

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	%
Ethion	<0.025	0.25	88.9	88.4	88.7	0.56	67.6	106	0 - 20
Carbofenthion	<0.025	0.25	86.7	83.7	85.2	3.52	62.5	108	0 - 20
Azinphos methyl	<0.025	0.25	68.7	67.3	68	2.06	42.4	115	0 - 20
EP068C : Triazines									
Simazine	<0.025	0.25	106	111	109	4.61	1	112	0 - 20
Atrazine	<0.025	0.25	82.8	84	83.4	1.44	70.2	104	0 - 20
EP068D :Pyrethroids									
Cypermethrins(multipeaks)	<0.1	0.25	80.9	80.6	80.8	0.37	45.8	126	0 - 20
EP068S : OC Surrogate									
Dibromo-DDE	101%	1.25	114	114	114 *	0	66.7	101	0 - 20
EP068T : OP Surrogate									
DEF	80.2%	1.25	86.7	85.6	86.2	1.28	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. :		OCOPS1425				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	83	83.5	83.3	0.6	61.2	100	0 - 20
HCB	<0.025	0.25	83.6	82.2	82.9	1.69	61.7	101	0 - 20
b- & g-BHC	<0.05	0.5	87	86.9	87	0.12	70.2	101	0 - 20
d-BHC	<0.025	0.25	88.1	84.5	86.3	4.17	68.1	96.4	0 - 20
Heptachlor	<0.025	0.25	83.8	83.1	83.5	0.84	62	103	0 - 20
Aldrin	<0.025	0.25	77.7	78.8	78.3	1.41	59.5	107	0 - 20
Heptachlor epoxide	<0.025	0.25	84.7	84.2	84.5	0.59	66	99.1	0 - 20
Chlordane peak no 1	<0.025	0.25	82.2	82.5	82.4	0.36	67.3	102	0 - 20
Endosulfan 1	<0.025	0.25	99.6	94.8	97.2	4.94	66.3	114	0 - 20
Chlordane peak no. 2	<0.025	0.25	87.4	82.1	84.8	6.25	64.5	104	0 - 20
Dieldrin	<0.025	0.25	96.7	96.7	96.7	0	58.4	116	0 - 20
DDE	<0.025	0.25	91.2	85.5	88.4	6.45	72.7	92.5	0 - 20
Endrin	<0.025	0.25	81.3	74.7	78	8.46	70.8	106	0 - 20
Endosulfan 2	<0.025	0.25	91.5	87.3	89.4	4.7	72.2	100	0 - 20
DDD	<0.025	0.25	90.6	89.8	90.2	0.89	68.5	102	0 - 20
Endrin aldehyde	<0.025	0.25	102	97.1	99.6	4.92	56.7	105	1 - 20
Endosulfan sulfate	<0.025	0.25	98.4	92.8	95.6	5.86	67.8	107	0 - 20
DDT	<0.1	0.25	92.2	88.9	90.6	3.64	60.9	120	0 - 20
Endrin ketone	<0.025	0.25	118	98.2	108	18.3	60	111	0 - 20
Methoxychlor	<0.1	0.25	88.7	83.5	86.1	6.04	47.4	124	0 - 20
EP0678 : OP Pesticides									
Dichlorvos	<0.025	0.25	78.3	76.5	77.4	2.33	53.6	99.6	0 - 20
Demeton-s-methyl	<0.025	0.25	67.1	80.3	73.7	17.9	55.9	99	0 - 20
Monocrotophos	<0.1	0.25	72.4	83.8	78.1	14.6	52.3	124	0 - 20
Dimethoate	<0.025	0.25	78.8	85.3	82.1	7.92	70.7	104	0 - 20
Diazinon	<0.025	0.25	79.4	85.3	82.4	7.16	66	101	0 - 20
Chlorpyrifos methyl	<0.025	0.25	87.1	86.4	86.8	0.81	66.2	98.3	0 - 20
Parathion methyl	<0.1	0.25	77.7	78.8	78.3	1.41	69.4	97.3	0 - 20
Malathion	<0.025	0.25	92.5	90	91.3	2.74	66	102	0 - 20
Fenthion	<0.025	0.25	80	81.3	80.7	1.61	69.7	95.4	0 - 20
Chlorpyrifos	<0.025	0.25	87.9	93	90.5	5.64	69	101	0 - 20
Parathion	<0.1	0.25	62.4	63.5	63	1.75	50.1	122	0 - 20
Pirimphos ethyl	<0.025	0.25	69.6	78.1	73.9	11.5	72.3	93.6	0 - 20
Chlorfenvinphos Z	<0.025	0.25	93	91.1	92.1	2.06	67.2	107	0 - 20
Bromophos ethyl	<0.025	0.25	87.8	87.7	87.8	0.11	73.8	97.4	0 - 20
Fenamiphos	<0.025	0.25	71.8	77.7	74.8	7.89	70.7	100	0 - 20
Prothiofos	<0.025	0.25	83.4	84.3	83.9	1.07	70.8	99.2	0 - 20

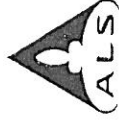
BATCH QUALITY CONTROL -- CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No. :		OCOPS1425		ANALYST K. HEGARTY					
MATRIX:		Soils							
COMPOUND	Blank Conc	Spike Level	SPIKE QC RESULTS				Control Limits		
			SCS Rec.	DCS Rec.	Average Rec.	RPD	Rec.		RPD
	mg/kg	mg/kg	%		%	%	Low	High	%
Ethion	<0.025	0.25	88.3	86.3	87.3	2.29	67.6	106	0 - 20
Carbofenthion	<0.025	0.25	90	90.4	90.2	0.44	62.5	108	0 - 20
Azinphos methyl	<0.025	0.25	89.4	81.9	85.7	8.76	42.4	115	0 - 20
EP068C : Triazines									
Simazine	<0.025	0.25	102	105	104	2.9	1	112	0 - 20
Atrazine	<0.025	0.25	84.4	89.4	86.9	5.75	70.2	104	0 - 20
EP068D : Pyrethroids									
Cypermethrins(multi peaks)	<0.1	0.25	89.4	88.4	88.9	1.12	45.8	126	0 - 20
EP068S : OC Surrogate									
Dibromo-DDE	99.4%	1.25	115	102	109 *	12	66.7	101	0 - 20
EP068T : OP Surrogate									
DEF	85.3%	1.25	94.9	84.2	89.6	11.9	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: ES42791
Sub Batch: 0
Date of Issue: 22/10/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

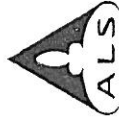
CERTIFICATE OF ANALYSIS



METHOD	ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION									
		UNIT	LOR	1	2	3	4	5	6	7	8	9	10
				09/10/2003 4/58-C1	09/10/2003 4/58-C2	09/10/2003 4/58-C3	09/10/2003 4/58-C4	09/10/2003 4/58-C5	09/10/2003 4/58-C6	09/10/2003 4/58-C7	09/10/2003 4/58-C8	09/10/2003 4/58-C9	09/10/2003 4/58-C10
EA-055	Moisture Content (dried @ 103°C)	%	0.1	25.5	26.8	24.5	22.5	27.2	23.3	25.5	25.4	29.4	26.3
EG-005T	Arsenic - Total	mg/kg	1	4	9	8	8	7	9	7	10	7	4
EG-005T	Cadmium - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
EG-005T	Copper - Total	mg/kg	1	62	61	66	64	50	64	54	69	52	62
EG-005T	Lead - Total	mg/kg	1	8	7	7	6	6	6	7	7	8	8
EG-005T	Zinc - Total	mg/kg	1	60	64	62	62	61	59	61	62	72	62
EG-035T	Mercury - Total	mg/kg	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1

Batch: ES42791
 Sub Batch: 0
 Date of Issue: 22/10/2003
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 Client Reference:

CERTIFICATE OF ANALYSIS



METHOD	ANALYSIS DESCRIPTION	UNIT	Laboratory I.D. Date Sampled	SAMPLE IDENTIFICATION									
				11	12	13	14	15	16	17	18	19	20
EA-055	Moisture Content (dried @ 103°C)	%		09/10/2003 4/58-C11	09/10/2003 4/58-C12	09/10/2003 4/58-C13	09/10/2003 4/58-C14	09/10/2003 4/58-C15	09/10/2003 4/58-C16	09/10/2003 4/58-C17	09/10/2003 4/58-C18	09/10/2003 4/58-C19	09/10/2003 4/58-C20
EG-005T	Arsenic - Total	mg/kg	0.1	25.9	26.4	25.8	25.6	28.7	25.6	27.4	24.2	28.8	9.0
EG-005T	Cadmium - Total	mg/kg	1	3	3	4	31	31	2	3	3	5	10
EG-005T	Copper - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
EG-005T	Lead - Total	mg/kg	1	48	56	58	50	51	65	65	59	65	46
EG-005T	Zinc - Total	mg/kg	1	7	7	8	7	8	8	8	9	9	7
EG-005T	Mercury - Total	mg/kg	1	63	53	61	59	57	52	60	55	55	217
EG-035T		mg/kg	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1

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Client Reference:

CERTIFICATE OF ANALYSIS



		Laboratory I.D.		Date Sampled		21		22		23		24		SAMPLE IDENTIFICATION	
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR												
EA-055	Moisture Content (dried @ 103°C)	%	0.1			19.8		22.3		23.0		22.7			
EG-005T	Arsenic - Total	mg/kg	1			4		6		1		2			
EG-005T	Cadmium - Total	mg/kg	1			<1		<1		<1		<1			
EG-005T	Copper - Total	mg/kg	1			53		50		47		57			
EG-005T	Lead - Total	mg/kg	1			9		11		8		7			
EG-005T	Zinc - Total	mg/kg	1			52		66		58		48			
EG-035T	Mercury - Total	mg/kg	0.1			0.1		0.2		0.1		0.2			

Batch: ES42791
 Sub Batch: 0
 Date of Issue: 22/10/2003
 Client: GILBERT & SUTHERLAND PTY LTD
 Client Reference:

QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	UNIT	LOR	SAMPLE IDENTIFICATION										
		Laboratory I.D.	Date Sampled		1	1	11	11	11	21	21	200	201	205	206
			09/10/2003	09/10/2003	09/10/2003	09/10/2003	09/10/2003	09/10/2003	09/10/2003	09/10/2003	13/10/2003	13/10/2003	13/10/2003	13/10/2003	13/10/2003
			4/58-C1	4/58-C1	4/58-C11	4/58-C11	4/58-C11	4/58-C11	4/58-C21	4/58-C21	4/58-C21	BLANK1	LCS1	METHOD	LCS2
			MS1	CHK	MS1	CHK	MS1	CHK	MS1	CHK	CHK	BLANK1	BLANK2	BLANK2	BLANK2
CHECKS AND SPIKES															
EA-055	Moisture Content (dried @ 103°C)	%	0.1		24.9	4	57.0%	24.9	3	50.0%	24.0	<1	94.0%	<1	
EG-005T	Arsenic - Total	mg/kg	1		4	<1	83.0%	<1	<1	82.0%	4	<1	96.0%	<1	
EG-005T	Cadmium - Total	mg/kg	1		59	59	86.0%	48	48	85.0%	58	<1	90.0%	<1	
EG-005T	Copper - Total	mg/kg	1		8	8	82.0%	7	7	83.0%	10	<1	92.0%	<1	
EG-005T	Lead - Total	mg/kg	1		57	57	82.0%	64	64	83.0%	57	<1	90.0%	<1	
EG-005T	Zinc - Total	mg/kg	1		0.1	0.1	106%	0.2	0.2	105%	0.1	<0.1	99.0%	<0.1	
EG-035T	Mercury - Total	mg/kg	0.1												98.0%

Batch: ES42791
 Sub Batch: 0
 Date of Issue: 22/10/2003
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 Client Reference:

QUALITY CONTROL REPORT



SAMPLE IDENTIFICATION				
1	11	21		
09/10/2003	09/10/2003	09/10/2003		
4/58-C1	4/58-C11	4/58-C21		
MS2	MS2	MS2		
CHECKS AND SPIKES				
EA-055	Moisture Content (dried @ 103°C)			
EG-005T	Arsenic	- Total	%	0.1
EG-005T	Cadmium	- Total	mg/kg	1
EG-005T	Copper	- Total	mg/kg	1
EG-005T	Lead	- Total	mg/kg	1
EG-005T	Zinc	- Total	mg/kg	1
EG-035T	Mercury	- Total	mg/kg	0.1



CERTIFICATE OF ANALYSIS

CONTACT: MR C BUTLER
CLIENT: GILBERT & SUTHERLAND PTY LTD
ADDRESS: P O BOX 4115
ROBINA QLD 4230
ORDER No.: GJ0128
PROJECT:

BATCH: ES42791
SUB BATCH: 1
LABORATORY: SYDNEY
DATE RECEIVED: 13/10/2003
DATE COMPLETED: 22/10/2003
SAMPLE TYPE: SOIL
No. of SAMPLES: 24

COMMENTS

Samples analysed on an as received basis. Results reported on a dry weight basis. All analysis and Laboratory QC conducted in accordance with Schedule B(3) NEPM Guideline on Laboratory Analysis of Potentially Contaminated Soil (December 1999).

NOTES

This is the Final Report and supersedes any preliminary reports with this batch number. All pages of this report have been checked and approved for release.

ISSUING LABORATORY: SYDNEY

Address
277-289 Woodpark Road
SMITHFIELD NSW 2164

Phone: 61-2-8784 8555
Fax: 61-2-8784 8500
Email: cindy.suen@alsenviro.com

Signatory

LABORATORIES

AUSTRALASIA

Brisbane
Melbourne
Sydney
Newcastle
Auckland

Hong Kong
Singapore
Kuala Lumpur
Bogor
Mumbai

AMERICAS

Vancouver
Santiago
Antofagasta
Lima



NATA Accredited Laboratory Number 825

Site: SYDNEY

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

Batch: ES42791
Sub Batch: 1
Date of Issue: 22/10/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

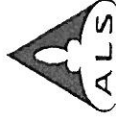
CERTIFICATE OF ANALYSIS



METHOD	ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION									
		UNIT	LOR	1	2	3	4	5	6	7	8	9	10
EA-055	Moisture Content (dried @ 103°C)	%	0.1	09/10/2003 4/58-C1	09/10/2003 4/58-C2	09/10/2003 4/58-C3	09/10/2003 4/58-C4	09/10/2003 4/58-C5	09/10/2003 4/58-C6	09/10/2003 4/58-C7	09/10/2003 4/58-C8	09/10/2003 4/58-C9	09/10/2003 4/58-C10
EP-068A-SS	ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Batch: ES42791
Sub Batch: 1
Date of Issue: 22/10/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



Laboratory I.D. Date Sampled		SAMPLE IDENTIFICATION											
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1	2	3	4	5	6	7	8	9	10
				09/10/2003 4/58-C1	09/10/2003 4/58-C2	09/10/2003 4/58-C3	09/10/2003 4/58-C4	09/10/2003 4/58-C5	09/10/2003 4/58-C6	09/10/2003 4/58-C7	09/10/2003 4/58-C8	09/10/2003 4/58-C9	09/10/2003 4/58-C10
EP-068B-SS	Plirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE												
EP-068S-SS	Dibromo-DDE	%	1	91	80	92	99	91	97	115	111	96	105
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	%	1	111	115	109	118	118	120	115	123	116	120

Batch: ES42791
Sub Batch: 1
Date of Issue: 22/10/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



METHOD	ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION									
		UNIT	LOR	11	12	13	14	15	16	17	18	19	20
EA-055	Moisture Content (dried @ 103°C)	%	0.1	25.9	26.4	25.8	25.6	28.7	25.6	27.4	24.2	28.8	9.0
EP-068A-SS	ORGANOCHLORINE PESTICIDES												
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES												
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Batch: ES42791
Sub Batch: 1
Date of Issue: 22/10/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

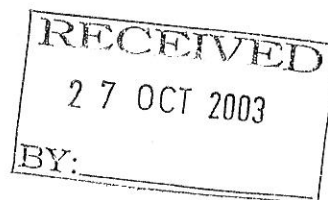
CERTIFICATE OF ANALYSIS



(ALS)

METHOD		ANALYSIS DESCRIPTION	UNIT	LOR	SAMPLE IDENTIFICATION									
					11	12	13	14	15	16	17	18	19	20
					09/10/2003 4/58-C11	09/10/2003 4/58-C12	09/10/2003 4/58-C13	09/10/2003 4/58-C14	09/10/2003 4/58-C15	09/10/2003 4/58-C16	09/10/2003 4/58-C17	09/10/2003 4/58-C18	09/10/2003 4/58-C19	09/10/2003 4/58-C20
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE	mg/kg	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EP-068S-SS	Dibromo-DDE	%	1	100	95	110	90	79	104	85	78	86	98	117
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE	%	1	116	96	115	117	122	121	112	116	112	112	117
EP-068T-SS	DEF	%	1	116	96	115	117	122	121	112	116	112	112	117

ALS Environmental



ORGANICS QUALITY CONTROL REPORT

BATCH NO: ES42791

DATE BATCH RECEIVED: 13/10/2003

CLIENT: Cash Sale

DATE BATCH COMPLETED: 22/10/2003

PROJECT: gilbert&sutherland gj0128

Method Code	Test	Matrix	Method Reference		QC Lot Number	Date Samples Extracted	Date Samples Analysed
			Extraction	Analysis			
EP-068	Pesticides	Soil	Tumbler	USEPA 8270B	NOCOPS1449	17/10/03	18/10/03
EP-068	Pesticides	Soil	Tumbler	USEPA 8270B	NOCOPS1450	17/10/03	18/10/03

Where applicable, internal standards are added to sample extracts prior to instrumental analysis. Absolute peak areas and retention times fall within the criteria specified in the individual methods. Continuing Calibration (CC) standards are run at the frequency of 1 in every 20 samples.

Abbreviations: SV = semivolatile, V = volatile

*: In-house methods

BATCH QUALITY CONTROL - CONTROL SPIKE/DUPLICATE									
ALS EP-068 : Pesticides									
QC LOT No :		NOCOPS1449				ANALYST N. MAHABIR			
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	83.8	84.6	84.2	1.64	73.6	104	0-20
HCB	<0.025	0.25	87.4	83	85.2	5.16	77.1	103	0-20
b- & g-BHC	<0.05	0.5	91.8	92.4	92.1	0.66	81.5	107	0-20
d-BHC	<0.025	0.25	83.8	83.4	86.6	10.8	76.1	104	0-20
Heptachlor	<0.025	0.25	85.3	80.6	86.1	16.3	73.3	103	0-20
Aldrin	<0.025	0.25	80.8	81.3	80.9	0.29	76.3	103	0-20
Heptachlor epoxide	<0.025	0.25	83.8	85.8	84.7	2.72	76	101	0-20
Chlordane peak no. 1	<0.025	0.25	80.8	81.4	81	0.99	76.8	106	0-20
Endosulfan 1	<0.025	0.25	82.3	80.9	81.6	1.72	76.6	103	0-20
Chlordane peak no. 2	<0.025	0.25	85.2	82.2	83.7	3.58	79.3	101	0-20
Dieldrin	<0.025	0.25	81.4	85.2	83.3	4.56	79.2	103	0-20
DDE	<0.025	0.25	80.9	80.2	80.6	0.87	77	103	0-20
Endrin	<0.025	0.25	86.7	88.1	86.9	2.76	73.6	107	0-20
Endosulfan 2	<0.025	0.25	90.1	88.6	89.4	1.68	78.2	101	0-20
DDD	<0.025	0.25	83.8	80	81.9	4.64	76.4	103	0-20
Endrin aldehyde	<0.025	0.25	92.2	80.9	86.6	13.1	74	107	1-20
Endosulfan sulfate	<0.025	0.25	85.9	90.3	86.1	4.99	78.8	102	0-20
DDT	<0.1	0.25	80.8	81.5	81.2	0.86	73.4	107	0-20
Endrin ketone	<0.025	0.25	81.6	90.3	86.1	9.85	81.2	100	0-20
Methoxychlor	<0.1	0.25	80.6	80.1	80.4	0.62	69.1	107	0-20
EP068B : OP Pesticides									
Dichlorvos	<0.025	0.25	84.2	84.6	84.4	0.47	79.5	101	0-20
Demeton-a-methyl	<0.025	0.25	83.7	87.8	85.7	4.56	78.1	87.2	0-20
Monocrotophos	<0.1	0.25	40	43.9	42	9.3	34	126	0-20
Dimethoate	<0.025	0.25	88.9	97.1	93	8.92	76	102	0-20
Diazinon	<0.025	0.25	80.2	84.1	82.2	4.73	77.2	104	0-20
Chlorpyrifos methyl	<0.025	0.25	81.6	80.2	80.9	1.73	80	103	0-20
Parathion methyl	<0.1	0.25	80.3	87.4	83.9	8.47	76.7	99.3	0-20
Malathion	<0.025	0.25	81.7	81.9	81.8	0.24	76.6	101	0-20
Fenthion	<0.025	0.25	89.3	82.8	86.1	7.55	76.5	87.7	0-20
Chlorpyrifos	<0.025	0.25	95.5	83.7	89.6	13.2	79.2	103	0-20
Parathion	<0.1	0.25	88.5	89.8	89.2	1.46	78.8	95.4	0-20
Pirimphos ethyl	<0.025	0.25	80.9	84.1	82.5	3.86	79.2	99.2	0-20
Chlorfenvinphos Z	<0.025	0.25	85.5	81.9	83.7	4.3	76.1	104	0-20
Bromophos ethyl	<0.025	0.25	91	81.5	86.3	11	79.1	102	0-20
Fenamiphos	<0.025	0.25	82.8	80.5	81.5	2.45	75.1	102	0-20
Prothipfos	<0.025	0.25	82.6	84.6	83.6	2.4	78	102	0-20
Ethion	<0.025	0.25	84.8	83.6	84.2	1.43	73.6	104	0-20
Carbofenthion	<0.025	0.25	85.8	91.9	89.8	7.1	76.8	102	0-20
Azinphos methyl	<0.025	0.25	83.4	87.6	85.5	4.91	72.1	102	0-20