

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1421				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
EP068A : OC Pesticides									
a-BHC	<0.025	0.25	73	77.7	75.4	6.24	61.2	100	0 - 20
HCB	<0.025	0.25	78	82.2	80.1	5.24	61.7	101	0 - 20
b- & g-BHC	<0.05	0.5	71.5	75.1	73.3	4.91	70.2	101	0 - 20
d-BHC	<0.025	0.25	68.2	74.6	71.4	8.96	68.1	96.4	0 - 20
Heptachlor	<0.025	0.25	71.2	77.2	74.2	8.09	62	103	0 - 20
Aldrin	<0.025	0.25	66.8	74.9	70.9	11.4	59.5	107	0 - 20
Heptachlor epoxide	<0.025	0.25	71.9	79.9	75.9	10.5	66	99.1	0 - 20
Chlordane peak no 1	<0.025	0.25	71.2	78.9	75.1	10.3	67.3	102	0 - 20
Endosulfan 1	<0.025	0.25	62.9	71.6	67.3	12.9	66.3	114	0 - 20
Chlordane peak no. 2	<0.025	0.25	70.5	79.5	75	12	64.5	104	0 - 20
Dieldrin	<0.025	0.25	63	68.5	65.8	8.37	58.4	116	0 - 20
DDE	<0.025	0.25	72.2	82.4	77.3	13.2	72.7	92.5	0 - 20
Endrin	<0.025	0.25	72	72.7	72.4	0.97	70.8	106	0 - 20
Endosulfan 2	<0.025	0.25	73	79.3	76.2	8.27	72.2	100	0 - 20
DDD	<0.025	0.25	68.3	75.6	72	10.1	68.5	102	0 - 20
Endrin aldehyde	<0.025	0.25	65.4	76.7	71.1	15.9	56.7	105	1 - 20
Endosulfan sulfate	<0.025	0.25	67.1	71.8	69.5	6.77	67.8	107	0 - 20
DDT	<0.1	0.25	67.1	71.8	69.5	6.77	60.9	120	0 - 20
Endrin ketone	<0.025	0.25	65.3	66.6	66	1.97	60	111	0 - 20
Methoxychlor	<0.1	0.25	73.3	75.5	74.4	2.96	47.4	124	0 - 20
EP0678 : OP Pesticides									
Dichlorvos	<0.025	0.25	66.5	76.8	71.7	14.4	53.6	99.6	0 - 20
Demeton-s-methyl	<0.025	0.25	75.8	79.4	77.6	4.64	55.9	99	0 - 20
Monocrotophos	<0.1	0.25	64.3	72.5	68.4	12	52.3	124	0 - 20
Dimethoate	<0.025	0.25	69.4	75.9	72.7	8.95	70.7	104	0 - 20
Diazinon	<0.025	0.25	69.1	75.7	72.4	9.12	66	101	0 - 20
Chlorpyrifos methyl	<0.025	0.25	77	84.9	81	9.76	66.2	98.3	0 - 20
Parathion methyl	<0.1	0.25	66.8	74.8	70.8	11.3	69.4	97.3	0 - 20
Malathion	<0.025	0.25	68.2	73.8	71	7.89	66	102	0 - 20
Fenthion	<0.025	0.25	67.6	74.2	70.9	9.31	69.7	95.4	0 - 20
Chlorpyrifos	<0.025	0.25	67.4	77.2	72.3	13.6	69	101	0 - 20
Parathion	<0.1	0.25	65.2	73	69.1	11.3	50.1	122	0 - 20
Pirimphos ethyl	<0.025	0.25	73.4	82.8	78.1	12	72.3	93.6	0 - 20
Chlorfenvinphos Z	<0.025	0.25	68.9	78.3	73.6	12.8	67.2	107	0 - 20
Bromophos ethyl	<0.025	0.25	71	79.1	75.1	10.8	73.8	97.4	0 - 20
Fenamiphos	<0.025	0.25	69.2	75	72.1	8.04	70.7	100	0 - 20
Prothiofos	<0.025	0.25	67.7	77.8	72.8	13.9	70.8	99.2	0 - 20

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1421			ANALYST K. HEGARTY				
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
Ethion	<0.025	0.25	65.7	70.4	68.1	6.91	67.6	106	0 - 20
Carbofenthion	<0.025	0.25	67.6	77.4	72.5	13.5	62.5	108	0 - 20
Azinphos methyl	<0.025	0.25	65.8	64.7	65.3	1.69	42.4	115	0 - 20
EP068C : Triazines									
Simazine	<0.025	0.25	97.4	106	102	8.46	1	112	0 - 20
Atrazine	<0.025	0.25	74.2	74.1	74.2	0.14	70.2	104	0 - 20
EP068D :Pyrethroids									
Cypermethrins(multipeaks)	<0.1	0.25	79.6	70	74.8	12.8	45.8	126	0 - 20
EP068S : OC Surrogate									
Dibromo-DDE	92.4%	1.25	105	99.7	102 *	5.18	66.7	101	0 - 20
EP068T : OP Surrogate									
DEF	81.8%	1.25	88.9	86	87.5	3.32	60.6	101	0 - 20

COMMENTS:

- 1) The recovery control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) The control limits on RPD (relative percent deviation) are fixed.
- 3) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1422				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
EP068A : OC Pesticides									
a-BHC	<0.025	0.25	94.5	100	97.3	5.66	61.2	100	0 - 20
HCB	<0.025	0.25	91.3	103	97.2	12	61.7	101	0 - 20
b- & g-BHC	<0.05	0.5	99.7	109	104 *	8.91	70.2	101	0 - 20
d-BHC	<0.025	0.25	90.4	101	95.7	11.1	68.1	96.4	0 - 20
Heptachlor	<0.025	0.25	84.7	93.7	89.2	10.1	62	103	0 - 20
Aldrin	<0.025	0.25	80.9	93.8	87.4	14.8	59.5	107	0 - 20
Heptachlor epoxide	<0.025	0.25	90.9	92.1	91.5	1.31	66	99.1	0 - 20
Chlordane peak no 1	<0.025	0.25	84.3	93.2	88.8	10	67.3	102	0 - 20
Endosulfan 1	<0.025	0.25	90.7	101	95.9	10.7	66.3	114	0 - 20
Chlordane peak no. 2	<0.025	0.25	74.8	89.6	82.2	18	64.5	104	0 - 20
Dieldrin	<0.025	0.25	85.2	94.1	89.7	9.93	58.4	116	0 - 20
DDE	<0.025	0.25	94.2	103	98.6 *	8.92	72.7	92.5	0 - 20
Endrin	<0.025	0.25	56.1	60.3	58.2 *	7.22	70.8	106	0 - 20
Endosulfan 2	<0.025	0.25	90.3	98.6	94.5	8.79	72.2	100	0 - 20
DDD	<0.025	0.25	88.3	99.7	94	12.1	68.5	102	0 - 20
Endrin aldehyde	<0.025	0.25	110	115	113 *	4.44	56.7	105	1 - 20
Endosulfan sulfate	<0.025	0.25	86.5	100	93.3	14.5	67.8	107	0 - 20
DDT	<0.1	0.25	90.6	101	95.8	10.9	60.9	120	0 - 20
Endrin ketone	<0.025	0.25	103	112	108	8.37	60	111	0 - 20
Methoxychlor	<0.1	0.25	81.2	92.8	87	13.3	47.4	124	0 - 20
EP0678 : OP Pesticides									
Dichlorvos	<0.025	0.25	85.5	78.8	82.2	8.16	53.6	99.6	0 - 20
Demeton-s-methyl	<0.025	0.25	60.5	63.7	62.1	5.15	55.9	99	0 - 20
Monocrotophos	<0.1	0.25	68.1	68.8	68.5	1.02	52.3	124	0 - 20
Dimethoate	<0.025	0.25	83.3	84.8	84.1	1.78	70.7	104	0 - 20
Diazinon	<0.025	0.25	73	73.6	73.3	0.82	66	101	0 - 20
Chlorpyrifos methyl	<0.025	0.25	81.3	94.5	87.9	15	66.2	98.3	0 - 20
Parathion methyl	<0.1	0.25	80.9	93.7	87.3	14.7	69.4	97.3	0 - 20
Malathion	<0.025	0.25	85.8	94.2	90	9.33	66	102	0 - 20
Fenthion	<0.025	0.25	76.2	76.3	76.3	0.13	69.7	95.4	0 - 20
Chlorpyrifos	<0.025	0.25	85.5	99.3	92.4	14.9	69	101	0 - 20
Parathion	<0.1	0.25	79	91.2	85.1	14.3	50.1	122	0 - 20
Pirimphos ethyl	<0.025	0.25	70.4	57.8	64.1 *	19.7	72.3	93.6	0 - 20
Chlorfenvinphos Z	<0.025	0.25	84.4	92.8	88.6	9.48	67.2	107	0 - 20
Bromophos ethyl	<0.025	0.25	83.3	95.6	89.5	13.8	73.8	97.4	0 - 20
Fenamiphos	<0.025	0.25	70.8	71.7	71.3	1.26	70.7	100	0 - 20
Prothiofos	<0.025	0.25	79.9	94.1	87	16.3	70.8	99.2	0 - 20

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1422				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
Ethion	<0.025	0.25	84	95.8	89.9	13.1	67.6	106	0 - 20
Carbofenthion	<0.025	0.25	80.3	94.1	87.2	15.8	62.5	108	0 - 20
Azinphos methyl	<0.025	0.25	66.3	70.8	68.6	6.56	42.4	115	0 - 20
EP068C : Triazines									
Simazine	<0.025	0.25	93.5	88.9	91.2	5.04	1	112	0 - 20
Atrazine	<0.025	0.25	85.7	90.7	88.2	5.67	70.2	104	0 - 20
EP068D :Pyrethroids									
Cypermelthrins(multipeaks)	<0.1	0.25	92.9	94.7	93.8	1.92	45.8	126	0 - 20
EP068S : OC Surrogate									
Dibromo-DDE	86%	1.25	95.3	102	98.7	6.79	66.7	101	0 - 20
EP068T : OP Surrogate									
DEF	90.3%	1.25	95	97	96	2.08	60.6	101	0 - 20

COMMENTS:

- 1) The recovery control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) The control limits on RPD (relative percent deviation) are fixed.
- 3) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1423				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank	Spike	SPIKE QC RESULTS				Control Limits		
	Conc	Level	SCS	DCS	Average	RPD	Rec.		RPD
	mg/kg	mg/kg	Rec.	Rec.	Rec.		Low	High	%
EP068A : OC Pesticides									
a-BHC	<0.025	0.25	84.9	84.3	84.6	0.71	61.2	100	0 - 20
HCB	<0.025	0.25	83.5	84.5	84	1.19	61.7	101	0 - 20
b- & g-BHC	<0.05	0.5	89.9	89.5	89.7	0.45	70.2	101	0 - 20
d-BHC	<0.025	0.25	95.1	82.5	88.8	14.2	68.1	96.4	0 - 20
Heptachlor	<0.025	0.25	83.9	77.7	80.8	7.67	62	103	0 - 20
Aldrin	<0.025	0.25	78	80.1	79.1	2.66	59.5	107	0 - 20
Heptachlor epoxide	<0.025	0.25	79.2	71.2	75.2	10.6	66	99.1	0 - 20
Chlordane peak no 1	<0.025	0.25	78	68.5	73.3	13	67.3	102	0 - 20
Endosulfan 1	<0.025	0.25	86.4	78.6	82.5	9.45	66.3	114	0 - 20
Chlordane peak no. 2	<0.025	0.25	71.1	68.8	70	3.29	64.5	104	0 - 20
Dieldrin	<0.025	0.25	99.4	85.4	92.4	15.2	58.4	116	0 - 20
DDE	<0.025	0.25	94.2	78.7	86.5	17.9	72.7	92.5	0 - 20
Endrin	<0.025	0.25	84.5	86.4	85.5	2.22	70.8	106	0 - 20
Endosulfan 2	<0.025	0.25	94.4	82.4	88.4	13.6	72.2	100	0 - 20
DDD	<0.025	0.25	92.3	82.4	87.4	11.3	68.5	102	0 - 20
Endrin aldehyde	<0.025	0.25	73.5	70.2	71.9	4.59	56.7	105	1 - 20
Endosulfan sulfate	<0.025	0.25	92.3	81.3	86.8	12.7	67.8	107	0 - 20
DDT	<0.1	0.25	96.3	89.3	92.8	7.54	60.9	120	0 - 20
Endrin ketone	<0.025	0.25	89.9	91.5	90.7	1.76	60	111	0 - 20
Methoxychlor	<0.1	0.25	95	78.6	86.8	18.9	47.4	124	0 - 20
EP0678 : OP Pesticides									
Dichlorvos	<0.025	0.25	87.6	82.5	85.1	6	53.6	99.6	0 - 20
Demeton-s-methyl	<0.025	0.25	69.2	72.7	71	4.93	55.9	99	0 - 20
Monocroptophos	<0.1	0.25	75.6	79.5	77.6	5.03	52.3	124	0 - 20
Dimethoate	<0.025	0.25	84.8	82.8	83.8	2.39	70.7	104	0 - 20
Diazinon	<0.025	0.25	90.2	79	84.6	13.2	66	101	0 - 20
Chlorpyrifos methyl	<0.025	0.25	82.9	78.8	80.9	5.07	66.2	98.3	0 - 20
Parathion methyl	<0.1	0.25	78	80.2	79.1	2.78	69.4	97.3	0 - 20
Malathion	<0.025	0.25	81.4	71	76.2	13.6	66	102	0 - 20
Fenthion	<0.025	0.25	78.4	72.6	75.5	7.68	69.7	95.4	0 - 20
Chlorpyrifos	<0.025	0.25	91.1	84.7	87.9	7.28	69	101	0 - 20
Parathion	<0.1	0.25	81	72.7	76.9	10.8	50.1	122	0 - 20
Pirimphos ethyl	<0.025	0.25	75.7	69	72.4	9.26	72.3	93.6	0 - 20
Chlorfenvinphos Z	<0.025	0.25	88.3	80.4	84.4	9.37	67.2	107	0 - 20
Bromophos ethyl	<0.025	0.25	81.8	72.4	77.1	12.2	73.8	97.4	0 - 20
Fenamiphos	<0.025	0.25	81.1	74.9	78	7.95	70.7	100	0 - 20
Prothiofos	<0.025	0.25	80.9	74.8	77.9	7.84	70.8	99.2	0 - 20

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1423				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
Ethion	<0.025	0.25	92	84.2	88.1	8.85	67.6	106	0 - 20
Carbofenthion	<0.025	0.25	82.6	78.9	80.8	4.58	62.5	108	0 - 20
Azinphos methyl	<0.025	0.25	79.1	72.3	75.7	8.98	42.4	115	0 - 20
EP068C : Triazines									
Simazine	<0.025	0.25	114	114	114 *	0	1	112	0 - 20
Atrazine	<0.025	0.25	92.4	85.5	89	7.76	70.2	104	0 - 20
EP068D :Pyrethroids									
Cypermethrins(multipeaks)	<0.1	0.25	101	94.8	97.9	6.33	45.8	126	0 - 20
EP068S : OC Surrogate									
Dibromo-DDE	117%	1.25	106	103	105 *	2.87	66.7	101	0 - 20
EP068T : OP Surrogate									
DEF	85.3%	1.25	93	84.9	89	9.11	60.6	101	0 - 20

COMMENTS:

- 1) The recovery control limits are based on ALS laboratory statistical data. (Method QWI-ORG/07)
- 2) The control limits on RPD (relative percent deviation) are fixed.
- 3) * : Recovery or RPD falls outside of the recommended control limits.

BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1424				ANALYST K. HEGARTY			
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
EP068A : OC Pesticides									
a-BHC	<0.025	0.25	81.6	82.6	82.1	1.22	61.2	100	0 - 20
HCB	<0.025	0.25	79.3	81.1	80.2	2.24	61.7	101	0 - 20
b- & g-BHC	<0.05	0.5	85.7	87.3	86.5	1.85	70.2	101	0 - 20
d-BHC	<0.025	0.25	85.5	84.9	85.2	0.7	68.1	96.4	0 - 20
Heptachlor	<0.025	0.25	80.1	78.5	79.3	2.02	62	103	0 - 20
Aldrin	<0.025	0.25	72.4	75.2	73.8	3.79	59.5	107	0 - 20
Heptachlor epoxide	<0.025	0.25	78.1	79.6	78.9	1.9	66	99.1	0 - 20
Chlordane peak no 1	<0.025	0.25	76.8	79.7	78.3	3.71	67.3	102	0 - 20
Endosulfan 1	<0.025	0.25	81.9	83.4	82.7	1.81	66.3	114	0 - 20
Chlordane peak no. 2	<0.025	0.25	74.9	74	74.5	1.21	64.5	104	0 - 20
Dieldrin	<0.025	0.25	92.3	95.3	93.8	3.2	58.4	116	0 - 20
DDE	<0.025	0.25	85.2	82.9	84.1	2.74	72.7	92.5	0 - 20
Endrin	<0.025	0.25	66.9	78.3	72.6	15.7	70.8	106	0 - 20
Endosulfan 2	<0.025	0.25	87.6	87.3	87.5	0.34	72.2	100	0 - 20
DDD	<0.025	0.25	87.2	87.2	87.2	0	68.5	102	0 - 20
Endrin aldehyde	<0.025	0.25	80.4	75.4	77.9	6.42	56.7	105	1 - 20
Endosulfan sulfate	<0.025	0.25	89.9	88.5	89.2	1.57	67.8	107	0 - 20
DDT	<0.1	0.25	91.3	91.3	91.3	0	60.9	120	0 - 20
Endrin ketone	<0.025	0.25	116	103	110	11.9	60	111	0 - 20
Methoxychlor	<0.1	0.25	81.7	79.9	80.8	2.23	47.4	124	0 - 20
EP0678 : OP Pesticides									
Dichlorvos	<0.025	0.25	74.3	82.1	78.2	9.97	53.6	99.6	0 - 20
Demeton-s-methyl	<0.025	0.25	61.5	72.8	67.2	16.8	55.9	99	0 - 20
Monocrotophos	<0.1	0.25	68.3	68.6	68.5	0.44	52.3	124	0 - 20
Dimethoate	<0.025	0.25	74.2	78	76.1	4.99	70.7	104	0 - 20
Diazinon	<0.025	0.25	72.9	80	76.5	9.29	66	101	0 - 20
Chlorpyrifos methyl	<0.025	0.25	81.8	80	80.9	2.22	66.2	98.3	0 - 20
Parathion methyl	<0.1	0.25	72.4	75.2	73.8	3.79	69.4	97.3	0 - 20
Malathion	<0.025	0.25	74.9	75.1	75	0.27	66	102	0 - 20
Fenthion	<0.025	0.25	71.7	75.1	73.4	4.63	69.7	95.4	0 - 20
Chlorpyrifos	<0.025	0.25	84	85.4	84.7	1.65	69	101	0 - 20
Parathion	<0.1	0.25	77.4	76.7	77.1	0.91	50.1	122	0 - 20
Pirimphos ethyl	<0.025	0.25	69.7	80.3	75	14.1	72.3	93.6	0 - 20
Chlorfenvinphos Z	<0.025	0.25	80.6	84.5	82.6	4.72	67.2	107	0 - 20
Bromophos ethyl	<0.025	0.25	82.5	80.8	81.7	2.08	73.8	97.4	0 - 20
Fenamiphos	<0.025	0.25	73	78.1	75.6	6.75	70.7	100	0 - 20
Prothiofos	<0.025	0.25	76.9	76.3	76.6	0.78	70.8	99.2	0 - 20