#### COMMERCIAL IN CONFIDENCE

Annex E

Field Documentation

#### Oil / Water Interface Meter

Instrument Serial No. Geotech Interface Meter (30M)

3983



11	Test	Pass	Comments
Item			
Battery	Compartment	<b>\</b>	
	Capacity	✓	
Duebe	Cleaned/Decon.	1	
Probe	Operation Operation	<b>V</b>	
	Operation		
		<u> </u>	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	<b>V</b>	
Connectors	Checked for cuts	<b>✓</b>	
Connectors	Oncolor variable		
		<b>/</b>	
Instrument Test	At surface level		

#### Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by:	<u> </u>	Sophie Boler
Calibration date:	24/10/2013	
Next calibration due:	23/12/2013	

#### Oil / Water Interface Meter

Instrument

Geotech Interface Meter (30M)

Serial No.

3978



Test	Pass	Comments
Compartment	✓	
Capacity	<b>/</b>	
Cleaned/Decon.	<b>*</b>	
Operation	<b>_</b>	
Condition	<b>✓</b>	
	✓	
Cleaned	✓	
Checked for cuts	_	
At surface level	<b>✓</b>	
	Compartment Capacity  Cleaned/Decon. Operation  Condition  Cleaned Checked for cuts	Compartment Capacity  Cleaned/Decon. Operation  Condition  Cleaned  Checked for cuts

#### Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by:	<u>SR</u> .	Sophie Boler
Calibration date:	25/10/2013	
Next calibration due:	24/12/2013	

#### **PID Calibration Certificate**

Instrument

**PhoCheck Tiger** 

Serial No.

T-105429



#### Air-Met Scientific Pty Ltd 1300 137 067

Item	Test	Pass			Comment	S
Battery	Charge Condition	1				
	Fuses	✓				
	Capacity	<b>✓</b>				
	Recharge OK?	✓				
Switch/keypad	Operation	✓				
Display	Intensity	<b>✓</b>				
	Operation	<b>✓</b>				
	(segments)					
Grill Filter	Condition	<b>✓</b>				
	Seal	✓				
Pump	Operation	✓				
	Filter	<b>✓</b>				
	Flow	✓				
	Valves, Diaphragm	✓				
PCB	Condition	✓				
Connectors	Condition	✓				
Sensor	PID	✓	10.6 ev			
Alarms	Beeper	✓	Low	High	TWA	STEL
	Settings	✓	50ppm	100ppm		
Software	Version	✓				
Data logger	Operation	✓				
Download	Operation	✓				
Other tests:	Flowrate					

#### Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Calibration gas and	Certified	Gas bottle No	Instrument Reading
		concentration			
PID Lamp		100ppm Isobutylene	NIST	SY21	100.4ppm

Calibrated by:

SB.

Sophie Boler

Calibration date:

4/11/2013

Next calibration due:

4/12/2013



Project Name :	Symphon   Iddel Project Staff: Talk to wold
Project No :	224198 Date: 11/11/13
Photo-ionisation D	Detector
Make/Model No:	Phoched Tizer
Serial Number:	T-105429
Calibration Gas	
Calibration Gas:	Isosepper - SAN
PID Calibration  Zero Calibration	
PID Reading:	O
Span Calibration  Desired PID Reading:  Actual PID Reading:	100 99. 8
	been calibrated in accordance with the manufacturers specifications.
Checked By:	Joshe Konad
Signature:	Date: 1/11/13

#### **PID Calibration Certificate**

Instrument

**PhoCheck Tiger Select** 

Serial No. T-106085



#### Air-Met Scientific Pty Ltd 1300 137 067

Item	Test	Pass			Comments	3	
Battery	Charge Condition	<b>√</b>					
	Fuses	✓					
	Capacity	✓					
	Recharge OK?	✓					
Switch/keypad	Operation	✓					
Display	Intensity	✓					
	Operation	✓					
	(segments)						
Grill Filter	Condition	✓					
	Seal	✓					
Pump	Operation	✓					
	Filter	✓					
	Flow	✓					
	Valves, Diaphragm	✓					
PCB	Condition	✓					
Connectors	Condition	✓					
Sensor	PID	·	10.0 ev				
Alarms	Beeper	1	Low	High	TWA	STEL	
	Settings	✓	50ppm	100ppm			
Software	Version	<b>✓</b>					
Data logger	Operation	✓					
Download	Operation	<b>✓</b>					
Other tests:							

#### Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Diffusion mode

Aspirated mode

Sensor	Serial no	Calibration gas and concentration	Certified	Gas bottle No	Instrument Reading
PID Lamp			NIST	SY21	100.0ppm
				1	

Calibrated by:	<u>AR</u>	Anne Rutlidge
Calibration date:	13/11/2013	
Next calibration due:	13/12/2013	



Project Name :	Symphon- Lold	Project Staff :	Josha Would
Project No :	0224198	Date :	13/11/13
Photo-ionisation Detec	ctor		
Make/Model No:	Phocheck Tiger T-105429		
Serial Number:	T-105429		
Calibration Gas			
Calibration Gas:	Iso bufy!		
PID Calibration			
Zero Calibration			
PID Reading:	0	]	
Span Calibration		1	
Desired PID Reading:	100		
Actual PID Reading:	(00.4		
Certification The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	Joshua Kondel		
Signature:	THE	Date:	13/11/03





Project Name:

#### Environmental Resources Management Australia Pty Ltd

PID Calibration Certificate

Project No :	02/4/88	Date :	14/11/13				
Photo-ionisation Detector							
Make/Model No: Serial Number:	Phocheck Tiger T, 105479						
Calibration Gas							
Calibration Gas:	SPAN - Tsobubylene	]					
PID Calibration							
Zero Calibration							
PID Reading:	0						
Span Calibration  Desired PID Reading:  Actual PID Reading:	100.1						
Certification The above detector has been	calibrated in accordance with the	manufacturers s	pecifications.				
Checked By:	Joshe Korold						
Signature:	otto	Date:	14/11/13				

Symphony - lioble Project Staff: Tosak.



Signature:

### Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

Project Staff : Jan & Project Name: Date: Project No: Photo-ionisation Detector T105429 Make/Model No: Serial Number: Calibration Gas SPAN-TSOSMAN Calibration Gas: PID Calibration Zero Calibration PID Reading: **Span Calibration** 100 Desired PID Reading: 100.1 Actual PID Reading: Certification The above detector has been calibrated in accordance with the manufacturers specifications. Kough Checked By:

Date:

15/11/13

#### **PID Calibration Certificate**

Instrument Minirae 3000 Serial No. 592-001272



#### Air-Met Scientific Pty Ltd 1300 137 067

Item	Test	Pass			Comments		
Battery	Charge Condition	✓					
	Fuses	✓					
	Capacity	✓					
***************************************	Recharge OK?	✓					
Switch/keypad	Operation	✓					
Display	Intensity	✓					
1 1	Operation	<b>✓</b>					
	(segments)						
Grill Filter	Condition	✓					
	Seal	✓					
Pump	Operation	✓					
	Filter	<b>✓</b>					
	Flow	<b>✓</b>					
***************************************	Valves, Diaphragm	✓					
PCB	Condition	<b>✓</b>					
Connectors	Condition	✓					
Sensor	PID	<b>✓</b>	10.6 ev				
Alarms	Beeper	<b>✓</b>	Low	High	TWA	STEL	
Auttio	Settings	<b>√</b>	50ppm	100ppm	10ppm	25ppm	
Software	Version	<b>✓</b>					
Data logger	Operation	1					
Download	Operation	<b>✓</b>					
Other tests:							

#### Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Calibration gas and	Certified	Gas bottle No	Instrument Reading
		concentration			
PID Lamp		100ppm Isobutylene	NATA	SY21	100.2ppm

Calibrated by:

Jacob Arnott

Calibration date:

18/11/2013

Next calibration due:

18/12/2013



### Environmental Resources Management Australia Pty Ltd

PID	Calibration	Certificate

Project Name :	LIBRELL	Project Staff:	J. GIRVIN	
Project No :	0224198	Date :	19/11/13	100.1
Photo-ionisation Detec	etor		20/11/13	100.1
Make/Model No: Serial Number:	Proched Tiger T-106085.			
Calibration Gas			×	
Calibration Gas:	Isobotylene 100 ppm	]		
PID Calibration	*			
Zero Calibration			ið	
PID Reading:	0.000 / (196).	]		
Span Calibration	3	1		
Desired PID Reading: Actual PID Reading:	100.0 100.2 / ok			
				*
Certification The above detector has been	calibrated in accordance with the	manufacturers s	pecifications.	
Checked By:	J. GRUN			
Signature:	Mei	Date:	19/11/13.	
	0-1		-	

# vironmental Resources Management Australia Pty Ltd

Project Name :	Symphony-Liddell	Project Staff :	J. GLRVIN
Project No :	0224198	Date :	20/11/13
Photo-ionisation Detec	ctor		Wedo.
Make/Model No:	ProCheck Tiger	2	
Serial Number:	T-106085		
Calibration Gas			
Calibration Gas:	Isolutilere 100ppm		
PID Calibration			
Zero Calibration			
PID Reading:	0.1 -> 0.0 after N-	cal	
Span Calibration			
Desired PID Reading:	100.0	11. 10/	
Actual PID Reading:	100.8	within 1%	
	*		
Certification			
The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. FIRVIN		
Signature:	9060	Date:	20/11/13.
	001		



Project Name :	Symphony	Project Staff	TA
Project No :	0224198	Date :	17.11.13
Photo-ionisation Detec	tor		18.11.13
Make/Model No: Serial Number:	Mini RAE Lite	]	19. 11. 13 / Calibroke 21. 11. 13/
Calibration Gas			
Calibration Gas:	Iso	la la	
PID Calibration			
Zero Calibration			
PID Reading:	0.0	]	
Span Calibration  Desired PID Reading:  Actual PID Reading:	100-0		
Certification The above detector has been	calibrated in accordance with th	e manufacturers :	specifications.
Checked By:	T. ARMANI		]
Signature:	Mulani	Date:	21- (1.13



Project Name :	Symphony	Project Staff :	T. Armani
Project No :	0224198	Date :	19.11.13=DIOS ppm
Photo-ionisation Detect	tor		20.11.13 = cal. 21.11.13 = 110,3ppm
Make/Model No: Serial Number:	Minirae 3000 592-001359		
Calibration Gas			
Calibration Gas:	Iso		
PID Calibration			
Zero Calibration			
PID Reading:	0.0		
Span Calibration		ï	
Desired PID Reading:	100.0		
Actual PID Reading:	100.1		
Certification			
The above detector has been of	calibrated in accordance with the	manufacturers sp	pecifications.
Checked By:	T. ARMANI		
Signature:	Juan	Date:	21.11.13



# Environmental Resources Management Australia Pty Ltd

	Project Name :	Symploy- Liddell. Project Staff: J. GRUN
	Project No :	0224198 Date: 21/11/13
	Photo-ionisation Detec	tor Thus.
)	Make/Model No: Serial Number:	ProCheck Tiger T-106085
	Calibration Gas	
	Calibration Gas:	Isobytylene 100 ppm.
	PID Calibration	
	Zero Calibration	
	PID Reading:	0.0
	Span Calibration	lan.a
	Desired PID Reading: Actual PID Reading:	100.7
	Certification The above detector has been	calibrated in accordance with the manufacturers specifications.
	Checked By:	J. GIRUIN
	Signature:	This Date: 21/11/13



Project Staff: J. G.WIN Project Name: 0224198 Project No: Date: Photo-ionisation Detector 3000 Make/Model No: Serial Number: Calibration Gas Calibration Gas: PID Calibration Zero Calibration 0.0 PID Reading: **Span Calibration** Desired PID Reading: Actual PID Reading: Certification The above detector has been calibrated in accordance with the manufacturers specifications. J. GRVIN Checked By: Signature: 26/11/13 Date:



Project Name :	Symphony- Liddell	Project Staff :	JOH G.
Project No :	0224198	Date :	27/11/13
Photo-ionisation Detec	tor		Weds.
Make/Model No: Serial Number:	MiniRae 3000 592-001272		
Calibration Gas			
Calibration Gas:	looppin Isob.	]	
PID Calibration			
Zero Calibration			
PID Reading:	0.2 -> 0.0	after re-cal.	
Span Calibration			
Desired PID Reading:	100.0		
Actual PID Reading:	100.2		
Certification			
The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUN		
Signature:	This	Date:	27/11/13
	/		1



Project Name :	Liddel Symphon	Project Staff :	Jaha bores
Project No :	0724/89	Date :	2/11/03
Photo-ionisation l	Detector		
Make/Model No:	Plocked 1758 T-105 429		
Serial Number:	T-105 429		
Calibration Gas			
Calibration Gas:	C-SPHN		
PID Calibration			
Zero Calibration			
PID Reading:	15 O		
Span Calibration			
Desired PID Reading:			
Actual PID Reading:	102.6		
<b>Certification</b> The above detector has	s been calibrated in accordance with	the manufacturers sp	pecifications.
Checked By:	OKONN		
Signature:	the	Date:	27/11/13



Project Name :	Liddell	Project Staff :	JOHN G
Project No :	6224198	Date :	28/11/13
Photo-ionisation Dete	ctor		Thus.
Make/Model No: Serial Number:	MiniRae 3000 592-001272	]	
Calibration Gas			
Calibration Gas:	100ppm Isobotylene.	]	
PID Calibration			
Zero Calibration			
PID Reading:	0.2 -> 0.0	after re-rad.	
Span Calibration		_	
Desired PID Reading:	100.0	]	
Actual PID Reading:	100.3	]	
Certification			
	n calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRVIN		
Signature:	Migin	Date:	28/11/13



Project Name :	Symphony holler	Project Staff :	Josh Kondel				
Project No :	2224187	Date :	28/11/13				
Photo-ionisation Detect	Photo-ionisation Detector						
Make/Model No: Serial Number:	Phocheck riger T-105429						
Calibration Gas							
Calibration Gas:	C-5P4W						
PID Calibration							
Zero Calibration							
PID Reading:	0						
Span Calibration							
Desired PID Reading:	100						
Actual PID Reading:	104						
J							
Certification							
The above detector has been of	calibrated in accordance with the	manufacturers sp	ecifications.				
Checked By:	Ago buse						
Signature:	AL.	Date:	21/1/12				

#### Oil / Water Interface Meter

Instrument Serial No. Geotech Interface Meter (30M)

3913



#### Air-Met Scientific Pty Ltd 1300 137 067

airmet

Item	Test	Pass	Comments
Battery	Compartment	<b>✓</b>	
Datter y	Capacity	7	9.5v
	Ισαρασκή		
Probe	Cleaned/Decon.	V	
17000	Operation	1	
Connectors	Condition	1	
Oomicotors		<b>V</b>	
Tape Check	Cleaned	<b>Y</b>	
Connectors	Checked for cuts	1	
Connectors	Oncored for date		
Instrument Test	At surface level	1	
ilistrament rest	// Gundoo lovoi		

#### Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by:	BR	Anne Rutlidge
Calibration date:	29/11/2013	
Next calibration due:	28/01/2014	



	1.11.4	1	5 00.1
Project Name :	Liddell	Project Staff :	J. GIRVIN
Project No :	0224198	Date :	29/11/13
Photo-ionisation Detec	etor		(Fri.)
Make/Model No:	Mini Roe 3000		
Serial Number:	592 -00   272		
Calibration Gas			
Calibration Gas:	100 ppm IsoSutylene.		
PID Calibration			
Zero Calibration			
PID Reading:	0.0.		
Span Calibration		: •	
Desired PID Reading:	100.0		
Actual PID Reading:	100.1		
Certification The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GIRUIN		
Signature:	Misin	Date:	27/11/13



Project Name :	Liddell	Project Staff: Josh G.
Project No :	0224198	Date: 30/11/13
Photo-ionisation Dete	ctor	Sat.
Make/Model No: Serial Number:	MniRae 3000 592-001272	]
Calibration Gas		80
Calibration Gas:	IsoSutylene 100.	
PID Calibration		
Zero Calibration		
PID Reading:	0.0	
Span Calibration		
Desired PID Reading:	100.0	1
Actual PID Reading:	1001	
Certification		
The above detector has bee	n calibrated in accordance with the	e manufacturers specifications.
Checked By:	J. GIRVIN	
Signature:	This	Date: 30/11/13
		2



Project Name :	Symphony-Liddell	Project Staff :	J. GRVIN
Project No :	0224198	Date :	02/12/13
Photo-ionisation Detec	ctor		Mon
Make/Model No: Serial Number:	MiniRae 3000. 592-001272		
Calibration Gas			
Calibration Gas:	Isobutylene 100	]	
PID Calibration			
Zero Calibration			
PID Reading:	0.0	]	
Span Calibration	77	1	
Desired PID Reading:	100.0		
Actual PID Reading:	99.9	]	
Certification The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GIRUN (+ HAMEH	c.).	
Signature:	Allin	Date:	02/12/13.



Project Name :	Symphony-Anthere	Project Staff :	J. GRVIN
Project No :	0224193	Date:	03/12/13
Photo-ionisation Dete	ctor		Tues.
Make/Model No:	MhiRae 3000	ĺ	
Serial Number:	592 - 00 1272	J	
Calibration Gas			
Calibration Gas:	150 butylene 100	]	
PID Calibration			
Zero Calibration			
PID Reading:	0:0		
Span Calibration			
Desired PID Reading:	[00.0		
Actual PID Reading:	99.8		
Certification			
The above detector has been	n calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUIN		
Signature:	90/1:-	Date:	03/12/13 09:30



Project Name:

Project No:

#### Environmental Resources Management Australia Pty Ltd

0224/**98** 

(1:doles)

Date:

Project Staff: Sean Penza

P	חו	Cal	lihrs	tion	Certificati	۵
Г.	"	vai	BUIC	IUUII	Cerunican	=

Photo-ionisation Detector					
Make/Model No:	PhoCheck Tilger				
Serial Number:	PhoCheck Tiger T-105517				
Calibration Gas					
Calibration Gas:	Isobutytene				
PID Calibration					
Zero Calibration					
PID Reading:	0.0				
Span Calibration		ı			
Desired PID Reading:	100.0				
Actual PID Reading:	[00.1				
Certification					
The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.		
Checked By:	Sean Penza				
Signature:	le_0	Date:	3/12/13		



Project Name :	Symphony-Anthere Project Staff: J. GYRVIN
Project No :	022419 Date: 04/12/13
Photo-ionisation Detec	tor Weds.
Make/Model No: Serial Number:	MiniRae 3000 592-001272
Calibration Gas	
Calibration Gas:	1sobroglere 100
PID Calibration	
Zero Calibration	
PID Reading:	010
Span Calibration  Desired PID Reading:  Actual PID Reading:	100+0 99.9 OK
Certification The above detector has been	calibrated in accordance with the manufacturers specifications.
Checked By:	J. GIRVIN
Signature:	The Date: 04/12/13



**Project Name:** 

# Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

Project Staff: Sean Penza

Project No:	0224188	Date :	4/12/13
Photo-ionisation Dete	ctor		
Make/Model No:	PhoCheck Tiger		
Serial Number:	T-105517		
Calibration Gas			
Calibration Gas:	Isolatylene		
PID Calibration			
Zero Calibration			
PID Reading:	6.0		
Span Calibration		<b>–</b>	
Desired PID Reading:	100.0	_	
Actual PID Reading:	(O). (D)		
<b>Certification</b> The above detector has been	calibrated in accordance with th	e manufacturers s	pecifications.
		a.a.a.a.a.a.a.	1
Checked By:	Sean Renza		
	10) 15	Date:	4/12/13



Project Name :	Anthere Coal Unloader	Project Staff :	J. GRUN
Project No :	0224193\$	Date :	05/12/13
Photo-ionisation Detec	tor		Thurs,
Make/Model No: Serial Number:	MiniRae 3000 592-001272		
Calibration Gas			
Calibration Gas:	Isobrtylene 100		
PID Calibration			
Zero Calibration			
PID Reading:	0,0		
Span Calibration  Desired PID Reading:  Actual PID Reading:	100 0 99.4		
Certification The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUIN		
Signature:	Thin	Date:	05/12/13



**Project Name:** 

#### Environmental Resources Management Australia Pty Ltd

רתום	ralih	ration	Certifi	へっきへ
	Valla	GHUH	CELLIII	Laic

Project No :	0274188	Date :	5/12/13
Photo-ionisation Detec	ctor		, ,
Make/Model No:	Pho Check Tiges		
Serial Number:	T-105517		
Calibration Gas			
Calibration Gas:	Isobetylene		
PID Calibration			
Zero Calibration		•	
PID Reading:	0.0	]	
Span Calibration		1	
Desired PID Reading:	[OO. O		
Actual PID Reading:	100.2	]	
Certification			
The above detector has been	calibrated in accordance with the	manufacturers s	pecifications.
Checked By:	Sean Penza		
Signature:	and	Date:	5/12/13

Symphony (lidell) Project Staff: Sean Penza



Signature:

### Environmental Resources Management Australia Pty Ltd

Project Staff : T.A Symphony Project Name: 2.12.13/ Date: Project No: 0224198 3.12-13/ Photo-ionisation Detector 4-12.13/ PhoCheck Tiger 5.12.13 Make/Model No: 6.12.13 Serial Number: Calibration Gas Iso Calibration Gas: PID Calibration Zero Calibration PID Reading: **Span Calibration Desired PID Reading:** Actual PID Reading: Certification The above detector has been calibrated in accordance with the manufacturers specifications. ARMANT Checked By:

6.12.13

Date:



Project Name :

# Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

Project Staff: Sean Penza

Project No :	0229198	Date :	6/12/13
Photo-ionisation Dete	ector		<i>V</i> •
Make/Model No: Serial Number:	PhoCheck Tiger T-19517	]	
Calibration Gas			
Calibration Gas:	Isobutylene		
PID Calibration			
Zero Calibration			
PID Reading:	0,0	]	
Span Calibration  Desired PID Reading:  Actual PID Reading:	100.0	]	
Certification The above detector has bee Checked By:	n calibrated in accordance with the	: manufacturers s	pecifications.
Signature:		Date:	6/12/13



Project Name:

Project No:

## Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

roject Staff: J. GRVN

Photo-ionisation Detec	tor	Mon.
Make/Model No:	MiniRae 3000	
Serial Number:	SN: 592-001272	
Calibration Gas		
Calibration Gas:	Isobutylene 100.	
PID Calibration		
Zero Calibration		
PID Reading:	0.2 -> 0.0 after 12 cal.	(a)
Span Calibration		
Desired PID Reading:	100.0	
Actual PID Reading:	99.8	
Certification The above detector has been	calibrated in accordance with the manufacturers sp	ecifications.
Checked By:	J. GRVIN	
Signature:	Date:	09/12/13.

0224198.

Date :



Project Name :	By mpluny - Widdell Project Staff: J. GRVIN	
Project No :	6224198 Date: 10/12/13	
Photo-ionisation L	Detector Tues.	
Make/Model No:	Mini Rae 3000	
Serial Number:	592-001272	
Calibration Gas		
Calibration Gas:	150 butylene 100	
PID Calibration		
Zero Calibration		
PID Reading:	010	
Span Calibration		
Desired PID Reading:	100.0	3
Actual PID Reading:	100.2	
Certification		
The above detector has	s been calibrated in accordance with the manufacturers specifications.	
Checked By:	J. GIRVIN	
Signature:	77/60 Date: 10/12/13	



Project Name :	Lidell	Project Staff :	J. GRUIN
Project No :	0224198	Date :	12/12/13
Photo-ionisation Detec	ctor	(	NB- no samples taken 11/12/13 - no ad shoet).
Make/Model No: Serial Number:	MiniRae 3000 592-001272	]	11/12/13 - no ou shoeps.
Calibration Gas			
Calibration Gas:	Isosuffere Loo.	]	
PID Calibration			
Zero Calibration			
PID Reading:	0,2 > 0,0 after rec	il.	
Span Calibration		1	
Desired PID Reading:	100'0		
Actual PID Reading:	100.2	J	
<b>Certification</b> The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUIN	3.	
Signature:	Tollin	Date:	12/12/13



Project Name :	Liddell	Project Staff	J. GRUIN
Project No :	0224198	Date :	13/12/13
Photo-ionisation D	Detector		(Fn.)
	4		

Ca	libra	atio	no	285

Make/Model No: Serial Number:

Calibration Gas:

Tobotylere 100.

PID Calibration

Zero Calibration

PID Reading:

0.1 > 0.0 after recol.

**Span Calibration** 

Desired PID Reading:

100.0

Actual PID Reading:

eading: 99.

#### Certification

The above detector has been calibrated in accordance with the manufacturers specifications.

Checked By:	J. GRUN	
The state of the s	4	

Signature:	Mile	Date:	13/12/13
------------	------	-------	----------



# Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

Project Name :	Symphony - Liddell	Project Staff :	J. GIRVIN
Project No :	0224198	Date :	16/12/13.
Photo-ionisation Detec	for		(Mon.).
Make/Model No: Serial Number:	MiniRae 3000 592-001272	* *	
Calibration Gas			
Calibration Gas:	Isolutylene 100		
PID Calibration			
Zero Calibration			
PID Reading:	01 -> 6.0 after 10-ca	1	
Span Calibration	WHO TE CO		
Desired PID Reading:	100.0		
Actual PID Reading:	99.4		
		ar.	
Certification			
	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUIN		
Signature:	Main	Date:	16/12/13.



Project Name:

# Environmental Resources Management Australia Pty Ltd PID Calibration Certificate

Project Staff : J. GIRWN

Project No :	0224190	Date:	11/12/13
Photo-ionisation Detec	tor		(Tues)
Make/Model No: Serial Number:	MiniRae 3000 592-001272.		
Calibration Gas			
Calibration Gas:	Isobutylene 100.		
PID Calibration			
Zero Calibration			
PID Reading:	0:1 -70:0 after recal.		
Span Calibration	after recon.		
Desired PID Reading:	100.0		
Actual PID Reading:	99.6		
Certification			
The above detector has been	calibrated in accordance with the	manufacturers sp	ecifications.
Checked By:	J. GRUIN		
Signature:	705in	Date:	17/12/13.



M	ell Den	relopme	nt			Job Ir	nformatio	on					
Date: 2	5/4/13	3		Y			Time:	ar	rive	15:30 depart			
Project N	ame: no	net s	Sympho	MU			Projec	Project Number: 0224/98					
Site Loca	tion: Li	ldell	Orleio	7			Sampler: N.H						
Well ID:	LA-M	W01					Weather: overcast light rain						
TATE						Equ	ipment						
Water qua	ality equipn	nent descri	ption:	NA			Int	erface	e prot	be number: SYD 3954			
Purging e (please ci	equipment: irlce)		er type: p type:	Plast Peris	200	Teflon		Mic	ro-pi	ourge Amazon Other:			
	TT SIT	1757		We	II Gaugin	g and Pu	ırae Volu	ıme (	Calc	ulations			
Casing Di	iameter		25mm	50mm	100mm	125mm	150mm	T	)mm	3	,		
Conversion	on Factor		0.49	1.96	7.85	12.3	17.7	31.	225	49.1 70.7 V = volume in litres			
intal Well Depth (-) Water level (=) Water Column  (volume in factor L/m)  (vo										P = 3.14159 r = radius in cm h = height of water column i	n cm		
			Wate	r Column	(x	) Convers	ion Factor	(=)	Litres	s per 1 Well Volume			
Depth to product: m Product Thickness: m Verified with Bailer: T N													
1986 - 1986 - 1987 - 1		./		1 0000000		ater Qua	lity Para	mete	rs				
	purge time	Sec. 50.5	F-		ng purge ti	-83	52 S			Pump Intake Depth (mbtoc):			
Litres	Time	PH	Temp		ond S/cm	DO mg/L	Redox mV		vdowr 0cm				
12	15:50									Drawn when bid linged dry after 12	١.		
17	15:55									Drown furbid lurged dry after another in Allowed to recharge brown lurged dry of brown how and have the promy person for method of the promy lurged dry of	FL.		
20	14:00									brown becoming releaser Purged dry of	ter a		
23	14:05									brandere slightly cloudy to clear si	igeo		
)—													
			_	_									
	٠,	pH, temp, c	ond readings	not neces	sary if well i	s purged dry	Exam	ple C	omm	nents: clear / slightly cloudy / turbid / very turbid / no od slight odour / odour / strong odour / drawdown d			
	0.70	otal Well \					Sample	a timo	16	Containers used	эриг		
_	F	ctual amoun low rate nL/minute	t of water pri	ior to samp		eld parame		Ī	Υ	N NA Was the well dry purged? Y N			
						Field 0	QC Chec	ks					
Was pre-c	deaned sar	mplina eau	ipment use	d for thes	e samples				V				
24000		500 m (8)	ipment pro		95 11 294592		ation?	1901 70	, ,				
			ent conduct		Jorga IIOII	. Johnammi	_		971 L	VA.			
		(85 - 105	Is at time of		in?		+	ette 1		NA NA			
)			ered prior to				-	(19)	C	NA NA			
	pio ioi illeta	alo nela mile	nou prior to	- hi caci ve	41101101		- 1	10 10	. 114	M 2.1			
) I Inlinato	sample col	llected?					1	YI	V	Duplicate sample ID	200		



EKIVI													
1	Nell	Der	rlopme	int	Job Ir	nformatio	on						
Date:	26/11/1	3	1			Time:	arrive	14:30	depart				
Project Na	ame: (	yect :	Symphon	14		Projec	Project Number: 0224198						
Site Locat	tion: L	doll	0 1	1		Samp	Sampler: N.H						
Well ID:	LA-1	MOZ	9			Weath	Weather: Finc						
					Equ	uipment							
Water qua	ality equip	ment desc	ription: N	A		Int	erface probe	e number: 5	4D 3954				
Purging e	quipment	Bai	ler type:	Plastic	Teflon								
(please ci			mp type:	Peristaltic	Subme		Micro-pu	rge Amaz	zon Other:				
			np type.			_			0.5000.00				
	Advisorability of Table Union			744-74-00	ging and Pu			Total Transport	Values of water in wall (V				
Casing Di				50mm 100m		150mm	200mm		Volume of water in well / V = Pr x r x h				
(volume in fa	ctor L/m)		0.49	7.8		17.7	31.4	49.1 70	P = 3.14159				
Total Well	Total Well Depth (-) Water level (=) Water Column r = radius in cm h = height of water column in cm												
			Water	Column SV r		sion Factor		per 1 Well Volu	me				
Y N													
Depth to p	oroduct: _	_	m	Product Inic	ckness:	m_	ven	ned with baller.					
					Water Qua	lity Para	meters						
Beginning	purge tin	ne: 14:4	-0	Ending purg	ge time:			Pump Intake Depth (mbtoc):					
Litres	Time	PH	I Temp ∘	C Cond mS/cm	DO mg/L	Redox Drawdown Comments mV <10cm							
5	14:43					35753		brown, tur	bid. No odar Purged dry Allowed to recharge. 1010. No odar Ringed dry other 22. Allowed to recharge				
117	14:50						76	brown, tu	rold No odar Kraed dry				
8	14.55							bagun to	wibid No odow Purged dry				
	1175				- 1			1217 47.51	00				
									.W:				
					e e								
		*pH, temp,	cond readings i	not necessary if v	vell is purged dr	Exam	nple Comme		ntly cloudy / turbid / very turbid / no odour / ir / odour / strong odour / drawdown depth				
		Total Wel				Sampl	e time		Containers used				
		Actual amo	unt of water prio	8 150		200							
		mL/minute		D	id field param	eters stabi	lise? Y	N (NA) W	as the well dry purged?				
					Field	QC Chec	ks						
Was pre-	cleaned s	ampling ed	quipment used	for these sam	ples?		YN						
Was pre-	cleaning s	ampling e	quipment prop	erly protected	from contamir	nation?	Y N	_					
Was docu	umentatio	n of equipr	nent conducte	ed?			Y N N	A					
Were air	bubbles p	resent in v	ials at time of	collection?			Y N N	A					
Was sam	ple for me	etals field f	Itered prior to	preservations?	)		Y N N	A					
Duplicate	sample o	collected?					Y N	Duplicate s	sample ID				
Rinsate b	lank colle	cted?					YN	Rinsate bla	ank ID				



TATATAT.														
W	eu D	relope	ent			Job I	nformatio	on						
Date:	26/11/1	3				T-11 41	Time:	Time: arrive (5:20 depart 16:10						
Project Na	ame: 🛔	MARKE	Project	Sym	phon	y	Projec	Project Number: 622498						
Site Locat	tion:	ddell	V	0			Samp	Sampler: N.H						
Well ID:	LA-M	WOB					Weatl	Weather: Fine						
						Eq	uipment							
Water qua	ality equipn	nent descri	ption:	JA			Int	erface pro	be number:	SYD S	3954			
Purging e	quipment:	Baile	r type:	Plast	ic	Teflon					F:			
(please ci			p type:	Peris	taltic	Subm	ersible	Micro-p	ourge	Amazon	Other:			
				Wo	II Gaug	ing and P	urge Volu	ıme Calı	culations					
Casing Di	iomotor		25mm	50mm	100mr			200mm		300mm	Volume of water in well / V			
Casing Di			0.49	f1.96)	7.85		17.7	31.4	49.1	70.7	= Prxrxh V = volume in litres			
(volume in fa Total Well	ctor L/m)	(-) Wat	er level			r Column	1111	01.4	40.1	10.7	P = 3.14159 r = radius in cm			
D.	185	m (-)	5.960	m (	=)L	+.225	_m				h = height of water column in cm			
			Wate	r Column	m	(x) Conver	sion Factor	r (=) Litre (=)	es per 1 Wel	l Volume L				
Depth to p	araduct:	_	dated			kness:			erified with E	Bailer: Y	N			
Deptil to p	Jioddot							on the bullet cover.						
75 NO 32	32	1/.				Water Qua	ality Para	meters						
	purge time				ng purge	1	<b>D</b> 1	1		S S	oth (mbtoc):			
Litres	Time	PH	Temp °C Cond DO mS/cm mg/L				Redox mV	<10cm	500 H	comments	The same of the sa			
15	15:50								Brown	dry a	the becoming clear after 12th flower to rech dy No odour Roged dry			
20	15:55								brogger	to class	dy No odon. Ringed dry			
25	16:00								Cloud	dy. Purge	d dry after another 5c.			
28	16:05								Cloude	y . Yuvaca	day after another 32.			
									100010	31.9	~~ <u>`</u>			
				-										
							1-			/ aliability ala	under / Amabilat Louise Amabilat Louis and asset			
		pH, temp, c	ond readings	s not neces	sary if we	ell is purged d	ry Exam	npie Comi	nents: clear slight	t odour / odo	oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth			
29		otal Well \	/olume	ior to same	dina		Sampl	e time _	-	Conta	ainers used			
	F	low rate	it of water pr	ior to samp	8	field param		T <sub>x</sub>	N NA	Mas the	e well dry purged? N			
	n	nL/minute			DIC	n tield param	leters stabl	lise!		vvas uie	e well dry purged?			
						Field	QC Chec	ks						
Was pre-	cleaned sa	mpling equ	ipment use	ed for the	se samp	les?		YN						
Was pre-	cleaning sa	mpling equ	ipment pro	perly pro	tected fr	rom contami	nation?	YN						
Was docu	umentation	of equipme	ent conduc	ted?			]	YN	NA					
Were air l	bubbles pre	esent in via	Is at time of	of collection	n?				NA					
Was sam	ple for met	als field filt	ered prior t	o preserv	ations?			YN	NA					
Duplicate	sample co	llected?						YN		cate sampl				
Rinsate b	lank collec	ted?						YN	Rinsa	ite blank ID	)			

Groundwater - well sampling data form.odr

11:0





						Job Ir	nformatio	n			T.				
Date: 17/12/2013									Time: arrive © 730 depart 08/0						
Project Na	10	mph					Projec	Project Number:							
Site Local	C 2	ddell					Samp	Sampler: San Campbell							
Well ID:	LB_M	WOI					Weath	Weather: Fine							
		Marie .	1916			Equ	uipment								
Water qua	ality equipme	nt descrip	otion:	_			Inte	erfac	e pr	obe numb	er: 122	009747-1			
Purging e (please ci		Amazon	Other:												
				Wel	I Gaugin	g and Pu	ırge Volu	me	Cal	culation	S				
Casing Di	ameter		25mm	50mm	100mm	125mm	150mm	20	0mn	250mi	m 300mm	Volume of water in well / V			
Conversio			0.49	1.96	7.85	12.3	17.7	31	1.4	49.1	70.7	= Prxrxh V = volume in litres			
	Total Well Depth (-) Water level (=) Water Column m (=) -3.2 m											P = 3.14159 r = radius in cm h = height of water column in cm			
Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  (x) Conversion Factor (=) Litres per 1 Well Volume  (x) Conversion Factor (=) Litres per 1 Well Volume  (x) Conversion Factor (=) Litres per 1 Well Volume															
Depth to product: m Product Thickness: m Verified with Bailer: Y															
Water Quality Parameters															
Beginning	purge time:	073	36	Endir		me: O	22 2		6.20	Pun	np Intake Dep	oth (mbtoc):			
Litres	Time	PH	Temp	∘c c	ond	DO mg/L	Redox mV		wdov		Comments				
							1 85/8		1	G	Grey turbid, no alour				
											)/	pro witter			
										ive	lary	at ~ 12L (0740)			
										Lu		10 minutes			
										13.	esih i	recharge (0750)			
							light	OV	P.			ecoming (lever-20			
		/					1)	J	J		Al volu	7			
	/									Ops	t- args	110			
										10	Ler	evel = 9.160			
										1~	ell d	Poth = 11.816			
	*pi	L H, temp, co	and readings	s not neces	sary if well i	s purged dry	Exam	ple (	Comi	ments: cle	ar / slightly clo	oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth			
114		tal Well V			652		Sample	fime	е			ainers used			
E	Flo	uai amoun o <b>w rate</b> /minute	t of water pr	ior to samp	8	eld parame			Y	N NA	1	e well dry purged? Y(N)			
							QC Checl		0.0						
Mos non	looped ser	oling est	nment	d for the	o comple-			1	NI I		EUCHTAIRYE.				
(579)	leaned sam	7 2 4 1	0		375			-	N						
	leaning sam				ected from	contamin				NA					
	mentation of				-0				_	NA NA					
	ubbles pres									NA					
95 2000 - 200 - 100	ole for metals		rea prior to	o preserva	tions?					NA D	.n	- ID			
	sample colle						-	2	N	2022	olicate sampl				
Rinsate bl	ank collected	d?	4				- 9	Y	N	Rin	sate blank ID				



WAY REVELOPMENT' Job Information											
Date:	912	13				Time: arrive 2:30pm depart 3:40pm					
Project N	ame: 50	MPHON	M			Proje	ct Number:	0224	1198		
Site Loca	tion: Lu	DOELL	٠.			Samp	oler: M				
Well ID:	LB-1	1603				Weati	her: Mot	da	EPR		
					Equ	uipment					
Water qua	ality equipn	nent descri	otion: No F	FIMU U	6.443.		erface prob	e number:	Ceol	rech. 1P 30m 4261.	
Purging e (please ci	equipment: irlce)		r type: p type:	Plastic Peristaltic	Teflon	21	Micro-pu	rge /	Amazon	Other:	
Well Gauging and Purge Volume Calculations											
Casing Di	iameter		25mm 5	0mm \ 100m	m 125mm	150mm	200mm	250mm	300mm	Volume of water in well / V	
Conversion (volume in fa			0.49	1.96 7.85	5 12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159	
	Depth	m (-) <u> </u>	Water C	(=) Wate m (=) Wolumn olumn Product Thic	ion Factor	77777777	per 1 Well	L	r = radius in cm h = height of water column in cm		
			STANT CHENC		Water Qual	lity Para	meters		2 7 1		
Beginning	purge time	a:		Ending purg		ii, i ai a	c.to.ro	Pump I	Pump Intake Depth (mbtoc):		
Litres	Time	PH	Temp °C		DO mg/L	Redox mV	Redox Drawdown Comments				
4	2:50p	4		- morem	9/2			gay	touts	rd-h-	
3	2.55							200	id ne	1 4	
5	3:02pm							(ap	ic he	day.	
	7.44							well	had	inchanged	
								box	k to	Sul mon to	
		-						So	gon	· .	
)		-							100.0		
		1									
						1_		L.		V 11 9000 7 9000 V 1	
		pH, temp, co	nd readings no	t necessary if w	ell is purged dry	Exam	ple Comme	nts: clear / slight	slightly clo odour / odo	udy / turbid / very turbid / no odour / our / strong odour / drawdown depth	
		otal Well V				Sample	e time	-	Conta	ainers used	
	F	low rate	of water prior t	X. 3000000 FRANCES	d field parame	25 m		N NA	_	well dry purged?	
	m	L/minute		Dic	neiu parame	ters stabil	ise!		vvas trie	well dry purged?	
					Field C	C Chec	ks				
Was pre-c	leaned san	npling equi	pment used fo	or these samp	les?	1	YN				
Was pre-c	Was pre-cleaning sampling equipment properly protected from contamination?										
Was docu	mentation of	of equipme	nt conducted?	?		1	Y N NA				
Were air b	oubbles pre	sent in vial	s at time of co	ollection?		1	Y N NA				
			red prior to pr	eservations?			Y N NA				
Duplicate	sample col	lected?					N	Duplica	ate sample	e ID	
Rinsate bl	ank collecte	ed?				-	TIN	Rinsate	e blank ID		



STEEL STEEL					Job II	nformatio	n					
Date:	17/	2/20	13			Time:	Time: arrive 0850 depart 0930					
Project Na		ymph				Projec	t Numb	er:				
Site Locat	ion: Li d	ldell'				Samp	ler:	Sam	C	ampbell		
Well ID:	LB-	MWO	5			Weath	Weather: Fine + Sunny					
					Eq	uipment				<b>经验的</b>		
Water qua	lity equipm	ent description	on:	_		Inte	erface p	robe number	122	009 747-1		
Purging ed		Bailer t	ype:	Plastic	Teflon				ra .			
West and the second		Pump t	ype:	Peristaltic	Submi	ersible	Micro	-purge	Amazon	Other:		
Well Gauging and Purge Volume Calculations												
Casing Dia	ameter	2	25mm / 50	mm 100m	nm 125mm	150mm	200m	m 250mm	300mm	Volume of water in well / V		
Conversio			0.49 1.	96 7.85	5 12.3	17.7	31.4	49.1	70.7	V = volume in litres		
Total Well	Depth	(-) Water		(=) Wate	er Column			*		P = 3.14159 r = radius in cm		
4.98	34	m (-)	Water Co		(x) Convers		(=) Lif	res ner 1 We	I Volume	h = height of water column in cm		
			~ 3	·8n	n (x)	96	(=)	~ 7.6	L			
Depth to p	duct:	n	n	Product Thic	kness:	m		Verified with E	Bailer: Y	N		
<b>受</b> 居性效理					Water Qua	lity Parar	neters					
Beginning	purge time	085	5	Ending purg	ge time:	COLUMN TO A STREET OF THE STREET			Intake Dep	oth (mbtoc):		
Litres	Time	PH	Temp ∘C	Cond mS/cm	DO mg/L	Redox mV	dox Drawdown Comments					
				mozem	mg/L	mv	1100	silh	hotto	n, no adeir		
						/		110	14	our Han, moodar, turbe		
								we		~ 304		
									ait J	10 minutes (0900)		
	13							Beg		charge 0910.		
					-6	7		TO		lune purged = ~554		
								101	71 00	ford porjoin 15		
								Post	- Purce	gaveine		
								*101	a lla	Jaging.		
								total	well	depth = 5.452		
	*,	H, temp, cond	readings not	necessary if w	rell is purged dr	Exam	ple Con	ments: clear	/ slightly clo	oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth		
~		tal Well Volution		sampling		Sample	time .		Conta	aipers used		
-	FI	ow rate _/minute	, , , , , , , , , , , , , , , , , , ,	=	d field parame	eters stabili	se? Y	N NA	Was the	well dry purged? Y N		
	SI/FTX				Field (	QC Check	(S					
Was pre-cl	eaned sam	pling equipm	nent used for	these samp	IIII James Andrews	A STATE OF THE STA	Y N		and Add to			
- 27				25	rom contamin	-	YN		3			
75	48748	f equipment					YN	NA				
		ent in vials a		leetion?		-	Y N	NA				
		s field filtered				-	Y N	NA				
	sample coll		P Pro	on a mondate de la company		-	Y N		ate sample	e ID		
Rinsate bla						-	YN		te blank ID			



					30.00	nformatio	on			1 200			
Date:	Vich	a ha	1	7-12	- 1	3	Time:	Time: arrive 1050 depart 1120					
Project Na	me: S	57~	phon				Projec	ct Numl	ber:				
Site Locati	on:	ddell	4	J			Samp	Sampler: San Canpbell					
Well ID:	LB.	-MW	106				Weath	Weather: Fine / slightly overcast					
						Eq	uipment						
Water qua	lity equipme	nt descri	otion:				Int	erface	probe	number:	Solint	55 191	
Purging ed		Baile	rtype:	Plasti	С	Teflon							
(please cir	Ice)	Pum	p type:	Perist	altic	Subm	ersible	Micr	o-pur	ge /	Amazon	Other:	
Well Gauging and Purge Volume Calculations												NUMBER OF THE PROPERTY OF THE	
Casing Dia	meter		25mm	50mm	100mm		The state of the s	200n		250mm	300mm	Volume of water in well / V	
Conversion	n Factor	3	0.49	1.96	7.85	12.3	17.7	31.4	100000	49.1	70.7	= Prxrxh V = volume in litres	
(volume in fac	naniani manda	(-) Wat			) Water	. errosea	1.7.65	01.		10.1	,	P = 3.14159	
4.40	<u>72                                    </u>	(-) _3	-761	m (=	)_~	0.7	m	8				r = radius in cm h = height of water column in cm	
			Water	r Column	7 m	(x) Conver	sion Factor	(=) Li	itres p	oer 1 Well	Volume		
	1									ied with B	l v		
Depth to p	oduct:		_ m	Produ	ict i nickr	ness:	m		veriti	ed with B	aller:		
					٧	Vater Qua	lity Para	meters	3				
Beginning	purge time:	x	- 30	Endir	ng purge	time:				Pump	Intake Dep	oth (mbtoc):	
Litres	Time	PH	Temp		ond 5/cm	DO mg/L	Redox mV	Drawd <10		С	omments		
										no	odov	- brown, tursid	
										well	dry	at ~ 0.5L	
										wa	it to	minutes (1058)	
										1			
				/						13-eq	n rec	harge (1108)	
			/							0			
										Tota	l vol	une=~2.5L-weld	
		/								post	- Pura	e garging:	
		7								Wa	, ,	evel = 4.385	
										W	ell de	11th = 4.402	
,	*pl	Н, temp, сс	and readings	not necess	sary if well	is purged dr	Exam	ple Co	mmer	nts: clear / slight	slightly clo	our / strong odour / drawdown depth	
-		al Well V	olume of water pri	or to compl	ing		Sample	lime			_ Conta	airers used	
		w rate	or water pri	or to sampl	3000	e i e	1	_	v   N	LINA			
	mL	/minute			Did f	ield param	eters stabil	ise?	Y   N	NA NA	Was the	well dry purged? Y	
						Field	QC Checl	ks					
Was pre-cle	eaned samp	oling equi	pment used	d for these	e sample	s?		Y N					
Was pre-cle	perly prote	ected fro	m contamir	nation?	Y N		20						
Was docun	nentation of	equipme	nt conducte	ed?				YN	NA				
Were air bu	ubbles prese	ent in vial	s at time of	collection	1?			YN	NA				
Was sampl	e for metals	field filte	red prior to	preserva	tions?			Y N	NA				
Duplicate s	ample colle	cted?						Y N		Duplic	ate sample	e ID	
		_								-			



	1 2				Job	Informati	on					
Date:	17	1-12	- 17			Time	Time: arrive 1128 depart 1205					
Project Na	ame: 6	in oho	ony			Proje	ct Nun	nber:			7.00	
Site Local	tion:	idd P	117			Sam	oler:		Sam	Car	npbell	
Well ID:	LB-1	NWO	8			Weat	her:	F	ne +		V	
						quipment						
Water qua	ality equipme	nt descrip	otion:	~	N ISCOVER			probe	e number:	Soliv	et 55-191	
Purging e	quipment:	Baile	r type:	Plastic	Tefle							
(please ci	rlce)	Pump	type:	Peristaltio	Sub	mersible	Mic	ro-pui	rge /	Amazon	Other:	
				Well Ga	uging and	Purge Vol	ume (	alcu	lations	Charles II	ZA SESENIA S	
Casing Di	ameter		25mm		0mm   125m		1,0000000000	mm	250mm	300mm	Volume of water in well / V	
Conversion			0.49	1.96 7	.85 12.3	17.7	31.	4	49.1	70.7	= Pr x r x h V = volume in litres	
Total Well	Depth	(-) Wate	er level	(=) W	ater Column					<u> </u>	P = 3.14159 r = radius in cm	
10.6	65m	(-) _5	.021	(=) W m (=)	~ 5.6	m	s (=\ )	itros	aar 1 \\/all	Volume	h = height of water column in cm	
			vvater	r Column ーから	_ m (x)	1.96	(=)	~	11.Z	L		
Depth to p	oroduct:			1	nickness:				ied with B	V	(N)	
STREET				XXAERY BALL		uality Para	mete	rs				
Beginning	purge time:	113	CONTRACTOR OF THE PARTY OF THE	Ending pu	and the second second	1155	Service,	9	Pump Intake Depth (mbtoc):			
Litres	Time	PH	Temp	∘C Cond	DO	Redox	Draw	down		omments	and Markenson An	
				mS/cm	mg/L	mV	<10	)cm	4.0	//		
-									100	dour	durk grey, turbid	
							-		100al	VOLUN	ne priged = 80 L	
							1		Post.	Quran	Only land	
		-					$\vdash$		10)1	Torge	gauging!	
		/				1			LAG	her le	evel = 5.955	
									VV	14	(12) 11)	
							$\vdash$		well	deoth	=10.695	
										4411	10 01	
	*pl	H, temp, co	nd readings	not necessary i	f well is purged	dry Exam	nple Co	ommei			udy / turbid / very turbid / no odour / our / strong odour / drawdown depth	
		al Well Ve		or to sampling		Sampl	e time			_ Conta	ainers used	
-	Flo	w rate /minute	or mater prin		Did field para	meters stabi	lise?	Y 1	NA NA	- Was the	well dry purged? Y N	
					Field	d QC Chec	ks	371/2	a far ii kii a			
Was pre-c	leaned same	oling equit	oment used	d for these sar			YN	1				
		8 8 6		perly protected	(2) W	nination?	Y N					
	mentation of	y way was i					YN	_				
	ubbles prese						Y N	A LOCKEN				
				preservations	5?	ŀ	Y N		-			
	sample colle			2		-	YN			ate sample	D	
1302	ank collected					-	Y N		Same to	e blank ID		



					Job li	nformatio	on		THE THAT				
Date:	7-12-	-13				Time:	arrive	1230	)	depart 1320			
Project N	lame:	Sym	phony			Projec	Project Number: 0224/48						
Site Loca	ation: Lic	dell	1			Samp	ler:	San	(am	phell			
Well ID:	LB-	MWI				Weath	ner:	Fine	+	Sunny			
					Eq	uipment				STATE OF THE STATE			
Water qu	ality equipme	ent descrip	otion:	_		Int	erface pr	obe number:	Solinsi	+ 55/9/			
Purging e (please c	equipment: irlce)		3,6	Plastic Peristaltic	Teflon		Micro-		Amazon	Other:			
				Well Gaugin	ng and Pu	urge Volu	ıme Cal	culations					
Casing D	iameter		25mm   50	mm ) 100mm	125mm	150mm	200mr	n 250mm	300mm	Volume of water in well / V			
Conversion (volume in fa	on Factor actor L/m)		0.49	.96 7.85	12.3	17.7	31.4	49.1					
Total Well Depth (-) Water level (=) Water Column r = radius in cm h = height of water column in Water Column (x) Conversion Factor (=) Litres per 1 Well Volume $-1/5$ m (x) $1/96$ (=) $-3$ L Depth to product: m Product Thickness: m Verified with Bailer: Y													
				V	Vater Qua	lity Parai	meters			<b>建筑规模得到</b>			
Beginning	g purge time:	120	+5	Ending purge	time: /	714	and the second	Pump	Intake Dep	oth (mbtoc):			
Litres	Time	PH	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawdo <10cr		omments				
							/-	ligh	+ brown	Itan, turbid, noodo			
								Ju	I well dry ~ 84 (1245125				
										Iminutes &			
										echange (1300)			
								ive	11 dry	~9L, weit to minutes			
								Begin	Mehanje	o (1311) well dry.			
								Total	1 volv	me = ~9L			
								DOS	purg	it garping:			
								west	er, K	ve/28:003			
								l we	11 dept	4= 8.795			
	*pl	H, temp, co.	nd readings not	necessary if well	is purged dry	Exam	ple Com			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth			
-		tal Well Vo	olume of water prior to	sampling		Sample	e time _	_	_ Conta	ainers used			
-	Flo	w rate /minute	or water prior to		ield parame	eters stabili	ise? Y	N NA	Was the	e well dry purged?			
					Field C	QC Check	ks						
Was pre-c	cleaned samp	oling equip	oment used fo	r these samples	s?		YN						
Nas pre-c	cleaning sam	pling equi	pment properl	y protected from	m contamin	ation?	YN			/			
Was docu	mentation of	equipmen	nt conducted?				YN	NA					
Were air b	oubbles prese	ent in vials	at time of co	llection?			YN	NA					
Was samp	ple for metals	field filter	red prior to pre	eservations?			YN	NA					
Ouplicate	sample colle	cted?					Y N	 Duplic	ate sample	e ID			
Dineate bl	lank collected	12				T <sub>S</sub>	y N	Pinent	e blank ID				



Job Information									
Date: 16/12/2.013	300 11110	Time: arrive 1430 depart 1535							
Project Name: Supplemental		Project Number: 0224/98							
Site Location:		Sampler: Sam (amphell							
Well ID: LB - MW 13		Weather: Fine + Sunny							
DF=711V13	Final								
War Pharitage I and the Control	Equi	pment 12.2 000 74.2							
Water quality equipment description:	755 S. 150 S. 15	Interface probe number: 122 009 747 - 1							
Purging equipment: Baijer type: (please cirlce) Pump type:	Plastic Teflon  Peristaltic Submers	sible Micro-purge Amazon Other:							
	Well Gauging and Pur	ge Volume Calculations							
Casing Diameter 25mm	50mm 100mm 125mm	150mm 200mm 250mm 300mm Volume of water in well / V							
Conversion Factor (volume in factor L/m) 0.98	1.96 7.85 31.4	49.1 70.7 125.7 196.3 = Prxrxh V = volume in litres							
Total Well Depth (-) Water level (=) Water lev	<u>► 1-4</u> m ter Column (x) Conversion Facto	P = 3.14159 r = radius in cm h = height of water column in cm r (=) Litres per 1 Well Volume							
	~1.4 m(x)	[ v [6:1]							
Depth to product: m	Product/Thickness:	_ m Verified with Bailer:							
	Water Qualit	y Parameters							
Beginning purge time: 1445	Ending purge time: 152	25							
	ond DO Redox Drawdow S/cm mg/L mV <10cm								
	- /	no odour							
		water: very turbid, brown, no odour							
		Dy ~8LJ - 1455							
		Time waited = 10 minuter -							
		Begin recharge: 1505							
		Slightly tursied, light brown, no odow							
		Time waited = 10 minutes, Dry ~ 112 = 1509							
	1 1 1 2	Degin recharge: 15/4. 18/19 purgal=-13 L							
	ALMAN D	Viging garging! water level 6.457							
		Example Comments: clear / slightly cloudy / turbid / very turbid / no odour /							
*pH, temp, cond reading	gs not necessary if well is purged dry	slight odour / odour / strong odour / drawdown depth							
Total Well Volume Actual amount of water p	orior to sampling	Sample time Containers used							
Flow rate mL/minute	Did field paramete	ers stabilise? Y N NA Was the well dry purged? Y N							
	Field Q0	Checks							
Was pre-cleaning sampling equipment us		YN							
Was pre-cleaning sampling equipment pr	0.000 MI (0.000								
Was documentation of equipment conduc		Y N NA							
Were hir bubbles present in vials at time		Y N NA							
aple for metals field filtered prior		Y N NA							
ample collected?		Y N Duplicate sample ID							
collected?		Y N Rinsate blank ID							



Rinsate blank collected?

#### **Groundwater - Well Sampling Data Form**

Job Inform	mation										
Date: 16/12/2013	Time: arrive   350 depart   426										
Project Name: Symphony	Project Number: 022 4198										
Site Location: Liddel	Sampler: Sam Campbell										
	Weather: Fine + Sunny										
Equipm	nent										
Water quality equipment description:	Interface probe number: (22 00 9 747 -)										
Purging equipment: Bailer type: Plastic Teflon (please cirlce) Pump type: Peristaltic Submersib	le Micro-purge Amazon Other:										
Well Gauging and Purge	Volume Calculations										
Casing Diameter 25mm 50mm 100mm 125mm 15	0mm 200mm 250mm 300mm Volume of water in well / V										
Conversion Factor	9.1 70.7 125.7 196.3 = Pr x r x h V = volume in litres P = 3.14159										
Total Well Depth (-) Water level (=) Water Column  S 785 m (-) 3.5 (12 m (=) 2.2 m  Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  2:2 m (x) 22 (=) 24:4 L											
Depth to product: m Product Thickness: n	n Verified with Bailer:										
Water Quality I	Parameters										
Beginning purge time: 1354 Ending purge time: 1417	,										
Litres Time PH Temp °C Cond DO Redox Drawdown mS/cm mg/L mV <10cm	Comments										
	silty bottom, no odour water: turbid, brown										
	Dry 25 L - 1358 no adov										
	Time waited = 10 minutes.										
	Begin recharge: 1408										
4 24.0	turbid, Ground, no odown										
	TOTAL PSTORM / TO CALL										
	Total amount purged = ~40 L										
	port of the second										
After ovigena	Garging: Well depth: 6.235 m										
	water level: well day.										
*pH, temp, cond readings not necessary if well is purged dry	Example Comments: clear / slightly cloudy / turbid / very turbid / no odour / slight odour / odour / strong odour / drawdown depth										
Total Well Volume Actual amount of water prior to sampling	ample time Containers used										
Flow rate mL/minute Did field parameters	stabilise? Y N NA Was the well dry purged? Y N										
Field QC C	Checks										
Was pre-cleaning sampling equipment used for these samples?	YN										
Was pre-cleaning sampling equipment properly protected from contamination	? Y N										
Was documentation of equipment conducted?	Y N NA										
Were air bubbles present in vials at time of collection?	Y N NA										
Was sample for metals field filtered prior to preservations?	Y N NA										
Duplicate sample collected?	Y N Duplicate sample ID										

Rinsate blank ID



1	Nell	Deire	lopme	ent		Job I	nformatio	on				
Date:	27 11	13	1				Time:	arri	ve	0:39	5	depart
Project N	lame: Pn	exect	Symp	phony			Projec	t Numb	er: O	224	198	
Site Loca		dell	0 1	10			Samp		VH			
Well ID:	LD_M	WO1					Weath	ner: 🛭	Fine	ك		
19.15			1-00-2	ERVI	HILL	Eq	uipment		Syd I	5,215	TITLE.	allowers and the second
Water qu	ality equipm	ent descri	ption: /	1/A -				erface p	orobe r	number:	SYD	3754
Purging e (please c	equipment: irlce)		er type: p type:	Plast	ic >	Teflon	ersible	Micro	o-purg	e i	Amazon	Other:
	Eliza			We	II Gaugin	g and P	urge Volu	ıme Ca	alcula	tions		201 200
Casing D	iameter		25mm	50mm	100mm	125mm	150mm	200m	nm 2	50mm	300mm	Volume of water in well / V
Conversion	on Factor actor L/m)		0.49	1.96	7.85	12.3	17.7	31.4		49.1	70.7	V = volume in litres P = 3.14159
94 Depth to	product:		Wate	er Column 1:965	(x m (x uct Thickne	) Conver	sion Factor			d with B	V	h = height of water column in cn
					W	ater Qua	lity Parar	neters				
Beginning	g purge time	10:0	48	Endi	ng purge ti	me: //	:05			Pump I	Intake Dep	th (mbtoc):
Litres	Time	PH	Temp		ond S/cm	DO mg/L	Redox mV	Drawd <10c	m		omments	0 1 0
325	10:50	V						-3	- C	Cloude	Allowe	adour lurged on after
4 5	10:55								(	Claudy	Allowed	gur. Purged dry after ar
5	11:05							1		Clouds	No ode	aw. ~11 more. Dry.
			-									
				-								
								- Ou				
	*/-	H, temp, co	and readings	s not neces	sary if well is	s purged dr	Exam	ple Con	nment			udy / turbid / very turbid / no odour / our / strong odour / drawdown depth
5	FI	tal Well V tual amount ow rate _/minute	<b>olume</b> t of water pr	ior to samp		eld parame	Sample eters stabili		. 1	D/A]		well dry purged? N
		-67-67				Field (	QC Check	(S				
Vas pre-d Vas docu	cleaned sam	npling equ f equipme	ipment pro	operly prot	ected from		nation?	Y N Y N Y N	NA NA			
1	bubbles pres ple for metal						-	Y N Y N	NA NA			
vas sain	hie ioi illeta	a nelu lille	rea buot to	o preserva	AUDITS!		1	III	INAI			
Junlicato	sample coll	acted?					H	Y N		Duplic	ate sample	a ID



EKIVI	1.11	0. /							
<u> </u>	Neu 1	Veril	sprient		Job Ir	nformation	AND THE PARTY OF T	0.07	depart 09:40
Date: Z	25 [11]	3 L	C 1.			Time:		08:25	depart 09:40
Project N Site Loca	1	16/11	Symphony	1			oler: N. H	0224198	
Well ID:	15	N 600	50.00			Weat	-		
well ib.	LUIP	1W02					1		
					Equ	uipment	20 10		
	ality equip		cription: NA			In	terface probe	e number: SYD	3954
Purging e	equipment: irlce)	Ва	iler type:	Plastic	Teflon				
200		Pu	mp type:	Peristaltic	Subme	ersible	Micro-pu	rge Amazon	Other:
				Well Gau	ging and Pu	irge Vol	ıme Calcu	lations	
Casing D	iameter		25mm 5	0mm 100n	nm 125mm	150mm	200mm	250mm 300mm	Volume of water in well / V
Conversion (volume in fa			0.49	1.96 7.8	5 12.3	17.7	31.4	49.1 70.7	V = volume in litres P = 3.14159
Total Well		(-) V	3.425	(=) Wat	er Column	m			r = radius in cm h = height of water column in cm
1.4	70	_m (-) _	Water C	olumn	(x) Convers	ion Facto	r (=) Litres	per 1 Well Volume	in noight of mater solution and
			4.0	15	m (x)	96	(=)	7.869. L	N
Depth to	product: _		m	Product Thic	ckness:	m	Veri	fied with Bailer:	IN .
					Water Qua	lity Para	meters		
Beginning	g purge tin	ne: 04	:55	Ending purg	ge time: 0	9:20		Pump Intake Dep	oth (mbtoc):
Litres	Time	P	H Temp °C		DO	Redox mV	Drawdown <10cm	Comments	
10	08:5	X		mS/cm	mg/L	IIIV	Siocin	brown, twbie	d, purged dry. Allowed to
40	09-0								Allard to recharge
14	09:10			-				Parged another	Allard to recharge
17	09:10							pyrged another	11. boown turbed, purgio
-31	711	0						0.19. 1101 00	may re ranging.
					14 1				
	-1/-	*pH, temp	, cond readings no	nt necessary if v	vell is purged dr	Exam	nple Comme		oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth
		Total Wel	I Volume			Comp	e time	Cont	tainers used
		Actual amo	ount of water prior	P 1070		-	F		
		mL/minut		D	id field parame	eters stab	lise? Y	N (NA) Was th	e well dry purged?
					Field (	QC Chec	:ks		
Was pre-	cleaned sa	ampling e	quipment used f	or these sam	ples?		YN		2
Was pre-	cleaning s	ampling e	quipment prope	rly protected	from contamir	ation?	YN	_	
Was docu	umentation	n of equip	ment conducted	?			Y N N	A	
Were air	bubbles p	resent in	vials at time of c	ollection?			YNN	A	
Was sam	ple for me	tals field	filtered prior to p	reservations?	•		Y N N	A	
Duplicate	sample c	ollected?					YN	Duplicate samp	le ID
Rinsate b	olank colle	cted?					YN	Rinsate blank I	



						Job Ir	nformatio	n	Ħ			
Date:	27/11/13						Time:	arriv	ve	09:20		depart 10:25
Project Na	ame: Pro	tect &	ympho	my			Projec	t Numb	er:	0224	98	
Site Local	tion: Lidd	lell	0 1	1			Samp	ler: //	H			
Well ID:	LD_MI	N04					Weather: Fine					
					1 775	Equ	uipment					
Water qua	ality equipme	ent descri	otion: 1	14			Inte	erface p	orobe	number:	SYD ;	3954
Purging e (please ci	quipment:	Baile	r type:	Plast	ic	Teflon						
(please ci	nce)	Pum	p type:	Peris	taltic	Subme	ersible	Micro	-pur	ge ,	Amazon	Other:
Jan By				We	II Gaugin	g and Pu	rge Volu	me Ca	lcul	ations		1 4 1 1 / 2 / 2
Casing Di	ameter		25mm	50mm	100mm	125mm	150mm	200m	ım	250mm	300mm	Volume of water in well / V
Conversio			0.49	1.96	7.85	12.3	17.7	31.4		49.1	70.7	= Prxrxh V = volume in litres
Total Well	Depth	(-) Wat	er level	("	=) Water C	olumn						P = 3.14159 r = radius in cm
-114	42n	1 (-)	Wate	r Column	(x) m (x)	Convers	m ion Factor	(=) Lit	tres p	er 1 Well	Volume	h = height of water column in cm
			-								V	T N
Depth to p	product:		_ m	Produ	ıct Thickne	ss:	m		Verifi	ed with B	ailer:	IN .
					Wa	ater Qual	ity Parar	neters				
Beginning	purge time:	69=3	3	Endi	ng purge ti	me: [0	:15			Pump l	ntake Dep	th (mbtoc):
Litres	Time	PH	Temp		ond S/cm	DO mg/L	Redox mV	Drawdo		С	omments	
24	09:40						3.340.7			proun	W furk	oid. Purged dry after 241.
34	09.50									brown	v. turbic	hard Purged dry after 24. harge, No about 1. 10 war. Purged dry after Allowed to rectarge.
39	10:05									propun	v. twb	d No oday, Purged dry
44	10:15									brown	v tychic anothe	d. No plant, Purad dry 5 i. Allawed to Kennye. d. No odour, Turad dry 51. Slow to ratha age.
										- 1		0
}												
9											Ē	
	-											3
							Even	nla Can		star alaar /	aliabtly ala	udy / turbid / very turbid / no odour /
	*pi	H, temp, co	nd readings	not neces	sary if well is	purged dry	, Exam	pie Con	iiiiei			our / strong odour / drawdown depth
44		tal Well V	olume of water pr	ior to samp	ling		Sample	time -	_	•	_ Conta	niners used
-	1000000	w rate /minute			Did fie	ld parame	ters stabili	se? Y	/ N	NA)	Was the	well dry purged? N
	100,000		-1.16	Value -		Field C	C Charl					
Mag pro o	looped com	olina oqui	nmont uno	d for thee	a samples'	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	C Check					
	leaned sampleaning sam	156 15 1			173 193 184909			Y N Y N				
AC16596 8530 464 867 LD	mentation of	, , ,			colou iioiii	oonannik	-	YN	NA	1		
	ubbles pres				n?		-	YN	NA	*		
)	le for metals						1	YN	NA			
	sample colle		-v.me+1 <b> </b> 7,5,6,737 - 33		and the second s			Y N	acation.	J	ate sample	• ID
Territoria de artiro	ank collected							Y N		224	e blank ID	

Groundwater - well sampling data form.cdr

11/0-



		1 Dev	clopme	ent	Job	Informati	on				
Date:	27/11/13	1/04	VIII C	c		Time:	arri	ve of	8.00	>	depart 09:10
Project N		rect S.	mphon	1		Proje	ct Numl	per:			
Site Loca			611	J			ler: N			1	
Well ID:	LD_MW	05				Weat	ner: F	ie			
					Ed	quipment					
Water qu	ality equipme	nt descript	tion:	JA		In	erface	probe ni	umber:	SYP	3954
Purging (	equipment:	Bailer	type:	Plastic	Teflo	n					
(piease c	onice)	Pump	type:	Peristaltic	Subm	nersible	Micr	o-purge	6 9	Amazon	Other:
				Well Gau	ging and F	urge Volu	ıme C	alculat	ions		
Casing D			25mm 5	50mm 100n	nm 125mm	150mm	200n	nm 25	i0mm	300mm	Volume of water in well / V
Conversi (volume in f	on Factor actor L/m)		0.49	7.8	5 12.3	17.7	31.4	4	9.1	70.7	V = volume in litres P = 3.14159
otal We	II Depth	(-) Wate	r level	(=) Wat	er Column						r = radius in cm
10*	5 /0 m	(-)	Water (	m (=) Column	(x) Conve	_ m rsion Facto	r (=) Li	tres per	1 Well	l Volume	h = height of water column in cm
				7.085	n (x)	96	(=) _	13.	87	L_	T 1
Depth to	product:	_	m	Product Thic	kness:	m		Verified	with B	ailer: Y	N
					Water Qu	ality Para	meters	3		J	
Beginnin	g purge time:	08-2	5	Ending purg	ge time:	08:55			Pump	Intake Dep	oth (mbtoc):
Litres	Time	PH	Temp °C	C Cond mS/cm	DO mg/L	Redox mV	Drawd	cm		omments	
20	ha: 10				5		180000	D	rown-	black v	en tubid. No odow. Purgo. Alburd to redurge.
140	08:30							C	oude	1, becon	ling clear after 30 L. Nood
70	08:55							C	ear.	Purged	dry after 20 L. Nood of another 201. Allowed to d
	00.77										
5											
	*pi	H, temp, con	nd readings n	ot necessary if w	vell is purged o	iry Exam	ple Co	nments			oudy / turbid / very turbid / no odour /
60		al Well Vo		W W		Compl	n time	_		Conto	Sinora wood
6	Act	ual amount o	of water prior	to sampling		Sampl	e time		A	_ Conta	ainers used
_	100000	/minute		Di	d field param	neters stabi	ise?	YN	NA)	Was the	e well dry purged?
			100		Field	QC Chec	ks				70.0
Was pre-	cleaned samp	oling equip	ment used	for these samp	oles?		Y N				
Was pre-	cleaning sam	pling equip	ment prope	erly protected t	rom contami	ination?	YN				
Was doc	umentation of	equipmen	t conducted	<b>d?</b>			YN	NA			
Were air	bubbles pres	ent in vials	at time of c	collection?			YN	NA			
Was sam	ple for metals	s field filter	ed prior to p	oreservations?			YN	NA			
Duplicate	sample colle	cted?					YN		Duplio	ate sample	e ID
Rinsate b	olank collecte	d?					YN		Rinsat	te blank ID	



TITELY										100 F889 - 2 - 1 - 1 - 1 - 1 - 1
	Jell 6	Developn	ent		Job	Information				
	22/11	13				Time:		09:41	100000	depart 10-10
Project N	lame: Pro	pect Syr	nohony			Proje	ct Number:	02241	98	*
Site Loca	ation: Lut	manos	Lidde	4		Samp	141	1		
Well ID:	LE_N	1002				Weat	ner: Our	east, 1	ight vo	217
					E	quipment				
Water qu	ality equip	ment description	on: WA			Int	erface prob	e number:	SYD	3954
	equipment:	Bailer t	ype:	Plastic	Teflo	n				
(please o	cirlce)	Pump t	уре:	Peristaltic	Subn	nersible	Micro-pu	rge	Amazon	Other:
				Well Gau	ging and F	urae Volu	ıme Calcu	lations		
Casing D	Diameter	1 2	25mm 50	mm 100r			200mm	250mm	300mm	Volume of water in well / V
Conversi	ion Factor			.96 7.8		17.7	31.4	49.1	70.7	= Prxrxh V = volume in litres
(volume in f	500 St	(-) Water	level	(=) Wai	ter Column					P = 3.14159 r = radius in cm
Total We	825	m (-)3	495	_m (=)	3.33	_ m	F-X-11-W-12-22	4 1 8 4 - 1	177-1	h = height of water column in cm
			Water Co		m (x) Conve	.96	r (=) Litres (=)	6527.	l volume L	
Donth to	product: _	n	1	Product This	ckness:	*		fied with E	Bailer: Y	N
Deptirito	product									
					Water Qu	- 275	meters			w z 1
	g purge tim		1	Ending pur	T	9:55	1			oth (mbtoc):
Litres	Time	PH	Temp °C	mS/cm	DO mg/L	Redox mV	Com Com		Comments	
120	09:45							brown	turbo	purged dry after 121.
14	09:5	-					1	1/1/10000	anothe	
1-4										
										106
		1								
					1					
			-							
	1/1	*pH, temp, cond	d readings not	necessary if	well is purged o	dry Exam	nple Comme			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth
14		Total Well Vol	ume			0.00			20 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
14		Actual amount o		sampling		Sampl	e time			ainers used
-		Flow rate mL/minute		D	id field paran	neters stabi	lise? Y	N (NA)	Was the	e well dry purged? N
					Field	QC Chec	ks			
Was pre-	-cleaned sa	ampling equipr	ment used fo	or these sam			YN			
		ampling equip				ination?	YN			
		n of equipment					Y N N	A		
		resent in vials					Y N N			
		tals field filtere			7		Y N N	200		
	e sample c		p. 101 to pi	350.70.0013			YN	2000	cate sampl	le ID
1.726.1036.000.000	blank colle						YN		ate blank IC	
ransate	DIATIK COIIE	olan :								



EKM					loh In	formatio	n			
Date: 0:	2/11/13				300 111	Time:	arrive	10:2	2	depart //: [O
	ame: Pro	inch c	1.			1.557.55	t Number:	10:30		*
Site Local	av 94-	11.110	mphon-	)		Sampl	1 (24 (727)		198	
Well ID:	1 E	adu	1			Weath		ercast	Lial L	· · · · ·
Well ID.	ر ساسا	- MWO					. DV	16121	1900	rain
			N/A	Δ	Equ	ipment		- 82		
Water qua	ality equipm	ent descripti	on: N	d		Inte	erface prob	e number:	SYD	3954
Purging e (please ci	quipment:	Bailer t	ype: I	Plastic	Teflon					
(prodeo or		Pump t	ype: I	Peristaltic	Submer	rsible	Micro-pu	ırge	Amazon	Other:
				Well Gau	ging and Pu	rge Volu	me Calcu	ulations		
Casing Di	ameter	2	25mm 50	mm 100n	nm 125mm	150mm	200mm	250mm	300mm	Volume of water in well / V
Conversion (volume in fa			0.49 (1.	7.8	5 12.3	17.7	31.4	49.1	70.7	V = volume in litres
Total Well	Depth	(-) Water			er Column					P = 3.14159 r = radius in cm
- 4 X -	140.	m (-) <u>4</u>			(x) Conversi		(=) Litres	per 1 Wel	l Volume	h = height of water column in cm
			Water Co	195	n (x)	16	(=)	1.438		T1
Depth to p	oroduct:	r	n	Product Thic	kness:	_ m	Ver	ified with E	Bailer: Y	N
					Water Quali	ity Parai	neters			
Beginning	purge time	10.45		Ending purg	SHARRED DATE	:05		Pump	Intake Dep	oth (mbtoc):
Litres	Time	PH	Temp °C	Cond	DO	Redox	Drawdown		omments	
· h	lo.			mS/cm	mg/L	mV	<10cm	Innaion,	Authol.	furged dry after 10L.
10.10	10:50							Allan	dp he	charge U
10	11:00							Trecha	Donoth	er 62. Dry. Allowed to
20.	11:05							rech	orge.	1 (0. 11)
								-		•
								+		
	L .	latt tama ana	d sandings out	noonann if i	vell is purged dry	Exam	ple Comm	ents: clear	/ slightly clo	oudy / turbid / very turbid / no odour /
		on reason to the Comment of the control	Partie In the S	necessary ii v	veii is purged dry			slight	dodour / ode	our / strong odour / drawdown depth
20		otal Well Vo		sampling		Sample	e time		Cont	ainers used
_		low rate		D	id field parame	ters stabil	ise? Y	N (NA	) Was the	e well dry purged? (Y) N
					Fig.14.0	C Chec	ke			
10/	eta a control	and the second		- th a	**********	to cuec	YN			
		mpling equip				ation?	YN			
The state of the s	200000 200 - 200 0 <del>-</del> 200 0 000				from contamina	adon?		IA		
		of equipmen				-	2000 300 100	IA IA		
	56	esent in vials			c c	-	20 60	IA IA		
		als field filtere	ea prior to pr	eservations?	<u> </u>	-	YN		cate sampl	e ID
	sample co					-	YN		ite blank IC	
Rinsate b	lank collec	ted?		especial control of the control of t			1 14	TillSe	ue Didlik IL	

Groundwater - well sampling data form.od

11.0



CIVIVI						-6-				
- ^	116		- W	11414	Job I	nformatio				donat
Date: 2:		.16	1.			Time:		12.15		depart
Site Local	tion: / var	ct Sym	phony				oler: N.F	0224	198	
(CONTRACTOR IN THE	LE MU	102						Oserc	ast	
TTOILIB.		100					100000000000000000000000000000000000000	0		
107-1	2 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1		N	/A	Eq	uipment		ho numbor	0.10	arl
	ality equipme		011.	5.91	2.4		terrace pro	be number:	247	3954
Purging e (please ci	quipment: rlce)	Bailer t		Plastic	Teflor	ersible)	Micro-p	urao	Amazon	Other:
		Pump t	ype:	Peristaltic					Amazon	Other.
					ging and P			1	Tana	There is a supple
Casing Di				0mm 100n				250mm	300mm	Volume of water in well / V = Pr x r x h
Conversion (volume in fa	ictor L/m)			1.96 7.8		17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159
Total Well	Depth	(-) Water n (-) 2	level	(=) Wat m (=)	er Column	m				r = radius in cm h = height of water column in cm
		48.5	Water C	olumn 35	(x) Conver		r (=) Litre: (=)	s per 1 Wel	l Volume	
		_		EU SE		•			Y Y	N
Depth to	product:		n	Product The	ckness:	m	ve	rified with E	saller:	
					Water Qua	ality Para	meters			
Beginning	purge time	12:30	0	Ending pur	ge time:	12:50	)	Pump	Intake Dep	oth (mbtoc):
Litres	Time	PH	Temp ∘C	Cond mS/cm	DO mg/L	Redox mV	Drawdow <10cm	20	comments	
12	12.35							brown,	turbid, n	o oclour Purged dry ofte be richarge through the brown be the odwar furged of the odwar furged of
18	12:40							Purged	another	66. brown, furbid, become
26	12-50							Sleav	1 slight	of GL. odour lurged of
	,							10	ECONES CONTRACTOR	
										•
							4			
			100							
	**	H, temp, con	d readings no	ot necessary if	vell is purged a	lry Exam	nple Comm			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth
		tal Well Vo				Sampl	le time	1	Cont	ainers used
		tual amount o ow rate	of water prior	0. 0.55			[]	NINA	Maa th	e well dry purged? Y N
	mi	L/minute			id field param	ieters stabi	inse!		vvas tit	e well dry purged?
					Field	QC Chec	ks			
Was pre-	cleaned sam	pling equip	ment used	or these sam	ples?		YN			
Was pre-	cleaning sar	npling equip	ment prope	erly protected	from contami	ination?	YN			
Was docu	umentation o	of equipment	t conducted	?			Y N 1	NA		
Were air	bubbles pres	sent in vials	at time of c	ollection?			1 N Y	NA		
Was sam	ple for meta	ls field filtere	ed prior to p	reservations	?			NA		
Duplicate	sample coll	ected?					YN		*	e ID
	a company						VN	Rinsa	te blank IF	1



Pater	3/12		1	DEVELOP	PRENT .	300 11	Time:	arrive	30		depart 1.40.	
	3 12 lame: 8		- N	4			Project Number: 0224198.					
								ler: 11		10.		
Site Loca Well ID:	LE	DOELL	l	_=				PULCE	deLE	- AD		
well ib.	ht -	21100				20		iei. Mot	gene	-1 RC.	- 1/100	
19/2 10 mm 200	- War					Eq	uipment		e con Porto Sea <b>V</b> erto Sea			
Water qu	ality equip	ment de	scription	on:	Lore was		Inte	erface prol	be number:			
Purging e (please c	equipment irlce)		ailer t	Butterson .	Plastic Peristaltic	Teflon	7	Micro-p	urge /	Amazon	Other:	
	-				Well Gaug	urae Volu	me Calc	ulations				
Casing D	iameter		2	25mm 50	mm 100m		150mm	200mm	250mm	300mm	Volume of water in well / V	
Conversion (volume in fa	on Factor			0.49 1.	96 7.85	17.7	31.4	49.1				
otal Wel	I Depth	(-)	Water	level	(=) Wate					P = 3.14159 r = radius in cm		
6.0	38	_ m (-) _	4	Water Co			(=) Litres	s per 1 Well	Volume	h = height of water column in cm		
3.519 m(x) 1.9b. (=) 6.90 L												
Depth to	Depth to product: m Product Thickness: m Verified with Bailer: Y											
						Water Qua	lity Parar	neters				
Beginning	g purge tir	ne:			Ending purg	e time:			Pump l	Intake Dep	oth (mbtoc):	
Litres	Time	F	Н	Temp ∘C	Cond mS/cm	DO mg/L	Redox mV	Drawdowi <10cm		omments	11 1 1 6	
121	. 3:5	Opm.							deor		the depth, odan	
		3							48 1450	apitico	it volume of perhan	
_									rdell	iched	when dippeed	
31	405	pm							allon	redto	reday.	
		***									11 (	
7L.	4:15	300							pup		and these twith	
T	11 070								-arau	inedin	3 x 500 ml yolines,	
1.5	4:25pm								are-	Winne	well show to	
									ndne	De -	considered developed	
	10	*pH, tem	р, сопа	l readings not	necessary if w	ell is purged dr	Exam	ple Comm			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth	
		Total We	ell Vol	ume			Cample	. time a				
		Actual am Flow rat		f water prior to	ANTO SOLFEDO O SE		Sample			_	ainers used	
		mL/minu			Dic	field parame	eters stabili	se? Y	N NA	Was the	e well dry purged? Y N	
	-12	- 7-				Field (	QC Check	(S				
Was pre-	cleaned s	ampling e	equipn	nent used for	these samp	les?	75 0200 0000	YN				
					y protected fr	om contamin	nation?	¥ N	_			
		0.50		conducted?			100	98	IA			
)				at time of col				20,130	IA			
				d prior to pre	servations?			Vac 1	IA		erane	
Duplicate			/				-	YN	200	ate sample	144	
Ripsate b	lank colle	cted?						YN	Rinsat	te blank ID		



CIVIVI										
					Job Ir	formation	on			
Date: 2	2 11 13					Time:	arrive	14:2	0	depart
Project Na	ame: Prov	et Sw	molon			Projec	t Number	0224	498	E
Site Locat	. IM	ell	P			Samp	ler: N.	It,		
Well ID:	LE-MU	Vd4				Weath	ner: pul	veast	(	
					Ear	uipment				
Water qua	ality equipme	nt descript	tion: NF	+			erface pro	be number:	SUD	2954
	250 10 10			11-1	Teflon				210	2/27
Purging ed (please cir		Bailer		Plastic Peristaltic	Subme	waihla	Micro-p	urao	Amazon	Other:
		Pump	type.						Amazon	Other:
				Well Gau	ging and Pu	irge Volu	ıme Calc	ulations		
Casing Dia	ameter		25mm 50	0mm 100m	nm 125mm	150mm	200mm	250mm	300mm	Volume of water in well / V
Conversio (volume in fac			0.49	.96 7.85	5 12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159
Total Well		(-) Wate			er Column					r = radius in cm h = height of water column in cm
_6.41	m	(-)	Water Co		(x) Convers	m ion Factor	(=) Litre	s per 1 Wel	Volume	II - neight of water column in on
				r	n (x)		(=)			Two I
Depth to p	product:		m	Product Thic	kness:	m_	Ve	rified with E	ailer: Y	N
					Water Qua	lity Para	meters			
Beginning	purge time:	1/1-2	5	Ending purg				Pump	Intake Dep	oth (mbtoc):
Litres	Time	PH	Temp °C		ро	Redox	Drawdow	n C	omments	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
				mS/cm	mg/L	mV	<10cm		l da	INC to a local
A4 16	14:30		V					dry	after	d. H. Coday To lurged
420	14:35						7.	Beion	all to re	iver larged dry after 41
24	14:40									
										•
			-							
						1-	1.0		/ -C-640C-	
	*pi	H, temp, cor	nd readings no	t necessary if w	vell is purged dr	Exam	ipie Comin			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth
24		tal Well Vo				Sampl	e time		_ Cont	ainers used
		uai amount ow rate	of water prior t				Texas	N NA	14/a - 45	e well dry purged?
	- mL	/minute		Di	d field parame	eters stabi	ilse?		vvas (ne	e well dry purged?
					Field (	QC Chec	ks			
Was pre-c	cleaned sam	pling equip	ment used for	or these samp	ples?		YN			
Was pre-c	cleaning sam	pling equip	pment proper	rly protected f	from contamir	ation?	Y N	_		
Was docu	mentation of	f equipmer	nt conducted	?			YN	NA		
Were air b	oubbles pres	ent in vials	at time of co	ollection?			Y N I	NA		
Was samp	ole for metal:	s field filter	ed prior to pr	reservations?	ı		Y N I	NA		
Duplicate	sample colle	ected?					Y N	Duplie	cate sampl	e ID
Rinsate bl	lank collecte	d?					Y N	Rinsa	te blank IC	)



,	(	WELLD	EVELOP	MENT	· Job I	nformatio	on					
Date: 3	12/13					Time:	arr	ive	12:10	77,	depart 1:30	
Project N	ame. S	ymphon	4			Proje	ct Num	ber:	0224	1198		
Site Loca	ition: L	-100EU	_			Samp	oler:	M	1			
Well ID:	LE-1	1405				Weat	her:	Ho	۲.			
-					Eq	uipment						
Water qua	ality equip	ment descripti	on:			Int	terface	probe	number: (	poled	- 1P#4261 3Q_	
Purging e (please c	equipment irlce)	: Bailer t	71-	Plastic Peristaltic	Teflon	ersible	Micr	0-000	ge A	easily edina mazon	idatified with hicative of little of Other:	
				Well Gau	ging and P	urge Volu	ıme C	alcul	ations			
Casing D	iameter	3	25mm   50	mm 100n	nm 125mm	150mm	200r	mm	250mm	300mm	Volume of water in well / V	
Conversion (volume in fa			0.49 1.	96 7.8	5 12.3	17.7	31.4		49.1	70.7	= Prxrxh V = volume in litres P = 3.14159	
otal Well	Depth 173	(-) Water _m (-) _ <u><b>)</b> .1</u>	Water Co	m (=) 4. lumn 127	(x) Convers	lb	r (=) L (=) _	9	. 26	L	r = radius in cm h = height of water column in cm	
Depth to	product: _		n	Product Thic	ckness:	m		Verifi	ied with Ba	iler: L		
					Water Qua	lity Para	meter	s			i i i i i i i i i i i i i i i i i i i	
Beginning	g purge tin	ne:		Ending purg	ge time:				Pump In	take Dep	th (mbtoc):	
Litres	Time	9 428,3328	Temp °C	Cond mS/cm	DO mg/L	Redox mV	Drawd <10		Co	mments	y tubidity 1 - pe	
20	12:44	gra					,		dear	7	at time or alland to recla	
54.	12:52	<del>M</del>							As alo	ملع	2 X	
1.5	1pm						1		As a	YOUN	e-	
2L	1700	~							nosth	cleo	-, solan	
)												
						a						
		*pH, temp, cond	d readings not	necessary if w	vell is purged dr	Exam	ple Co	mmer			udy / turbid / very turbid / no odour / ur / strong odour / drawdown depth	
28.1	7.	Total Well Vol Actual amount o	<b>ume</b> f water prior to	sampling		Sample	e time		_	. Conta	iners used	
	- N	Flow rate mL/minute		Di	d field parame	eters stabil	lise?	Y 4	NA NA	Was the	well dry purged? Y N	
					Field (	QC Chec	ks					
Was pre-o	cleaned sa	ampling equipr	ment used for	these samp	ples?		Y N				/	
Was pre-	cleaning s	ampling equip	ment properly	y protected t	from contamin	nation?	Y N				1	
11.000.00.000.000		of equipment	A - South Start Life (S. Pr. 19 1924				YN	NA				
Were air t	bubbles pr	esent in vials	at time of col	lection?			Y N	NA				
Was sam	ple for me	tals field filtere	d prior to pre	servations?			Y N	NA				
Duplicate	sample co	ollected2					Y N		Duplica	te sample	ID	
Rinsate b	lank collec	cted?					Y N		Rinsate	blank ID		



EIVIVI					Job I	Information	on			The state of the s
Date: 4	22/11/1	3				Time:	7-1-1	13:51	5	depart
			ymphon	4		Proje	ct Number:			*
Site Loca		ddell	0 1	)		Samp	.171	-		
Well ID:	Vi - (c)	W06				Weat	her: Ove	vcost		
					Ec	quipment				
Water qua	ality equip	ment descr	iption: N	A			terface prob	e number:	540	3954
Purging e (please ci	equipment irlce)		er type:	Plastic Peristaltic	Teflor	nersible	Micro-pu	urge	Amazon	Other:
				Well Gau	ging and P	urge Volu	ıme Calcı	ulations		
Casing D	iameter		25mm 5	50mm 100n	nm 125mm	150mm	200mm	250mm	300mm	Volume of water in well / V
Conversion (volume in fa	on Factor actor L/m)		0.49	7.8	5 12.3	17.7	31.4	49.1	70.7	V = volume in litres P = 3.14159
Total Well	Depth 40	(-) Wa _m (-)	Water (	(=) Wat m (=) Column n	er Column 3-2 (x) Conver m (x)	_m rsion Facto	r (=) Litres	per 1 Wel	I Volume L	r = radius in cm h = height of water column in cm
Depth to	product: _		_ m	Product This	ckness:	m	Ver	ified with E	Bailer: Y	N
					Water Qua	ality Para	meters			
Beginning	g purge tin	ne: 13:5	55	Ending purg	ge time: 10	4:15		Pump	Intake Dep	th (mbtoc):
Litres	Time		Temp of	C Cond mS/cm	DO	Redox mV	Drawdown <10cm		comments	
10	1400	G-100-00-		ms/cm	mg/L	IIIV	Toom	brown,	turbid, l	Rioning Clear after 51.
1126	14:04	-				-		Ho to	charge.	11. a who was in
14	14:10					1		tores	herige g	ed dry after another 4L.
ia	14:15	-						clear	no oda	ur. Purged another 2L. Dry
-19	1971.	/								· · · · · · · · · · · · · · · · · · ·
					1					
		*pH, temp, o	cond readings n	ot necessary if v	well is purged o	dry Exam	nple Comm			oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth
		Total Well				Samo	le time		_ Conta	ainers used
		Flow rate	nt of water prior					N NA		well dry purged? Y N
		mL/minute		U	id field paran	neters stab	ilise?	N NA	vvas trie	e well dry purged? Y N
					Field	QC Chec	ks			
Was pre-	cleaned s	ampling equ	uipment used	for these sam	ples?		YN			
Was pre-	cleaning s	sampling eq	uipment prop	erly protected	from contam	ination?	YN			
Was docu	umentatio	n of equipm	ent conducted	d?			A 1 200 100	IA		
Were air	bubbles p	resent in via	als at time of	collection?				IA		
Was sam	ple for me	etals field file	tered prior to	preservations?	,			IA		
Duplicate	e sample o	collected?					YN		cate sampl	
Rinsate b	olank colle	cted?					YN	Rinsa	ite blank ID	)



) WE	ELLI	EVE	DAME	N		Job I	nformatio	on						
	1/12/12	depart												
Project N	lame: 4	WEKON	Λ-				Projec	ct Num	ber:	22419	g			
	ation: Lig						Samp	ler: /	Tin	Mand	۰,			
	UE-						Weath	Weather: Hot.						
	STATE.	117				Eq	uipment							
Water qu	ality equipr	ment descr	iption:	_			Int	erface	probe	e number:	Cook	ch 1P#4261.30m		
Purging e (please o	equipment: cirlce)		er type: np type:	Plast Peris	ic taltic	Teflon	ersible	Micr	of thoro-pu	mell e	Amazon	Other:		
	7.44			We	II Gaugi	ing and P	urge Volu	ıme C	alcu	lations				
Casing D	iameter		25mm	80mm	100mm	125mm	150mm	200	nm	250mm	300mm	Volume of water in well / V		
Conversi (volume in fa	on Factor actor L/m)		0.49	1.96	7.85	12.3	17.7	31.4	1	49.1	70.7	= Prxrxh V = volume in litres P = 3.14159		
6.85	otal Well Depth 6.898 m (-) Water level (=) Water Column (x) Conversion Factor (=) Litres per 1 Well Volume (=) Water Column (x) Conversion Factor (=) Litres per 1 Well Volume (x) Conversion Factor (=) Litres per 1 Well Volume (x) Conversion Factor (=) Litres per 1 Well Volume													
Depth to	Depth to product: m Product Thickness: m Verified with Bailer: Y N													
Water Quality Parameters														
Beginning purge time: Pump Intake Depth (mbtoc):														
Litres														
3	2:50pm	١								red	ange	21 anone Otto		
5L.	5:050	m \								alla	, odo	Trelage.		
	315.									daa	ada.			
	3151	l.								dear	and .	to reclarge		
-	2.00		_									924		
1.5	3:20pm	۸.	_							As aloo	one.			
@	2.79		-							Δ 1.				
61	3.0									As als	du.	a down a recharge		
		*nH temn c	ond reading	s not neces	sarv if wel	l is purged dr	Exam	ple Co	mme	nts: clear /	slightly clo	oudy / turbid / very turbid / no odour /		
				s not neces	sary ii wen	ns pargea ar	,			slight	odour / odo	our / strong odour / drawdown depth		
		otal Well \ ctual amour	<b>Volume</b> nt of water pr	rior to samp	ling		Sample	e time	:		_ Conta	ainers used		
	Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N													
				VALLE.		Field	QC Chec	ks						
Was pre-	cleaned sa	mpling eau	ipment use	ed for thes	e sample		10	Y N	T					
12000			12. 51.			m contamir	nation?	YN	-					
	umentation							YN	NA					
	bubbles pre				n?			Y N	Teamer	-				
)	ple for met						1	Y N	NA					
							T	Y N		ب Duplic	ate sample	e ID		
Rinsate b	Duplicate sample collected?  Y N Duplicate sample ID  Rinsate blank collected?  Y N Rinsate blank ID													



			be 15 91		300 11	Times		10(1)	C	dened				
	Project Name: Symptom Project Number: 224198  Sampler: Th													
	Site Location: Lippect Sampler: Th													
						Samp	ler:	)		4.4.M				
Well ID:	LE_	-MMO.	8			Weath	ner:	hot.						
		I R St.			Eq	uipment				0 411-11				
Water qua	ality equip	ment descrip	otion:			Int	erface pro	be number:	Cash	wh 18 30~44261				
Purging e (please ci			,,	Plastic Peristaltic	Teflon	ersible	Micro-		Amazon	entified with probe , nort accumulated. Other:				
				Well Gaug	ging and Pu	urge Volu	me Calc	ulations						
Casing Di	ameter		25mm \$6	mm 100mi	m 125mm	150mm	200mm	250mm	300mm	Volume of water in well / V				
Conversio			0.49	.96 7.85	12.3	17.7	31.4	49.1	70.7	= Pr x r x h V = volume in litres				
otal Well	iptal Well Depth (-) Water level (=) Water Column													
6.40	6.403 m (-) 2.934 m (=) 3.869 m h = height of water column in cm													
	Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  3.37 m (x) (-96 (=) 7.58 L													
Depth to p	Depth to product: m Product Thickness: m Verified with Bailer: W													
7 7	Depth to product:m Product Inickness:m Verified with Baller:													
Beginnina														
Litres	Beginning purge time: Pump Intake Depth (mbtoc):  Litres Time PH Temp °C Cond DO Redox Drawdown Comments													
4777227.0	5000000	80.53%	1,200,00	mS/cm	mg/L	mV	<10cm							
10.00	2/1							tylor	diase	Historia of branger of start of pring my				
								300	- our	swed to rechase				
3,5L	2.100	1						dea	, odo	un - allowed to				
								hech	o se					
24.	2:250	4						dight.	odo	w tub, duty				
	4													
168L	2.30							cag	uchen	mad chy				
								-56	ow to ,	morlago				
									, - ,	30.				
		*pH, temp, co	nd readings not	necessary if we	ell is purged dr	Exam	ple Comn			oudy / turbid / very turbid / no odour /				
		Total Well V	olume of water prior to	sampling		Sample	e time _		509	ainers used				
		Flow rate mL/minute	or mater prior to	, , , ,	field parame			N NA		well dry purged? Y N				
Mess	Field QC Checks													
Was pre-cleaned sampling equipment used for these samples?  Y N														
Was pre-cleaning sampling equipment properly protected from contamination? Y N														
Was docu	Was documentation of equipment conducted?  Y N NA													
Were air b	ubbles pr	esent in vial	s at time of col	llection?			N N	NA						
Was samp	le for met	als field filte	red prior to pre	eservations?			N N	NA						
Duplicate	Duplicate sample collected?  Y N Duplicate sample ID													
Rinsate bl	ank collec	ted?					YN	Rinsat	e blank ID	<u> </u>				



- 0000		7	PIEN		3001	-			1.110						
660380960 10	3/12/1	D				Time:			Oy:11	7255	depart 12:39				
Project Na		Tha	$\sim$			_			2241						
Site Local	tion: Lipa		``							L: 7	H				
Well ID:	LE-M	1wo	19			Weath	Weather: NOT								
					Eq	uipment			C	stech					
Water qua	ality equipmer	t descrip	tion:				_		number:	81 61 4	4261 30m				
Purging e (please ci	quipment: rlce)	Bailer Pump		Plastic Peristaltic	Teflor	ersible	Micro	1	7	Amazon	of little solved. Other:				
			-	Well Gaug	ing and P	urge Volu	ıme Ca	alcul	ations						
Casing Di	ameter		25mm 50	mm 100m	m 125mm	150mm	200m	nm	250mm	300mm	Volume of water in well / V				
Conversio			0.49 (1.	96 7.85	12.3	17.7	31.4		49.1	70.7	= Pr x r x h V = volume in litres				
otal Well	Depth	(-) Wate	r level 8		er Column						P = 3.14159 r = radius in cm				
7.02	<u></u> m	(-) 2	Water Co	lumn	(x) Conver	sion Factor	r (=) Li	tres p	er 1 Well	Volume	h = height of water column in cm				
			4.1	33_ m	(x) 1.9	7	(=)	8.	16.	L	761				
Depth to p	product:		m	Product Thicl	kness: <u></u>	m		Verifi	ed with B	ailer:					
					Water Qua	ality Para	meters		V. 1.						
Beginning	purge time:			Ending purg	e time:				Pump I	ntake Dep	th (mbtoc):				
Litres	Time	PH	Temp ∘C	Cond mS/cm	DO mg/L	Redox mV	Drawd		С	omments					
15	NO: 50				9/=				ught	benon	- tubidady				
PAAA	10095	`							allow	F	to reclaime 5 mi				
2	id:55.								AL -	11	the Carlo				
1.5	MAM.								Allow	2010	Lacks and Hor				
D.75	12:13									dere	dansdd				
0.13	10.7								Coos		1-4				
)															
	*pH,	temp, cor	nd readings not	necessary if we	ell is purged d	ry Exam	ple Cor	nmen			udy / turbid / very turbid / no odour / our / strong odour / drawdown depth				
20.2		I Well Vo	olume of water prior to	sampling		Sample	e time .	•		_ Conta	ainers used				
	(45)(3000)(0	v rate minute		Dic	I field param	eters stabil	ise?	4	I NA	- Was the	well dry purged				
					Field	QC Chec	ks	W.		8=1					
Was pre-c	leaned sampl	ing equip	ment used for	r these samp	les?		Y N								
Was pre-c	leaning samp	ling equip	ment properl	y protected fr	om contami	nation?	Y N								
Was docu	mentation of e	equipmen	t conducted?				YN	NA							
Were air b	oubbles prese	nt in vials	at time of col	lection2			Y N	NA							
Was samp	ole for metals	field filter	ed prior to pre	eservations?			Y N	NA							
Duplicate	sample collec	ted?					Y N		Duplic	ate sample	e ID				
Rinsate bl	ank collected	?					YN		Rinsat	e blank ID					



Litres Time PH Temp °C Cond mS/cm DO mg/L Redox mV 10cm with black, no odow 13:10 40	Project Name: 27498 Site Location: Labority Well ID: Land Miles quipment description: Plastic pump type: Pla	160	1 Der	elgr	tran			Job li	nformati	on			
Project Number: 0224/98	Project Name: 74 m/Mon   Site Location: Labellul   Sampler: N. H.   West ID: Line - Michael   Sampler: N. H.	Date: L	2/12/13				- 4		Time:	arrive	13:0	00	depart
Sampler: N.H.   Weather: Field QC Checks   Sampler: N.H.   Weather: Field QC Checks   Value	Sampler   N.   Westforce   N.   Interface probe number:   Testforch   93 001 5 9	Project N	lame: Sy	mphon	4			S.	Proje	ct Numbe	r. 0224	+198	100
Fequipment   Fequipment   Fequipment   Fequipment   Fequipment   Fequipment   Femology	Equipment   Water quality equipment description:   Plastic   Telfon   Submersible   Micro-purge   Amazon   Other:				,		7		Samp	ler: N.	H .		D
Water qualify equipment description:   Purplype:   Plastic   Pump type:   Plastic	Water quality equipment description:  Purging equipment: (please cirico)  Pump type:  Well Gauging and Purge Volume Calculations  Casing Diameter  25mm Spieny (100mm 125mm 150nm 200mm 250nm 300mm 150nm 15	Well ID:	LG-M	nwol		*			Weatl	ner: Fa	re, hat		
Purging equipment: (please cirics)  Pump type: Peristatic Submersible Micro-purge Amazon Other:  Well Gauging and Purge Volume Calculations  Casing Diameter 25mm 50 pam 100mm 125mm 150mm 200mm 250mm 300mm Pr x x x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	Purging equipment: (please cirice)  Pump type:  Peristaltic  Well Gauging and Purge Volume Calculations  Casing Diameter  Zemm Sopen 100mm 125mm 500mm					+ .		Equ	uipment				
Pump type:   Peristatic   Submersible   Milcro-purge   Amazon   Other:	Value of water in well / Very strict of the searples   Pump type:   Peristaltic   Submersible   Micro-purge   Amazon   Other:	Water qu	ality equipm	nent descrip	otion:	NA	8		Int	erface pro	obe number:	Testur	ell 9300159.
Casing Diameter   25mm   50 pag   100mm   125mm   150mm   200mm   250mm   300mm   Volume of water in well / V   P   Y x x h   V   V   V   V   V   V   V   V   V	Casing Diameter 25mm 50pain 100nm 125mm 150mm 200mm 250mm 300mm Volume of water in well / V PY X X X I X I X I X I X I X I X I X I X									Micro-	ourge /	Amazon	Other:
Conversion Factor (colume in factor Limb)  Total Well Depth (column in factor Limb)  Water Column (x) Conversion Factor (c) Litres per 1 Well Volume (x) Conversion Factor (c) Litres p	Conversion Factor		i i			Wel	l Gaugin	g and Pu	ırge Volu	me Calo	culations		
Conversion Factor (conteme infactor tum)  Total Well Volume (a) Water Column  Water Column  Time PH Temp °C Cond mS/cm mg/L  Total Well Volume  Total Well Volume  Actual amount of water prior to sampling  Field QC Checks  Water Column  Total Well Volume  Actual amount of water prior to sampling  Field QC Checks  Water Column  Total Well Volume  Actual amount of water goulpment used for these samples?  Water Column  Total Well Volume  Actual amount of water prior to sampling  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Conversion Factor   Conv	Casing D	iameter ·		25mm	50mm	100mm	125mm	150mm	200mm	250mm	300mm	
Total Well Depth   C) Water Revel   (a) Water Column   (b) 2.360   (c) Water Column   (c) 2.360	Total Well Depth   C) Water level   (a) Water Column   Fradicial in cm   Francis in cm   F				0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = volume in litres
Water Quality Parameters   Beginning purge time:   Pump Intake Depth (mbtoo):	Beginning purge time: 13:10 Ending purge time: Pump Intake Depth (mbloc):  Litres Time PH Temp °C Cond mS/cm DO mg/L Redox previous comments  13:15 20			i j	Water 6	Column	_ (x	) Convers	ion Factor	(=)	10181	T	r = radius in cm h = height of water column in cm
Litres Time PH Temp °C Cond ms/cm mV Prawdown removed to the ms/cm mV Prawdown state and the policy of the ms/cm mV Prawdown removed to the ms/cm prawdown state and the policy of the ms/cm ms/cm mV Prawdown state and the policy of the ms/cm	Litres Time PH Temp °C Cond mg/L Redox my cloum Comments  13-15 20  13-15 20  13-15 100  13-35 100  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment used for these samples?  Was pre-cleaning sampling equipment conducted?  Y N NA  Was sample for metals field filtered prior to preservations?					-							
13:16   20   15:10   10   10   10   10   10   10   10	15:15 20   Buown's clear after 20     15:16 20   Buown's clear after 20     15:16 40   Buown's clear after 20     15:15 100   Gotter of the control of the	Beginning	purge time	: 13:10	)	Endin	g purge tir	me:		3	Pump I	ntake Dep	th (mbtoc):
13.30 80  15.35 100  *pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Tield QC Checks  Vas pre-cleaned sampling equipment used for these samples?  Concluders recharge as funny of the purged and provided recharge as funny of the purged and provided recharge as funny of the purged and provided recharge as funny of the purged and purged and purged are purged and purged	13.30 80   gord recharge   g	Litres	Time	T				1511 733 - 31					
13.30 80  15.35 100  *pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Tield QC Checks  Vas pre-cleaned sampling equipment used for these samples?  Concluders recharge as funny of the purged and provided recharge as funny of the purged and provided recharge as funny of the purged and provided recharge as funny of the purged and purged and purged are purged and purged	13.30 80   gord recharge   g	13:15	20								turbio	, Dlach	10 0000
3.30 80	15:35   100	13:20	40										
*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Vas pre-cleaned sampling equipment used for these samples?	*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA	1325	60								active	by rect	verging as pumpy
*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Vas pre-cleaned sampling equipment used for these samples?	*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA	13:30	80								gor	d rech	orge.
*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Vas pre-cleaned sampling equipment used for these samples?	*pH, temp, cond readings not necessary if well is purged dry  Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Actual amount of water prior to sampling Field QC Checks  Y N N NA  Y N NA  As sample for metals field filtered prior to preservations?	15:35	100								0	011	when some
Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Was pre-sent in vials at time of cellection?  Y N NA  Yas sample for metals field filtered prior to preservations?  A sample time Containers used  Y N NA  Was the well dry purged?  Y N NA  Y N NA  Y N NA  Y N NA										1010	WCU U	-0.003 / C/
Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Was present in vials at time of cellection?  Y N NA  Yas sample for metals field filtered prior to preservations?  Sample time Containers used  Y N NA  Was the well dry purged?  Y N NA					-					Des	rapid	
Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Was pre-sent in vials at time of cellection?  Y N NA  Yas sample for metals field filtered prior to preservations?  Y N NA  Y N NA  Y N NA					-			- 1		-		
Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Was pre-sent in vials at time of cellection?  Y N NA  Yas sample for metals field filtered prior to preservations?  Y N NA  Y N NA  Y N NA	2 3			1	-					-		
Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?	Total Well Volume Actual amount of water prior to sampling Flow rate mL/minute  Did field parameters stabilise?  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Was pre-sent in vials at time of cellection?  Y N NA  Yas sample for metals field filtered prior to preservations?  Y N NA  Y N NA  Y N NA								F	la Camm	enter place /	eliabtly elec	idy / turbid / very turbid / no odour /
Actual amount of water prior to sampling  Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Y N Was the well dry purged?  Y N N N N N N N N N N N N N N N N N N	Actual amount of water prior to sampling  Flow rate mL/minute  Did field parameters stabilise?  Field QC Checks  Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA	1000	*pl	H, temp, cond	d readings no	t necessa	ary if well is	purged dry	Examp	ne Comin	slight o	odour / odo	ur / strong odour / drawdown depth
Vas pre-cleaned sampling equipment used for these samples?	Was pre-cleaned sampling equipment used for these samples?  Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA  Y N NA  Y N NA  Y N NA	100	Acti	ual amount o		to samplin		d paramet	9400 General e 10 • 60,000 e	FIT	N NA		CIA
	Was pre-cleaning sampling equipment properly protected from contamination?  Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA  Y N NA  Y N NA  Y N NA						1001	Field Q	C Check	S			
vas pre-cleaning sampling equipment properly protected from contampation:	Was documentation of equipment conducted?  Were air bubbles present in vials at time of cellection?  Y N NA  Y N NA  Y N NA  Y N NA												y = X 12
Ven degramentation of agricoment conducted?	Were air bubbles present in vials at time of cellection?  Y N NA  'as sample for metals field filtered prior to preservations?  Y N NA						Jed Holli (	Containing	-		A		
	'as sample for metals field filtered prior to preservations?  Y N NA		*6				,		-	-	-	*	
Vote all business present in viale at time of sensor.												47%	
	Duplicate sample collected?	y			и риог то рг	esei valii	orio :		-	0.000		te sample	ID
uplicate sample collected?	Rinsate blank collected?										1 10 No. 00 \$ 10 000 1000		



IWEU	L DEV	ELOP	NEWT			Job Ir	nformatio	on					
Date:		3	00				Time:	an	rive	09:4	5	depart	
Project N	lame: ø 5	moh	ony				Projec	ct Num	ber:	02241	98	(E .,	
Site Loca	100	dell.					Samp	ler:	V. H	f .			
Well ID:	La-M	WOZ		- 12			Weath	ner:	Fin	u.			
		-		- ×		Equ	ipment						
Water qu	ality equipm	ent descri	ption:	NA	120		Int	erface	probe	e númber:	Testu	rell 9300/59	
Purging e (please c	equipment: irlce)		er type: p type:	Plast Peris		Teflon Subme	rsible	Mici	o-pu	rge /	Amazon	Other:	
17			9 9 9 9	Wel	I Gaugin	g and Pu	rge Volu	me C	alcu	lations			
Casing Di	iameter		25mm	50mm	100mm	125mm	150mm	2001	mm	250mm	300mm	Volume of water in well / V	
Conversion (volume in fa		524	0.49	.96	7.85	12.3	17.7	31.4	1	49.1	70.7	V = volume in litres P = 3.14159	
Total, Well	Total Well Depth (-) Water level (=) Water Column r = radius in cm h = height of water column in cm  Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  3.865 m (x) 1.96 (=) 7.58 L												
Depth to p	oroduct:	6	_m	Produ	ct Thickne	ss:	m ·		Verif	ied with B	ailer;	INNA	
					W.	iter Qual	ity Parar	neter	=				
Paginning	purge time:	09;	Kr	Endir	ng purge tir	200000000000000000000000000000000000000	ity i arai	10101		Pump I	ntake Dep	th (mbtoc):	
Litres	Time	PH	Temp	c Co	ond		Redox	Drawo		-	omments		
14	10:00			1110	Join 1	ng/L			V	tuxbid	black	no down lurged dy	
24	10:10			+-						becomin	y cloud-	to clear of he 182.	
32	10:20	7								clear	rtock	ordy, no stars	
42	10:30	-			178							0	
50	10.40									~ 18	) well	uplumes removed	
60	10:50									1),	1 me		
70	11:00									100	100		
- 10				33									
(6)								1/					
		-			367					-11	ESTATE OF THE PARTY OF THE PART	A V 15 (4	
	*pH	ł, temp, coi	nd readings i	not necess	ary if well is	purged dry	Examp	ole Cor	nmen	its: clear / slight o	slightly clou odour / odo	udy / turbid / very turbid / no odour / ur / strong odour / drawdown depth	
		al Well Vo	olume of water prio	r to sampli	ng	2.4	Sample	time .			Contai	iners used	
		w rate minute			Did fiel	d paramete	ers stabilis	se?	N	I NA	Was the	well dry purged? Y N	
						Field Q	C Check	s					
Was pre-cle	eaned samp	ling equip	ment used	for these	samples?		1	N		- 20			
Was pre-cle	eaning samp	ling equip	ment prop	erly prote	cted from	contaminat	tion? Y	N			35		
Was docum	nentation of	equipmen	t conducted	d?			Y	· N	NA		*		
Were air bu	ıbbles prese	nt in vials	at time of	collection	?		Y	N.	NA			¥1	
as sample	e for metals	field-filter	ed prior to p	oreservati	ions?		Y	N	NA				
Duplicate sa	uplicate sample collected?  Y N Duplicate sample ID												
Dineate blac	nk collected	2					Y	N	1	Rinsate	blank ID	£	



1 We	EU DE	LECOP	MEN	6-		Job Ir	nformatio	on				
	2/14/13						Time:			11:20		depart 12:10
Project N	Name: Syn	mphor	Ly .	-			Projec	t Num	ber:	0224	198	*
Site Loca	ation: Ld	dell					Samp		N. I	4		
Well ID:	LG-MI	W03		1		8	Weath	ner:	Fin	4		(4.1)
						Equ	uipment					
Water qu	ality equipm	ent descrip	otion:	VA.	8 17		Int	erface	probe	e númber:	Jestu	W9300159
Purging e (please o	equipment: cirlce)		r type:	Plast Peris	ic taltic	Teflon	ersible	Mici	ro-pu	rge /	Amazon	Other:
			3	We	II Gaugin	g and Pu	ırge Volu	me C	alcu	lations		
Casing D	iameter		25mm	50mm	100mm	125mm	150mm	2001	mm	250mm	300mm	Volume of water in well / V
Conversion (volume in fa	on Factor		0.49	1.96	7.85	12.3	17.7	31.4	4 .	49.1	70.7	V = volume in litres P = 3.14159
-8.0	Total Well Depth (-) Water level (=) Water Column r = radius in cm h = height of water column in cm    Water Column   (x) Conversion Factor (=) Litres per 1 Well Volume											
					W	ater Qual	ity Paran	neter	5		-	
Doginalno	g purge time:	11:0	^	Endi	ng purge ti	700.40	1000	icici	_	Pump I	ntake Dep	th (mbtoc):
Litres	Time	:3	Temp	C C	ond	DO	Redox	Drawo			omments	
20	11.20			ms	S/cm I	mg/L	mV	~10	CITI	blach,	turbid	, slight H. Codow.
40	11:35									becon	zing do	ed to clear after 20t.
. 60	11:45			+-								Ht H. Codow
86	11:50				2.57			-				horging as pumping
100.	11:53			-							./	, , , , ,
110	12:00									TO 10	P.	tunes personal.
										der	rtope	
												137
20												
	*pH	ł, temp, con	d readings r	not necess	ary if well is	purged dry	Examp	le Cor	nmen	its: clear / slight o	slightly clou odour / odo	udy / turbid / very turbid / no odour / ur / strong odour / drawdown depth
110	Tota	al Well Vo	lume of water prior	r to sampli	na .		Sample	time .	_		Conta	iners used
	Flo	w rate minute	n water prior	to dampi		d paramet	ers stabilis	e?	YN	I NA	Was the	well dry purged?
					-	Field Q	C Check	5				
Was pre-cl	eaned samp	lina eauipi	ment used	for these	samples?		Y	1		1,150		· a6
	eaning samp						tion? Y	N	1			
59	nentation of						Y	N	NA			
	ubbles prese				?		Y	N	NA			
	e for metals						Y	N	NA		96 V	
	ample collec						Y	N		Duplica	te sample	ID
	mk collected						Y	N	1	Rinsate	blank ID	



	WE	WE	VELO	PME	٠٠٠]	Job	Informatio	on				
Date: ব্	depart 4:30											
Project Na	ame: אן	111602	1				Projec	ct Nun	nber:	0224	198	
Site Locat	ion: ( (ŋ	ŒU					Samp	ler: 🗸	TH			
Well ID: \	LH- >	MOOI					Weath	ner: 🔇	س	-Ld-	1 - H	4
						E	quipment					
Water qua	lity equip	ment desc	ription:				Int	erface	probe	number	bokelul	14261 30-
Purging ed (please cir			ler type: np type:	Plas Peri	stic staltic	Teflo	n mersible	Mic	ro-pur	ge .	Amazon	Other:
				W	ell Gaug	jing and F	Purge Volu	ıme C	Calcul	ations		
Casing Dia	ameter		25mm	50mm	100mi	m 125mn	n 150mm	200	mm	250mm	300mm	Volume of water in well / V = Pr x r x h
Conversio (volume in fac			0.49	1.96	7.85	12.3	17.7	31.	4	49.1	70.7	V = volume in litres
Total Well	<i>~</i> '	(-) Wa	ater level		(=) Wate	r Column						P = 3.14159 r = radius in cm h = height of water column in cm
1.70	>	_ m (-)	Wat	er Colum			_ m rsion Factor	· (=)	Litres p	oer 1 Well	Volume	n - neight of water column in cm
	Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  6.345 ' m (x) 1.70 (=) 12.44 L											
Depth to p	Depth to product:m Product Thickness:m Verified with Bailer:											
		Sin Co.				Water Qu	ality Para	mete	rs			
Beginning	purae tin	ne:		End	ding purge	96 - p. 27 - 25 25 25 25 25 25 25 25 25 25 25 25 25		is galler	<u>yFlat, Jalest</u>	Pump	Intake Dep	th (mbtoc):
Litres	Time		Tem	<del></del>	Cond	DO	Redox	Draw	/down		omments	- 17
	- 40				nS/cm	mg/L	mV	<10	0cm	2	. طمه	and cleaning with
29	3.26									100 ec	نعي رحا	red.
10 L,	3:40	<u> </u>				***************************************				Asa	bove	
10_	3:50							_		As o	محو	
70	3155									pund	Swiel	a regitate bottom at new
41	4pm									A	aar	,
91	4.07	<u>~</u> '								Asa	bone	
64	4:150	Λ <u> </u>					25	<u> </u>	<u></u>	^	<u> </u>	
SL	4:200				16	- 42	2,700		P	As o	wook	e ·
			GO GO	bung	747	ZE TOM	00 gr	2	Øy_			
		STE	, 7960	2 for	E	76 0	[K	D	•			
	1	*pH, temp,	cond reading			ell is purged o	dry Exam	ple Co	ommer			udy / turbid / very turbid / no odour / our / strong odour / drawdown depth
20,		<b>Total Well</b> Actual amou		rior to sam	npling		Sample	e time	-		Conta	iners used
Flow rate mL/minute Did field parameters stabilise? Y N NA Was the well dry purged? Y N												
Field QC Checks												
Was pre-cleaned sampling equipment used for these samples? Y N												
Was pre-cl	Was pre-cleaning sampling equipment properly protected from contamination?											
Was docur	Was documentation of equipment conducted?											
Were air b	Were air bubbles present in vials at time of collection?											
	Was sample for metals field filtered prior to preservations?  Y N NA											
Duplicate s							The state of the s	YN	1	ر Duplic	ate sample	e ID
Rinsate bla							-	YN	1	Rinsat	e blank ID	

Groundwater - well sampling data form.cdr



	DEVE		KAT			Job I	nformatio									
	112/12						Time:			<del></del>	depart					
	ame: 54				······································			Project Number: 0224198 Sampler: -tH								
	ion: U															
Well ID:	LH-M	MO5					Weath	ner: 😿	L HOT	मं तक	R.					
		1.5		~		Eq	uipment									
Water qua	ality equipm	ent descrip	otion:				Int	erface p	robe num	nber: Ceal	rech 18 30m #4261					
Purging ed (please cit			r type:	Plastic Perist		Teflor Subm	ersible	Micro	o-purge	Amazon	Other:					
				Well	Gaugii	ng and P	urge Volເ	ıme Ca	lculatio	ns						
Casing Di	ameter		25mm	50mm	100mm	125mm	150mm	200m	ım 250r	nm 300mm	Volume of water in well / V					
Conversio			0.49	1.96	7,85	12.3	17.7	31.4	49.	1 70.7	V = volume in litres P = 3.14159					
Total Well  7. 91  Depth to p	Depth  S  product:			Column S·86	) _ <b>5.</b> { (i m(					Well Volume	r = radius in cm h = height of water column in cm					
					V	later Qua	ality Para	meters								
Beginning	purge time	):		Endin	g purge	en a granden i de era				ımp Intake Dep	oth (mbtoc):					
Litres	Time	PH	Temp		ond /cm	DO mg/L	Redox mV	Drawd		Comments	. 00					
1121	1:35-	2:10					T	>	Pu	rbund po	gar to stone after					
									25 CL	-3012 P	i untial douchies					
									~	odar	oppost.					
									re	change	offens to be					
									Su	Church	+ Homantons P					
									AGI	مدمما	e after 901 was					
									ve	y sla						
	*/	рН, tетр, со	ond readings	not necess	ary if well	is purged d	Exam	ple Cor	nments: c	lear / slightly clo slight odour / odo	oudy / turbid / very turbid / no odour / our / strong odour / drawdown depth					
	Ad FI	otal Well V etual amount low rate L/minute	<b>olume</b> t of water prid	or to sampli	_	ield param	Sample eters stabil		THE PROPERTY OF THE PROPERTY O		ainers used					
						Field	QC Chec	ks								
Was pre-c	leaned san	npling equi	pment used	d for these	e sample:	Company (Company)		Y N	24.1531.1545.001	; <u>, 400</u>	ester until tre en l'action en la respectation de la little de l'All Carlos de Labour (1912). All training de					
			ipment proj				nation?	Y N	1							
•	Ū		nt conducte	•			-	Y N	NA.	and a second second second						
			s at time of		1?	and some		YN	NA							
			red prior to			CONTRACTOR OF THE PROPERTY OF		Y N	NA							
•	sample coll				Andrew Control of the		-	Y N	$\vdash$	uplicate sample	e ID					
•	ank-collecte			-			F	YN	1	insate blank ID						



Date: 9	12/1	2 2	· · · · · · · · · · · · · · · · · · ·				Time:	arrive	4:00	<b>&gt;</b>	depart	56	5	
*	1	MMON	u u			t Number:		<u> </u>			7			
		Docu		1			Sampl	er: 11	1					
Well ID:							Weath	er: U	ndy	T Hot	•			
						Eq	uipment		\ 					
Water qua	lity equip	ment desc	ription:				Inte	erface prob	e number:	Coch	wh	16	426135	2~~
Purging ed (please cir			er type:	Plast Peris	tic staltic	Teflor	ersible	Micro-pu	ırge /	Amazon	(	Other:		
g tra				We	II Gaugir	ng and P	urge Volu	me Calcu	lations		25			
Casing Dia	ameter		25mm	(50mm	100mm	125mm	150mm	200mm	250mm	300mm	Volume = Pr x i		er in well / V	
Conversio (volume in fac			0.49	1.96	7.85	12.3	17.7	31.4	49.1	70.7	V = vol	ume in I	itres	
	Total Well Depth (-) Water level (=) Water Column r = radius in cm  1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1													. cm
( . )	Water Column (x) Conversion Factor (=) Litres per 1 Well Volume													
water Column (x) Conversion Factor (=) Litres per 1 well volume  (x) Conversion Factor (=) Litres per 1 well volume  (x) Litres per 1 well volume														
Depth to product: m Product Thickness: m Verified with Bailer:Y														
	Water Quality Parameters													
Beginning	Beginning purge time: Ending purge time: Pump Intake Depth (mbtoc):													
Litres														
104	4:40	, -	_					٦	Samuel Lanch	two, d	مريح	, (3	Juday	
	1 (-								mit	7 4	Med	40 6	phy	
									carte		b		4	
46	4:54								0	عاص	٦			
1	Spri	.   -							- ~	· als				
		rege	ned	t (	Lowe	<u>_</u> 's,t	_ 5:10	pm -	+ c=	-tu	تىق	for		۵
		\												
		*pH. temp.	cond readin	as not neces	ssary if well	is puraed d	<sub>rv</sub> Exam	ple Comme	ents: clear	slightly clo	udy / turb	id / very	turbid / no odo	ur /
0.0		Total Well		·					slight	odour / odo	our / strong	g odour	drawdown de	pui
15	$\longrightarrow$	Actual amou		orior to sam	pling		Sample	time		Conta	ainers use	∋d		
		Flow rate mL/minute			Did fi	eld param	eters stabili	se? Y	N NA	Was the	well dry	purged'	YN	
	Field QC Checks													
Was pre-cl	leaned s	ampling eq	uipment us	sed for the	se sample:	s?		Y N						
Was pre-cl	leaning s	ampling eq	uipment p	roperly pro	tected from	m contami	nation?	Y N	and the second second second second	and the second section is a second	The second second		,	
Was docur	Was documentation of equipment conducted?													
Were air b	Were air bubbles present in vials at time-of collection?  Y N NA													
Was sample for metals field filtered prior to preservations?  Y N NA														
Duplicate s	sample c	ollected?	Martin					YN	Duplic	ate sample	e ID			
Rinsate bla	ank colle	cted?						YN	Rinsat	e blank ID				



WEI	4	EUE	LOM	149		Job In	formatio	n							
Date: \c			001		71		Time:	arriv	e S	8.45.		depart 9.30 .			
Project Na	ame:	SYMPH	,024.				Projec	eject Number: b224198							
Site Loca	tion: 🛌	LISDA!	-				Samp	Sampler: TH							
Well ID:	LH-	- MWO"	<b>S</b> .				Weath	ner: ८		EAR					
	i i j					Equ	ipment								
Water qua	ality equip	pment desc	ription:				Inte	erface p	robe	number:	_				
Purging e (please ci			ler type: mp type:	Plastic Peristal	tic /	Teflon		Micro	-purç	ge /	Amazon	Other:			
				Well	Gaugin	g and Pu	rge Volu	me Ca	lcula	ations					
Casing Di	iameter		25mm	60mm	100mm	125mm	150mm	200m	m 2	250mm	300mm	Volume of water in well / V			
Conversion (volume in fa			0.49	1.96	7.85	12.3	17.7	31.4		49.1	70.7	= Prxrxh V = volume in litres P = 3.14159			
Total Well Depth (-) Water level (=) Water Column r = radius in cm h = height of water column in cm															
8	m (-)m (=)m = neight of water column in cm  Water Column (x) Conversion Factor (=) Litres per 1 Well Volume  m (x)m (=)L														
Double to			m								V	N			
Depth to p	Depth to product m Product Thickness: m Verified with Bailer: Verified with Bailer.														
						ater Qual	ity Parai	neters							
Beginning	1				purge tir		o <u>ss</u> andossandossandos	1.70	-			th (mbtoc):			
Litres	Time	PH	301	mS/c	m	DO mg/L	Redox mV	Prawdo <10c			calan				
201	85	io Ru	MPIUS	Sur	ENC	GA TH	0,1			alou	1	of left Dunger			
		4	Calore	Crist						49	edo	ons water being			
										netu	road				
工.	9AM	, -		_				_	,	Solar	to	approx stopped			
(/#I										10 No	سطمص	bem returned.			
22	9:15										some,	9			
0.5	9.25	5.			_					As c	nade	ν.			
J							N29	SVE							
	SUE	RUS	10 DEC	5013	15	3,7 -				E	WELL				
		フレ	was	YOU	INZ	, - SL	10 ml	ECH	AV	ا سار	WELL	ERED DEVELOPED			
		*pH, temp,	cond readings	not necessar	ry if well is	s purged dry	Exam	ple Con	men	ts: clear i slight	slightly clo	udy / turbid / very turbid / no odour / our / strong odour / drawdown depth			
25,6	5	Total Well	Volume nt of water prid	or to sampling	n		Sample	e time	_		_ Conta	ainers used			
		Flow rate mL/minute	nt or mater price			ld parame	ters stabil	ise?	N	NA	► Was the	well dry purged? Y N			
mL/minute  Did field parameters stabilise?  Was the well dry purged?  Y N N  Field QC Checks															
Was pre-cleaned sampling equipment used for these samples?															
E1		80 8795 NA	uipment prop					Y N							
			ent conducte	resultativationes Usait	101 E W E 102			2000	NA						
			als at time of		C.			Y N	NA						
	•		tered prior to					YN	NA						
Duplicate							-	Y N		Duplic	ate sample	e ID			
Rinsate bl	ected?					Y N		Rinsat	e blank ID						