



*Alpha*

Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

11 May 2017

Sample Traps, LLC

Attn: Quality Control Manager

6398 Dougherty Road, Suite 36

Dublin, CA 94568

RE: QC- 1 Liter BRA Buttress

Work Order: 17D1974

Enclosed are the results of analyses for samples received by the laboratory on 04/20/17 22:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin  
Project Manager



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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U7086CUFS - 01	17D1974-01	Water	04/20/17 09:40	04/20/17 22:25
U7086CUFS - 02	17D1974-02	Water	04/20/17 09:40	04/20/17 22:25
U7086CUFS - 04	17D1974-04	Water	04/20/17 09:40	04/20/17 22:25
U7086CUFS - 05	17D1974-05	Water	04/20/17 09:40	04/20/17 22:25



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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 01 (17D1974-01) Water    Sampled: 04/20/17 09:40    Received: 04/20/17 22:25</b>												
Aldrin	ND	0.0020	0.0050		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
alpha-BHC	ND	0.0040	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
beta-BHC	ND	0.0020	0.0050		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
delta-BHC	ND	0.0020	0.0050		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
gamma-BHC (Lindane)	ND	0.0040	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Chlordane (tech)	ND	0.040	0.050		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
4,4'-DDD	ND	0.020	0.020		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
4,4'-DDE	ND	0.0040	0.020		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
4,4'-DDT	ND	0.0030	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Dieldrin	ND	0.0050	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Endosulfan I	ND	0.0040	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Endosulfan II	ND	0.0020	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Endosulfan sulfate	ND	0.020	0.050		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Endrin	ND	0.0020	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Endrin aldehyde	ND	0.0020	0.040		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Heptachlor	ND	0.0030	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Heptachlor epoxide	ND	0.0090	0.010		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Methoxychlor	ND	0.0060	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Toxaphene	ND	0.20	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1016	ND	0.080	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1221	ND	0.20	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1232	ND	0.10	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1242	ND	0.040	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1248	ND	0.060	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1254	ND	0.040	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
PCB-1260	ND	0.040	0.50		ug/L	1	AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	U
Surrogate: Dibutylchlorodate		87.7 %	63-124				AD74002	04/25/17 00:00	05/03/17 04:09	EPA 8081A/8082	MCB	

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organophosphorus Compounds by EPA Method 8141A

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 02 (17D1974-02) Water    Sampled: 04/20/17 09:40    Received: 04/20/17 22:25</b>												
Azinphos ethyl	ND	0.30	2.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Azinphos methyl	ND	0.40	2.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Bolstar	ND	0.30	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Chlorpyrifos	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Coumaphos	ND	0.30	2.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Demeton-o	ND	0.20	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Demeton-s	ND	0.30	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Diazinon	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Dichlorvos	ND	0.40	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Dimethoate	ND	0.30	2.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Disulfoton	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
EPN	ND	0.50	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Ethion	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Ethoprop (Ethoprophos)	ND	0.40	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Fensulfothion	ND	0.30	2.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Fenthion	ND	0.50	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Malathion	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Mevinphos	ND	0.30	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Parathion	ND	0.40	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Parathion-methyl	ND	0.40	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Phorate	ND	0.40	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Ronnel	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Stirofos	ND	0.30	0.50		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Thionazin	ND	0.30	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Tokuthion (Prothiofos)	ND	0.40	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Trichloronate	ND	0.40	1.0		ug/L	1	AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	U
Surrogate: Tributyl phosphate		97.0 %	37-115				AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	
Surrogate: Triphenyl phosphate		91.1 %	44-145				AD74092	04/27/17 00:00	05/10/17 10:23	EPA 8141A	MCB	

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6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 04 (17D1974-04) Water    Sampled: 04/20/17 09:40    Received: 04/20/17 22:25</b>												
Acenaphthene	ND	0.57	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Acenaphthylene	ND	0.48	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Anthracene	ND	0.39	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Benzo (a) anthracene	ND	0.39	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Benzo (a) pyrene	ND	0.50	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Benzo (b) fluoranthene	ND	0.64	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Benzo (g,h,i) perylene	ND	0.93	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Benzo (k) fluoranthene	ND	0.34	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Bis(2-chloroethoxy)methane	ND	0.81	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Bis(2-chloroethyl)ether	ND	0.30	0.50		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Bis(2-chloroisopropyl)ether	ND	0.41	0.50		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Bis(2-ethylhexyl)phthalate	ND	0.83	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Bromophenyl phenyl ether	ND	0.43	4.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Butyl benzyl phthalate	ND	0.64	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Chloro-3-methylphenol	ND	0.58	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Chloroaniline	ND	6.2	14		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Chloronaphthalene	ND	0.57	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Chlorophenol	ND	0.66	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Chlorophenyl phenyl ether	ND	0.93	4.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Chrysene	ND	0.76	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Di-n-butyl phthalate	ND	0.91	10		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Di-n-octyl phthalate	ND	0.65	10		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Dibenz (a,h) anthracene	ND	0.83	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Dibenzofuran	ND	0.86	4.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
1,2-Dichlorobenzene	ND	0.61	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
1,3-Dichlorobenzene	ND	0.62	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
1,4-Dichlorobenzene	ND	0.61	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4-Dichlorophenol	ND	0.66	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Diethyl phthalate	ND	0.86	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Dimethyl phthalate	ND	0.68	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4-Dimethylphenol	ND	1.2	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4,6-Dinitro-2-methylphenol	ND	0.75	4.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4-Dinitrophenol	ND	1.3	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4-Dinitrotoluene	ND	0.68	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U

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Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 04 (17D1974-04) Water    Sampled: 04/20/17 09:40    Received: 04/20/17 22:25</b>												
2,6-Dinitrotoluene	ND	0.54	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Fluoranthene	ND	0.76	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Fluorene	ND	0.81	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Hexachlorobenzene	ND	0.89	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Hexachlorobutadiene	ND	0.84	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Hexachlorocyclopentadiene	ND	0.45	4.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Hexachloroethane	ND	0.58	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Indeno (1,2,3-cd) pyrene	ND	0.63	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Isophorone	ND	0.81	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Methylnaphthalene	ND	1.0	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Methylphenol (o-cresol)	ND	0.64	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
N-Nitrosodi-n-propylamine	ND	0.85	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
N-Nitrosodimethylamine	ND	1.1	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
N-Nitrosodiphenylamine	ND	0.90	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Naphthalene	ND	0.66	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Nitroaniline	ND	3.3	20		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
3-Nitroaniline	ND	4.3	50		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Nitroaniline	ND	11	20		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2-Nitrophenol	ND	0.90	10		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
4-Nitrophenol	ND	0.99	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Nitrobenzene	ND	0.74	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Pentachlorophenol	ND	1.4	5.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Phenanthrene	ND	0.65	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Phenol	ND	0.46	1.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Pyrene	ND	0.45	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
1,2,4-Trichlorobenzene	ND	0.59	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4,5-Trichlorophenol	ND	0.58	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
2,4,6-Trichlorophenol	ND	0.74	2.0		ug/L	1	AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	U
Surrogate: 2-Fluorobiphenyl		85.1 %	42-115				AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	
Surrogate: 2-Fluorophenol		54.5 %	21-87				AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	
Surrogate: Nitrobenzene-d5		86.4 %	50-110				AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	
Surrogate: p-Terphenyl-d14		105 %	61-134				AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	
Surrogate: Phenol-d6		36.1 %	20-52				AD73980	04/24/17 08:18	04/26/17 16:12	EPA 8270C/625	NBH	

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							

**U7086CUFS - 04 (17D1974-04) Water**    **Sampled: 04/20/17 09:40**    **Received: 04/20/17 22:25**

*Surrogate: 2,4,6-Tribromophenol*                      90.9 %                      54-135                      AD73980                      04/24/17 08:18                      04/26/17 16:12                      EPA 8270C/625                      NBH



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Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Benzidines by EPA Method 8270C

Analyte	Result	MDL	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit	Units							
<b>U7086CUFS - 04 (17D1974-04) Water    Sampled: 04/20/17 09:40    Received: 04/20/17 22:25</b>											
Benzidine	ND	3.0	5.0	ug/L	1	AD73967	04/24/17 07:00	04/26/17 19:19	EPA 8270C	NBH	U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L	1	AD73967	04/24/17 07:00	04/26/17 19:19	EPA 8270C	NBH	U
<i>Surrogate: 2-Fluorobiphenyl</i>		66.9 %	42-115			AD73967	04/24/17 07:00	04/26/17 19:19	EPA 8270C	NBH	
<i>Surrogate: Nitrobenzene-d5</i>		64.3 %	50-110			AD73967	04/24/17 07:00	04/26/17 19:19	EPA 8270C	NBH	
<i>Surrogate: p-Terphenyl-d14</i>		75.2 %	61-134			AD73967	04/24/17 07:00	04/26/17 19:19	EPA 8270C	NBH	





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Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C SIM

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 05 (17D1974-05) Water Sampled: 04/20/17 09:40 Received: 04/20/17 22:25</b>												
Acenaphthylene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Anthracene	ND	0.090	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Benzo (a) anthracene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Benzo (a) pyrene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Benzo (b) fluoranthene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Benzo (g,h,i) perylene	ND	0.10	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Benzo (k) fluoranthene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Chrysene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Dibenz (a,h) anthracene	ND	0.10	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Fluorene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Phenanthrene	ND	0.10	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Pyrene	ND	0.20	0.20		ug/L	1	AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	U
Surrogate: 2-Fluorobiphenyl		65.4 %	42-115				AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	
Surrogate: Nitrobenzene-d5		84.5 %	50-110				AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	
Surrogate: p-Terphenyl-d14		126 %	61-134				AD74132	04/24/17 07:00	04/28/17 18:03	EPA 8270SIM	NBH	



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Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control

Analyte	Result	MDL	Reporting		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			Limit	Units							

#### Batch AD74002 - SVOAs in Water GC

##### Blank (AD74002-BLK1)

Prepared: 04/25/17 Analyzed: 05/02/17

Aldrin	ND	0.0040	0.010	ug/L							U
alpha-BHC	ND	0.0080	0.020	ug/L							U
beta-BHC	ND	0.0040	0.010	ug/L							U
delta-BHC	ND	0.0040	0.010	ug/L							U
gamma-BHC (Lindane)	ND	0.0080	0.020	ug/L							U
Chlordane (tech)	ND	0.080	0.10	ug/L							U
4,4'-DDE	ND	0.0080	0.040	ug/L							U
4,4'-DDT	ND	0.0060	0.020	ug/L							U
4,4'-DDD	ND	0.040	0.040	ug/L							U
Dieldrin	ND	0.010	0.020	ug/L							U
Endosulfan I	ND	0.0080	0.020	ug/L							U
Endosulfan II	ND	0.0040	0.020	ug/L							U
Endosulfan sulfate	ND	0.040	0.10	ug/L							U
Endrin	ND	0.0040	0.020	ug/L							U
Endrin aldehyde	ND	0.0040	0.080	ug/L							U
Heptachlor	ND	0.0060	0.020	ug/L							U
Heptachlor epoxide	ND	0.018	0.020	ug/L							U
Methoxychlor	ND	0.012	1.0	ug/L							U
Toxaphene	ND	0.40	1.0	ug/L							U
PCB-1016	ND	0.16	1.0	ug/L							U
PCB-1221	ND	0.40	1.0	ug/L							U
PCB-1232	ND	0.20	1.0	ug/L							U
PCB-1242	ND	0.080	1.0	ug/L							U
PCB-1248	ND	0.12	1.0	ug/L							U
PCB-1254	ND	0.080	1.0	ug/L							U
PCB-1260	ND	0.080	1.0	ug/L							U
Surrogate: Dibutylchlorodate	0.744			ug/L	0.978		76.0	63-124			

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74002 - SVOAs in Water GC

##### LCS (AD74002-BS1)

Prepared: 04/25/17 Analyzed: 05/02/17

Aldrin	0.151	0.0040	0.010	ug/L	0.240		62.8	43-120			
alpha-BHC	0.227	0.0080	0.020	ug/L	0.240		94.7	71-122			
beta-BHC	0.217	0.0040	0.010	ug/L	0.240		90.2	65-123			
delta-BHC	0.229	0.0040	0.010	ug/L	0.240		95.3	78-129			
gamma-BHC (Lindane)	0.221	0.0080	0.020	ug/L	0.240		92.0	59-122			
4,4'-DDD	0.235	0.040	0.040	ug/L	0.240		97.9	79-132			
4,4'-DDT	0.236	0.0060	0.020	ug/L	0.240		98.3	79-143			
4,4'-DDE	0.223	0.0080	0.040	ug/L	0.240		93.0	78-132			
Dieldrin	0.228	0.010	0.020	ug/L	0.240		95.1	80-124			
Endosulfan I	0.220	0.0080	0.020	ug/L	0.240		91.6	71-126			
Endosulfan II	0.229	0.0040	0.020	ug/L	0.240		95.3	80-125			
Endosulfan sulfate	0.225	0.040	0.10	ug/L	0.240		93.7	80-126			
Endrin	0.234	0.0040	0.020	ug/L	0.240		97.6	59-176			
Endrin aldehyde	0.221	0.0040	0.080	ug/L	0.240		92.3	46-129			
Heptachlor	0.220	0.0060	0.020	ug/L	0.240		91.8	67-120			
Heptachlor epoxide	0.219	0.018	0.020	ug/L	0.240		91.1	71-127			
Methoxychlor	0.236	0.012	1.0	ug/L	0.240		98.3	72-163			J
Surrogate: Dibutylchloroendate	0.834			ug/L	0.978		85.3	63-124			

##### LCS Dup (AD74002-BS1)

Prepared: 04/25/17 Analyzed: 05/03/17

Aldrin	0.192	0.0040	0.010	ug/L	0.240		80.0	43-120	24.2	20	QL-04
alpha-BHC	0.204	0.0080	0.020	ug/L	0.240		84.9	71-122	10.8	20	
beta-BHC	0.219	0.0040	0.010	ug/L	0.240		91.1	65-123	0.963	20	
delta-BHC	0.227	0.0040	0.010	ug/L	0.240		94.6	78-129	0.643	20	
gamma-BHC (Lindane)	0.210	0.0080	0.020	ug/L	0.240		87.7	59-122	4.79	20	
4,4'-DDE	0.223	0.0080	0.040	ug/L	0.240		92.7	78-132	0.347	20	
4,4'-DDD	0.227	0.040	0.040	ug/L	0.240		94.5	79-132	3.55	20	
4,4'-DDT	0.230	0.0060	0.020	ug/L	0.240		95.8	79-143	2.49	20	
Dieldrin	0.229	0.010	0.020	ug/L	0.240		95.6	80-124	0.552	20	
Endosulfan I	0.227	0.0080	0.020	ug/L	0.240		94.7	71-126	3.29	20	
Endosulfan II	0.224	0.0040	0.020	ug/L	0.240		93.3	80-125	2.14	20	
Endosulfan sulfate	0.220	0.040	0.10	ug/L	0.240		91.8	80-126	2.08	20	
Endrin	0.227	0.0040	0.020	ug/L	0.240		94.5	59-176	3.20	20	
Endrin aldehyde	0.225	0.0040	0.080	ug/L	0.240		93.8	46-129	1.61	30	
Heptachlor	0.205	0.0060	0.020	ug/L	0.240		85.5	67-120	7.13	20	

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Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74002 - SVOAs in Water GC

##### LCS Dup (AD74002-BSD1)

Prepared: 04/25/17 Analyzed: 05/03/17

Heptachlor epoxide	0.228	0.018	0.020	ug/L	0.240		95.1	71-127	4.26	20	
Methoxychlor	0.231	0.012	1.0	ug/L	0.240		96.1	72-163	2.30	20	J
Surrogate: Dibutylchloroendate	0.824			ug/L	0.978		84.3	63-124			

##### Matrix Spike (AD74002-MS1)

Source: 17D1640-01

Prepared: 04/25/17 Analyzed: 05/03/17

Aldrin	0.171	0.0040	0.010	ug/L	0.240	ND	71.4	42-122			
alpha-BHC	0.182	0.0080	0.020	ug/L	0.240	ND	75.7	51-134			
beta-BHC	0.195	0.0040	0.010	ug/L	0.240	ND	81.1	51-135			
delta-BHC	0.211	0.0040	0.010	ug/L	0.240	ND	87.8	53-136			
gamma-BHC (Lindane)	0.188	0.0080	0.020	ug/L	0.240	ND	78.2	51-127			
4,4'-DDD	0.206	0.040	0.040	ug/L	0.240	ND	85.8	57-141			
4,4'-DDT	0.211	0.0060	0.020	ug/L	0.240	ND	88.0	46-146			
4,4'-DDE	0.192	0.0080	0.040	ug/L	0.240	ND	79.9	53-135			
Dieldrin	0.214	0.010	0.020	ug/L	0.240	ND	89.3	56-136			
Endosulfan I	0.202	0.0080	0.020	ug/L	0.240	ND	84.2	59-134			
Endosulfan II	0.213	0.0040	0.020	ug/L	0.240	ND	88.7	53-145			
Endosulfan sulfate	0.200	0.040	0.10	ug/L	0.240	ND	83.5	56-143			
Endrin	0.235	0.0040	0.020	ug/L	0.240	ND	98.1	53-147			
Endrin aldehyde	0.153	0.0040	0.080	ug/L	0.240	ND	63.7	49-146			
Heptachlor	0.184	0.0060	0.020	ug/L	0.240	ND	76.6	34-111			
Heptachlor epoxide	0.202	0.018	0.020	ug/L	0.240	ND	84.2	55-132			
Methoxychlor	0.215	0.012	1.0	ug/L	0.240	ND	89.5	63-146			J
Surrogate: Dibutylchloroendate	0.773			ug/L	0.978		79.0	63-124			

##### Matrix Spike Dup (AD74002-MSD1)

Source: 17D1640-01

Prepared: 04/25/17 Analyzed: 05/03/17

Aldrin	0.195	0.0040	0.010	ug/L	0.240	ND	81.3	42-122	13.0	27	
alpha-BHC	0.215	0.0080	0.020	ug/L	0.240	ND	89.4	51-134	16.7	20	
beta-BHC	0.229	0.0040	0.010	ug/L	0.240	ND	95.3	51-135	16.1	20	
delta-BHC	0.250	0.0040	0.010	ug/L	0.240	ND	104	53-136	17.0	20	
gamma-BHC (Lindane)	0.221	0.0080	0.020	ug/L	0.240	ND	92.0	51-127	16.2	20	
4,4'-DDD	0.246	0.040	0.040	ug/L	0.240	ND	102	57-141	17.6	20	
4,4'-DDE	0.228	0.0080	0.040	ug/L	0.240	ND	94.9	53-135	17.2	20	
4,4'-DDT	0.252	0.0060	0.020	ug/L	0.240	ND	105	46-146	17.6	20	
Dieldrin	0.254	0.010	0.020	ug/L	0.240	ND	106	56-136	16.9	20	
Endosulfan I	0.242	0.0080	0.020	ug/L	0.240	ND	101	59-134	18.1	20	

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organochlorine Pesticides and PCBs by EPA Method 8081/8082 - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74002 - SVOAs in Water GC

Matrix Spike Dup (AD74002-MSD1)	Source: 17D1640-01			Prepared: 04/25/17 Analyzed: 05/03/17							
Endosulfan II	0.252	0.0040	0.020	ug/L	0.240	ND	105	53-145	16.9	20	
Endosulfan sulfate	0.237	0.040	0.10	ug/L	0.240	ND	98.9	56-143	16.9	20	
Endrin	0.286	0.0040	0.020	ug/L	0.240	ND	119	53-147	19.5	20	
Endrin aldehyde	0.197	0.0040	0.080	ug/L	0.240	ND	82.1	49-146	25.2	20	QM-08
Heptachlor	0.219	0.0060	0.020	ug/L	0.240	ND	91.1	34-111	17.3	20	
Heptachlor epoxide	0.240	0.018	0.020	ug/L	0.240	ND	99.9	55-132	17.1	20	
Methoxychlor	0.259	0.012	1.0	ug/L	0.240	ND	108	63-146	18.5	20	J
Surrogate: Dibutylchloroendate	0.914			ug/L	0.978		93.4	63-124			



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Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organophosphorus Compounds by EPA Method 8141A - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74092 - SVOAs in Water GC

##### Blank (AD74092-BLK1)

Prepared: 04/27/17 Analyzed: 05/10/17

Azinphos ethyl	ND	0.30	2.0	ug/L							U
Azinphos methyl	ND	0.40	2.0	ug/L							U
Bolstar	ND	0.30	1.0	ug/L							U
Chlorpyrifos	ND	0.30	0.50	ug/L							U
Coumaphos	ND	0.30	2.0	ug/L							U
Demeton-o	ND	0.20	1.0	ug/L							U
Demeton-s	ND	0.30	1.0	ug/L							U
Diazinon	ND	0.30	0.50	ug/L							U
Dichlorvos	ND	0.40	1.0	ug/L							U
Dimethoate	ND	0.30	2.0	ug/L							U
Disulfoton	ND	0.30	0.50	ug/L							U
EPN	ND	0.50	1.0	ug/L							U
Ethion	ND	0.30	0.50	ug/L							U
Ethoprop (Ethoprophos)	ND	0.40	1.0	ug/L							U
Fensulfothion	ND	0.30	2.0	ug/L							U
Fenthion	ND	0.50	0.50	ug/L							U
Malathion	ND	0.30	0.50	ug/L							U
Mevinphos	ND	0.30	1.0	ug/L							U
Parathion	ND	0.40	0.50	ug/L							U
Parathion-methyl	ND	0.40	0.50	ug/L							U
Phorate	ND	0.40	0.50	ug/L							U
Ronnel	ND	0.30	0.50	ug/L							U
Stirofos	ND	0.30	0.50	ug/L							U
Thionazin	ND	0.30	1.0	ug/L							U
Tokuthion (Prothiofos)	ND	0.40	1.0	ug/L							U
Trichloronate	ND	0.40	1.0	ug/L							U
Surrogate: Tributyl phosphate	1.84			ug/L	2.00		92.1	37-115			
Surrogate: Triphenyl phosphate	1.77			ug/L	2.00		88.7	44-145			

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Organophosphorus Compounds by EPA Method 8141A - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74092 - SVOAs in Water GC

#### LCS (AD74092-BS1)

Prepared: 04/27/17 Analyzed: 05/10/17

Azinphos ethyl	3.86	0.30	2.0	ug/L	4.00		96.6	44-154			
Azinphos methyl	4.22	0.40	2.0	ug/L	4.00		106	42-147			
Bolstar	3.81	0.30	1.0	ug/L	4.00		95.4	35-144			
Chlorpyrifos	3.79	0.30	0.50	ug/L	4.00		94.7	50-134			
Coumaphos	3.70	0.30	2.0	ug/L	4.00		92.4	47-152			
Demeton-o	0.639	0.20	1.0	ug/L	1.08		59.2	18-128			J
Demeton-s	2.30	0.30	1.0	ug/L	2.80		82.2	43-125			
Diazinon	3.41	0.30	0.50	ug/L	4.00		85.2	50-121			
Dichlorvos	4.09	0.40	1.0	ug/L	4.00		102	77-143			
Dimethoate	3.63	0.30	2.0	ug/L	4.00		90.7	37-133			
Disulfoton	3.74	0.30	0.50	ug/L	4.00		93.5	50-119			
EPN	3.50	0.50	1.0	ug/L	4.00		87.5	55-140			
Ethion	3.54	0.30	0.50	ug/L	4.00		88.4	38-137			
Ethoprop (Ethoprophos)	3.57	0.40	1.0	ug/L	4.00		89.2	67-130			
Fensulfothion	3.84	0.30	2.0	ug/L	4.00		96.0	35-157			
Fenthion	3.96	0.50	0.50	ug/L	4.00		99.0	56-125			
Malathion	3.49	0.30	0.50	ug/L	4.00		87.3	39-127			
Mevinphos	4.10	0.30	1.0	ug/L	4.00		102	58-125			
Parathion	2.82	0.40	0.50	ug/L	4.00		70.4	33-137			
Parathion-methyl	3.87	0.40	0.50	ug/L	4.00		96.6	52-134			
Phorate	3.35	0.40	0.50	ug/L	4.00		83.7	58-119			
Ronnel	2.99	0.30	0.50	ug/L	4.00		74.7	41-135			
Stirofos	3.64	0.30	0.50	ug/L	4.00		91.0	34-151			
Thionazin	3.35	0.30	1.0	ug/L	4.00		83.6	60-118			
Tokuthion (Prothiofos)	3.75	0.40	1.0	ug/L	4.00		93.9	41-136			
Trichloronate	3.75	0.40	1.0	ug/L	4.00		93.7	36-146			
Surrogate: Tributyl phosphate	1.94			ug/L	2.00		96.8	37-115			
Surrogate: Triphenyl phosphate	1.72			ug/L	2.00		85.9	44-145			

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

Blank (AD73980-BLK1)

Prepared: 04/24/17 Analyzed: 04/26/17

Acenaphthene	ND	0.57	1.0	ug/L							U
Acenaphthylene	ND	0.48	2.0	ug/L							U
Anthracene	ND	0.39	2.0	ug/L							U
Benzo (a) anthracene	ND	0.39	2.0	ug/L							U
Benzo (a) pyrene	ND	0.50	2.0	ug/L							U
Benzo (b) fluoranthene	ND	0.64	2.0	ug/L							U
Benzo (g,h,i) perylene	ND	0.93	2.0	ug/L							U
Benzo (k) fluoranthene	ND	0.34	2.0	ug/L							U
Bis(2-chloroethoxy)methane	ND	0.81	2.0	ug/L							U
Bis(2-chloroethyl)ether	ND	0.30	0.50	ug/L							U
Bis(2-chloroisopropyl)ether	ND	0.41	0.50	ug/L							U
Bis(2-ethylhexyl)phthalate	ND	0.83	5.0	ug/L							U
4-Bromophenyl phenyl ether	ND	0.43	4.0	ug/L							U
Butyl benzyl phthalate	ND	0.64	5.0	ug/L							U
4-Chloro-3-methylphenol	ND	0.58	1.0	ug/L							U
4-Chloroaniline	ND	6.2	14	ug/L							U
2-Chloronaphthalene	ND	0.57	2.0	ug/L							U
2-Chlorophenol	ND	0.66	2.0	ug/L							U
4-Chlorophenyl phenyl ether	ND	0.93	4.0	ug/L							U
Chrysene	ND	0.76	2.0	ug/L							U
Di-n-butyl phthalate	ND	0.91	10	ug/L							U
Di-n-octyl phthalate	ND	0.65	10	ug/L							U
Dibenz (a,h) anthracene	ND	0.83	2.0	ug/L							U
Dibenzofuran	ND	0.86	4.0	ug/L							U
1,2-Dichlorobenzene	ND	0.61	1.0	ug/L							U
1,3-Dichlorobenzene	ND	0.62	1.0	ug/L							U
1,4-Dichlorobenzene	ND	0.61	1.0	ug/L							U
2,4-Dichlorophenol	ND	0.66	2.0	ug/L							U
Diethyl phthalate	ND	0.86	2.0	ug/L							U
Dimethyl phthalate	ND	0.68	2.0	ug/L							U
2,4-Dimethylphenol	ND	1.2	2.0	ug/L							U
4,6-Dinitro-2-methylphenol	ND	0.75	4.0	ug/L							U
2,4-Dinitrophenol	ND	1.3	5.0	ug/L							U
2,4-Dinitrotoluene	ND	0.68	2.0	ug/L							U

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Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

Blank (AD73980-BLK1)

Prepared: 04/24/17 Analyzed: 04/26/17

2,6-Dinitrotoluene	ND	0.54	2.0	ug/L							U
Fluoranthene	ND	0.76	1.0	ug/L							U
Fluorene	ND	0.81	2.0	ug/L							U
Hexachlorobenzene	ND	0.89	1.0	ug/L							U
Hexachlorobutadiene	ND	0.84	1.0	ug/L							U
Hexachlorocyclopentadiene	ND	0.45	4.0	ug/L							U
Hexachloroethane	ND	0.58	1.0	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.63	2.0	ug/L							U
Isophorone	ND	0.81	1.0	ug/L							U
2-Methylnaphthalene	ND	1.0	2.0	ug/L							U
2-Methylphenol (o-cresol)	ND	0.64	5.0	ug/L							U
3 & 4-Methylphenol (m,p-cresol)	ND	0.60	5.0	ug/L							U
N-Nitrosodi-n-propylamine	ND	0.85	2.0	ug/L							U
N-Nitrosodimethylamine	ND	1.1	2.0	ug/L							U
N-Nitrosodiphenylamine	ND	0.90	1.0	ug/L							U
Naphthalene	ND	0.66	1.0	ug/L							U
2-Nitroaniline	ND	3.3	20	ug/L							U
3-Nitroaniline	ND	4.3	50	ug/L							U
4-Nitroaniline	ND	11	20	ug/L							U
2-Nitrophenol	ND	0.90	10	ug/L							U
4-Nitrophenol	ND	0.99	5.0	ug/L							U
Nitrobenzene	ND	0.74	1.0	ug/L							U
Pentachlorophenol	ND	1.4	5.0	ug/L							U
Phenanthrene	ND	0.65	2.0	ug/L							U
Phenol	ND	0.46	1.0	ug/L							U
Pyrene	ND	0.45	2.0	ug/L							U
1,2,4-Trichlorobenzene	ND	0.59	2.0	ug/L							U
2,4,5-Trichlorophenol	ND	0.58	2.0	ug/L							U
2,4,6-Trichlorophenol	ND	0.74	2.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	18.8			ug/L	40.0		47.1	42-115			
Surrogate: 2-Fluorophenol	13.8			ug/L	40.0		34.5	21-87			
Surrogate: Nitrobenzene-d5	21.7			ug/L	40.0		54.2	50-110			
Surrogate: p-Terphenyl-d14	39.9			ug/L	40.0		99.7	61-134			
Surrogate: Phenol-d6	9.67			ug/L	40.0		24.2	20-52			

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Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### Blank (AD73980-BLK1)

Prepared: 04/24/17 Analyzed: 04/26/17

Surrogate: 2,4,6-Tribromophenol 23.9 ug/L 40.0 59.8 54-135

##### LCS (AD73980-BS1)

Prepared: 04/24/17 Analyzed: 04/26/17

Acenaphthene	25	0.57	1.0	ug/L	40.0		61.4	60-110			
Acenaphthylene	23	0.48	2.0	ug/L	40.0		57.7	55-115			
Anthracene	29	0.39	2.0	ug/L	40.0		73.1	70-125			
Benzo (a) anthracene	32	0.39	2.0	ug/L	40.0		80.7	80-122			
Benzo (a) pyrene	32	0.50	2.0	ug/L	40.0		80.0	70-125			
Benzo (b) fluoranthene	34	0.64	2.0	ug/L	40.0		84.4	24-159			
Benzo (g,h,i) perylene	34	0.93	2.0	ug/L	40.0		85.3	60-150			
Benzo (k) fluoranthene	33	0.34	2.0	ug/L	40.0		82.3	11-162			
Bis(2-chloroethoxy)methane	22	0.81	2.0	ug/L	40.0		54.0	52-106			
Bis(2-chloroethyl)ether	22	0.30	0.50	ug/L	40.0		55.0	40-99			
Bis(2-chloroisopropyl)ether	21	0.41	0.50	ug/L	40.0		53.7	36-110			
Bis(2-ethylhexyl)phthalate	33	0.83	5.0	ug/L	40.0		82.3	55-152			
4-Bromophenyl phenyl ether	29	0.43	4.0	ug/L	40.0		71.9	70-120			
Butyl benzyl phthalate	33	0.64	5.0	ug/L	40.0		82.4	67-152			
4-Chloro-3-methylphenol	28	0.58	1.0	ug/L	40.0		69.6	56-116			
4-Chloroaniline	42	6.2	14	ug/L	60.0		70.0	62-103			
2-Chloronaphthalene	22	0.57	2.0	ug/L	40.0		54.8	52-118			
2-Chlorophenol	21	0.66	2.0	ug/L	40.0		53.0	53-100			
4-Chlorophenyl phenyl ether	27	0.93	4.0	ug/L	40.0		67.0	65-115			
Chrysene	31	0.76	2.0	ug/L	40.0		78.6	60-122			
Di-n-butyl phthalate	32	0.91	10	ug/L	40.0		80.5	73-129			
Di-n-octyl phthalate	35	0.65	10	ug/L	40.0		88.5	71-127			
Dibenz (a,h) anthracene	36	0.83	2.0	ug/L	40.0		90.0	67-150			
Dibenzofuran	26	0.86	4.0	ug/L	40.0		64.7	62-108			
1,2-Dichlorobenzene	16	0.61	1.0	ug/L	40.0		40.1	40-100			
1,3-Dichlorobenzene	17	0.62	1.0	ug/L	40.0		43.1	40-100			
1,4-Dichlorobenzene	17	0.61	1.0	ug/L	40.0		43.1	40-92			
2,4-Dichlorophenol	22	0.66	2.0	ug/L	40.0		54.4	52-110			
Diethyl phthalate	31	0.86	2.0	ug/L	40.0		78.1	74-119			
Dimethyl phthalate	30	0.68	2.0	ug/L	40.0		75.8	68-121			
2,4-Dimethylphenol	20	1.2	2.0	ug/L	50.0		39.9	32-119			
4,6-Dinitro-2-methylphenol	32	0.75	4.0	ug/L	40.0		80.5	59-129			

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6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### LCS (AD73980-BS1)

Prepared: 04/24/17 Analyzed: 04/26/17

2,4-Dinitrophenol	31	1.3	5.0	ug/L	40.0	76.3	46-149				
2,4-Dinitrotoluene	31	0.68	2.0	ug/L	40.0	77.2	75-120				
2,6-Dinitrotoluene	30	0.54	2.0	ug/L	40.0	73.9	66-120				
Fluoranthene	30	0.76	1.0	ug/L	40.0	75.0	63-122				
Fluorene	27	0.81	2.0	ug/L	40.0	67.8	65-120				
Hexachlorobenzene	29	0.89	1.0	ug/L	40.0	73.1	72-120				
Hexachlorobutadiene	16	0.84	1.0	ug/L	40.0	40.6	40-93				
Hexachlorocyclopentadiene	13	0.45	4.0	ug/L	40.0	33.7	8-83				
Hexachloroethane	20	0.58	1.0	ug/L	40.0	49.1	40-89				
Indeno (1,2,3-cd) pyrene	36	0.63	2.0	ug/L	40.0	88.9	68-150				
Isophorone	24	0.81	1.0	ug/L	40.0	59.4	39-140				
2-Methylnaphthalene	20	1.0	2.0	ug/L	40.0	49.8	49-100				
2-Methylphenol (o-cresol)	18	0.64	5.0	ug/L	40.0	45.6	45-86				
3 & 4-Methylphenol (m,p-cresol)	18	0.60	5.0	ug/L	40.0	45.2	45-84				
N-Nitrosodi-n-propylamine	22	0.85	2.0	ug/L	40.0	55.7	55-104				
N-Nitrosodimethylamine	15	1.1	2.0	ug/L	40.0	37.6	11-111				
N-Nitrosodiphenylamine	28	0.90	1.0	ug/L	40.0	69.2	60-120				
Naphthalene	18	0.66	1.0	ug/L	40.0	45.4	45-107				
2-Nitroaniline	43	3.3	20	ug/L	60.0	72.3	66-122				
3-Nitroaniline	48	4.3	50	ug/L	60.0	80.0	78-153				J
4-Nitroaniline	47	11	20	ug/L	60.0	78.1	20-100				
2-Nitrophenol	32	0.90	10	ug/L	40.0	79.0	44-120				
4-Nitrophenol	15	0.99	5.0	ug/L	40.0	36.8	21-71				
Nitrobenzene	23	0.74	1.0	ug/L	40.0	58.6	38-124				
Pentachlorophenol	29	1.4	5.0	ug/L	40.0	72.7	53-145				
Phenanthrene	29	0.65	2.0	ug/L	40.0	71.3	63-123				
Phenol	9.8	0.46	1.0	ug/L	40.0	24.6	21-51				
Pyrene	33	0.45	2.0	ug/L	40.0	82.6	70-130				
1,2,4-Trichlorobenzene	18	0.59	2.0	ug/L	40.0	45.3	45-96				
2,4,5-Trichlorophenol	28	0.58	2.0	ug/L	40.0	70.2	65-125				
2,4,6-Trichlorophenol	28	0.74	2.0	ug/L	40.0	70.1	68-116				
Surrogate: 2-Fluorobiphenyl	24.4			ug/L	40.0	61.0	42-115				
Surrogate: 2-Fluorophenol	14.4			ug/L	40.0	36.0	21-87				
Surrogate: Nitrobenzene-d5	20.2			ug/L	40.0	50.4	50-110				

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin, CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### LCS (AD73980-BS1)

Prepared: 04/24/17 Analyzed: 04/26/17

Surrogate: <i>p</i> -Terphenyl-d14	40.4			ug/L	40.0		101	61-134			
Surrogate: Phenol-d6	9.97			ug/L	40.0		24.9	20-52			
Surrogate: 2,4,6-Tribromophenol	35.8			ug/L	40.0		89.4	54-135			

##### LCS Dup (AD73980-BSD1)

Prepared: 04/24/17 Analyzed: 04/26/17

Acenaphthene	28	0.57	1.0	ug/L	40.0		69.1	60-110	11.8	25	
Acenaphthylene	27	0.48	2.0	ug/L	40.0		66.6	55-115	14.4	25	
Anthracene	31	0.39	2.0	ug/L	40.0		76.7	70-125	4.80	25	
Benzo (a) anthracene	32	0.39	2.0	ug/L	40.0		80.0	80-122	0.809	25	
Benzo (a) pyrene	32	0.50	2.0	ug/L	40.0		79.9	70-125	0.156	25	
Benzo (b) fluoranthene	34	0.64	2.0	ug/L	40.0		84.4	24-159	0.118	25	
Benzo (g,h,i) perylene	33	0.93	2.0	ug/L	40.0		81.4	60-150	4.71	25	
Benzo (k) fluoranthene	34	0.34	2.0	ug/L	40.0		85.5	11-162	3.81	25	
Bis(2-chloroethoxy)methane	28	0.81	2.0	ug/L	40.0		68.9	52-106	24.4	25	
Bis(2-chloroethyl)ether	24	0.30	0.50	ug/L	40.0		60.2	40-99	8.94	25	
Bis(2-chloroisopropyl)ether	23	0.41	0.50	ug/L	40.0		57.4	36-110	6.62	25	
Bis(2-ethylhexyl)phthalate	34	0.83	5.0	ug/L	40.0		84.2	55-152	2.19	25	
4-Bromophenyl phenyl ether	31	0.43	4.0	ug/L	40.0		78.2	70-120	8.46	25	
Butyl benzyl phthalate	34	0.64	5.0	ug/L	40.0		84.2	67-152	2.19	25	
4-Chloro-3-methylphenol	31	0.58	1.0	ug/L	40.0		77.7	56-116	11.0	25	
4-Chloroaniline	45	6.2	14	ug/L	60.0		75.2	62-103	7.18	25	
2-Chloronaphthalene	26	0.57	2.0	ug/L	40.0		64.8	52-118	16.7	25	
2-Chlorophenol	23	0.66	2.0	ug/L	40.0		57.9	53-100	8.79	25	
4-Chlorophenyl phenyl ether	29	0.93	4.0	ug/L	40.0		73.2	65-115	8.88	25	
Chrysene	32	0.76	2.0	ug/L	40.0		80.8	60-122	2.79	25	
Di-n-butyl phthalate	33	0.91	10	ug/L	40.0		81.6	73-129	1.30	25	
Di-n-octyl phthalate	36	0.65	10	ug/L	40.0		89.2	71-127	0.732	25	
Dibenz (a,h) anthracene	34	0.83	2.0	ug/L	40.0		85.4	67-150	5.27	25	
Dibenzofuran	29	0.86	4.0	ug/L	40.0		72.0	62-108	10.7	25	
1,2-Dichlorobenzene	18	0.61	1.0	ug/L	40.0		44.9	40-100	11.3	25	
1,3-Dichlorobenzene	17	0.62	1.0	ug/L	40.0		42.5	40-100	1.34	25	
1,4-Dichlorobenzene	17	0.61	1.0	ug/L	40.0		43.6	40-92	1.10	25	
2,4-Dichlorophenol	28	0.66	2.0	ug/L	40.0		69.6	52-110	24.5	25	
Diethyl phthalate	32	0.86	2.0	ug/L	40.0		80.1	74-119	2.53	25	
Dimethyl phthalate	32	0.68	2.0	ug/L	40.0		79.4	68-121	4.60	25	

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### LCS Dup (AD73980-BSD1)

Prepared: 04/24/17 Analyzed: 04/26/17

2,4-Dimethylphenol	25	1.2	2.0	ug/L	50.0	50.9	32-119	24.2	25	
4,6-Dinitro-2-methylphenol	34	0.75	4.0	ug/L	40.0	85.2	59-129	5.64	25	
2,4-Dinitrophenol	33	1.3	5.0	ug/L	40.0	81.5	46-149	6.62	25	
2,4-Dinitrotoluene	32	0.68	2.0	ug/L	40.0	80.7	75-120	4.43	25	
2,6-Dinitrotoluene	31	0.54	2.0	ug/L	40.0	78.7	66-120	6.29	25	
Fluoranthene	31	0.76	1.0	ug/L	40.0	78.2	63-122	4.14	25	
Fluorene	29	0.81	2.0	ug/L	40.0	73.7	65-120	8.34	25	
Hexachlorobenzene	32	0.89	1.0	ug/L	40.0	78.8	72-120	7.50	25	
Hexachlorobutadiene	20	0.84	1.0	ug/L	40.0	49.8	40-93	20.4	25	
Hexachlorocyclopentadiene	16	0.45	4.0	ug/L	40.0	40.5	8-83	18.3	25	
Hexachloroethane	17	0.58	1.0	ug/L	40.0	42.5	40-89	14.4	25	
Indeno (1,2,3-cd) pyrene	34	0.63	2.0	ug/L	40.0	84.5	68-150	5.10	25	
Isophorone	28	0.81	1.0	ug/L	40.0	70.3	39-140	16.7	25	
2-Methylnaphthalene	25	1.0	2.0	ug/L	40.0	61.3	49-100	20.7	25	
2-Methylphenol (o-cresol)	23	0.64	5.0	ug/L	40.0	57.5	45-86	23.1	25	
3 & 4-Methylphenol (m,p-cresol)	22	0.60	5.0	ug/L	40.0	56.0	45-84	21.1	25	
N-Nitrosodi-n-propylamine	28	0.85	2.0	ug/L	40.0	70.5	55-104	23.5	25	
N-Nitrosodimethylamine	18	1.1	2.0	ug/L	40.0	45.6	11-111	19.0	25	
N-Nitrosodiphenylamine	30	0.90	1.0	ug/L	40.0	75.9	60-120	9.20	25	
Naphthalene	22	0.66	1.0	ug/L	40.0	56.0	45-107	20.8	25	
2-Nitroaniline	46	3.3	20	ug/L	60.0	76.0	66-122	4.92	25	
3-Nitroaniline	50	4.3	50	ug/L	60.0	83.1	78-153	3.84	25	
4-Nitroaniline	48	11	20	ug/L	60.0	80.6	20-100	3.13	25	
2-Nitrophenol	29	0.90	10	ug/L	40.0	72.8	44-120	8.27	25	
4-Nitrophenol	17	0.99	5.0	ug/L	40.0	41.4	21-71	11.7	25	
Nitrobenzene	25	0.74	1.0	ug/L	40.0	62.1	38-124	5.75	25	
Pentachlorophenol	31	1.4	5.0	ug/L	40.0	77.8	53-145	6.78	25	
Phenanthrene	30	0.65	2.0	ug/L	40.0	75.3	63-123	5.49	25	
Phenol	12	0.46	1.0	ug/L	40.0	31.1	21-51	23.5	25	
Pyrene	35	0.45	2.0	ug/L	40.0	86.9	70-130	5.04	25	
1,2,4-Trichlorobenzene	20	0.59	2.0	ug/L	40.0	50.0	45-96	9.92	25	
2,4,5-Trichlorophenol	32	0.58	2.0	ug/L	40.0	79.5	65-125	12.5	25	
2,4,6-Trichlorophenol	32	0.74	2.0	ug/L	40.0	80.3	68-116	13.6	25	
Surrogate: 2-Fluorobiphenyl	23.7			ug/L	40.0	59.2	42-115			

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### LCS Dup (AD73980-BSD1)

Prepared: 04/24/17 Analyzed: 04/26/17

Surrogate: 2-Fluorophenol	17.1			ug/L	40.0		42.6	21-87			
Surrogate: Nitrobenzene-d5	26.6			ug/L	40.0		66.5	50-110			
Surrogate: p-Terphenyl-d14	37.7			ug/L	40.0		94.2	61-134			
Surrogate: Phenol-d6	11.8			ug/L	40.0		29.6	20-52			
Surrogate: 2,4,6-Tribromophenol	36.2			ug/L	40.0		90.6	54-135			

##### Matrix Spike (AD73980-MS1)

Source: 17D1640-01

Prepared: 04/24/17 Analyzed: 04/26/17

Acenaphthene	27	0.57	1.0	ug/L	40.0	ND	68.0	49-106			
Acenaphthylene	23	0.48	2.0	ug/L	40.0	ND	56.8	56-103			
Anthracene	24	0.39	2.0	ug/L	40.0	ND	59.5	43-130			
Benzo (a) anthracene	30	0.39	2.0	ug/L	40.0	ND	74.6	72-117			
Benzo (a) pyrene	23	0.50	2.0	ug/L	40.0	ND	57.1	56-117			
Benzo (b) fluoranthene	33	0.64	2.0	ug/L	40.0	ND	82.2	24-159			
Benzo (g,h,i) perylene	32	0.93	2.0	ug/L	40.0	ND	81.1	29-125			
Benzo (k) fluoranthene	34	0.34	2.0	ug/L	40.0	ND	84.9	11-162			
Bis(2-chloroethoxy)methane	26	0.81	2.0	ug/L	40.0	ND	65.6	53-110			
Bis(2-chloroethyl)ether	23	0.30	0.50	ug/L	40.0	ND	58.2	25-118			
Bis(2-chloroisopropyl)ether	22	0.41	0.50	ug/L	40.0	ND	54.6	36-155			
Bis(2-ethylhexyl)phthalate	37	0.83	5.0	ug/L	40.0	15	56.5	8-158			
4-Bromophenyl phenyl ether	30	0.43	4.0	ug/L	40.0	ND	76.1	72-108			
Butyl benzyl phthalate	32	0.64	5.0	ug/L	40.0	ND	81.0	65-135			
4-Chloro-3-methylphenol	29	0.58	1.0	ug/L	40.0	ND	72.2	45-125			
4-Chloroaniline	ND	6.2	14	ug/L	60.0	ND		42-102			QM-05, U
2-Chloronaphthalene	26	0.57	2.0	ug/L	40.0	ND	65.0	52-110			
2-Chlorophenol	8.8	0.66	2.0	ug/L	40.0	ND	22.1	33-115			QM-05
4-Chlorophenyl phenyl ether	29	0.93	4.0	ug/L	40.0	ND	73.1	63-112			
Chrysene	31	0.76	2.0	ug/L	40.0	ND	77.1	60-122			
Di-n-butyl phthalate	33	0.91	10	ug/L	40.0	ND	82.2	68-131			
Di-n-octyl phthalate	37	0.65	10	ug/L	40.0	ND	91.9	68-135			
Dibenz (a,h) anthracene	35	0.83	2.0	ug/L	40.0	ND	86.9	41-139			
Dibenzofuran	29	0.86	4.0	ug/L	40.0	ND	71.6	55-119			
1,2-Dichlorobenzene	18	0.61	1.0	ug/L	40.0	ND	46.2	40-100			
1,3-Dichlorobenzene	13	0.62	1.0	ug/L	40.0	ND	32.3	40-100			QM-05
1,4-Dichlorobenzene	16	0.61	1.0	ug/L	40.0	ND	41.0	40-92			
2,4-Dichlorophenol	27	0.66	2.0	ug/L	40.0	ND	67.8	52-113			

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Project Manager: Quality Control Manager  
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Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### Matrix Spike (AD73980-MS1)

Source: 17D1640-01

Prepared: 04/24/17 Analyzed: 04/26/17

Diethyl phthalate	32	0.86	2.0	ug/L	40.0	ND	80.1	71-112			
Dimethyl phthalate	31	0.68	2.0	ug/L	40.0	ND	77.5	70-111			
2,4-Dimethylphenol	ND	1.2	2.0	ug/L	50.0	ND		32-119			QM-05, U
4,6-Dinitro-2-methylphenol	38	0.75	4.0	ug/L	40.0	ND	94.6	18-164			
2,4-Dinitrophenol	39	1.3	5.0	ug/L	40.0	ND	96.7	46-149			
2,4-Dinitrotoluene	33	0.68	2.0	ug/L	40.0	ND	82.5	75-115			
2,6-Dinitrotoluene	31	0.54	2.0	ug/L	40.0	ND	77.8	72-119			
Fluoranthene	33	0.76	1.0	ug/L	40.0	ND	82.2	63-122			
Fluorene	30	0.81	2.0	ug/L	40.0	ND	73.8	59-113			
Hexachlorobenzene	30	0.89	1.0	ug/L	40.0	ND	74.8	66-105			
Hexachlorobutadiene	20	0.84	1.0	ug/L	40.0	ND	50.6	29-108			
Hexachlorocyclopentadiene	14	0.45	4.0	ug/L	40.0	ND	34.2	0-125			
Hexachloroethane	18	0.58	1.0	ug/L	40.0	ND	44.6	40-90			
Indeno (1,2,3-cd) pyrene	34	0.63	2.0	ug/L	40.0	ND	86.2	47-125			
Isophorone	26	0.81	1.0	ug/L	40.0	ND	65.8	39-140			
2-Methylnaphthalene	25	1.0	2.0	ug/L	40.0	ND	62.3	52-106			
2-Methylphenol (o-cresol)	15	0.64	5.0	ug/L	40.0	ND	38.5	45-104			QM-05
3 & 4-Methylphenol (m,p-cresol)	18	0.60	5.0	ug/L	40.0	ND	46.1	45-102			
N-Nitrosodi-n-propylamine	27	0.85	2.0	ug/L	40.0	ND	68.4	49-116			
N-Nitrosodimethylamine	20	1.1	2.0	ug/L	40.0	ND	49.6	0-184			
N-Nitrosodiphenylamine	13	0.90	1.0	ug/L	40.0	ND	33.3	0-141			
Naphthalene	22	0.66	1.0	ug/L	40.0	ND	54.4	45-107			
2-Nitroaniline	34	3.3	20	ug/L	60.0	ND	57.5	55-122			
3-Nitroaniline	4.6	4.3	50	ug/L	60.0	ND	7.65	26-163			QM-05, J
4-Nitroaniline	14	11	20	ug/L	60.0	ND	23.3	42-200			QM-05, J
2-Nitrophenol	29	0.90	10	ug/L	40.0	ND	71.4	49-112			
4-Nitrophenol	29	0.99	5.0	ug/L	40.0	ND	73.0	21-110			
Nitrobenzene	43	0.74	1.0	ug/L	40.0	ND	107	38-124			
Pentachlorophenol	33	1.4	5.0	ug/L	40.0	ND	83.5	14-176			
Phenanthrene	30	0.65	2.0	ug/L	40.0	ND	74.8	63-123			
Phenol	0.49	0.46	1.0	ug/L	40.0	ND	1.22	17-87			QM-05, J
Pyrene	31	0.45	2.0	ug/L	40.0	ND	78.2	66-130			
1,2,4-Trichlorobenzene	20	0.59	2.0	ug/L	40.0	ND	50.6	44-101			
2,4,5-Trichlorophenol	33	0.58	2.0	ug/L	40.0	ND	83.0	65-125			
2,4,6-Trichlorophenol	31	0.74	2.0	ug/L	40.0	ND	78.1	69-120			

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

##### Matrix Spike (AD73980-MS1)

Source: 17D1640-01

Prepared: 04/24/17 Analyzed: 04/26/17

Surrogate: 2-Fluorobiphenyl	26.4			ug/L	40.0		66.1	42-115			
Surrogate: 2-Fluorophenol	18.8			ug/L	40.0		46.9	21-87			
Surrogate: Nitrobenzene-d5	24.8			ug/L	40.0		61.9	50-110			
Surrogate: p-Terphenyl-d14	34.5			ug/L	40.0		86.3	61-134			
Surrogate: Phenol-d6	0.550			ug/L	40.0		1.38	20-52			S-09
Surrogate: 2,4,6-Tribromophenol	36.4			ug/L	40.0		91.0	54-135			

##### Matrix Spike Dup (AD73980-MSD1)

Source: 17D1640-01

Prepared: 04/24/17 Analyzed: 04/26/17

Acenaphthene	32	0.57	1.0	ug/L	40.0	ND	78.8	49-106	14.7	25	
Acenaphthylene	26	0.48	2.0	ug/L	40.0	ND	66.2	56-103	15.3	25	
Anthracene	29	0.39	2.0	ug/L	40.0	ND	71.3	43-130	18.0	25	
Benzo (a) anthracene	37	0.39	2.0	ug/L	40.0	ND	92.4	72-117	21.2	25	
Benzo (a) pyrene	27	0.50	2.0	ug/L	40.0	ND	68.0	56-117	17.5	25	
Benzo (b) fluoranthene	43	0.64	2.0	ug/L	40.0	ND	107	24-159	26.4	25	QM-08
Benzo (g,h,i) perylene	42	0.93	2.0	ug/L	40.0	ND	104	29-125	24.8	25	
Benzo (k) fluoranthene	42	0.34	2.0	ug/L	40.0	ND	105	11-162	21.2	25	
Bis(2-chloroethoxy)methane	31	0.81	2.0	ug/L	40.0	ND	77.0	53-110	16.0	25	
Bis(2-chloroethyl)ether	32	0.30	0.50	ug/L	40.0	ND	80.1	25-118	31.7	25	QM-08
Bis(2-chloroisopropyl)ether	29	0.41	0.50	ug/L	40.0	ND	73.2	36-155	29.0	25	QM-08
Bis(2-ethylhexyl)phthalate	43	0.83	5.0	ug/L	40.0	15	69.5	8-158	13.0	25	
4-Bromophenyl phenyl ether	38	0.43	4.0	ug/L	40.0	ND	94.8	72-108	21.9	25	
Butyl benzyl phthalate	42	0.64	5.0	ug/L	40.0	ND	105	65-135	26.0	25	QM-08
4-Chloro-3-methylphenol	33	0.58	1.0	ug/L	40.0	ND	83.0	45-125	14.0	25	
4-Chloroaniline	ND	6.2	14	ug/L	60.0	ND		42-102		25	QM-05, U
2-Chloronaphthalene	30	0.57	2.0	ug/L	40.0	ND	74.6	52-110	13.8	25	
2-Chlorophenol	12	0.66	2.0	ug/L	40.0	ND	30.2	33-115	31.2	25	QM-05, QM-08
4-Chlorophenyl phenyl ether	35	0.93	4.0	ug/L	40.0	ND	86.3	63-112	16.6	25	
Chrysene	39	0.76	2.0	ug/L	40.0	ND	97.4	60-122	23.3	25	
Di-n-butyl phthalate	41	0.91	10	ug/L	40.0	ND	102	68-131	21.6	25	
Di-n-octyl phthalate	45	0.65	10	ug/L	40.0	ND	114	68-135	21.1	25	
Dibenz (a,h) anthracene	44	0.83	2.0	ug/L	40.0	ND	111	41-139	24.1	25	
Dibenzofuran	33	0.86	4.0	ug/L	40.0	ND	83.2	55-119	15.0	25	
1,2-Dichlorobenzene	28	0.61	1.0	ug/L	40.0	ND	69.0	40-100	39.6	25	QM-08
1,3-Dichlorobenzene	18	0.62	1.0	ug/L	40.0	ND	44.8	40-100	32.4	25	QM-08

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

Matrix Spike Dup (AD73980-MSD1)	Source: 17D1640-01			Prepared: 04/24/17 Analyzed: 04/26/17							
1,4-Dichlorobenzene	26	0.61	1.0	ug/L	40.0	ND	65.0	40-92	45.2	25	QM-08
2,4-Dichlorophenol	32	0.66	2.0	ug/L	40.0	ND	79.9	52-113	16.3	25	
Diethyl phthalate	40	0.86	2.0	ug/L	40.0	ND	99.4	71-112	21.5	25	
Dimethyl phthalate	38	0.68	2.0	ug/L	40.0	ND	95.9	70-111	21.2	25	
2,4-Dimethylphenol	ND	1.2	2.0	ug/L	50.0	ND		32-119		25	QM-05, U
4,6-Dinitro-2-methylphenol	48	0.75	4.0	ug/L	40.0	ND	120	18-164	23.3	25	
2,4-Dinitrophenol	47	1.3	5.0	ug/L	40.0	ND	118	46-149	19.9	25	
2,4-Dinitrotoluene	41	0.68	2.0	ug/L	40.0	ND	102	75-115	20.9	25	
2,6-Dinitrotoluene	38	0.54	2.0	ug/L	40.0	ND	95.0	72-119	19.8	25	
Fluoranthene	40	0.76	1.0	ug/L	40.0	ND	99.3	63-122	18.8	25	
Fluorene	35	0.81	2.0	ug/L	40.0	ND	86.8	59-113	16.2	25	
Hexachlorobenzene	37	0.89	1.0	ug/L	40.0	ND	93.2	66-105	21.9	25	
Hexachlorobutadiene	26	0.84	1.0	ug/L	40.0	ND	65.3	29-108	25.5	25	QM-08
Hexachlorocyclopentadiene	14	0.45	4.0	ug/L	40.0	ND	36.1	0-125	5.41	25	
Hexachloroethane	27	0.58	1.0	ug/L	40.0	ND	67.2	40-90	40.5	25	QM-08
Indeno (1,2,3-cd) pyrene	44	0.63	2.0	ug/L	40.0	ND	109	47-125	23.4	25	
Isophorone	31	0.81	1.0	ug/L	40.0	ND	77.6	39-140	16.4	25	
2-Methylnaphthalene	29	1.0	2.0	ug/L	40.0	ND	72.2	52-106	14.8	25	
2-Methylphenol (o-cresol)	16	0.64	5.0	ug/L	40.0	ND	41.1	45-104	6.53	25	QM-05
3 & 4-Methylphenol (m,p-cresol)	21	0.60	5.0	ug/L	40.0	ND	52.0	45-102	12.0	25	
N-Nitrosodi-n-propylamine	34	0.85	2.0	ug/L	40.0	ND	84.5	49-116	21.2	25	
N-Nitrosodimethylamine	29	1.1	2.0	ug/L	40.0	ND	72.6	0-184	37.7	25	QM-08
N-Nitrosodiphenylamine	14	0.90	1.0	ug/L	40.0	ND	35.6	0-141	6.60	25	
Naphthalene	29	0.66	1.0	ug/L	40.0	ND	72.7	45-107	28.8	25	QM-08
2-Nitroaniline	41	3.3	20	ug/L	60.0	ND	68.0	55-122	16.7	25	
3-Nitroaniline	ND	4.3	50	ug/L	60.0	ND		26-163		25	QM-05, U
4-Nitroaniline	13	11	20	ug/L	60.0	ND	22.5	42-200	3.42	25	QM-05, J
2-Nitrophenol	35	0.90	10	ug/L	40.0	ND	87.1	49-112	19.9	25	
4-Nitrophenol	38	0.99	5.0	ug/L	40.0	ND	96.1	21-110	27.3	25	QM-08
Nitrobenzene	57	0.74	1.0	ug/L	40.0	ND	142	38-124	28.4	25	QM-08
Pentachlorophenol	42	1.4	5.0	ug/L	40.0	ND	104	14-176	22.4	25	
Phenanthrene	37	0.65	2.0	ug/L	40.0	ND	93.3	63-123	22.0	25	
Phenol	0.67	0.46	1.0	ug/L	40.0	ND	1.68	17-87	31.0	25	QM-05, QM-08, J
Pyrene	42	0.45	2.0	ug/L	40.0	ND	105	66-130	29.7	25	QM-08

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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73980 - SVOAs in Water GCMS

Matrix Spike Dup (AD73980-MSD1)	Source: 17D1640-01	Prepared: 04/24/17	Analyzed: 04/26/17								
1,2,4-Trichlorobenzene	26	0.59	2.0	ug/L	40.0	ND	64.5	44-101	24.3	25	
2,4,5-Trichlorophenol	39	0.58	2.0	ug/L	40.0	ND	97.7	65-125	16.3	25	
2,4,6-Trichlorophenol	37	0.74	2.0	ug/L	40.0	ND	91.4	69-120	15.7	25	
Surrogate: 2-Fluorobiphenyl	30.3			ug/L	40.0		75.8	42-115			
Surrogate: 2-Fluorophenol	27.5			ug/L	40.0		68.8	21-87			
Surrogate: Nitrobenzene-d5	30.7			ug/L	40.0		76.8	50-110			
Surrogate: p-Terphenyl-d14	45.6			ug/L	40.0		114	61-134			
Surrogate: Phenol-d6	1.30			ug/L	40.0		3.25	20-52			S-09
Surrogate: 2,4,6-Tribromophenol	44.3			ug/L	40.0		111	54-135			



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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Benzidines by EPA Method 8270C - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD73967 - SVOAs in Water GCMS

##### Blank (AD73967-BLK1)

Prepared: 04/24/17 Analyzed: 04/26/17

Benzidine	ND	3.0	5.0	ug/L							U
3,3'-Dichlorobenzidine	ND	2.0	5.0	ug/L							U
Surrogate: 2-Fluorobiphenyl	27.0			ug/L	40.0		67.6	42-115			
Surrogate: Nitrobenzene-d5	30.4			ug/L	40.0		76.0	50-110			
Surrogate: p-Terphenyl-d14	34.7			ug/L	40.0		86.6	61-134			

##### LCS (AD73967-BS1)

Prepared: 04/24/17 Analyzed: 04/26/17

Benzidine	65.6	3.0	5.0	ug/L	79.4		82.7	60-140			
3,3'-Dichlorobenzidine	75.4	2.0	5.0	ug/L	79.4		95.0	60-140			
Surrogate: 2-Fluorobiphenyl	28.3			ug/L	40.0		70.8	42-115			
Surrogate: Nitrobenzene-d5	29.5			ug/L	40.0		73.8	50-110			
Surrogate: p-Terphenyl-d14	36.3			ug/L	40.0		90.8	61-134			

##### LCS Dup (AD73967-BSD1)

Prepared: 04/24/17 Analyzed: 04/26/17

Benzidine	66.2	3.0	5.0	ug/L	79.4		83.5	60-140	0.940	25	
3,3'-Dichlorobenzidine	76.0	2.0	5.0	ug/L	79.4		95.8	60-140	0.872	25	
Surrogate: 2-Fluorobiphenyl	32.5			ug/L	40.0		81.3	42-115			
Surrogate: Nitrobenzene-d5	36.2			ug/L	40.0		90.5	50-110			
Surrogate: p-Terphenyl-d14	37.3			ug/L	40.0		93.2	61-134			



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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Semivolatile Organic Compounds by EPA Method 8270C SIM - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AD74132 - SVOAs in Water GCMS

##### Blank (AD74132-BLK1)

Prepared: 04/24/17 Analyzed: 04/28/17

Acenaphthylene	ND	0.20	0.20	ug/L							U
Anthracene	ND	0.090	0.20	ug/L							U
Benzo (a) anthracene	ND	0.20	0.20	ug/L							U
Benzo (a) pyrene	ND	0.20	0.20	ug/L							U
Benzo (b) fluoranthene	ND	0.20	0.20	ug/L							U
Benzo (g,h,i) perylene	ND	0.10	0.20	ug/L							U
Benzo (k) fluoranthene	ND	0.20	0.20	ug/L							U
Chrysene	ND	0.20	0.20	ug/L							U
Dibenz (a,h) anthracene	ND	0.10	0.20	ug/L							U
Fluorene	ND	0.20	0.20	ug/L							U
Indeno (1,2,3-cd) pyrene	ND	0.030	0.20	ug/L							U
Phenanthrene	ND	0.10	0.20	ug/L							U
Pyrene	ND	0.20	0.20	ug/L							U
Surrogate: 2-Fluorobiphenyl	25.7			ug/L	40.0		64.3	42-115			
Surrogate: Nitrobenzene-d5	22.3			ug/L	40.0		55.8	50-110			
Surrogate: p-Terphenyl-d14	49.2			ug/L	40.0		123	61-134			

##### LCS (AD74132-BS1)

Prepared: 04/24/17 Analyzed: 04/28/17

Benzo (a) anthracene	32.9	0.20	0.20	ug/L	40.0		82.2	52-105			
Pyrene	27.2	0.20	0.20	ug/L	40.0		68.0	59-119			
Surrogate: 2-Fluorobiphenyl	30.0			ug/L	40.0		75.0	42-115			
Surrogate: Nitrobenzene-d5	22.8			ug/L	40.0		57.0	50-110			
Surrogate: p-Terphenyl-d14	35.5			ug/L	40.0		88.8	61-134			

##### LCS Dup (AD74132-BSD1)

Prepared: 04/24/17 Analyzed: 04/28/17

Benzo (a) anthracene	31.9	0.20	0.20	ug/L	40.0		79.7	52-105	3.06	25	
Pyrene	29.3	0.20	0.20	ug/L	40.0		73.4	59-119	7.53	25	
Surrogate: 2-Fluorobiphenyl	31.4			ug/L	40.0		78.5	42-115			
Surrogate: Nitrobenzene-d5	33.5			ug/L	40.0		83.7	50-110			
Surrogate: p-Terphenyl-d14	35.0			ug/L	40.0		87.6	61-134			



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Sample Traps, LLC  
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Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/11/17 16:49

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QL-04 The LCS/LCSD RPD for this analyte was outside of established control limits. Batch accepted based on acceptable recovery for both LCS/LCSD.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-08 The RPD was outside acceptance limits for MS/MSD, possibly due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- S-09 The surrogate recovery for this sample is outside of established control limits due to matrix interference.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

# Chain of Custody Record

Reports and Invoices will be delivered by email in .pdf format.

Lab No. 17D1974 Page      of     

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Laboratory & Corporate:

Service Center & Micro Lab:



Report to: Invoice to (if different):

Company: Sample Traps LLC  
 Attn:       
 Address:       
 Phone/Fax:       
 Email Address: admin@sampletraps.com

Project Info for Report:  
 Project ID: QC- 1 Liter BRA Buttress  
 Project No: Lot number U7086CUFS  
 PO/Reference:     

Print: Edgar Vides

Sample Identification	Date	Time
U7086CUFS - 01	4/20	9:40
U7086CUFS - 02	4/20	9:40
U7086CUFS - 03	4/20	9:40
U7086CUFS - 04	4/20	9:40
U7086CUFS - 05	4/20	9:40

Container:	Preservative:	Matrix:
40ml VOA	HCL	Container
Glass jar	None	Water
Glass bottle	Na Bisulfate	Other
Poly	Methanol	

Analyses Requested	TAT	Sample Notes
808/82 Sample Traps	10 days	2.0 deg. C
include f-flag reporting	<b>RUSH:</b> 5 days	Shipment Method:
8141 Sample Traps	48 hours	Custody Seals: Y / N
8151 Sample Traps	Other: <u>    </u> days	
8270 Sample Traps		
8270 PNA SIM Sample Traps		

Total Number of Containers	Sample Notes or CDPH Source Numbers:				
	2				
2					
2					
2					
2					

Relinquished by:      Received by:     

Date: 4/20/17 Time: 19:00

Date: 4-20-17 Time: 22:25

State System Number:     

If "Y" please enter the Source Number(s) in the column above

CA Geotracker EDF Report?  Yes  No

Global ID:      Sampling Company Log Code:     

EDF to (Email Address):     

Travel and Site Time:      Mileage:     

Misc. Supplies:     

Signature below authorizes work under terms stated on reverse side.



*Alpha*

Alpha Analytical Laboratories Inc.

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

26 May 2017

Sample Traps, LLC

Attn: Quality Control Manager

6398 Dougherty Road, Suite 36

Dublin, CA 94568

RE: QC- 1 Liter BRA Buttress

Work Order: 17E1262

Enclosed are the results of analyses for samples received by the laboratory on 05/11/17 22:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Chelsea L. Sandelin  
Project Manager



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Sample Traps, LLC  
6398 Dougherty Road, Suite 36  
Dublin CA, 94568

Project Manager: Quality Control Manager  
Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/26/17 11:20

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
U7086CUFS - 03	17E1262-01	Water	05/11/17 14:00	05/11/17 22:30





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Project Number: Lot Number U7086CUFS

Reported:  
05/26/17 11:20

### Chlorinated Herbicides by EPA Method 8151A

Analyte	Result	MDL	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
			Limit									
<b>U7086CUFS - 03 (17E1262-01) Water    Sampled: 05/11/17 14:00    Received: 05/11/17 22:30</b>												
2,4-D	ND	0.80	1.0		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
2,4-DB	ND	4.0	4.0		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
2,4,5-T	ND	0.40	0.50		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
2,4,5-TP (Silvex)	ND	0.50	0.50		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Dalapon	ND	6.0	6.0		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Dicamba	ND	0.40	0.40		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Dinoseb	ND	0.80	1.0		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
MCPA	ND	200	200		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
MCPP	ND	100	300		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Dichlorprop	ND	1.0	1.0		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Pentachlorophenol	ND	0.20	0.20		ug/L	1	AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	U
Surrogate: DCAA		98.1 %	62-124				AE73726	05/16/17 00:00	05/23/17 05:14	EPA 8151A	MCB	



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Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/26/17 11:20

**Chlorinated Herbicides by EPA Method 8151A - Quality Control**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch AE73726 - Herbicides**

**Blank (AE73726-BLK1)**

Prepared: 05/16/17 Analyzed: 05/22/17

2,4-D	ND	0.80	1.0	ug/L							U
2,4-DB	ND	4.0	4.0	ug/L							U
2,4,5-T	ND	0.40	0.50	ug/L							U
2,4,5-TP (Silvex)	ND	0.50	0.50	ug/L							U
Dalapon	ND	6.0	6.0	ug/L							U
Dicamba	ND	0.40	0.40	ug/L							U
Dinoseb	ND	0.80	1.0	ug/L							U
MCPA	ND	200	200	ug/L							U
MCPP	ND	100	300	ug/L							U
Dichlorprop	ND	1.0	1.0	ug/L							U
Pentachlorophenol	ND	0.20	0.20	ug/L							U
Surrogate: DCAA	14.4			ug/L	15.0		96.0	62-124			

**LCS (AE73726-BS1)**

Prepared: 05/16/17 Analyzed: 05/22/17

2,4-D	1.92	0.80	1.0	ug/L	1.92		100	48-124			
2,4-DB	7.84	4.0	4.0	ug/L	7.68		102	54-123			
2,4,5-T	0.834	0.40	0.50	ug/L	0.960		86.9	68-166			
2,4,5-TP (Silvex)	0.879	0.50	0.50	ug/L	0.960		91.6	70-130			
Dalapon	11.9	6.0	6.0	ug/L	12.5		95.0	40-112			
Dicamba	0.915	0.40	0.40	ug/L	0.960		95.3	70-130			
Dinoseb	3.21	0.80	1.0	ug/L	6.42		49.9	20-105			
MCPA	263	200	200	ug/L	250		105	55-116			
MCPP	205	100	300	ug/L	258		79.4	47-114			J
Dichlorprop	2.64	1.0	1.0	ug/L	2.88		91.5	54-106			
Pentachlorophenol	0.944	0.20	0.20	ug/L	0.960		98.3	70-130			
Surrogate: DCAA	13.9			ug/L	15.0		92.4	62-124			

**LCS Dup (AE73726-BSD1)**

Prepared: 05/16/17 Analyzed: 05/22/17

2,4-D	2.18	0.80	1.0	ug/L	1.92		114	48-124	12.8	50	
2,4-DB	8.36	4.0	4.0	ug/L	7.68		109	54-123	6.41	50	
2,4,5-T	1.00	0.40	0.50	ug/L	0.960		104	68-166	18.2	50	
2,4,5-TP (Silvex)	0.997	0.50	0.50	ug/L	0.960		104	70-130	12.6	50	
Dalapon	12.0	6.0	6.0	ug/L	12.5		96.4	40-112	1.43	50	
Dicamba	1.00	0.40	0.40	ug/L	0.960		105	70-130	9.34	50	
Dinoseb	4.27	0.80	1.0	ug/L	6.42		66.5	20-105	28.5	50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Project: QC- 1 Liter BRA Buttress  
Project Number: Lot Number U7086CUFS

Reported:  
05/26/17 11:20

### Chlorinated Herbicides by EPA Method 8151A - Quality Control

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch AE73726 - Herbicides

##### LCS Dup (AE73726-BSD1)

Prepared: 05/16/17 Analyzed: 05/22/17

MCPA	248	200	200	ug/L	250		99.1	55-116	6.02	50	
MCPP	222	100	300	ug/L	258		86.2	47-114	8.11	50	J
Dichlorprop	2.80	1.0	1.0	ug/L	2.88		97.2	54-106	5.99	50	
Pentachlorophenol	0.894	0.20	0.20	ug/L	0.960		93.1	70-130	5.44	50	
Surrogate: DCAA	14.6			ug/L	15.0		97.5	62-124			

##### Matrix Spike (AE73726-MS1)

Source: 17E0480-01

Prepared: 05/16/17 Analyzed: 05/23/17

2,4-D	1.76	0.80	1.0	ug/L	1.92	ND	91.9	48-124			
2,4-DB	6.83	4.0	4.0	ug/L	7.68	ND	88.9	54-123			
2,4,5-T	0.720	0.40	0.50	ug/L	0.960	ND	75.0	68-166			
2,4,5-TP (Silvex)	0.779	0.50	0.50	ug/L	0.960	ND	81.1	70-130			
Dalapon	10.5	6.0	6.0	ug/L	12.5	ND	84.3	40-112			
Dicamba	0.775	0.40	0.40	ug/L	0.960	ND	80.7	70-130			
Dinoseb	ND	0.80	1.0	ug/L	6.42	ND		20-105			QM-05, U
MCPA	280	200	200	ug/L	250	ND	112	55-116			
MCPP	279	100	300	ug/L	258	ND	108	47-114			J
Dichlorprop	2.30	1.0	1.0	ug/L	2.88	ND	79.9	54-106			
Pentachlorophenol	0.788	0.20	0.20	ug/L	0.960	ND	82.1	70-130			
Surrogate: DCAA	12.4			ug/L	15.0		82.8	62-124			

##### Matrix Spike Dup (AE73726-MSD1)

Source: 17E0480-01

Prepared: 05/16/17 Analyzed: 05/23/17

2,4-D	2.08	0.80	1.0	ug/L	1.92	ND	108	48-124	16.2	50	
2,4-DB	7.80	4.0	4.0	ug/L	7.68	ND	102	54-123	13.3	50	
2,4,5-T	0.960	0.40	0.50	ug/L	0.960	ND	100	68-166	28.6	50	
2,4,5-TP (Silvex)	0.958	0.50	0.50	ug/L	0.960	ND	99.8	70-130	20.7	50	
Dalapon	13.2	6.0	6.0	ug/L	12.5	ND	106	40-112	23.0	50	
Dicamba	1.00	0.40	0.40	ug/L	0.960	ND	104	70-130	25.5	50	
Dinoseb	0.831	0.80	1.0	ug/L	6.42	ND	12.9	20-105		50	QM-05, J
MCPA	213	200	200	ug/L	250	ND	85.1	55-116	27.3	50	
MCPP	219	100	300	ug/L	258	ND	85.0	47-114	24.1	50	J
Dichlorprop	2.84	1.0	1.0	ug/L	2.88	ND	98.6	54-106	20.9	50	
Pentachlorophenol	0.815	0.20	0.20	ug/L	0.960	ND	84.9	70-130	3.37	50	
Surrogate: DCAA	14.3			ug/L	15.0		95.2	62-124			

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05/26/17 11:20

### Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- U Analyte included in analysis, but not detected at or above MDL.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- MDL Method detection limit
- Rec Recovery
- RPD Relative Percent Difference

