg	U	YES															
alpha-BHC	10.1		ug/Kg	U	YES															
alpha-Chlordane	10.1		ug/Kg	U	YES															
alpha-Chlordane	10.1		ug/Kg	U	YES															
beta-BHC	10.1		ug/Kg	U	YES															
beta-BHC	10.1		ug/Kg	U	YES															
Chlordane	33.7		ug/Kg	U	YES															
Chlordane	33.7		ug/Kg	U	YES															
delta-BHC	10.1		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5395

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Molst Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Dieldrin	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan I	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan II	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endosulfan sulfate	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin aldehyde	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
Endrin ketone	10.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.1		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.1		ug/Kg	U	YES															
gamma-Chlordane	10.1		ug/Kg	U	YES															
gamma-Chlordane	10.1		ug/Kg	U	YES															
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Heptachlor epoxide	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Methoxychlor	10.1		ug/Kg	U	YES															
Toxaphene	33.7		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5376

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4

Lab Report Batch : 31101889

Lab ID : SGSW

Sample Date : 07/17/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101889028

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	33.7		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0167		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0167		mg/kg	U	YES															
2,4-D	0.0167		mg/kg	U	YES															
2,4-DB	0.0167		mg/kg	U	YES															
Dicamba	0.0167		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,1,1-Trichloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,1,2,2-Tetrachloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,1,2-Trichloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloroethene	4.03		ug/Kg	U	YES	UJ						UJ								
1,1-Dichloropropene	4.03		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichlorobenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,2,3-Trichloropropane	4.03		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trichlorobenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,2,4-Trimethylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromo-3-chloropropane	24.2		ug/Kg	U	YES	UJ						UJ								
1,2-Dibromoethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,2-Dichlorobenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloroethane	4.03		ug/Kg	U	YES	UJ						UJ								
1,2-Dichloropropane	4.03		ug/Kg	U	YES	UJ						UJ								
1,3,5-Trimethylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,3-Dichlorobenzene	4.03		ug/Kg	U	YES	UJ						UJ								
1,3-Dichloropropane	4.03		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5377

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,4-Dichlorobenzene	4.03		ug/Kg	U	YES	UJ							UJ							
2,2-Dichloropropane	4.03		ug/Kg	U	YES	UJ							UJ							
2-Butanone	18.8		ug/Kg	J	YES	J							J							
2-Chlorotoluene	4.03		ug/Kg	U	YES	UJ							UJ							
2-Hexanone	10.1		ug/Kg	U	YES	UJ							UJ							
4-Chlorotoluene	4.03		ug/Kg	U	YES	UJ							UJ							
4-Isopropyltoluene	4.03		ug/Kg	U	YES	UJ							UJ							
4-Methyl-2-pentanone	10.1		ug/Kg	U	YES	UJ							UJ							
Acetone	104		ug/Kg		YES	J							J							
Benzene	4.03		ug/Kg	U	YES	UJ							UJ							
Bromobenzene	4.03		ug/Kg	U	YES	UJ							UJ							
Bromochloromethane	4.03		ug/Kg	U	YES	UJ							UJ							
Bromodichloromethane	4.03		ug/Kg	U	YES	UJ							UJ							
Bromofom	4.03		ug/Kg	U	YES	UJ							UJ							
Bromomethane	4.03		ug/Kg	U	YES	UJ							UJ							
Carbon disulfide	4.03		ug/Kg	U	YES	UJ							UJ							
Carbon tetrachloride	4.03		ug/Kg	U	YES	UJ							UJ							
Chlorobenzene	4.03		ug/Kg	U	YES	UJ							UJ							
Chloroethane	4.03		ug/Kg	U	YES	UJ							UJ							
Chloroform	4.03		ug/Kg	U	YES	UJ							UJ							
Chloromethane	4.03		ug/Kg	U	YES	UJ							UJ							
cis-1,2-Dichloroethene	4.03		ug/Kg	U	YES	UJ							UJ							
cis-1,3-Dichloropropene	4.03		ug/Kg	U	YES	UJ							UJ							
Dibromochloromethane	4.03		ug/Kg	U	YES	UJ							UJ							
Dibromomethane	4.03		ug/Kg	U	YES	UJ							UJ							
Dichlorodifluoromethane	4.03		ug/Kg	U	YES	UJ							UJ							

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5378

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist To/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
Ethyl Benzene	4.03		ug/Kg	U	YES	UJ						UJ								
Hexachlorobutadiene	4.03		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	4.03		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	8.06		ug/Kg	U	YES															
Methyl iodide	2.28		ug/Kg	J	YES	J				J	J									
Methylene chloride	2.13		ug/Kg	J	YES	J					J									
Naphthalene	4.03		ug/Kg	U	YES	UJ						UJ								
n-Butylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
o-Xylene	4.03		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
Styrene	4.03		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	4.03		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	4.03		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	2.05		ug/Kg	J	YES	J					J									
Toluene	4.03		ug/Kg	U	YES	UJ						UJ								
trans-1,2-Dichloroethene	4.03		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	4.03		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	20.1		ug/Kg	U	YES															
Trichloromethane	4.03		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	4.03		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	4.03		ug/Kg	U	YES	UJ						UJ								
Analysis Method : 8270D																				
Dilution: 1																				
1,2,4-Trichlorobenzene	344		ug/Kg	U	YES															
1,2-Dichlorobenzene	344		ug/Kg	U	YES															
1,3-Dichlorobenzene	344		ug/Kg	U	YES															
1,4-Dichlorobenzene	344		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5379

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
2,4,5-Trichlorophenol	344		ug/Kg	U	YES															
2,4,6-Trichlorophenol	344		ug/Kg	U	YES															
2,4-Dichlorophenol	344		ug/Kg	U	YES															
2,4-Dimethylphenol	344		ug/Kg	U	YES															
2,4-Dinitrotoluene	344		ug/Kg	U	YES															
2,6-Dinitrotoluene	344		ug/Kg	U	YES															
2-Chloronaphthalene	344		ug/Kg	U	YES															
2-Chlorophenol	344		ug/Kg	U	YES															
2-Methylnaphthalene	344		ug/Kg	U	YES															
2-Methylphenol	344		ug/Kg	U	YES															
2-Nitroaniline	344		ug/Kg	U	YES															
2-Nitrophenol	344		ug/Kg	U	YES															
3 and/or 4-Methylphenol	344		ug/Kg	U	YES															
3-Nitroaniline	344		ug/Kg	U	YES															
4-Bromophenyl phenyl ether	344		ug/Kg	U	YES															
4-Chloro-3-methylphenol	344		ug/Kg	U	YES															
4-Chloroaniline	344		ug/Kg	U	YES															
4-Chlorophenyl phenyl ether	344		ug/Kg	U	YES															
4-Nitroaniline	344		ug/Kg	U	YES															
4-Nitrophenol	344		ug/Kg	U	YES															
Acenaphthene	344		ug/Kg	U	YES															
Acenaphthylene	344		ug/Kg	U	YES															
Anthracene	344		ug/Kg	U	YES															
Benzo(a)anthracene	344		ug/Kg	U	YES															
Benzo(a)pyrene	344		ug/Kg	U	YES															
Benzo(b)fluoranthene	344		ug/Kg	U	YCC															

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

Library Used: CampCarroll

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Report Date: 9/6/2011 09:53

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* 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

5380

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D																				
Dilution: 1																				
Benzo(g,h,i)perylene	344		ug/Kg	U	YES															
Benzo(k)fluoranthene	344		ug/Kg	U	YES															
Bis(2-Chloroethoxy)methane	344		ug/Kg	U	YES															
Bis(2-Chloroethyl)ether	344		ug/Kg	U	YES															
Bis(2-Chloroisopropyl)ether	344		ug/Kg	U	YES															
Bis(2-Ethylhexyl)phthalate	344		ug/Kg	U	YES															
Butyl benzyl phthalate	344		ug/Kg	U	YES															
Chrysene	344		ug/Kg	U	YES															
Dibenz(a,h)anthracene	344		ug/Kg	U	YES															
Dibenzofuran	344		ug/Kg	U	YES															
Diethyl phthalate	344		ug/Kg	U	YES															
Dimethyl phthalate	344		ug/Kg	U	YES															
Di-n-butyl phthalate	344		ug/Kg	U	YES															
Di-n-octyl phthalate	344		ug/Kg	U	YES															
Fluoranthene	344		ug/Kg	U	YES															
Fluorene	344		ug/Kg	U	YES															
Hexachlorobenzene	344		ug/Kg	U	YES															
Hexachlorobutadiene	344		ug/Kg	U	YES															
Hexachlorocyclopentadiene	344		ug/Kg	U	YES															
Hexachloroethane	344		ug/Kg	U	YFS															
Indeno(1,2,3-cd)pyrene	344		ug/Kg	U	YES															
Isophorone	344		ug/Kg	U	YES															
Naphthalene	344		ug/Kg	U	YES															
Nitrobenzene	344		ug/Kg	U	YES															
n-Nitrosodi-n-propylamine	344		ug/Kg	U	YES															
Pentachlorophenol	344		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

53 81

Sample Qualification Report (All Analytes)

Client Sample ID : E11-151-S4
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889028

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8270D		Dilution: 1																		
Phenanthrene	344		ug/Kg	U	YES															
Phenol	344		ug/Kg	U	YES															
Pyrene	344		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 09:53

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* 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

5382

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (1)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889001

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	5.00		ug/Kg	U	YES															
1,1,1-Trichloroethane	5.00		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	5.00		ug/Kg	U	YES															
1,1,2-Trichloroethane	5.00		ug/Kg	U	YES															
1,1-Dichloroethane	5.00		ug/Kg	U	YES	UJ				UJ										
1,1-Dichloroethane	5.00		ug/Kg	U	YES	UJ				UJ										
1,1-Dichloropropene	5.00		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	5.00		ug/Kg	U	YES															
1,2,3-Trichloropropane	5.00		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	5.00		ug/Kg	U	YES															
1,2,4-Trimethylbenzene	5.00		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	30.0		ug/Kg	U	YES															
1,2-Dibromoethane	5.00		ug/Kg	U	YES															
1,2-Dichlorobenzene	5.00		ug/Kg	U	YES															
1,2-Dichloroethane	5.00		ug/Kg	U	YES															
1,2-Dichloropropane	5.00		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	5.00		ug/Kg	U	YES															
1,3-Dichlorobenzene	5.00		ug/Kg	U	YES															
1,3-Dichloropropane	5.00		ug/Kg	U	YES															
1,4-Dichlorobenzene	5.00		ug/Kg	U	YES															
2,2-Dichloropropane	5.00		ug/Kg	U	YES															
2-Butanone	25.0		ug/Kg	U	YES															
2-Chlorotoluene	5.00		ug/Kg	U	YES															
2-Hexanone	12.5		ug/Kg	U	YES															
4-Chlorotoluene	5.00		ug/Kg	U	YES															
4-Isopropyltoluene	5.00		ug/Kg	U	YES															

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* 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

5383

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (1)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889001

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	12.5		ug/Kg	U	YES															
Acetone	50.0		ug/Kg	U	YES	UJ				UJ										
Benzene	5.00		ug/Kg	U	YES															
Bromobenzene	5.00		ug/Kg	U	YES															
Bromochloromethane	5.00		ug/Kg	U	YES															
Bromodichloromethane	5.00		ug/Kg	U	YES															
Bromoform	5.00		ug/Kg	U	YES															
Bromomethane	5.00		ug/Kg	U	YES															
Carbon disulfide	5.00		ug/Kg	U	YES	UJ				UJ										
Carbon tetrachloride	5.00		ug/Kg	U	YES															
Chlorobenzene	5.00		ug/Kg	U	YES															
Chloroethane	5.00		ug/Kg	U	YES															
Chloroform	5.00		ug/Kg	U	YES															
Chloromethane	5.00		ug/Kg	U	YES															
cis-1,2-Dichloroethene	5.00		ug/Kg	U	YES															
cis-1,3-Dichloropropene	5.00		ug/Kg	U	YES															
Dibromochloromethane	5.00		ug/Kg	U	YES															
Dibromomethane	5.00		ug/Kg	U	YES															
Dichlorodifluoromethane	5.00		ug/Kg	U	YES															
Ethyl Benzene	5.00		ug/Kg	U	YES															
Hexachlorobutadiene	5.00		ug/Kg	U	YES															
Isopropylbenzene (Cumene)	5.00		ug/Kg	U	YES															
m,p-Xylene	10.0		ug/Kg	U	YES															
Methyl iodide	5.00		ug/Kg	U	YES															
Methylene chloride	3.72		ug/Kg	J	YES	J				J										
Naphthalene	5.00		ug/Kg	U	YES															

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

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* 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

5384

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (1)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889001

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B		Dilution: 1																		
n-Butylbenzene	5.00		ug/Kg	U	YES															
n-Propylbenzene	5.00		ug/Kg	U	YES															
o-Xylene	5.00		ug/Kg	U	YES															
sec-Butylbenzene	5.00		ug/Kg	U	YES															
Styrene	5.00		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	5.00		ug/Kg	U	YES	UJ					UJ									
tert-Butylbenzene	5.00		ug/Kg	U	YES															
Tetrachloroethene	1.39		ug/Kg	J	YES															
Toluene	5.00		ug/Kg	U	YES	UJ					UJ									
trans-1,2-Dichloroethene	5.00		ug/Kg	U	YES	UJ					UJ									
trans-1,3-Dichloropropene	5.00		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	25.0		ug/Kg	U	YES															
Trichloroethene	5.00		ug/Kg	U	YES															
Trichlorofluoromethane	5.00		ug/Kg	U	YES															
Vinyl chloride	5.00		ug/Kg	U	YES															

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* 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

5385

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (2)
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889019

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,1,1-Trichloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,1,2,2-Tetrachloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,1,2-Trichloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloroethene	5.00		ug/Kg	U	YES	UJ					UJ									
1,1-Dichloropropene	5.00		ug/Kg	U	YES	UJ					UJ									
1,2,3-Trichlorobenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,2,3-Trichloropropane	5.00		ug/Kg	U	YES	UJ					UJ									
1,2,4-Trichlorobenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,2,4-Trimethylbenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,2-Dibromo-3-chloropropane	30.0		ug/Kg	U	YES	UJ					UJ									
1,2-Dibromoethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,2-Dichlorobenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,2-Dichloroethane	5.00		ug/Kg	U	YES	UJ					UJ									
1,2-Dichloropropane	5.00		ug/Kg	U	YES	UJ					UJ									
1,3,5-Trimethylbenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,3-Dichlorobenzene	5.00		ug/Kg	U	YES	UJ					UJ									
1,3-Dichloropropane	5.00		ug/Kg	U	YES	UJ					UJ									
1,4-Dichlorobenzene	5.00		ug/Kg	U	YES	UJ					UJ									
2,2-Dichloropropane	5.00		ug/Kg	U	YES	UJ					UJ									
2-Butanone	25.0		ug/Kg	U	YES	UJ					UJ									
2-Chlorotoluene	5.00		ug/Kg	U	YES	UJ					UJ									
2-Hexanone	12.5		ug/Kg	U	YES	UJ					UJ									
4-Chlorotoluene	5.00		ug/Kg	U	YES	UJ					UJ									
4-Isopropyltoluene	5.00		ug/Kg	U	YES	UJ					UJ									

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

Library Used: CampCarroll

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* 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

5386

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (2)
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889019

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	12.5		ug/Kg	U	YES	UJ						UJ								
Acetone	50.0		ug/Kg	U	YES	UJ						UJ								
Benzene	5.00		ug/Kg	U	YES	UJ						UJ								
Bromobenzene	5.00		ug/Kg	U	YES	UJ						UJ								
Bromochloromethane	5.00		ug/Kg	U	YES	UJ						UJ								
Bromodichloromethane	5.00		ug/Kg	U	YES	UJ						UJ								
Bromoform	5.00		ug/Kg	U	YES	UJ						UJ								
Bromomethane	5.00		ug/Kg	U	YES	UJ						UJ								
Carbon disulfide	5.00		ug/Kg	U	YES	UJ					UJ	UJ								
Carbon tetrachloride	5.00		ug/Kg	U	YES	UJ						UJ								
Chlorobenzene	5.00		ug/Kg	U	YES	UJ						UJ								
Chloroethane	5.00		ug/Kg	U	YES	UJ						UJ								
Chloroform	5.00		ug/Kg	U	YES	UJ						UJ								
Chloromethane	5.00		ug/Kg	U	YES	UJ						UJ								
cis-1,2-Dichloroethene	5.00		ug/Kg	U	YES	UJ						UJ								
cis-1,3-Dichloropropene	5.00		ug/Kg	U	YES	UJ						UJ								
Dibromochloromethane	5.00		ug/Kg	U	YES	UJ						UJ								
Dibromomethane	5.00		ug/Kg	U	YES	UJ						UJ								
Dichlorodifluoromethane	5.00		ug/Kg	U	YES	UJ						UJ								
Ethyl Benzene	5.00		ug/Kg	U	YES	UJ						UJ								
Hexafluorobutadiene	5.00		ug/Kg	U	YES	UJ						UJ								
Isopropylbenzene (Cumene)	5.00		ug/Kg	U	YES	UJ						UJ								
m,p-Xylene	10.0		ug/Kg	U	YES	UJ						UJ								
Methyl iodide	5.00		ug/Kg	U	YES	UJ						UJ								
Methylene chloride	2.30		ug/Kg	J	YES	J						J								
Naphthalene	5.00		ug/Kg	U	YES	UJ						UJ								

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

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* 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

5387

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (2)
 Sample Date : 07/17/2011
 Lab Sample ID: 31101889019

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
n-Butylbenzene	5.00		ug/Kg	U	YES	UJ						UJ								
n-Propylbenzene	5.00		ug/Kg	U	YES	UJ						UJ								
o-Xylene	5.00		ug/Kg	U	YES	UJ						UJ								
sec-Butylbenzene	5.00		ug/Kg	U	YES	UJ						UJ								
Styrene	5.00		ug/Kg	U	YES	UJ						UJ								
tert-Butyl methyl ether (MTBE)	5.00		ug/Kg	U	YES	UJ						UJ								
tert-Butylbenzene	5.00		ug/Kg	U	YES	UJ						UJ								
Tetrachloroethene	5.00		ug/Kg	U	YES	UJ						UJ								
Toluene	5.00		ug/Kg	U	YES	UJ						UJ								
trans-1,2-Dichloroethene	5.00		ug/Kg	U	YES	UJ						UJ								
trans-1,3-Dichloropropene	5.00		ug/Kg	U	YES	UJ						UJ								
trans-1,4-Dichloro-2-butene	25.0		ug/Kg	U	YES	UJ						UJ								
Trichloroethene	5.00		ug/Kg	U	YES	UJ						UJ								
Trichlorofluoromethane	5.00		ug/Kg	U	YES	UJ						UJ								
Vinyl chloride	5.00		ug/Kg	U	YES	UJ						UJ								

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

Library Used: CampCarroll

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* 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

5388

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (3)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889032

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	5.00		ug/Kg	U	YES															
1,1,1-Trichloroethane	5.00		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	5.00		ug/Kg	U	YES															
1,1,2-Trichloroethane	5.00		ug/Kg	U	YES															
1,1-Dichloroethane	5.00		ug/Kg	U	YES															
1,1-Dichloroethene	5.00		ug/Kg	U	YES															
1,1-Dichloropropene	5.00		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	5.00		ug/Kg	U	YES															
1,2,3-Trichloropropane	5.00		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	5.00		ug/Kg	U	YES															
1,2,4-Trimethylbenzene	5.00		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	30.0		ug/Kg	U	YES															
1,2-Dibromoethane	5.00		ug/Kg	U	YES															
1,2-Dichlorobenzene	5.00		ug/Kg	U	YES															
1,2-Dichloroethane	5.00		ug/Kg	U	YES															
1,2-Dichloropropane	5.00		ug/Kg	U	YES															
1,3,5-Trimethylbenzene	5.00		ug/Kg	U	YES															
1,3-Dichlorobenzene	5.00		ug/Kg	U	YES															
1,3-Dichloropropane	5.00		ug/Kg	U	YES															
1,4-Dichlorobenzene	5.00		ug/Kg	U	YES															
2,2-Dichloropropane	6.00		ug/Kg	U	YES															
2-Butanone	25.0		ug/Kg	U	YES															
2-Chlorotoluene	5.00		ug/Kg	U	YES															
2-Hexanone	12.5		ug/Kg	U	YES															
4-Chlorotoluene	5.00		ug/Kg	U	YES															
4-Isopropyltoluene	5.00		ug/Kg	U	YES															

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

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* 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

5389

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (3)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889032

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
4-Methyl-2-pentanone	12.5		ug/Kg	U	YES															
Acetone	50.0		ug/Kg	U	YES															
Benzene	5.00		ug/Kg	U	YES															
Bromobenzene	5.00		ug/Kg	U	YES															
Bromochloromethane	5.00		ug/Kg	U	YES															
Bromodichloromethane	5.00		ug/Kg	U	YES															
Bromofom	5.00		ug/Kg	U	YES															
Bromomethane	5.00		ug/Kg	U	YES															
Carbon disulfide	5.00		ug/Kg	U	YES															
Carbon tetrachloride	5.00		ug/Kg	U	YES															
Chlorobenzene	5.00		ug/Kg	U	YES															
Chloroethane	5.00		ug/Kg	U	YES															
Chloroform	5.00		ug/Kg	U	YES															
Chloromethane	5.00		ug/Kg	U	YES															
cis-1,2-Dichloroethene	5.00		ug/Kg	U	YES															
cis-1,3-Dichloropropene	5.00		ug/Kg	U	YES															
Dibromochloromethane	5.00		ug/Kg	U	YES															
Dibromomethane	5.00		ug/Kg	U	YES															
Dichlorodifluoromethane	5.00		ug/Kg	U	YES															
Ethyl Benzene	5.00		ug/Kg	U	YES															
Hexachlorobutadiene	6.00		ug/Kg	U	YCC															
Isopropylbenzene (Cumene)	5.00		ug/Kg	U	YES															
m,p-Xylene	10.0		ug/Kg	U	YES															
Methyl iodide	5.00		ug/Kg	U	YES															
Methylene chloride	20.0		ug/Kg	U	YES															
Naphthalene	5.00		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

5390

Sample Qualification Report (All Analytes)

Client Sample ID : Trip Blank (3)
 Sample Date : 07/16/2011
 Lab Sample ID: 31101889032

Lab Report Batch : 31101889
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8260B																				
Dilution: 1																				
n-Butylbenzene	5.00		ug/Kg	U	YES															
n-Propylbenzene	5.00		ug/Kg	U	YES															
o-Xylene	5.00		ug/Kg	U	YES															
sec-Butylbenzene	5.00		ug/Kg	U	YES															
Styrene	5.00		ug/Kg	U	YES															
tert-Butyl methyl ether (MTBE)	5.00		ug/Kg	U	YES															
tert-Butylbenzene	5.00		ug/Kg	U	YES															
Tetrachloroethene	5.00		ug/Kg	U	YES															
Toluene	5.00		ug/Kg	U	YES															
trans-1,2-Dichloroethene	5.00		ug/Kg	U	YES															
trans-1,3-Dichloropropene	5.00		ug/Kg	U	YES															
trans-1,4-Dichloro-2-butene	25.0		ug/Kg	U	YES															
Trichloroethene	5.00		ug/Kg	U	YES															
Trichlorofluoromethane	5.00		ug/Kg	U	YES															
Vinyl chloride	5.00		ug/Kg	U	YES															

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

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* 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

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APPENDIX 2
Automated Data Review Qualification Scheme
and
Definition of Flags

5392

Qualification Summary for GC/MS Methods

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

Qualification Summary for GC/MS Methods

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

Qualification Summary for GC/MS Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
FIELD BLANKS EQUIPMENT BLANKS	1) Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination	U	U	None	All samples in the same sampling event
	2) Other lab contaminant results less than or equal to 5 times blank contamination	U	U	None	
TRIP BLANKS	1) Common lab contaminants and tentatively identified compound (TIC) results less than or equal to 10 times blank contamination	U	U	None	All samples in the same Shipping Batch as the trip blank
	2) Other lab contaminant results less than or equal to 5 times blank contamination	U	U	None	

Qualification Summary for GC Methods

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

Qualification Summary for GC Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
MATRIX SPIKE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	Parent Sample
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
LABORATORY CONTROL SAMPLE RECOVERY	1) % Recovery < CL but \geq 10%	J	J-	UJ	All samples in the same Preparation Batch
	2) % Recovery < 10%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	1) Result greater than the project-reporting limit and lab qualifier = U.	N/A	N/A	None	Sample (noted in outlier report)
	2) Result less than the project-reporting limit where lab qualifier is not U.	J	J	N/A.	Sample
FIELD DUPLICATES	1) RPD > CL	None	None	None	Non-compliant results listed in the ADR outlier report
FIELD BLANKS EQUIPMENT BLANKS	1) Common lab contaminant results within 10 times blank contamination	U	U	None	All samples in the same sampling event
	2) Other lab contaminant results within 5 times blank contamination	U	U	None	
TRIP BLANKS	1) Common lab contaminant results within 10 times blank contamination	U	U	None	All samples in the same Shipping Batch
	2) Other lab contaminant results within 5 times blank contamination	U	U	None	

Qualification Summary for Metals Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
HOLDING TIMES	1) Holding time exceeded by 2 times or less	J	J-	UJ	Sample
	2) Holding time exceeded by greater than 2 times	J	J-	R	
INITIAL CALIBRATION	1) $r < 0.995$	J	J	UJ	All samples associated with initial calibration (Run Batch)
INITIAL CALIBRATION VERIFICATION (ICV)	1) % Recovery > 110% but \leq 125% (Hg, % Recovery > 120% but \leq 135%)	J	J+	None	All samples associated with initial calibration verification (Run Batch)
	2) % Recovery > 125% (Hg, % Recovery > 135%)	R	R	None	
	3) % Recovery < 90% but \geq 75% (Hg, % Recovery < 80% but \geq 65%)	J	J-	UJ	
	4) % Recovery < 75% (Hg, % Recovery < 65%)	R	R	R	
CALIBRATION VERIFICATION	1) % Recovery > 110% but \leq 125% (Hg, % Recovery > 120% but \leq 135%)	J	J+	None	All samples associated with continuing calibration (Analysis Batch)
	2) % Recovery > 125% (Hg, % Recovery > 135%)	R	R	None	
	3) % Recovery < 90% but \geq 75% (Hg, % Recovery < 80% but \geq 65%)	J	J-	UJ	
	4) % Recovery < 75% (Hg, % Recovery < 65%)	R	R	R	
METHOD BLANK CONTAMINATION	Sample results less than or equal to 5 times the blank contamination	U	U	None	All samples in the same Preparation Batch
MATRIX SPIKE RECOVERY	1) % Recovery < CL but \geq 30%	J	J-	UJ	All samples in the same Method Batch
	2) % Recovery < 30%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	

Qualification Summary for Metals Methods

QUALITY CONTROL ITEM	EVALUATION	DATA QUALIFIER FLAG			SAMPLE(S) QUALIFIED
		Detects		Nondetects	
		Non Biased	Biased		
LABORATORY CONTROL SAMPLE RECOVERY	1) % Recovery < CL but \geq 50%	J	J-	UJ	All samples in the same Preparation Batch
	2) % Recovery < 50%	J	J-	R	
	3) % Recovery > CL	J	J+	None	
	4) RPD > CL	J	J	UJ	
REPORTING LIMITS	1) Result greater than the project-reporting limit and lab qualifier = U	N/A	N/A.	None	Sample (noted in outlier report)
	2) Result less than the project reporting limit where lab qualifier is not U.	J	J	N/A.	Sample
FIELD DUPLICATES	RPD > CL	None	None	None	Non-compliant results listed in the ADR outlier report
FIELD BLANKS EQUIPMENT BLANKS	Sample results within 5 times blank contamination	U	U	None	All samples in the same sampling event

Data Qualifier Definitions

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
C	This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.

Data Processing. Analytical results were provided in an electronic format which could be reviewed by a computer. The data was processed by Automated Data Review[®] (ADR) Version 8.2, by Laboratory Data Consultants of Carlsbad California. ADR compares laboratory data packages to user selectable criteria. The criteria utilized for this evaluation was based on SW846 criteria for sample handling and holding time, the SGS standard Quality Control criteria (Matrix Spike/Matrix Spike Duplicate and lab control sample recoveries, surrogate recoveries, and relative percent differences for replicate analyses). Instrument calibration and raw data were not evaluated.

Outliers (results which exceeded the Project Quality Control limits) are identified in Appendix 1. Some methods, most notably 8081 and 6010 post duplicate results for each analyte due to the manner in which the laboratory prepared the electronic files. Rules for flagging of samples are found in Appendix 2, detection qualifier flags were set as nonbiased. A description of the USEPA data qualifier definitions is also provided in Appendix 2.

Sample Preservation. All samples must be protected from light and refrigerated at $4 \pm 2^{\circ}\text{C}$ from the time of receipt (time of collection when possible) until the time of extraction. All samples were received by the laboratory at temperatures between 5° and 6°C . There are no temperature discrepancies.

Holding Times. The maximum allowable holding time between sample collection and sample preparation or sample preparation and sample analysis depends on the analyte. All samples were prepared and analyzed within the method specified allowable holding times. There are no holding time discrepancies.

Laboratory Control Samples. Laboratory control sample (LCS) outliers are shown in Appendix 1. LCSs are samples, usually of the same matrix, which are prepared and analyzed together with the field samples. An LCS is associated with a preparation and analytical batch. If an analytical result for an LCS is outside the prescribed limits, the entire batch is flagged for that analyte.

LCS results for arsenic by method 6010 were out of control for both high recovery and poor precision. Associated samples have been J flagged as estimated and may be lower than reported.

Hexachlorocyclopentadiene LCS results for Method 8081 were unacceptably high (>2000% recovery) in all batches for this Sample Group and Hexachlorocyclopentadiene results should be rejected. All other results were either acceptable or require flagging as identified in the sample Qualification Report in Appendix 1.

The Method 8260 LCS results for batch VXX1817 had multiple outliers for both recovery (high) and precision. Out of control analytes have been flagged as estimated. The Method 8260 LCS results for batches VXX1829 and VXX1838 were good with only two instances each of slightly elevated precision.

Matrix Spike/Matrix Spike Duplicate (MS/MSD). A matrix spike and matrix spike duplicate pair are used to document the bias of a method in a given sample matrix. An aliquot of sample is fortified (spiked) with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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For these analyses, laboratory control blanks or field samples were fortified at levels approximately five times the lower limit of quantitation (Method Reporting Limit).

4,4'-DDT in method 8081 was found in the field sample E11-148-S2 and the MS/MSD results for this compound were outside control limits. Since other OC pesticides were within limits for the batch, this indicates that the pesticide is not evenly disbursed in samples and may be heterogeneous in the field. 4,4'-DDT does not need to be flagged.

The MS/MSD results for Method 8260, volatile organic analysis for batch VXX1829 had multiple outliers for both recovery and precision. There was no clear trend towards either high or low recoveries. The parent sample was uncontaminated. Out of control analytes have been flagged as estimated.

Hexachlorocyclopentadiene for Method 8270 MS/MSD was unacceptably high (>1900%) in all batches and results should be rejected for this Sample Group.

Surrogate Spike Recoveries. A surrogate is a pure compound different from, but similar enough to the analyte that, when added at a known concentration to the sample prior to processing, provides a measure of the overall efficiency of the method (recovery). Surrogates have chemical characteristics that are similar to that of the analyte and must provide an analytical response that is distinct from that of the analyte. Surrogates must be unlikely to be found in environmental samples and are added to them for quality control purposes.

Surrogates are only evaluated for samples diluted less than twenty times since overdilution lowers the level of the surrogate below the reporting limit. Samples with high levels of target analytes require dilution. Nearly all surrogate analyses were successful, indicating good method performance for the organic analyses. Outliers are shown in the Surrogate Outlier Recovery Report in Appendix 1. Surrogates for several samples analyzed by Method 8081 were slightly below the lower acceptance limit which may indicate a matrix interference. Outliers for Method 8260 were only slightly outside the acceptance limits.

**Chemical Data Validation Report for Camp Carroll Agent Orange Investigation
Far East District Project Number 11-032E**

Phase: Phase 1 Soil Sampling
Laboratory: SGS North America Inc.
Method: SW 846 Methods 6010c, 7471b, 8081, 8151a, 8260b, and 8270d.
Sample Group: 31101915
Date: 7 September 2011
Validator: [REDACTED] b6
US Army Engineer District, Honolulu

SUMMARY: Results for organic analyses were evaluated in accordance with *National Functional Guidelines for Superfund Organic Methods Data Review*, OSWER 9240.1-48, June 2008. Laboratory data packages were reviewed for preservation, holding times, blanks, surrogate spikes, matrix spike/matrix spike duplicates and laboratory control samples (Blank spikes). Evaluation for these parameters is considered to be a "Level 2b" Data Validation.

This report includes a discussion of the evaluation, identification of reported results which need to be qualified (flagged) due to quality control issues or deficiencies, and the reasons for the flags. The evaluation showed that the data is generally of acceptable quality with some results for specific analytes being rejected or qualified as estimated.

No performance evaluation or reference samples were reported with any batches.

5393.10

Data Processing. Analytical results were provided in an electronic format which could be reviewed by a computer. The data was processed by Automated Data Review[®] (ADR) Version 8.2, by Laboratory Data Consultants of Carlsbad California. ADR compares laboratory data packages to user selectable criteria. The criteria utilized for this evaluation was based on SW846 criteria for sample handling and holding time, the SGS standard Quality Control criteria (Matrix Spike/Matrix Spike Duplicate and lab control sample recoveries, surrogate recoveries, and relative percent differences for replicate analyses). Instrument calibration and raw data were not evaluated.

Outliers (results which exceeded the Project Quality Control limits) are identified in Appendix 1. Some methods, most notably 8081 and 6010 post duplicate results for each analyte due to the manner in which the laboratory prepared the electronic files. Rules for flagging of samples are found in Appendix 2, detection qualifier flags were set as nonbiased. A description of the USEPA data qualifier definitions is also provided in Appendix 2.

Sample Preservation. All samples must be protected from light and refrigerated at $4 \pm 2^{\circ}\text{C}$ from the time of receipt (time of collection when possible) until the time of extraction. All samples were received by the laboratory at temperatures between 3° and 4°C . There were no temperature discrepancies and sample preservation was acceptable.

Holding Times. The maximum allowable holding time between sample collection and sample preparation or sample preparation and sample analysis depends on the analyte. All samples were prepared and analyzed within the method specified allowable holding times. There are no holding time discrepancies.

Laboratory Control Samples. Laboratory control sample (LCS) outliers are shown in Appendix 1. LCSs are samples, usually of the same matrix, which are prepared and analyzed together with the field samples. An LCS is associated with a preparation and analytical batch. If an analytical result for an LCS is outside the prescribed limits, the entire batch is flagged for that analyte.

Hexachlorocyclopentadiene LCS results for Method 8270 were unacceptably high (>1900% recovery) in both batches for this Sample Group and Hexachlorocyclopentadiene results should be rejected. All other results were either acceptable or require flagging as identified in the sample Qualification Report in Appendix 1.

LCS/LCS duplicate results for Method 8151 had acceptable recovery but precision was affected since the relative percent difference for the replicate analyses was outside control limits. Marginal precision would affect the reliability of reported results but none of the samples reported detectable target analytes.

Matrix Spike/Matrix Spike Duplicate (MS/MSD). A matrix spike and matrix spike duplicate pair are used to document the bias of a method in a given sample matrix. An aliquot of sample is fortified (spiked) with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

5393.11

For these analyses, laboratory control blanks or field samples were fortified at levels approximately five times the lower limit of quantitation (Method Reporting Limit).

As with the LCS/LCS duplicate results for Method 8151, the MS/MSD had acceptable recovery but precision was affected since the relative percent difference for the replicate analyses was outside control limits. Since none of the samples reported detectable target analytes, the J flag only affects the sample reporting limit.

The MS/MSD results for Method 8260, volatile organic analysis for batch VXX1839 had multiple outliers with no clear trend towards either high or low recoveries. The parent sample was uncontaminated and there were no corresponding issues with the LCS samples analyzed in the same batch. Out of control analytes have been flagged as estimated.

Hexachlorocyclopentadiene results for Method 8270 MS/MSD were unacceptably high in all batches and should be rejected for this Sample Group.

Surrogate Spike Recoveries. A surrogate is a pure compound different from, but similar enough to the analyte that, when added at a known concentration to the sample prior to processing, provides a measure of the overall efficiency of the method (recovery). Surrogates have chemical characteristics that are similar to that of the analyte and must provide an analytical response that is distinct from that of the analyte. Surrogates must be unlikely to be found in environmental samples and are added to them for quality control purposes.

Surrogates are only evaluated for samples diluted less than twenty times since overdilution lowers the level of the surrogate below the reporting limit. Samples with high levels of target analytes require dilution. Outliers are shown in the Surrogate Outlier Recovery Report in Appendix 1.

The surrogate results for Method 8260 for eight of the samples and the MS/MSD had slightly high recoveries for one surrogate (1,2-Dichloroethane-d4). Since the MS/MSD spike recoveries were also variable but the LCS results were in control, it is likely that there was matrix interference for some of the samples in this batch. Samples have been flagged and any samples with detectable results should be considered as estimated.

5393.12

APPENDIX 1
Automated Data Review Results

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Summary Report by Analysis Method

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EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
6010C	E11-138-S1	31101915029	RES	3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-138-S2	31101915030		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-139-S1	31101915026		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-139-S2	31101915027		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-139-S3	31101915028		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-143-S3	31101915023		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-144-S1	31101915024		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-144-S2	31101915025		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-149-S1	31101915002		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-149-S2	31101915003		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-149-S3	31101915006		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-150-S1	31101915016		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-150-S2	31101915017		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-150-S3	31101915018		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-150-S4	31101915021		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-152-S1	31101915007		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-152-S2	31101915008		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-152-S3	31101915009		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-153-S1	31101915010		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-153-S2	31101915011		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-153-S3	31101915012		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-153-S4	31101915015		3050B	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
7471B	E11-138-S1	31101915029	RES	7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-138-S2	31101915030		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-139-S1	31101915026		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-139-S2	31101915027		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-139-S3	31101915028		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-143-S3	31101915023		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
	E11-144-S1	31101915024		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011

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

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EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
E11-144-S2		31101915025	RES	7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-149-S1		31101915002		7471B	SO	07/18/2011	07/11/2011	07/25/2011	07/25/2011
E11-149-S2		31101915003		7471B	SO	07/18/2011	07/11/2011	07/25/2011	07/25/2011
E11-149-S3		31101915006		7471B	SO	07/18/2011	07/11/2011	07/25/2011	07/25/2011
E11-150-S1		31101915016		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-150-S2		31101915017		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-150-S3		31101915018		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-150-S4		31101915021		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-152-S1		31101915007		7471B	SO	07/18/2011	07/11/2011	07/25/2011	07/25/2011
E11-152-S2		31101915008		7471B	SO	07/18/2011	07/11/2011	07/25/2011	07/25/2011
E11-152-S3		31101915009		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-153-S1		31101915010		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-153-S2		31101915011		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-153-S3		31101915012		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
E11-153-S4		31101915015		7471B	SO	07/18/2011	07/11/2011	07/26/2011	07/26/2011
8081									
E11-138-S1		31101915029	RES	3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-138-S2		31101915030		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-139-S1		31101915026		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-139-S2		31101915027		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-139-S3		31101915028		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-143-S3		31101915023		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
E11-144-S1		31101915024		3541	SO	07/18/2011	07/11/2011	07/23/2011	08/01/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	08/01/2011

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

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EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
	E11-144-S2	31101915025	RES	3541	SO	07/18/2011	07/11/2011	07/23/2011	08/01/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	08/01/2011
	E11-149-S1	31101915002	DL	3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-149-S2	31101915003	RES	3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-149-S3	31101915006		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-150-S1	31101915016		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-150-S2	31101915017		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-150-S3	31101915018		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-150-S4	31101915021		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-152-S1	31101915007		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-152-S2	31101915008		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-152-S3	31101915009		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-153-S1	31101915010	DL	3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-153-S2	31101915011	RES	3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/27/2011
	E11-153-S3	31101915012		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
	E11-153-S4	31101915015		3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
				3541	SO	07/18/2011	07/11/2011	07/23/2011	07/29/2011
8151	E11-138-S1	31101915029	RES	3541	SO	07/18/2011	07/11/2011	08/01/2011	08/03/2011

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

5393.19

EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
E11-138-S1		31101915029	RES	3541	SO	07/18/2011	07/11/2011	08/01/2011	08/02/2011
E11-138-S2		31101915030		3541	SO	07/18/2011	07/11/2011	07/28/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/29/2011	07/30/2011
E11-139-S1		31101915026		3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
E11-139-S2		31101915027		3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
E11-139-S3		31101915028		3541	SO	07/18/2011	07/11/2011	08/01/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	08/01/2011	08/02/2011
E11-143-S3		31101915023		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
E11-144-S1		31101915024		3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
E11-144-S2		31101915025		3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
E11-149-S1		31101915002		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
E11-149-S2		31101915003		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
E11-149-S3		31101915006		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/28/2011
E11-150-S1		31101915016		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
E11-150-S2		31101915017		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
E11-150-S3		31101915018		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SU	07/18/2011	07/11/2011	07/24/2011	07/30/2011
E11-150-S4		31101915021		3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
				3541	SO	07/18/2011	07/11/2011	07/31/2011	08/02/2011
E11-152-S1		31101915007		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011

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

5393.18

EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
	E11-152-S2	31101915008	RES	3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
	E11-152-S3	31101915009		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
	E11-153-S1	31101915010		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
	E11-153-S2	31101915011		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
	E11-153-S3	31101915012		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
	E11-153-S4	31101915015		3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
				3541	SO	07/18/2011	07/11/2011	07/24/2011	07/30/2011
8260B									
	E11-138-S1	31101915029	RES	5035	SO	07/18/2011	07/11/2011	07/29/2011	07/29/2011
	E11-138-S2	31101915030		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-139-S1	31101915026		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-139-S2	31101915027		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-139-S3	31101915028		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-143-S3	31101915023		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-144-S1	31101915024		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-144-S2	31101915025		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-149-S1	31101915002		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-149-S2	31101915003		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-149-S3	31101915006		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-150-S1	31101915016		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-150-S2	31101915017		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-150-S3	31101915018		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-150-S4	31101915021		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-152-S1	31101915007		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-152-S2	31101915008		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-152-S3	31101915009		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-153-S1	31101915010		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-153-S2	31101915011		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	E11-153-S3	31101915012		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011

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

5393.19

EDD Summary Report by Analysis Method

Laboratory Reporting Batch : 31101915

Laboratory : SGSW

Lab Report Date : 08/22/2011

Analysis Method	Client Sample ID	Lab Sample ID	Analysis Type	Preparation Method	Matrix	Collection Date	Receipt Date	Preparation Date	Analysis Date
	E11-153-S4	31101915015	RES	5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	Trip Blank (1)	31101915001		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
	Trip Blank (2)	31101915022		5035	SO	07/18/2011	07/11/2011	07/27/2011	07/27/2011
8270D									
	E11-138-S1	31101915029	RES	3541	SO	07/18/2011	07/11/2011	07/22/2011	07/28/2011
	E11-138-S2	31101915030		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/28/2011
	E11-139-S1	31101915026		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/28/2011
	E11-139-S2	31101915027		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/28/2011
	E11-139-S3	31101915028		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/28/2011
	E11-143-S3	31101915023		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-144-S1	31101915024		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-144-S2	31101915025		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-149-S1	31101915002		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-149-S2	31101915003		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-149-S3	31101915006		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-150-S1	31101915016		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-150-S2	31101915017		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-150-S3	31101915018		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-150-S4	31101915021		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-152-S1	31101915007		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-152-S2	31101915008		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/25/2011
	E11-152-S3	31101915009		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-153-S1	31101915010		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-153-S2	31101915011		3541	SO	07/18/2011	07/11/2011	07/22/2011	07/26/2011
	E11-153-S3	31101915012		3541	SO	07/18/2011	07/11/2011	07/27/2011	07/28/2011
	E11-153-S4	31101915015		3541	SO	07/18/2011	07/11/2011	07/27/2011	07/28/2011

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

ADR 8.2

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**Laboratory Control Sample/Laboratory Control
Sample Duplicate Outlier Report**

5393.21

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : VXX1838

Analysis Method : 8260B

Analysis Date : 07/27/2011

Preparation Batch : VXX1838

Preparation Type : 5035

Preparation Date : 07/27/2011

Lab Reporting Batch : 31101915

Lab ID: SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32581	SO	Bromomethane	134	13	10.00	75.00	125.00	20.00
		trans-1,2-Dichloroethene	107	22	10.00	75.00	125.00	20.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-138-S2	31101915030
E11-138-S2	31101915030
E11-139-S1	31101915026
E11-139-S1	31101915026
E11-139-S2	31101915027
E11-139-S2	31101915027
E11-139-S3	31101915028
E11-139-S3	31101915028
E11-144-S1	31101915024
E11-144-S1	31101915024
E11-144-S2	31101915025
E11-144-S2	31101915025

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

5393.22

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : VXX1839	Analysis Method : 8260B	Analysis Date : 07/27/2011
Preparation Batch : VXX1839	Preparation Type : 5035	Preparation Date : 07/27/2011
Lab Reporting Batch : 31101915	Lab ID: SGSW	

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32583	SO	Acetone	133		10.00	75.00	125.00	20.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-143-S3	31101915023
E11-143-S3	31101915023
E11-149-S1	31101915002
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-149-S3	31101915006
E11-150-S1	31101915016
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S2	31101915017
E11-150-S3	31101915018
E11-150-S3	31101915018
E11-150-S4	31101915021
E11-150-S4	31101915021
E11-152-S1	31101915007
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S2	31101915011
E11-153-S3	31101915012
E11-153-S3	31101915012
E11-153-S4	31101915015
E11-153-S4	31101915015
Trip Blank (1)	31101915001
Trip Blank (1)	31101915001
Trip Blank (2)	31101915022
Trip Blank (2)	31101915022

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

5393.23

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : VXX1852 **Analysis Method :** 8260B **Analysis Date :** 07/29/2011
Preparation Batch : VXX1852 **Preparation Type :** 5035 **Preparation Date :** 07/29/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32954	SO	Dichlorodifluoromethane	132		10.00	75.00	125.00	20.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-138-S1	31101915029
E11-138-S1	31101915029

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

5393.24

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : XXX1570 **Analysis Method :** 8270D **Analysis Date :** 07/25/2011
Preparation Batch : XXX1570 **Preparation Type :** 3541 **Preparation Date :** 07/22/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32260	SO	Hexachlorocyclopentadiene	2158		10.00	55.00	250.00	60.00
		Pentachlorophenol	70		10.00	75.00	120.00	60.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-149-S1	31101915002
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-149-S3	31101915006
E11-152-S1	31101915007
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S2	31101915011

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS
Project Number and Name: 11-032E - 11-032E Carroll Agent Orange

5393.25

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : XXX1571 **Analysis Method :** 8270D **Analysis Date :** 07/25/2011
Preparation Batch : XXX1571 **Preparation Type :** 3541 **Preparation Date :** 07/22/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32262	SO	Hexachlorocyclopentadiene	2276		10.00	55.00	250.00	60.00
		Pentachlorophenol	70		10.00	75.00	120.00	60.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-138-S1	31101915029
E11-138-S1	31101915029
E11-138-S2	31101915030
E11-138-S2	31101915030
E11-139-S1	31101915026
E11-139-S1	31101915026
E11-139-S2	31101915027
E11-139-S2	31101915027
E11-139-S3	31101915028
E11-139-S3	31101915028
E11-143-S3	31101915023
E11-143-S3	31101915023
E11-144-S1	31101915024
E11-144-S1	31101915024
E11-144-S2	31101915025
E11-144-S2	31101915025
E11-150-S1	31101915016
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S2	31101915017
E11-150-S3	31101915018
E11-150-S3	31101915018
E11-150-S4	31101915021
E11-150-S4	31101915021

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

5393.26

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : XXX1589	Analysis Method : 8270D	Analysis Date : 07/28/2011
Preparation Batch : XXX1589	Preparation Type : 3541	Preparation Date : 07/27/2011
Lab Reporting Batch : 31101915	Lab ID: SGSW	

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
32776	SO	Hexachlorocyclopentadiene	1946		10.00	55.00	250.00	60.00
		Pentachlorophenol	66		10.00	75.00	120.00	60.00

<i>Associated Samples</i>	
Client Sample ID	Lab Sample ID
E11-153-S3	31101915012
E11-153-S3	31101915012
E11-153-S4	31101915015
E11-153-S4	31101915015

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

53.93,27

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : XXX1605 **Analysis Method :** 8151 **Analysis Date :** 08/02/2011
Preparation Batch : XXX1605 **Preparation Type :** 3541 **Preparation Date :** 07/31/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
33336	SO	2,4,5-T	56	36	5.00	5.00	115.00	30.00
		2,4,5-T	56	36	5.00	5.00	115.00	30.00
		2,4-D	54	32	5.00	25.00	115.00	25.00
		2,4-D	54	32	5.00	25.00	115.00	25.00
		2,4-DB	24	94	5.00	18.00	115.00	30.00
		2,4-DB	24	94	5.00	18.00	115.00	30.00
		Dicamba	61	31	5.00	25.00	115.00	25.00
		Dicamba	61	31	5.00	25.00	115.00	25.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-139-S1	31101915026
E11-139-S1	31101915026
E11-139-S2	31101915027
E11-139-S2	31101915027
E11-144-S1	31101915024
E11-144-S1	31101915024
E11-144-S2	31101915025
E11-144-S2	31101915025
E11-150-S4	31101915021
E11-150-S4	31101915021

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

53 93.28

Laboratory Control Sample / Laboratory Control Sample Duplicate Outlier Report

Method Batch : XXX1613 **Analysis Method :** 8151 **Analysis Date :** 08/02/2011
Preparation Batch : XXX1613 **Preparation Type :** 3541 **Preparation Date :** 08/01/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

LCS Lab Sample ID	Matrix	Analyte Name	Reported Values		Project Limits (Percent)			
			Percent Recovery	RPD	Rejection Point	Lower Limit	Upper Limit	RPD
33612	SO	2,4-DB	92	57	5.00	18.00	115.00	30.00
		2,4-DB	92	57	5.00	18.00	115.00	30.00

Associated Samples	
Client Sample ID	Lab Sample ID
E11-138-S1	31101915029
E11-138-S1	31101915029
E11-139-S3	31101915028
E11-139-S3	31101915028

Scope of Data Qualification: The outlier in the LCS qualifies that analyte in all samples with the same Preparation Batch ID as the LCS

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

5393.29

**Matrix Spike / Matrix Spike Duplicate Recovery and RPD
Outlier Report**

5393.30

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : MXX1381 **Analysis Method :** 6010C **Analysis Date :** 07/25/2011
Preparation Batch : MXX1381 **Preparation Type :** 3050B **Preparation Date :** 07/22/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915003MSD	31101915005	SO	Barium	74		30.00	75.00	125.00	25.00
			Lead	72		30.00	75.00	125.00	25.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-143-S3	31101915023
E11-144-S1	31101915024
E11-144-S2	31101915025
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S4	31101915021
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S3	31101915012
E11-153-S4	31101915015

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
 ** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5393.31

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : VXX1839 **Analysis Method :** 8260B **Analysis Date :** 07/27/2011
Preparation Batch : VXX1839 **Preparation Type :** 5035 **Preparation Date :** 07/27/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915003MS	31101915004	SO	1,1,2,2-Tetrachloroethane	135		10.00	70.00	130.00	20.00
			1,2,3-Trichloropropane	146		10.00	70.00	130.00	20.00
			1,2-Dibromo-3-chloropropane	171		10.00	70.00	130.00	20.00
			2-Butanone	160		10.00	70.00	130.00	20.00
			2-Hexanone	160		10.00	70.00	130.00	20.00
			4-Methyl-2-pentanone	186		10.00	70.00	130.00	20.00
			Hexachlorobutadiene	68		10.00	70.00	130.00	20.00
			Styrene	63		10.00	70.00	130.00	20.00
			Trichlorofluoromethane	68		10.00	70.00	130.00	20.00
31101915003MSD	31101915005		1,1,2,2-Tetrachloroethane	133		10.00	70.00	130.00	20.00
			1,2,3-Trichloropropane	146		10.00	70.00	130.00	20.00
			1,2,4-Trichlorobenzene	62		10.00	70.00	130.00	20.00
			1,2,4-Trimethylbenzene	68		10.00	70.00	130.00	20.00
			1,2-Dibromo-3-chloropropane	178		10.00	70.00	130.00	20.00
			2-Butanone	188		10.00	70.00	130.00	20.00
			2-Hexanone	174		10.00	70.00	130.00	20.00
			4-Methyl-2-pentanone	189		10.00	70.00	130.00	20.00
			Acetone	157	25	10.00	70.00	130.00	20.00
			Hexachlorobutadiene	61		10.00	70.00	130.00	20.00
			Naphthalene		38	10.00	70.00	130.00	20.00
			n-Butylbenzene	67		10.00	70.00	130.00	20.00
			Styrene	29	80	10.00	70.00	130.00	20.00
			Trichlorofluoromethane	65		10.00	70.00	130.00	20.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-143-S3	31101915023
E11-143-S3	31101915023
E11-149-S1	31101915002
E11-149-S1	31101915002
E11-140-S2	31101915003
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-149-S3	31101915006
E11-150-S1	31101915016
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S2	31101915017
E11-150-S3	31101915018
E11-150-S3	31101915018
E11-150-S4	31101915021

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
 ** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5393.32

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

E11-150-S4	31101915021
E11-152-S1	31101915007
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S2	31101915011
E11-153-S3	31101915012
E11-153-S3	31101915012
E11-153-S4	31101915015
E11-153-S4	31101915015
Trip Blank (1)	31101915001
Trip Blank (1)	31101915001
Trip Blank (2)	31101915022
Trip Blank (2)	31101915022

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.

** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5393.33

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : XXX1570 **Analysis Method :** 8270D **Analysis Date :** 07/25/2011
Preparation Batch : XXX1570 **Preparation Type :** 3541 **Preparation Date :** 07/22/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915003MS	31101915004	SO	Hexachlorocyclopentadiene	2015		10.00	45.00	135.00	60.00
31101915003MSD	31101915005		Hexachlorocyclopentadiene	1917		10.00	45.00	135.00	60.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-149-S1	31101915002
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-149-S3	31101915006
E11-152-S1	31101915007
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S2	31101915011

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
 ** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments
Project Number and Name: 11-032E - 11-032E Carroll Agent Orange

5393.34

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : XXX1575 **Analysis Method :** 8151 **Analysis Date :** 07/28/2011
Preparation Batch : XXX1575 **Preparation Type :** 3541 **Preparation Date :** 07/24/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915003MSD	31101915005	SO	2,4-DB	71		5.00	18.00	115.00	30.00
			2,4-DB	71		5.00	18.00	115.00	30.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-149-S1	31101915002
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-149-S3	31101915006

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.

** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5393.35

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : XXX1576 **Analysis Method :** 8151 **Analysis Date :** 07/30/2011
Preparation Batch : XXX1576 **Preparation Type :** 3541 **Preparation Date :** 07/24/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915018MSD	31101915020	SO	2,4,5-TP (Silvex)	53		5.00	25.00	115.00	25.00
			2,4,5-TP (Silvex)	53		5.00	25.00	115.00	25.00
			2,4-D	29		5.00	25.00	115.00	25.00
			2,4-D	29		5.00	25.00	115.00	25.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-143-S3	31101915023
E11-143-S3	31101915023
E11-150-S1	31101915016
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S2	31101915017
E11-150-S3	31101915018
E11-150-S3	31101915018
E11-152-S1	31101915007
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S2	31101915011
E11-153-S3	31101915012
E11-153-S3	31101915012
E11-153-S4	31101915015
E11-153-S4	31101915015

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
 ** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5393.36

Matrix Spike / Matrix Spike Duplicate Recovery and RPD Outlier Report

Method Batch : XXX1589 **Analysis Method :** 8270D **Analysis Date :** 07/28/2011
Preparation Batch : XXX1589 **Preparation Type :** 3541 **Preparation Date :** 07/27/2011
Lab Reporting Batch : 31101915 **Lab ID:** SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported *		Project Limits (Percent)			
				Percent Recovery	RPD	Rejection Point**	Lower Limit	Upper Limit	RPD
31101915012MS	31101915013	SO	Hexachlorocyclopentadiene	1874		10.00	45.00	135.00	60.00
31101915012MSD	31101915014		Hexachlorocyclopentadiene	2014		10.00	45.00	135.00	60.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-153-S3	31101915012
E11-153-S3	31101915012
E11-153-S4	31101915015
E11-153-S4	31101915015

* Only those Percent Recovery and/or RPD values outside project limits are listed in this report.
 ** Metal are also assessed against an upper rejection point of 150 percent for waters and 200 percent for soils and sediments

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

5398.37

Surrogate Recovery Outlier Report*

*Excludes samples diluted more than 20x

53 98.38

Surrogate Recovery Outlier Report

Lab Report Batch: 31101915

Lab ID: SGSW

Client Sample ID	Lab Sample ID	Analysis Method	Dilution	Matrix	Surrogate	Percent Recovery	Criteria (percent)			Associated Target Analytes
							Lower Limit	Upper Limit	Reject Point	
31101915003MS	31101915004	8151	1	SO	DCAA	148	35.0	135.0	10.0	All Target
		8260B			1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
31101915003MSD	31101915005	8151	1	SO	DCAA	190	35.0	135.0	10.0	All Target
		8260B			1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
31101915018MSD	31101915020	8081	1	SO	Tetrachloro-m-xylene	69	70.0	130.0	10.0	All Target
E11-143-S3	31101915023	8260B	1	SO	1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
E11-149-S1	31101915002	8260B	1	SO	1,2-Dichloroethane-d4	121	80.0	120.0	10.0	All Target
E11-149-S3	31101915006	8260B	1	SO	1,2-Dichloroethane-d4	123	80.0	120.0	10.0	All Target
E11-150-S2	31101915017	8260B	1	SO	1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
E11-150-S3	31101915018	8081	1	SO	Tetrachloro-m-xylene	66	70.0	130.0	10.0	All Target
		8260B			1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
E11-153-S1	31101915010	8260B	1	SO	1,2-Dichloroethane-d4	121	80.0	120.0	10.0	All Target
E11-153-S2	31101915011	8260B	1	SO	1,2-Dichloroethane-d4	122	80.0	120.0	10.0	All Target
E11-153-S3	31101915012	8260B	1	SO	1,2-Dichloroethane-d4	121	80.0	120.0	10.0	All Target

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

ADR 8.2

Report Date: 9/2/2011 16:10

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5393.39

Laboratory Duplicate RPD Outlier Report

5393.40

Laboratory Duplicate RPD Outlier Report

Method Batch : MXX1381

Analysis Method : 6010C

Analysis Date : 07/25/2011

Lab Reporting Batch : 31101915

Lab ID: SGSW

Client Sample ID	Lab Sample ID	Matrix	Analyte Name	Reported RPD	Project Limit RPD
31101915025DUP	32250	SO	Lead	27	20.00

Associated Samples: All samples in Method Batch	
Client Sample ID	Lab Sample ID
E11-143-S3	31101915023
E11-144-S1	31101915024
E11-144-S2	31101915025
E11-149-S1	31101915002
E11-149-S2	31101915003
E11-149-S3	31101915006
E11-150-S1	31101915016
E11-150-S2	31101915017
E11-150-S4	31101915021
E11-152-S1	31101915007
E11-152-S2	31101915008
E11-152-S3	31101915009
E11-153-S1	31101915010
E11-153-S2	31101915011
E11-153-S3	31101915012
E11-153-S4	31101915015

5394

Sample Qualification Report

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

5395

Sample Qualification Report (All Analytes)

Client Sample ID : 31101915003MS

Lab Report Batch : 31101915

Lab ID : SGSW

Sample Date :

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915004

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV	
Analysis Method : 8081				Dilution: 1																	
Chlordane	34.0		ug/Kg	U																	
Chlordane	34.0		ug/Kg	U																	
Toxaphene	34.0		ug/Kg	U																	
Toxaphene	34.0		ug/Kg	U																	
Analysis Method : 8151				Dilution: 1																	
Benlazon	0.0131		mg/kg	J		J								J							
Benlazon	0.0131		mg/kg	J		J								J							
Picloram	0.0366		mg/kg			J								J							
Picloram	0.0366		mg/kg			J								J							

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

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* 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

53%

Sample Qualification Report (All Analytes)

Client Sample ID : 31101915018MS

Lab Report Batch : 31101915

Lab ID : SGSW

Sample Date :

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915019

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dts	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081				Dilution: 1																
Chlordane	35.4		ug/Kg	U																
Chlordane	35.4		ug/Kg	U																
Toxaphene	35.4		ug/Kg	U																
Toxaphene	35.4		ug/Kg	U																
Analysis Method : 8151				Dilution: 1																
4-Nitrophenol	0.0177		mg/kg	U																
4-Nitrophenol	0.0177		mg/kg	U																
Bentazon	0.0420		mg/kg																	
Bentazon	0.0420		mg/kg																	
Chloramben	0.00602		mg/kg	J P																
Chloramben	0.00602		mg/kg	J P																
Dalapon	0.0922		mg/kg	J																
Dalapon	0.0922		mg/kg	J																
MCPP	2.78		mg/kg	J																
MCPP	2.78		mg/kg	J																
Picloram	0.0282		mg/kg	J																
Picloram	0.0282		mg/kg	J																

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

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* 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

5397

Sample Qualification Report (All Analytes)

Client Sample ID : E11-138-S1
 Sample Date : 07/18/2011
 Lab Sample ID: 31101915029

Lab Report Batch : 31101915
 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	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV/ CCV
Analysis Method : 6010C																				
Dilution: 1																				
Arsenic	0.744		mg/kg	J	YES															
Barium	71.4		mg/kg		YES															
Cadmium	0.622		mg/kg		YES	U							U							
Chromium	3.97		mg/kg		YES															
Lead	5.04		mg/kg		YES															
Selenium	1.81		mg/kg	U	YES															
Silver	0.906		mg/kg	U	YES															
Analysis Method : 7471B																				
Dilution: 1																				
Mercury	0.0187		mg/kg	U	YES															
Analysis Method : 8081																				
Dilution: 1																				
4,4'-DDD	10.2		ug/Kg	U	YES															
4,4'-DDD	10.2		ug/Kg	U	YES															
4,4'-DDE	10.2		ug/Kg	U	YES															
4,4'-DDE	10.2		ug/Kg	U	YES															
4,4'-DDT	10.2		ug/Kg	U	YES															
4,4'-DDT	10.2		ug/Kg	U	YES															
Aldrin	10.2		ug/Kg	U	YES															
Aldrin	10.2		ug/Kg	U	YES															
alpha-BHC	10.2		ug/Kg	U	YES															
alpha-BHC	10.2		ug/Kg	U	YES															
alpha-Chlordane	10.2		ug/Kg	U	YES															
alpha-Chlordane	10.2		ug/Kg	U	YES															
beta-BHC	10.2		ug/Kg	U	YES															
beta-BHC	10.2		ug/Kg	U	YES															
Chlordane	34.0		ug/Kg	U	YES															
Chlordane	34.0		ug/Kg	U	YES															
delta-BHC	10.2		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

Report Date: 9/6/2011 10:37

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* 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

5398

Sample Qualification Report (All Analytes)

Client Sample ID : E11-138-S1

Lab Report Batch : 31101915

Lab ID : SGSW

Sample Date : 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915029

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dis	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
delta-BHC	10.2		ug/Kg	U	YES															
Dieldrin	10.2		ug/Kg	U	YES															
Dieldrin	10.2		ug/Kg	U	YES															
Endosulfan I	10.2		ug/Kg	U	YES															
Endosulfan I	10.2		ug/Kg	U	YES															
Endosulfan II	10.2		ug/Kg	U	YES															
Endosulfan II	10.2		ug/Kg	U	YES															
Endosulfan sulfate	10.2		ug/Kg	U	YES															
Endosulfan sulfate	10.2		ug/Kg	U	YES															
Endrin	10.2		ug/Kg	U	YES															
Endrin	10.2		ug/Kg	U	YES															
Endrin aldehyde	10.2		ug/Kg	U	YES															
Endrin aldehyde	10.2		ug/Kg	U	YES															
Endrin ketone	10.2		ug/Kg	U	YES															
Endrin ketone	10.2		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES															
gamma-BHC (Lindane)	10.2		ug/Kg	U	YES															
gamma-Chlordane	10.2		ug/Kg	U	YES															
gamma-Chlordane	10.2		ug/Kg	U	YES															
Heptachlor	10.2		ug/Kg	U	YES															
Heptachlor	10.2		ug/Kg	U	YES															
Heptachlor epoxide	10.2		ug/Kg	U	YES															
Heptachlor epoxide	10.2		ug/Kg	U	YES															
Methoxychlor	10.2		ug/Kg	U	YES															
Methoxychlor	10.2		ug/Kg	U	YES															
Toxaphene	34.0		ug/Kg	U	YES															

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

Library Used: CampCarroll

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* 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

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Sample Qualification Report (All Analytes)

Client Sample ID : E11-138-S1

Lab Report Batch : 31101915

Lab ID : SGSW

Sample Date : 07/18/2011

Analysis Type: RES

Sample Matrix : SO

Lab Sample ID: 31101915029

Reviewed By / Date :

Approved By / Date :

Analyte Name	Result	Uncertainty / Error	Result Units	Lab Qual	Rep Res	Overall Qual*	Temp	HT	MB	LCS	MS	Lab Dup	Surr	Rep Limit	Moist Tot/Dls	Field QC	Tune	IC	ICV	CV / CCV
Analysis Method : 8081																				
Dilution: 1																				
Toxaphene	34.0		ug/Kg	U	YES															
Analysis Method : 8151																				
Dilution: 1																				
2,4,5-T	0.0170		mg/kg	U	YES															
2,4,5-T	0.0170		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0170		mg/kg	U	YES															
2,4,5-TP (Silvex)	0.0170		mg/kg	U	YES															
2,4-D	0.0170		mg/kg	U	YES															
2,4-D	0.0170		mg/kg	U	YES															
2,4-DB	0.0170		mg/kg	U	YES	UJ										UJ				
2,4-DB	0.0170		mg/kg	U	YES	UJ										UJ				
Dicamba	0.0170		mg/kg	U	YES															
Dicamba	0.0170		mg/kg	U	YES															
Analysis Method : 8260B																				
Dilution: 1																				
1,1,1,2-Tetrachloroethane	5.03		ug/Kg	U	YES															
1,1,1-Trichloroethane	5.03		ug/Kg	U	YES															
1,1,2,2-Tetrachloroethane	5.03		ug/Kg	U	YES															
1,1,2-Trichloroethane	5.03		ug/Kg	U	YES															
1,1-Dichloroethane	5.03		ug/Kg	U	YES															
1,1-Dichloroethene	5.03		ug/Kg	U	YES															
1,1 Dichloropropane	5.03		ug/Kg	U	YES															
1,2,3-Trichlorobenzene	5.03		ug/Kg	U	YES															
1,2,3-Trichloropropane	5.03		ug/Kg	U	YES															
1,2,4-Trichlorobenzene	5.03		ug/Kg	U	YES															
1,2,4-Trimethylbenzene	5.03		ug/Kg	U	YES															
1,2-Dibromo-3-chloropropane	30.2		ug/Kg	U	YES															
1,2-Dibromoethane	5.03		ug/Kg	U	YES															
1,2-Dichlorobenzene	5.03		ug/Kg	U	YES															

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

Library Used: CampCarroll

ADR 8.2

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* 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

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