

Batch:

EB57692

Sub Batch:

1

Date of Issue:

02/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



			SAMPLE IDENTIFICATION											
METHOD	ANALYSIS DESCRIPTION		Laboratory I.D.	111	112	113	114	115	116	117	118	119	120	
	Date Sampled													
	UNIT	LOR	1/78-C6	1/78-C7	1/78-C9	1/78-C10	1/78-C11	1/78-C12	1/78-C13	1/78-C14	1/78-C15	1/78-1687-C1		
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	
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	71	70	70	76	77	77	72	73	70	74	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE													
EP-068T-SS	DEF	%	1	74	90	69	80	80	77	76	76	69	74	

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CERTIFICATE OF ANALYSIS



Laboratory I.D.			SAMPLE IDENTIFICATION											
Date Sampled			121	122	123	124	125	126	127	128	129	130		
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	1/78 1687- C2	1/78 1687- C3	1/78 1687- C4	1/78 1687- C5	1/78 1687- C6	1/78 1687- C7	1/78 1687- C8	1/78 1687- C9	1/78 1687- C10	1/78 1687- C11	
EA-055	Moisture Content (dried @ 103°C)	%	0.1	19.5	41.7	22.0	23.7	27.4	18.2	13.1	17.3	21.5	22.1	
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	0.06	<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	

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Laboratory I.D.		121	122	123	124	125	126	127	128	129	130	
Date Sampled		1/78 1687- C2	1/78 1687- C3	1/78 1687- C4	1/78 1687- C5	1/78 1687- C6	1/78 1687- C7	1/78 1687- C8	1/78 1687- C9	1/78 1687- C10	1/78 1687- C11	
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR									
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	
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	
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	
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	
EP-068B-SS	Fenamiphos	mg/kg	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	
EP-068B-SS	Ethion	mg/kg	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	
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	
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE											
EP-068S-SS	Dibromo-DDE	%	1	73	69	72	73	71	73	73	70	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE											
EP-068T-SS	DEF	%	1	73	70	75	75	76	77	75	91	

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METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION										Laboratory I.D.		UNIT	LOR	Date Sampled									
			131	132	133	134	135	136	137	138	139	140														
EA-055		Moisture Content (dried @ 103°C)	1/78 1687- C12	1/78 1687- C13	1/78 1687- C14	1/78 1687- C15	1/78 1687- C16	1/78 1687- C17	1/78 1687- C18	12/53-C29	12/53-C30	12/53-C31			%	0.1										
EP-068A-SS		ORGANOCHLORINE PESTICIDES																								
EP-068A-SS		alpha-BHC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		HCB	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		beta-BHC & gamma-BHC	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1			mg/kg	0.1										
EP-068A-SS		delta-BHC	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Heptachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Aldrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Heptachlor epoxide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Chlordane - trans	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Endosulfan 1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Chlordane - cis	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Dieldrin	0.29	<0.05	<0.05	0.09	<0.05	<0.05	0.16	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		DDE	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Endrin	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Endosulfan 2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		DDD	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Endrin aldehyde	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Endosulfan sulfate	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		DDT	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2										
EP-068A-SS		Endrin ketone	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068A-SS		Methoxychlor	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2										
EP-068B-SS		ORGANOPHOSPHORUS PESTICIDES																								
EP-068B-SS		Dichlorvos	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Demeton-S-methyl	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Monocrotophos	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2										
EP-068B-SS		Dimethoate	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Diazinon	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Chlorpyrifos-methyl	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Parathion-methyl	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2										
EP-068B-SS		Malathion	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Fenthion	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Chlorpyrifos	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			mg/kg	0.05										
EP-068B-SS		Parathion	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2										

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METHOD	ANALYSIS DESCRIPTION	Laboratory I.D.	131	132	133	134	135	136	137	138	139	140	
		Date Sampled											
		UNIT	LOR	1/78 1687- C12	1/78 1687- C13	1/78 1687- C14	1/78 1687- C15	1/78 1687- C16	1/78 1687- C17	1/78 1687- C18	12/53-C29	12/53-C30	12/53-C31
EP-068B-SS	Pirimphos-ethyl		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		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		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		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Fenamiphos		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Prothiofos		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Ethion		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
EP-068B-SS	Carbophenothion		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		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	69	101	89	99	93	95	91	103	87	88	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	1	72	84	75	90	81	77	84	92	75	80	

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METHOD		ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION						
			Date Sampled		141	142					
			UNIT	LOR	12/53-C32	12/53-C33					
EA-055		Moisture Content (dried @ 103°C)	%	0.1	19.8	18.5					
EP-068A-SS		ORGANOCHLORINE PESTICIDES									
EP-068A-SS		alpha-BHC	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		HCb	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	<0.1					
EP-068A-SS		delta-BHC	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Heptachlor	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Aldrin	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Heptachlor epoxide	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Chlordane - trans	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Endosulfan 1	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Chlordane - cis	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Dieldrin	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		DDE	mg/kg	0.05	0.05	<0.05					
EP-068A-SS		Endrin	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Endosulfan 2	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		DDD	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Endrin aldehyde	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Endosulfan sulfate	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		DDT	mg/kg	0.2	<0.2	<0.2					
EP-068A-SS		Endrin ketone	mg/kg	0.05	<0.05	<0.05					
EP-068A-SS		Methoxychlor	mg/kg	0.2	<0.2	<0.2					
EP-068B-SS		ORGANOPHOSPHORUS PESTICIDES									
EP-068B-SS		Dichlorvos	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Demeton-S-methyl	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Monocrotophos	mg/kg	0.2	<0.2	<0.2					
EP-068B-SS		Dimethoate	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Diazinon	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Chlorpyrifos-methyl	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Parathion-methyl	mg/kg	0.2	<0.2	<0.2					
EP-068B-SS		Malathion	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Fenthion	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Chlorpyrifos	mg/kg	0.05	<0.05	<0.05					
EP-068B-SS		Parathion	mg/kg	0.2	<0.2	<0.2					

Batch:
Sub Batch:
Date of Issue:
Client:
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EB57692
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GILBERT & SUTHERLAND PTY LTD

CERTIFICATE OF ANALYSIS



		SAMPLE IDENTIFICATION			
		Laboratory I.D.		141	142
		Date Sampled			
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	12/53-C32	12/53-C33
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	<0.05
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	<0.05
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE				
EP-068S-SS	Dibromo-DDE	%	1	89	100
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE				
EP-068T-SS	DEF	%	1	81	92

Batch: EB57692
Sub Batch: 1
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Client Reference:

QUALITY CONTROL REPORT



SAMPLE IDENTIFICATION

METHOD	ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
		Laboratory I.D.		200	406	407	300	506	507	400	606	607	500
		Date Sampled											
		UNIT	LOR	Method Blank 1	OCOPS1418 SCS % Rec	OCOPS1418 DCS % Rec	Method Blank 2	OCOPS1419 SCS % Rec	OCOPS1419 DCS % Rec	Method Blank 3	OCOPS1420 SCS % Rec	OCOPS1420 DCS % Rec	Method Blank 4

CHECKS AND SPIKES

EA-055	Moisture Content (dried @ 103°C)	%	0.1	----	----	----	----	----	----	----	----	----
EP-068A-SS	ORGANOCHLORINE PESTICIDES											
EP-068A-SS	alpha-BHC	mg/kg	0.05	<0.05	95.6%	98.0%	<0.05	85.0%	85.4%	79.7%	84.5%	<0.05
EP-068A-SS	HCB	mg/kg	0.05	<0.05	91.0%	93.3%	<0.05	80.3%	87.3%	79.2%	82.8%	<0.05
EP-068A-SS	beta-BHC & gamma-BHC	mg/kg	0.1	<0.1	101%	99.2%	<0.1	89.6%	90.5%	85.2%	85.5%	<0.1
EP-068A-SS	delta-BHC	mg/kg	0.05	<0.05	103%	100%	<0.05	84.6%	87.5%	81.7%	88.5%	<0.05
EP-068A-SS	Heptachlor	mg/kg	0.05	<0.05	93.5%	95.7%	<0.05	81.1%	84.5%	84.8%	91.2%	<0.05
EP-068A-SS	Aldrin	mg/kg	0.05	<0.05	94.6%	95.6%	<0.05	80.9%	88.0%	80.8%	85.7%	<0.05
EP-068A-SS	Heptachlor epoxide	mg/kg	0.05	<0.05	86.7%	80.7%	<0.05	74.0%	81.6%	84.3%	86.1%	<0.05
EP-068A-SS	Chlordane - trans	mg/kg	0.05	<0.05	86.4%	80.0%	<0.05	65.6%	77.9%	78.7%	80.2%	<0.05
EP-068A-SS	Endosulfan 1	mg/kg	0.05	<0.05	110%	104%	<0.05	85.4%	93.6%	87.7%	88.7%	<0.05
EP-068A-SS	Chlordane - cis	mg/kg	0.05	<0.05	88.7%	83.1%	<0.05	80.4%	84.2%	80.6%	81.1%	<0.05
EP-068A-SS	Dieldrin	mg/kg	0.05	<0.05	100%	97.3%	<0.05	82.8%	83.7%	80.8%	82.4%	<0.05
EP-068A-SS	DDE	mg/kg	0.05	<0.05	91.7%	86.0%	<0.05	79.2%	84.5%	80.3%	79.8%	<0.05
EP-068A-SS	Endrin	mg/kg	0.05	<0.05	106%	95.5%	<0.05	82.0%	80.7%	83.8%	88.9%	<0.05
EP-068A-SS	Endosulfan 2	mg/kg	0.05	<0.05	104%	102%	<0.05	85.5%	95.0%	82.5%	90.9%	<0.05
EP-068A-SS	DDD	mg/kg	0.05	<0.05	99.9%	95.3%	<0.05	88.8%	99.5%	85.0%	88.0%	<0.05
EP-068A-SS	Endrin aldehyde	mg/kg	0.05	<0.05	89.3%	86.7%	<0.05	77.5%	82.9%	91.7%	88.5%	<0.05
EP-068A-SS	Endosulfan sulfate	mg/kg	0.05	<0.05	100%	101%	<0.05	85.3%	96.6%	80.7%	88.0%	<0.05
EP-068A-SS	DDT	mg/kg	0.2	<0.2	113%	106%	<0.2	93.6%	96.1%	85.0%	95.3%	<0.2
EP-068A-SS	Endrin ketone	mg/kg	0.05	<0.05	98.5%	94.2%	<0.05	85.0%	90.8%	81.9%	81.8%	<0.05
EP-068A-SS	Methoxychlor	mg/kg	0.2	<0.2	105%	99.4%	<0.2	85.9%	88.3%	67.4%	74.8%	<0.2
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES											
EP-068B-SS	Dichlorvos	mg/kg	0.05	<0.05	82.7%	85.4%	<0.05	81.3%	82.1%	77.1%	77.0%	<0.05
EP-068B-SS	Demeton-S-methyl	mg/kg	0.05	<0.05	92.6%	96.9%	<0.05	85.1%	83.9%	83.3%	81.5%	<0.05
EP-068B-SS	Monocrotophos	mg/kg	0.2	<0.2	104%	103%	<0.2	67.0%	65.0%	75.3%	86.2%	<0.2
EP-068B-SS	Dimethoate	mg/kg	0.05	<0.05	108%	103%	<0.05	87.6%	88.3%	82.5%	85.6%	<0.05
EP-068B-SS	Diazinon	mg/kg	0.05	<0.05	99.0%	97.6%	<0.05	89.6%	92.4%	86.4%	85.7%	<0.05
EP-068B-SS	Chlorpyrifos-methyl	mg/kg	0.05	<0.05	95.7%	91.8%	<0.05	88.1%	87.8%	92.1%	95.2%	<0.05
EP-068B-SS	Parathion-methyl	mg/kg	0.2	<0.2	94.6%	95.6%	<0.2	80.9%	88.0%	80.8%	86.2%	<0.2
EP-068B-SS	Malathion	mg/kg	0.05	<0.05	109%	97.4%	<0.05	81.2%	93.1%	86.7%	92.2%	<0.05
EP-068B-SS	Fenthion	mg/kg	0.05	<0.05	94.7%	93.2%	<0.05	83.0%	87.8%	80.0%	80.3%	<0.05

Batch: EB57692

Sub Batch: 1

Date of Issue: 02/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

QUALITY CONTROL REPORT



				SAMPLE IDENTIFICATION											
Laboratory I.D.		200	406	407	300	506	507	400	506	607	500				
Date Sampled															
		UNIT	LOR	Method Blank 1	OCOPS1418 SCS % Rec	OCOPS1418 DCS % Rec	Method Blank 2	OCOPS1419 SCS % Rec	OCOPS1419 DCS % Rec	Method Blank 3	OCOPS1420 SCS % Rec	OCOPS1420 DCS % Rec	Method Blank 4		
METHOD	ANALYSIS DESCRIPTION														
CHECKS AND SPIKES															
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	<0.05	101%	95.0%	<0.05	92.0%	95.1%	<0.05	86.9%	87.2%	<0.05		
EP-068B-SS	Parathion	mg/kg	0.2	<0.2	117%	112%	<0.2	88.2%	83.7%	<0.2	86.0%	84.9%	<0.2		
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	<0.05	89.0%	86.2%	<0.05	83.8%	86.4%	<0.05	85.0%	95.2%	<0.05		
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	<0.05	---	---	<0.05	---	---	<0.05	---	---	<0.05		
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	<0.05	96.7%	93.1%	<0.05	83.2%	88.4%	<0.05	83.0%	86.9%	<0.05		
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	<0.05	96.8%	89.2%	<0.05	87.5%	91.8%	<0.05	80.9%	89.4%	<0.05		
EP-068B-SS	Fenamiphos	mg/kg	0.05	<0.05	95.4%	87.3%	<0.05	80.8%	85.2%	<0.05	78.8%	77.1%	<0.05		
EP-068B-SS	Prothiofos	mg/kg	0.05	<0.05	92.1%	86.4%	<0.05	82.1%	88.5%	<0.05	86.4%	91.2%	<0.05		
EP-068B-SS	Ethion	mg/kg	0.05	<0.05	101%	95.2%	<0.05	86.5%	94.1%	<0.05	86.2%	87.1%	<0.05		
EP-068B-SS	Carbophenothion	mg/kg	0.05	<0.05	88.1%	79.8%	<0.05	76.6%	82.1%	<0.05	85.5%	78.5%	<0.05		
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	<0.05	112%	105%	<0.05	81.7%	76.3%	<0.05	79.6%	83.3%	<0.05		
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE														
EP-068S-SS	Dibromo-DDE	%	1	90	88	79	92	95	100	90	90	90	92		
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE														
EP-068T-SS	DEF	%	1	78	84	77	94	106	111	84	86	86	82		

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QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION													
			Laboratory I.D.		706	707	600	806	807	700	906	907	800	1006		
			Date Sampled													
			UNIT	LOR	OCOP51421 SCS % Rec	OCOP51421 DCS % Rec	Method Blank 5	OCOP51422 SCS % Rec	OCOP51422 DCS % Rec	Method Blank 6	OCOP51423 SCS % Rec	OCOP51423 DCS % Rec	Method Blank 7	OCOP51424 SCS % Rec		
CHECKS AND SPIKES																
EA-055	Moisture Content (dried @ 103°C)		%	0.1												
EP-068A-SS	ORGANOCHLORINE PESTICIDES															
EP-068A-SS	alpha-BHC		mg/kg	0.05	73.0%	77.7%	<0.05	94.5%	101%	<0.05	84.9%	84.3%	<0.05	81.6%		
EP-068A-SS	HCB		mg/kg	0.05	78.0%	82.2%	<0.05	91.3%	103%	<0.05	83.5%	84.5%	<0.05	79.3%		
EP-068A-SS	beta-BHC & gamma-BHC		mg/kg	0.1	71.5%	75.1%	<0.1	99.7%	109%	<0.1	89.9%	89.5%	<0.1	85.7%		
EP-068A-SS	delta-BHC		mg/kg	0.05	68.2%	74.6%	<0.05	90.4%	101%	<0.05	95.1%	82.5%	<0.05	85.5%		
EP-068A-SS	Heptachlor		mg/kg	0.05	71.2%	77.2%	<0.05	84.7%	93.7%	<0.05	83.9%	77.7%	<0.05	80.1%		
EP-068A-SS	Aldrin		mg/kg	0.05	66.8%	74.9%	<0.05	80.9%	93.8%	<0.05	78.0%	80.1%	<0.05	72.4%		
EP-068A-SS	Heptachlor epoxide		mg/kg	0.05	71.9%	79.9%	<0.05	90.9%	92.1%	<0.05	79.2%	71.2%	<0.05	78.1%		
EP-068A-SS	Chlordane - trans		mg/kg	0.05	71.2%	78.9%	<0.05	84.3%	93.2%	<0.05	78.0%	68.5%	<0.05	76.8%		
EP-068A-SS	Endosulfan 1		mg/kg	0.05	62.9%	71.6%	<0.05	90.7%	101%	<0.05	86.4%	78.6%	<0.05	81.9%		
EP-068A-SS	Chlordane - cis		mg/kg	0.05	70.5%	79.5%	<0.05	74.8%	89.6%	<0.05	71.1%	68.8%	<0.05	74.9%		
EP-068A-SS	Dieldrin		mg/kg	0.05	63.0%	68.5%	<0.05	85.2%	94.1%	<0.05	99.4%	85.4%	<0.05	92.3%		
EP-068A-SS	DDE		mg/kg	0.05	72.2%	82.4%	<0.05	94.2%	103%	<0.05	94.2%	78.7%	<0.05	85.2%		
EP-068A-SS	Endrin		mg/kg	0.05	72.0%	72.7%	<0.05	56.1%	60.3%	<0.05	84.5%	86.4%	<0.05	66.9%		
EP-068A-SS	Endosulfan 2		mg/kg	0.05	73.0%	79.3%	<0.05	90.3%	98.6%	<0.05	94.4%	82.4%	<0.05	87.6%		
EP-068A-SS	DDD		mg/kg	0.05	68.3%	75.6%	<0.05	88.3%	99.7%	<0.05	92.3%	82.4%	<0.05	87.2%		
EP-068A-SS	Endrin aldehyde		mg/kg	0.05	65.4%	76.7%	<0.05	110%	115%	<0.05	73.5%	70.2%	<0.05	80.4%		
EP-068A-SS	Endosulfan sulfate		mg/kg	0.05	67.1%	71.8%	<0.05	86.5%	100%	<0.05	92.3%	81.3%	<0.05	89.9%		
EP-068A-SS	DDT		mg/kg	0.2	67.1%	71.8%	<0.2	90.6%	101%	<0.2	96.3%	89.3%	<0.2	91.3%		
EP-068A-SS	Endrin ketone		mg/kg	0.05	65.3%	66.6%	<0.05	103%	112%	<0.05	89.9%	91.5%	<0.05	116%		
EP-068A-SS	Methoxychlor		mg/kg	0.2	73.3%	75.5%	<0.2	81.2%	92.8%	<0.2	95.0%	78.6%	<0.2	81.7%		
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES															
EP-068B-SS	Dichlorvos		mg/kg	0.05	66.5%	76.8%	<0.05	85.5%	78.8%	<0.05	87.6%	82.5%	<0.05	74.3%		
EP-068B-SS	Demeton-S-methyl		mg/kg	0.05	75.8%	79.4%	<0.05	60.5%	63.7%	<0.05	69.2%	72.7%	<0.05	61.5%		
EP-068B-SS	Monocrotophos		mg/kg	0.2	64.3%	72.5%	<0.2	68.1%	68.8%	<0.2	75.6%	79.5%	<0.2	68.3%		
EP-068B-SS	Dimethoate		mg/kg	0.05	69.4%	75.9%	<0.05	83.3%	84.8%	<0.05	84.8%	82.8%	<0.05	74.2%		
EP-068B-SS	Diazinon		mg/kg	0.05	69.1%	75.7%	<0.05	73.0%	73.6%	<0.05	90.2%	79.0%	<0.05	72.9%		
EP-068B-SS	Chlorpyrifos-methyl		mg/kg	0.05	77.0%	84.9%	<0.05	81.3%	94.5%	<0.05	82.9%	78.8%	<0.05	81.8%		
EP-068B-SS	Parathion-methyl		mg/kg	0.2	66.8%	74.8%	<0.2	80.9%	93.7%	<0.2	78.0%	80.2%	<0.2	72.4%		
EP-068B-SS	Malathion		mg/kg	0.05	68.2%	73.8%	<0.05	85.8%	94.2%	<0.05	81.4%	71.0%	<0.05	74.9%		
EP-068B-SS	Fenthion		mg/kg	0.05	67.6%	74.2%	<0.05	76.2%	76.3%	<0.05	78.4%	72.6%	<0.05	71.7%		

Batch: EB57692
Sub Batch: 1
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Client Reference:

QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
			Laboratory I.D.		706	707	600	806	807	700	906	907	800	1006
			Date Sampled		OCOPS1421	OCOPS1421	Method	OCOPS1422	OCOPS1422	Method	OCOPS1423	OCOPS1423	Method	OCOPS1424
			UNIT	LOR	SCS % Rec	DCS % Rec	Blank 5	SCS % Rec	DCS % Rec	Blank 6	SCS % Rec	DCS % Rec	Blank 7	SCS % Rec
CHECKS AND SPIKES														
EP-068B-SS	Chlorpyrifos	mg/kg	0.05	67.4%	77.2%	<0.05	85.5%	99.3%	<0.05	91.1%	84.7%	<0.05	84.0%	
EP-068B-SS	Parathion	mg/kg	0.2	65.2%	73.0%	<0.2	79.0%	91.2%	<0.2	81.0%	72.7%	<0.2	77.4%	
EP-068B-SS	Pirimphos-ethyl	mg/kg	0.05	73.4%	82.8%	<0.05	70.4%	57.8%	<0.05	75.7%	69.0%	<0.05	69.7%	
EP-068B-SS	Chlorfenvinphos E	mg/kg	0.05	---	---	<0.05	---	---	<0.05	---	---	<0.05	---	
EP-068B-SS	Chlorfenvinphos Z	mg/kg	0.05	68.9%	78.3%	<0.05	84.4%	92.8%	<0.05	88.3%	80.4%	<0.05	80.6%	
EP-068B-SS	Bromophos-ethyl	mg/kg	0.05	71.0%	79.1%	<0.05	83.3%	95.6%	<0.05	81.8%	72.4%	<0.05	82.5%	
EP-068B-SS	Fenamiphos	mg/kg	0.05	69.2%	75.0%	<0.05	70.8%	71.7%	<0.05	81.1%	74.9%	<0.05	73.0%	
EP-068B-SS	Prothiofos	mg/kg	0.05	67.7%	77.8%	<0.05	79.9%	94.1%	<0.05	80.9%	74.8%	<0.05	76.9%	
EP-068B-SS	Ethion	mg/kg	0.05	65.7%	70.4%	<0.05	84.0%	95.8%	<0.05	92.0%	84.2%	<0.05	88.9%	
EP-068B-SS	Carbophenathion	mg/kg	0.05	67.6%	77.4%	<0.05	80.3%	94.1%	<0.05	82.6%	78.9%	<0.05	86.7%	
EP-068B-SS	Azinphos-methyl	mg/kg	0.05	65.8%	64.7%	<0.05	66.3%	70.8%	<0.05	79.1%	72.3%	<0.05	68.7%	
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE													
EP-068S-SS	Dibromo-DDE	%	1	105	100	86	95	102	117	106	103	101	114	
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE													
EP-068T-SS	DEF	%	1	89	86	90	95	97	85	93	85	80	87	

Batch:

EB57692

Sub Batch:

1

Date of Issue:

02/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

QUALITY CONTROL REPORT



METHOD			ANALYSIS DESCRIPTION		Laboratory I.D.		SAMPLE IDENTIFICATION				
			Date Sampled		Date Sampled		1007	900	1106	1107	
			UNIT	LOR	OCOPS1424 DCS % Rec	Method Blank 8	OCOPS1425 SCS % Rec	OCOPS1425 DCS % Rec	CHECKS AND SPIKES		
EA-055	Moisture Content (dried @ 103°C)		%	0.1	-----	-----	-----	-----			
EP-068A-SS	ORGANOCHLORINE PESTICIDES										
EP-068A-SS	alpha-BHC		mg/kg	0.05	82.6%	<0.05	83.0%	83.5%			
EP-068A-SS	HCB		mg/kg	0.05	81.1%	<0.05	83.6%	82.2%			
EP-068A-SS	beta-BHC & gamma-BHC		mg/kg	0.1	87.3%	<0.1	87.0%	86.9%			
EP-068A-SS	delta-BHC		mg/kg	0.05	84.9%	<0.05	88.1%	84.5%			
EP-068A-SS	Heptachlor		mg/kg	0.05	78.5%	<0.05	83.8%	83.1%			
EP-068A-SS	Aldrin		mg/kg	0.05	75.2%	<0.05	77.7%	78.8%			
EP-068A-SS	Heptachlor epoxide		mg/kg	0.05	79.6%	<0.05	84.7%	84.2%			
EP-068A-SS	Chlordane - trans		mg/kg	0.05	79.7%	<0.05	82.2%	82.5%			
EP-068A-SS	Endosulfan 1		mg/kg	0.05	83.4%	<0.05	99.6%	94.8%			
EP-068A-SS	Chlordane - cis		mg/kg	0.05	74.0%	<0.05	87.4%	82.1%			
EP-068A-SS	Dieldrin		mg/kg	0.05	95.3%	<0.05	96.7%	96.7%			
EP-068A-SS	DDE		mg/kg	0.05	82.9%	<0.05	91.2%	85.5%			
EP-068A-SS	Endrin		mg/kg	0.05	78.3%	<0.05	81.3%	74.7%			
EP-068A-SS	Endosulfan 2		mg/kg	0.05	97.3%	<0.05	91.5%	87.3%			
EP-068A-SS	DDD		mg/kg	0.05	87.2%	<0.05	90.6%	89.8%			
EP-068A-SS	Endrin aldehyde		mg/kg	0.05	75.4%	<0.05	102%	97.1%			
EP-068A-SS	Endosulfan sulfate		mg/kg	0.05	88.5%	<0.05	98.4%	92.8%			
EP-068A-SS	DDT		mg/kg	0.2	91.3%	<0.2	92.2%	88.9%			
EP-068A-SS	Endrin ketone		mg/kg	0.05	104%	<0.05	118%	98.2%			
EP-068A-SS	Methoxychlor		mg/kg	0.2	79.9%	<0.2	88.7%	83.5%			
EP-068B-SS	ORGANOPHOSPHORUS PESTICIDES										
EP-068B-SS	Dichlorvos		mg/kg	0.05	82.1%	<0.05	78.3%	76.5%			
EP-068B-SS	Demeton-S-methyl		mg/kg	0.05	72.8%	<0.05	67.1%	80.3%			
EP-068B-SS	Monocrotophos		mg/kg	0.2	68.6%	<0.2	72.4%	83.8%			
EP-068B-SS	Dimethoate		mg/kg	0.05	78.0%	<0.05	78.8%	85.3%			
EP-068B-SS	Diazinon		mg/kg	0.05	80.0%	<0.05	79.4%	85.3%			
EP-068B-SS	Chlorpyrifos-methyl		mg/kg	0.05	80.0%	<0.05	87.1%	86.4%			
EP-068B-SS	Parathion-methyl		mg/kg	0.2	75.2%	<0.2	77.7%	78.8%			
EP-068B-SS	Malathion		mg/kg	0.05	75.1%	<0.05	92.5%	90.0%			
EP-068B-SS	Fenthion		mg/kg	0.05	75.1%	<0.05	80.0%	81.3%			

Batch: EB57692

Sub Batch: 1

Date of Issue: 02/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

QUALITY CONTROL REPORT



		SAMPLE IDENTIFICATION					
	Laboratory I.D.	Data Collected					
		1007	900	1106	1107		
EP-068B-SS	Chlorpyrifos	85.4%	<0.05	87.9%	93.0%		
EP-068B-SS	Parathion	76.7%	<0.2	62.4%	63.5%		
EP-068B-SS	Pirimphos-ethyl	80.3%	<0.05	69.6%	78.1%		
EP-068B-SS	Chlorfenvinphos E	---	<0.05	---	---		
EP-068B-SS	Chlorfenvinphos Z	84.5%	<0.05	93.0%	91.1%		
EP-068B-SS	Bromophos-ethyl	80.8%	<0.05	87.8%	87.7%		
EP-068B-SS	Fenamiphos	78.1%	<0.05	71.8%	77.7%		
EP-068B-SS	Prothiofos	76.3%	<0.05	83.4%	84.3%		
EP-068B-SS	Ethion	88.4%	<0.05	88.3%	86.3%		
EP-068B-SS	Carbophenothion	83.7%	<0.05	90.0%	90.4%		
EP-068B-SS	Azinphos-methyl	67.3%	<0.05	89.4%	81.9%		
EP-068S-SS	ORGANOCHLORINE PESTICIDE SURROGATE						
EP-068S-SS	Dibromo-DDE	114	99	115	102		
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE						
EP-068T-SS	DEF	86	85	95	84		

Attachment 2 G&S letter dated 2 October 2009

October 2, 2009

Metricon Qld Pty Ltd
PO BOX 3407
Robina TC QLD 4230

Attention: Mr Shaun Nicholson

Dear Shaun:

RE: SUMMARY OF CONTAMINATION ISSUES RELATING TO PROPOSED 'ALTITUDE 1' DEVELOPMENT 'AREA E', LOCATED ADJACENT TO FRASER DRIVE, TERRANORA, NEW SOUTH WALES

Metricon Queensland Pty Ltd (Metricon) commissioned Gilbert & Sutherland Pty Ltd (G&S) to prepare an expert summary relating to contamination issues, and possible historical contaminating activities (if any) occurring within the bounds of the proposed Metricon development known as 'Altitude 1' (the site) to support a Part 3A application to the New South Wales Department of Planning. The 'Altitude 1' site is located within Terranora 'Area E' and comprises the following lots (as shown on Drawing No. GJ0901.1.1):

- Lot 1 DP304649 (4.702 ha)
- Lot 1 DP175235 (13.840 ha)
- Lot 1 DP781687 (4.707 ha)
- Lot 1 DP781697 (3.523 ha)
- Lot 1 DP169490 (0.348 ha)
- Lot 2 DP778727 (8.525 ha)
- Lots 40 and 43 DP 254416 (0.065 and 0.036 ha)
- Lot 3 DP587869 (0.246 ha).

Glazebrook & Associates Pty Ltd conducted a Stage 1 investigation of the entire Terranora 'Area E' in May 2003 on behalf of Gilbert & Sutherland. This report was included as Appendix A in the Gilbert & Sutherland Soil Contamination Assessment for 'Area E' Properties Terranora (G&S, October 2003). This information confirmed historical potentially contaminating activities associated with agricultural practices. Gilbert & Sutherland's broad acre soil contamination assessment, conducted on behalf of Metricon on the entirety of properties within the Terranora 'Area E' development precinct, confirmed that no samples taken from within what is now the 'Altitude 1' development site exhibited concentrations of contaminants above the applicable Health-Based Investigation Levels (HILs) adopted for the 2003 investigation.

The broad acre soil contamination assessment conducted by Gilbert & Sutherland included the drilling of one thousand three hundred and twenty three (1323) shallow boreholes¹ across the entire proposed Terranora 'Area E'. Shallow soil samples collected from each borehole were subsequently composited and analysed by a NATA accredited laboratory for a suite of analytes particular to the identified historical activities occurring on the site. Contaminants of Potential Concern (COPC) were identified as:

- Arsenic
- Lead
- Aldrin/Dieldrin

¹ Sample densities in general accordance with; **Standards Australia. AS 4482.1—2005. Guide to the Sampling and Investigation of Potentially contaminated Soil – Part 1: Non-volatile and Semi-volatile compounds.**

- Chlordane
- DDT, DDD and DDE (Attributable to pesticide use)
- Cadmium
- Copper
- Mercury
- Zinc.

A brief summary of analytical results for the COPC selected, summarised for each lot within the 'Altitude 1' area, is presented below. The results indicate no contaminants occurring above the applicable Health-Based Investigation Levels (HILs) adopted for the 2003 investigation.

Table 1 – Summary of analytical results, previous investigation (G&S 2003) on lots now comprising Altitude 1

Lot # Located within proposed 'Altitude 1'	COPC Suite	Samples exceeding adjusted HILs
Lot 1 DP304649	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 1 DP175235	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 1 DP781687	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 1 DP781697	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 1 DP169490	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 2 DP778727	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lots 40 & 43 DP 254416	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None
Lot 3 DP587869	As, Cd, Cu, Hg, Pb, Zn, Aldrin/Dieldrin, Chlordane, DDT+, DDD+ & DDE	None

Table 1: Sourced from Soil Contamination Assessment report for 'Area E' Properties Terranora Volume 1 – Report prepared for Metricon Queensland Pty Ltd, dated October 2003.

Given that the above-mentioned lots wholly encompass the proposed 'Altitude 1' area and currently exist in a similar, undeveloped condition to that encountered during the 2003 assessment period, Gilbert & Sutherland considers that the findings of the Soil Contamination Assessment for 'Area E' Properties Terranora Volume 1 – Report prepared for Metricon Queensland Pty Ltd, dated October 2003 remain valid. Further, the landholder confirms that no change of land use and/or new land use activity with the potential to contaminate the site has been undertaken on the subject lots in the period between the 2003 investigation and the date of preparing this letter advice.

Summary

Gilbert & Sutherland's Soil Contamination Assessment for 'Area E' Properties Terranora Volume 1 – Report, prepared for Metricon Queensland Pty Ltd, dated October 2003, found no contamination associated with historical agricultural use of the lots that now comprise the Altitude 1 site. Of the total 1323 soil bores drilled across the entire Area E site, 508 were drilled within the Altitude 1 site. Contamination exceeding the adopted HIL's was not identified in any of the samples collected from the boreholes.

Therefore, with regard to the following NSW Department of Planning Major Projects Application sections regarding the preliminary assessment-identification of key issues (contained within *Schedule – Information required at lodgement*):

- (c) *potential environmental impacts associated with construction, operation, or occupation of a project;*
- (d) *likely environmental risks;*

Gilbert & Sutherland considers that the lots comprising the proposed 'Altitude 1' area exhibit a low potential for environmental impact associated with contamination and/or potentially contaminating activities.

We trust this advice is acceptable. Please do not hesitate to contact this office, including those undersigned, if you require any further details.

Yours faithfully,

Gilbert & Sutherland Pty Ltd



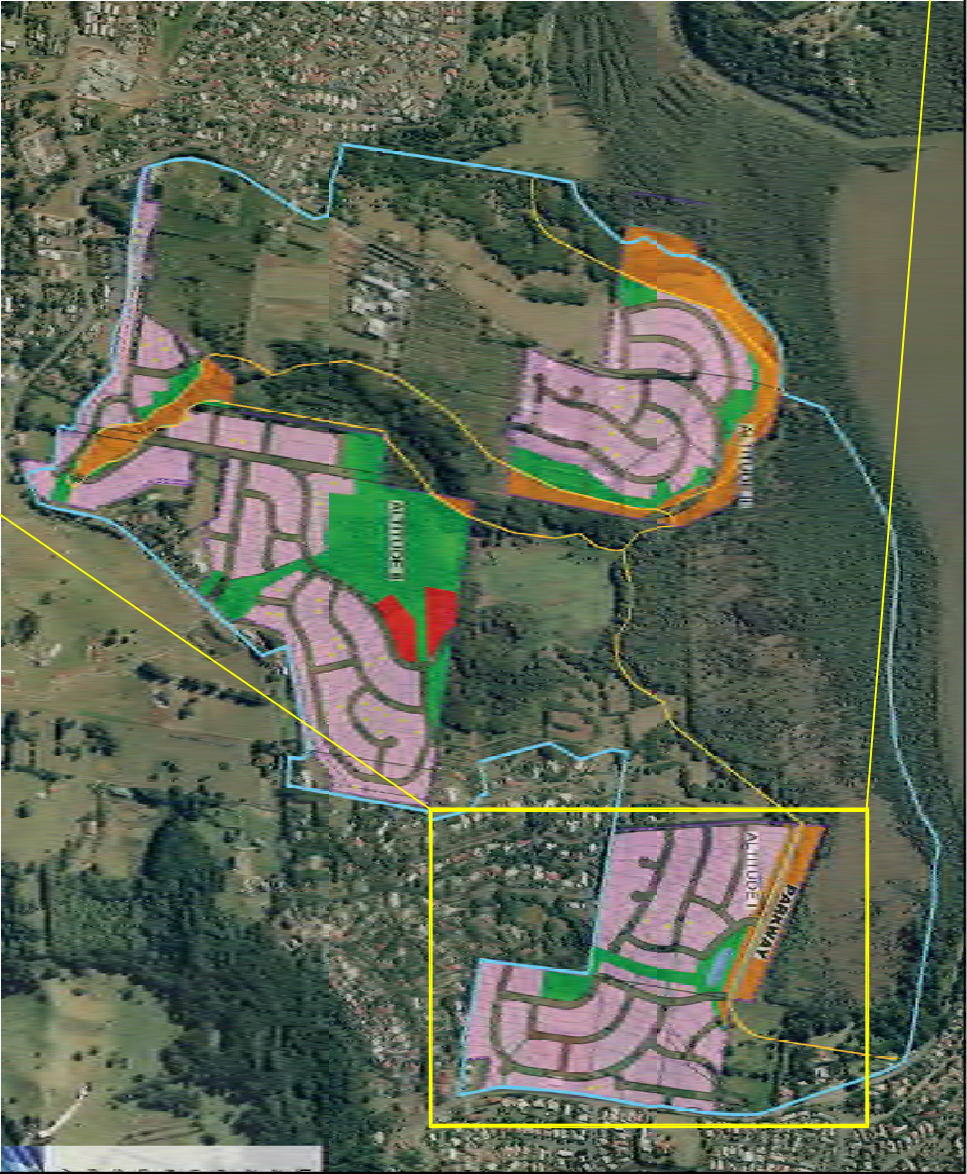
Nathan Zurig

Director/Principal Environmental Scientist



Nick Gifford

Environmental Scientist



Gilbert & Sutherland's Soil Contamination Assessment for 'Area E' Properties Terranora Volume 1 - Report found no current or historical contaminating activities are likely to have taken place on the lots that now comprise the Altitude 1 site. These lots include:

- Lots 40 and 43 DP254416
- Lot 1 DP169490
- Lot 1 DP781697
- Lot 1 DP304649
- Lot 1 DP781687
- Lot 1 DP175235
- Lot 2 DP778727
- Lot 3 DP587869

GILBERT+SUTHERLAND agriculture · water · environment Eastside 5/232 Robina Town Centre Drive, Robina, Qld. 4226 Phone 55789944 Mobile 0418 760919 Fax 55789945		PROJECT METRICON QLD P/L SUMMARY OF CURRENT & HISTORICAL CONTAMINATION ISSUES 'ALTITUDE 1' TERRANORA, NSW	
FIGURED DIMENSIONS TO BE READ IN PREFERENCE TO SCALING.		APPROVED	
SCALE AS SHOWN		DRAWN J.W.W	
DATE 2/10/09		CHECKED	
DRAWING No.		GJ0901.1.1	