

Batch: EB57692

Sub Batch: 0

Date of Issue: 02/09/2003

Client: GILBERT & SUTHERLAND PTY LTD

Client Reference:

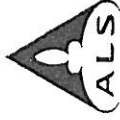
CERTIFICATE OF ANALYSIS



METHOD			ANALYSIS DESCRIPTION	SAMPLE IDENTIFICATION											
				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
UNIT	LOR														
%	0.1	Moisture Content (dried @ 103°C)			19.5	41.7	22.0	23.7	27.4	18.2	13.1	17.3	21.5	22.1	
mg/kg	1	Arsenic - Total			<1	<1	<1	1	<1	<1	<1	<1	<1	<1	
mg/kg	1	Cadmium - Total			----	----	----	----	----	----	----	----	----	----	
mg/kg	1	Copper - Total			----	----	----	----	----	----	----	----	----	----	
mg/kg	1	Lead - Total			5	4	5	5	5	8	6	6	7	5	
mg/kg	1	Zinc - Total			----	----	----	----	----	----	----	----	----	----	
mg/kg	0.1	Mercury - Total			----	----	----	----	----	----	----	----	----	----	

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CERTIFICATE OF ANALYSIS



		SAMPLE IDENTIFICATION											
		Laboratory I.D.		131	132	133	134	135	136	137	138	139	140
		Date Sampled		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
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR										
EA-055	Moisture Content (dried @ 103°C)	%	0.1	19.3	18.7	19.5	21.0	15.6	10.0	19.2	18.3	26.8	26.8
EG-005T	Arsenic - Total	mg/kg	1	<1	<1	<1	<1	<1	<1	<1	<1	9	7
EG-005T	Cadmium - Total	mg/kg	1	---	---	---	---	---	---	---	---	---	---
EG-005T	Copper - Total	mg/kg	1	---	---	---	---	---	---	---	---	---	---
EG-005T	Lead - Total	mg/kg	1	4	6	5	5	7	6	5	6	13	8
EG-005T	Zinc - Total	mg/kg	1	---	---	---	---	---	---	---	---	---	---
EG-035T	Mercury - Total	mg/kg	0.1	---	---	---	---	---	---	---	---	---	---

Batch:

EB57692

Sub Batch:

0

Date of Issue:

02/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



		Laboratory I.D.		141	142	SAMPLE IDENTIFICATION				
		Date Sampled		12/53-C32	12/53-C33					
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR							
EA-055	Moisture Content (dried @ 103°C)	%	0.1	19.8	18.5					
EG-005T	Arsenic - Total	mg/kg	1	8	6					
EG-005T	Cadmium - Total	mg/kg	1	---	---					
EG-005T	Copper - Total	mg/kg	1	---	---					
EG-005T	Lead - Total	mg/kg	1	8	8					
EG-005T	Zinc - Total	mg/kg	1	---	---					
EG-035T	Mercury - Total	mg/kg	0.1	---	---					

Batch: EB57692
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Date of Issue: 02/09/2003
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Client Reference:

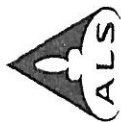
QUALITY CONTROL REPORT



METHOD		ANALYSIS DESCRIPTION	Laboratory I.D.		SAMPLE IDENTIFICATION									
			Date Sampled		200	201	300	301	400	401	500	501	502	503
		UNIT	LOR		Method Blank 1	Inorg 1 LCS % Rec	Method Blank 2	Inorg 2 LCS % Rec	Method Blank 3	Inorg 3 LCS % Rec	Method Blank 4	Inorg 4 LCS % Rec	Method Blank 5	Inorg 5 LCS % Rec
CHECKS AND SPIKES														
EA-055	Moisture Content (dried @ 103°C)	%	0.1		<1	106%	<1	95.0%	<1	94.0%	<1	104%	<1	91.0%
EG-005T	Arsenic - Total	mg/kg	1		<1	101%	<1	101%	<1	99.0%	<1	106%	<1	99.0%
EG-005T	Cadmium - Total	mg/kg	1		<1	104%	<1	113%	<1	99.0%	<1	102%	<1	104%
EG-005T	Copper - Total	mg/kg	1		<1	101%	<1	99.0%	<1	96.0%	<1	105%	<1	96.0%
EG-005T	Lead - Total	mg/kg	1		<1	101%	<1	97.0%	<1	93.0%	<1	104%	<1	87.0%
EG-005T	Zinc - Total	mg/kg	1		<1	99.0%	<0.1	101%	<0.1	98.0%	<0.1	103%	<0.1	100%
EG-035T	Mercury - Total	mg/kg	0.1		<0.1									

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Sub Batch: 0
Date of Issue: 02/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

QUALITY CONTROL REPORT



SAMPLE IDENTIFICATION											
Laboratory I.D.		600	601	700	701	800	801				
Date Sampled											
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	Method Blank 6	Inorg 6 LCS % Rec	Method Blank 7	Inorg 7 LCS % Rec	Method Blank 8	Inorg 8 LCS % Rec		
		CHECKS AND SPIKES									
EA-055	Moisture Content (dried @ 103°C)	%	0.1	---	---	---	---	---	---		
EG-005T	Arsenic - Total	mg/kg	1	<1	105%	<1	105%	<1	91.0%		
EG-005T	Cadmium - Total	mg/kg	1	<1	100%	<1	102%	<1	99.0%		
EG-005T	Copper - Total	mg/kg	1	<1	104%	<1	102%	<1	104%		
EG-005T	Lead - Total	mg/kg	1	<1	102%	<1	104%	<1	96.0%		
EG-005T	Zinc - Total	mg/kg	1	<1	104%	<1	102%	<1	87.0%		
EG-035T	Mercury - Total	mg/kg	0.1	<0.1	99.0%	<0.1	105%	<0.1	96.0%		



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: EB57692
SUB BATCH: 1
LABORATORY: BRISBANE
DATE RECEIVED: 18/08/2003
DATE COMPLETED: 02/09/2003
SAMPLE TYPE: SOIL
No. of SAMPLES: 142

COMMENTS

Results apply to sample(s) as submitted. Samples analysed on an as received basis. Results reported on a dry weight basis.

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: BRISBANE

Address
32 Shand Street
Stafford QLD 4053
Australia

Phone: 61-7-3243 7222
Fax: 61-7-3243 7218
Email: michael.heery@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: BRISBANE

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: EB57692
Sub Batch: 1
Date of Issue: 02/09/2003
Client: GILBERT & SUTHERLAND PTY LTD
Client Reference:

CERTIFICATE OF ANALYSIS



			SAMPLE IDENTIFICATION										
Laboratory I.D.													
Date Sampled													
METHOD	ANALYSIS DESCRIPTION		1	2	3	4	5	6	7	8	9	10	
	UNIT	LOR	4/58-C1	4/58-C2	4/58-C3	4/58-C4	4/58-C5	4/58-C6	4/58-C7	4/58-C8	4/58-C9	4/58-C10	
EA-055	Moisture Content (dried @ 103°C)	%	0.1	23.3	31.3	23.8	23.3	25.2	21.2	22.2	22.8	28.0	21.7
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	0.03	<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:

EB57692

Sub Batch:

1

Date of Issue:

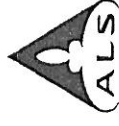
02/09/2003

Client:

GILBERT & SUTHERLAND PTY LTD

Client Reference:

CERTIFICATE OF ANALYSIS



SAMPLE IDENTIFICATION													
Laboratory I.D.		1	2	3	4	5	6	7	8	9	10		
Date Sampled													
METHOD	ANALYSIS DESCRIPTION	UNIT	LOR	4/58-C1	4/58-C2	4/58-C3	4/58-C4	4/58-C5	4/58-C6	4/58-C7	4/58-C8	4/58-C9	4/58-C10
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	99	98	93	103	103	107	96	108	102	94
EP-068T-SS	ORGANOPHOSPHORUS PESTICIDE SURROGATE												
EP-068T-SS	DEF	%	1	77	84	87	88	87	88	80	93	87	78