

Attachment C – Borelogs

No

Borehole Log Hole ID. BH1

Project Number:

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Name:

Hole Depth: GW Encountered:

Location / Site: **Baird Reserve**

45970

NSW EPA Client:

Drill Company: N/A

Drill Method: **Hand Auger** Easting: 336442 Date Started: 10/02/2015 Northing: 6241038

Date Completed: 10/02/2015 Zone: 56H

MOI (bo	loqm/	Туре	Makeda Decembrica		Samples /	Tests		Observations / Comments
vvater imiow Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	
				Grass					
_0.1			Fill	FILL - SAND, dark brown, medium grained, some root inclusions, occasional brick fragments.	dry	BH1_0.0-0.05	7	max = 2	No visual or olfactory signs of contamination observed.
0.3									
_0.4	*	SP	Natural	SAND - light grey, medium grained.	slightly moist	BH1_0.4-0.5			No visual or olfactory signs of contamination observed.
0.5	o			End of Hole at 0.50m					
_0.6	5			in Natural					
0.7	7								
_0.8	3								
_0.9	9								
1.0	,								

Observations

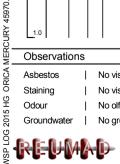
Notes

Asbestos No visual evidence of asbestos noted during drilling. Hg Vapour (ng/m³) 1m above Ground Level: max = <2, Avg = ---.

Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

Odour No olfactory (e.g. odour) evidence of contamination noted during drilling.

Groundwater | No groundwater encountered during drilling.



Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au Logged By: **Aaron Young** Checked By: Colin McKay

Date: 10/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. BH2



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Baird Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 10/02/2015

Date Completed: 10/02/2015

Easting: 336431

Hole Depth:

GW Encountered:

Northing: 6241064

Zone: 56H

low)	Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Occupants	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments	
					Woodchip and Topsoil						
	0.1			Fill	FILL - SAND, dark brown, medium grained, some root inclusions, some gravel inclusions.	slightly moist	BH2_0.0-0.05	6.5	max = 4	No visual or olfactory signs of contamination observed.	
	0.30		SP	Natural	SAND - light grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.	
+	0.50				End of Hole at 0.50m						
_	0.6				in Natural						
	0.7										
	_0.8										
	0.9										
	1.0										
		ervati	ons					Notes	(ng/m³) 1m ah	ove Ground Level: max = <2, Avg =	
Si	sbes tainir dour roun	ng	 - er	N N	to visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			ng vapoul	(ng/iii) im ac	ove Giounu Level. Iliax = <2, Avg =	
R	Œ	U	/4 /	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 10/02/2015 Date: 24/03/2015	

Observation	s			Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = <2, Avg =			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
TO TENANT	N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	



Borehole Log Hole ID. BH3 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth: Project Number: GW Encountered:

Barwon Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: Easting: 337087 **Hand Auger**

Date Started: 10/02/2015 Northing: 6240756 Date Completed: 10/02/2015 Zone: 56H

wo How		Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow Depth (m)		Graphic Log	USCS Symbol	Material Type	wateriar Description	Moisture	ID No.	pН	Hg Vapour ng/m³	
					Grass					
_0.	1				FILL - Silty SAND, dark brown, medium grained, root inclusions, gravel inclusions (20mmØ), mudstone, shale, bitumen, blue metal, plastic.	dry	BH3_0.0-0.0£	5 6	max = 2	
	5			킅•	FILL - Silty SAND, dark brown, medium grained, gravel inclusions (50-80mmØ), sandstone, bitumen, blue metal.	dry				No visual or olfactory signs of contamination observed.
_0.4	4						BH3_0.4-0.5	ì		
0.5	<u>, </u>				End of Hole at 0.50m					
_0.0	6				in Fill					
_0.	7									
_0.8	3									
_0.9	9									
1.0										
		vatio	ns			1		Notes	1	1
Asb Stair	esto ning ur	s	1	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipits o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.				r (ng/m³) 1m ak	ove Ground Level: max = 2, Avg =
R	=[州	A A	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By		a Childs IcKay	Date: 10/02/2015 Date: 24/03/2015

Observation	s			Notes		
Asbestos	Τ	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 2, Avg =			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
fr-f-A+M	M	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	

Borehole Log Hole ID. BH4 Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Barwon Park NSW EPA

Drill Company: N/A

Location / Site:

Date Started:

Client:

Drill Method: **Hand Auger**

10/02/2015

Date Completed: 10/02/2015

Easting: 336985

GW Encountered:

Northing: 6240792

Zone: 56H

low	()	Log	/mbol	Туре	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenai Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, dark brown, medium grained, occasional gravel inclusions (<10mmØ), occasional plastic fragments.	dry	BH4_0.0-0.05	5 6	max = 11 Avg = 9	
	0.2			Fill						
	0.4						BH4_0.4-0.5			
	0.50				End of Hole at 0.50m		БП4_0.4-0.3	'		
_	0.6				in Fill					
	0.7									
	0.8									
	0.9									
	1.0 hse	ervatio	one					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) not Odour No olfactory (e.g. odour) evidence of contamination noted during d Groundwater No groundwater encountered during drilling.									(ng/m³) 1m ab	ove Ground Level: max = 14, Avg = 12.
Observations Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling. Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By	Philippa : Colin Mo		Date: 10/02/2015 Date: 24/03/2015

Observation	ıs			Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 14, Avg = 12.		
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	-	No groundwater encountered during drilling.				
TO TELL LINE	N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	

Borehole Log Hole ID. BH₅ 0.50 m Hole Depth:

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Barwon Park** Client: **NSW EPA**

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 10/02/2015

Date Completed: 10/02/2015

337003 Easting:

GW Encountered:

Northing: 6240894

Zone: 56H

flow	2	Log	ymbol	Type	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	wateriai Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
		\bigotimes			FILL - Silty SAND, dark brown, medium grained, root inclusions.	moist	BH5_0.0-0.05	6	max = 22	No visual or olfactory signs of contamination observed.
	_0.1									
	0.2	\bigotimes								
	_0.2			HII						
	0.30				FILL - SAND, light brown, occasional grey	very				No visual or olfactory signs of
					FILL - SAND, light brown, occasional grey Silt mottles, medium grained.	wet				No visual or olfactory signs of contamination observed.
	_0.4						DUE 0 4 0 5			
	0.50						BH5_0.4-0.5			
					End of Hole at 0.50m in Fill					
	_0.6									
	0.7									
20.00										
0 0 10	_0.8									
MOT 909/0.01 01/0/12 100.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10	0.9									
V CP5.076	- ^{0.9}									
	1.0									

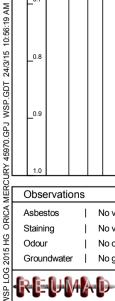
Observations Hg Vapour (ng/m³) 1m above Ground Level: max = 25, Avg = ---. Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling. Log Drawn By: Laurie White Logged By: Philippa Childs Date: 10/02/2015

Checked By:

Colin McKay

Date:

24/03/2015



Borehole Log Hole ID. BH6 Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Barwon Park NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

10/02/2015

Date Completed: 10/02/2015

Easting: 336948

GW Encountered:

Northing: 6240987

Zone: 56H

llow)	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасена Дезсприоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
-	_0.1			Fill	FILL - SAND, dark grey / brown, fine to medium grained, occasional gravel inclusions (10-30mmØ), occasional roots and plastic.	slightly moist	BH6_0.0-0.05	6.5	max = <2	
-	0.30				SAND - yellow, medium grained, minor concretions.	slightly moist				No visual or olfactory signs of contamination observed.
-	_0.4		SP	Natural						
				2			BH6_0.4-0.5			
	0.50	(*, W. N.)			End of Hole at 0.50m in Natural					
	_0.6									
	0.7									
	_0.8									
	0.9									
<u></u>	1.0	nyati	one				1	Notes		
A S	sbes tainir dour	ng		N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted of groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = <2, Avg =
R	0	U	4	\-(i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 10/02/2015 Date: 24/03/2015

Observation	s			Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = <2, Avg =		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
frf=A+M	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	

GW Encountered:

Borehole Log Hole ID. BH7 Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

Location / Site: **Barwon Park NSW EPA** Client:

Project Number:

WSP Environmental Pty Ltd Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Drill Method: Easting: 337040 **Hand Auger** Date Started: 10/02/2015 Northing: 6241033 Date Completed: 10/02/2015 Zone: 56H

MOII (F	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
vvater imiow Depth (m)	Graphic Log	USCS Symbol	Material Type	масна <i>Везе</i> приоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1				FILL - Silty SAND, dark brown, medium grained, root inclusions.	slightly moist	BH7_0.0-0.05	5 7	max = <2 Avg = <2	No visual or olfactory signs of contamination observed.
0.30			Fill						
_0.4		× × × × × × × × × × × × × × × × × × ×		FILL - Sandy SILT, darker brown, medium grained, a clinker inclusion.	slightly moist	BH7_0.4-0.5			No visual or olfactory signs of contamination observed.
0.50	, 💢			End of Hole at 0.50m					
_0.6				in Fill					
_0.7									
_0.8									
0.9									
1.0									
Asbe Stain Odou	ing		l N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = <2, Avg = <2.
R	Q)	M/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 10/02/2015 Date: 24/03/2015

ೞ.						
MEF	Observation	s			Notes	
SA	Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = <	2, Avg = <2.
Ö	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
H	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
5 201	Groundwater	1	No groundwater encountered during drilling.			
LOG	Go G= N LNA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 10/02/2	2015

No

Borehole Log Hole ID. BH8

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Barwon Park NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 10/02/2015

Date Completed: 10/02/2015

Easting: 337049

Hole Depth:

GW Encountered:

Northing: 6240456

Zone: 56H

MOI	2	Log	ymbol	Type	Meterial Description		Samples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	
					Grass					
	0.1			Ξ	FILL - Silty SAND, dark brown, medium grained, root inclusions.	slightly moist	BH8_0.0-0.05	5 7	max = 3 Avg = 3	No visual or olfactory signs of contamination observed.
a	0.30				SAND - brown, medium grained.	slightly				No visual or olfactory signs of
a	0.35		SP		-	moist				contamination observed.
	0.4		SP	Natural	SAND - dark orange, medium grained, occasional sand concretions.	slightly moist	BH8_0.4-0.5			No visual or olfactory signs of contamination observed.
4	0.50						_			
					End of Hole at 0.50m in Fill					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
OI	bse	ervati	ons					Notes	•	
Sta	ainir dour	ng	 er	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipil o olfactory (e.g. odour) evidence of contamination noted of o groundwater encountered during drilling.			Hg Vapo	ur (ng/m³) 1m a	above Ground Level: max = 4, Avg = 2.
2	Œ	Q+(/4/	- [Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By		oa Childs McKay	Date: 10/02/2015 Date: 24/03/2015

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 4, Avg = 2.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	I	No groundwater encountered during drilling.				
frf=A+M	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	

No

Borehole Log



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Franklin Street Reserve

Client: **NSW EPA**

Drill Company: N/A

337691 Drill Method: **Hand Auger** Easting:

Date Started: 10/02/2015 Northing: 6240467

Date Completed: 10/02/2015 Zone: 56H

Hole ID.

Hole Depth:

GW Encountered:

MOIL	(r	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water	Depth (m)	Graphic Log	USCS Symbol	Material Type	watchar Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - Silty SAND, dark grey, medium grained, disturbed, glass fragment.	slightly moist	BH9_0.0-0.05	6.5	max = 5 Avg = 2	No visual or olfactory signs of contamination observed.
	0.15 _0.2	XXX			SAND - light grey / brown, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.3		SP	Natural						
	0.4						BH9_0.4-0.5			
+	0.50				End of Hole at 0.50m in Natural					
-	0.6				in Natural					
-	0.7									
	_0.8									
	0.9									
	1.0									
		ervati	ons					Notes	(na/m³) 1	one Cround Lough may = 2. A.m. = 40.
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) not Odour No olfactory (e.g. odour) evidence of contamination noted during drilling.								нд Vapour	(ng/m²) 1m ab	ove Ground Level: max = 2, Avg = <2.
R	Œ	0+6	4	-ſi	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Mo		Date: 10/02/2015 Date: 24/03/2015

Observations	Notes



No

Hole Depth:

GW Encountered:

BH10 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Franklin Street Reserve Location / Site:

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 337745 **Hand Auger** Date Started: 10/02/2015 Northing: 6240463

Date Completed: 10/02/2015 Zone: 56H

flow	(L	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Secondary	Moisture	ID No.	pН	Hg Vapour ng/m³	Specification (Communication)
					Grass					
					SAND - grey / brown, medium grained, root inclusions.	slightly moist	BH10_0.0-0.0	5 6.5	max = 18 Avg = 16	No visual or olfactory signs of contamination observed.
	_0.1		SP							
	0.15				SAND - light yellow, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
			CD.	Natural						
	_0.3		SP							
	0.40					1: 1.4				
			SP		SAND - light grey, medium grained.	slightly moist	BH10_0.4-0.5	5		No visual or olfactory signs of contamination observed.
0.	0.50	11 /4/11			End of Hole at 0.50m in Natural					
					iii ivatarai					
ŀ	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0 Obse	ervati	ons			1		Notes		L
A S	sbes tainii)doui	stos ng		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 18, Avg = 16.
R	- GE	Wall	4	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Me		Date: 10/02/2015 Date: 24/03/2015

Observation	S			Notes
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 18, Avg = 16.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
Groundwater		No groundwater encountered during drilling.		
	_	Lea Danie Din Leurie White	Lawred Du	Dellines Childs Deter 40/00/0045

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH11**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Rabaul Way Reserve Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 337619 **Hand Auger**

Date Started: 10/02/2015 Northing: 6241277

Date Completed: 10/02/2015 Zone: 56H

How	(1	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасенаі Дезсі іріюн	Moisture	ID No.	рН	Hg Vapour ng/m³	Specivations / Summerica
					Grass					
	_0.1		SP		SAND - SAND, light brown / yellow, fine to medium grained, occasional small root inclusions.	dry	BH11_0.0-0.0	5 6	max = 46 Avg = 38	No visual or olfactory signs of contamination observed.
	0.15				grading to					
	_0.2			ral	SAND - light yellow, medium to coarse grained.	slightly moist				No visual or olfactory signs of contamination observed.
-	_0.3		SP	Natural						
-	_0.4									
							BH11_0.4-0.5	5		
†	0.50				End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
_		ervati	ons			1		Notes	1	1
A S	sbes tainir	stos ng	 	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted olo groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 41, Avg = 40
R	•	()-(4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 10/02/2015 Date: 24/03/2015

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 41, Avg = 40.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted d	uring drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	j .			
Groundwater	1	No groundwater encountered during drilling.				
C- C- 0 : 0 :		Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015	

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH12**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Rabaul Way Reserve

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 337600 **Hand Auger** Date Started: 10/02/2015 Northing: 6241302

Date Completed: 10/02/2015 Zone: 56H

low	_	Log	/mbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, brown / grey, fine grained, occasional inclusions of clay, coke, ash, sandstone and concrete cobbles (100-150mmØ).		BH12_0.0-0.0	5	max = <2 Avg = <2	
	_0.2			Ē						
	_0.3 0.40				grading to					
	0.50		SP	Natural	SAND - light brown, medium grained.	slightly moist	BH12_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
-	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
С	bse	rvati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.								Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = <2, Avg = <2.
R	Œ	H	4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs lcKay	Date: 10/02/2015 Date: 24/03/2015

	Observation	s			Notes	
5	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = <2, Avg = <2.
5 3	Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
	Groundwater	-	No groundwater encountered during drilling.			
3	o G= N LNA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 10/02/2015



Borehole Log Hole ID. **BH13** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Name:

Project Number: 45970

Location / Site: Nagle Park **NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

336619 Easting:

GW Encountered:

Northing: 6242705

Zone: 56H

low)	-og	/mbol	Туре	Material Providence		Sam	ples / Tests		Observations (Occurrent)
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, dark brown / grey, medium grained, root inclusions.	dry	BH13_0.0-0.0	5	max = 2 Avg = 2	No visual or olfactory signs of contamination observed.
ſ	0.15			≣E •	FILL - SAND, light grey, fine to medium grained, occasional bitumen fragments and gravels (20mmØ).	dry				No visual or olfactory signs of contamination observed.
_	0.30				SAND - light grey / white, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	0.4		SP	Natural	g.aca.		BH13_0.4-0.5			
	0.50						БП13_0.4-0.8	<u> </u>		
					End of Hole at 0.50m in Natural					
ŀ	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	rvati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.								Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 7, Avg = 5.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:		a Childs IcKay	Date: 11/02/2015 Date: 24/03/2015



No

Borehole Log Hole ID. **BH14**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

> Nagle Park **NSW EPA**

Drill Company:

Location / Site:

Date Started:

Client:

Drill Method: **Hand Auger**

11/02/2015

Date Completed: 11/02/2015

Easting: 336673

Hole Depth:

GW Encountered:

Northing: 6242767

Zone: 56H

low		6o-	mbol	Гуре			Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, dark brown, fine grained, root inclusions.	dry	BH14_0.0-0.05	6	max = 10 Avg = 8	No visual or olfactory signs of contamination observed.
	0.15 _0.2				FILL - SAND, light brown / dark brown mottled, fine to medium grained, dark brown sand concretions.	dry				No visual or olfactory signs of contamination observed.
	_0.3			H						
	_0.4						BH14_0.4-0.5			
	0.50	***			End of Hole at 0.50m in Fill					
	_0.6									
N 02.00	_0.7									
200	_0.8									
MC 02:00:01 01:0142 1:00:1004 01:00:00:00 1:00	_0.9									
	1.0									

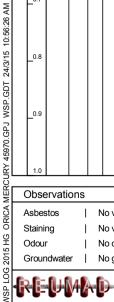
Observation	s			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	und Level: max = 10, Avg = 9.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
fiz fi=fitMa	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015

Checked By:

Contact: laurie.white@reumad.com.au

Colin McKay

Date: 24/03/2015



Borehole Log Hole ID. **BH15** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m Project Number: GW Encountered: No

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Nagle Park Location / Site: **NSW EPA** Client:

Drill Company:

Drill Method: Easting: 336730 **Hand Auger** Date Started: 11/02/2015 Northing: 6242829 Date Completed: 11/02/2015 Zone: 56H

MOIL	<u></u>	Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pŀ	Hg Vapour ng/m³	
					Grass					
	0.1				FILL - SAND, dark brown, fine to medium grained, root inclusions, coke / charcoal gravel inclusions (5-15mmØ).	dry	BH15_0.0-0.0	5 7	max = 3 Avg = 2	
	0.2			Ē.	FILL - SAND, light brown, slightly mottled, medium grained, with sand concretions (10-30mmØ).	dry				No visual or olfactory signs of contamination observed.
-	0.30	***			SAND - dark brown / grey, fine grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.4		SP	Natural			BH15_0.4-0.5	5		
1	0.50				End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
		rvati	ons					Notes		
As St	sbes ainir dour	itos ng		N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted of o groundwater encountered during drilling.				ur (ng/m³) 1m a	bove Ground Level: max = 2, Avg = 2.
R	Œ	W	A	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		oa Childs McKay	Date: 11/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground	d Level: max = 2, Avg = 2.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted d	uring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015

No

Borehole Log Hole ID. **BH16**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Nagle Park Location / Site: **NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 336817

Hole Depth:

GW Encountered:

Northing: 6242783

Zone: 56H

MOIL	<u></u>	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імаснаі Дезспріют	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, dark brown, fine to medium grained, occasional gravel inclusions (50mmØ).	dry	BH16_0.0-0.0	5 5.5	max = 3 Avg = 2	No visual or olfactory signs of contamination observed.
	0.15 _0.2			≣ .	FILL - SAND, dark brown / grey, medium to coarse grained, coke and sandstone gravel inclusions (10-40mmØ).	dry				
	_0.4		SP	Natural	SAND - light brown / grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
							BH16_0.4-0.5	5		
Ť	0.50	((N.N)			End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	_0.8									
	0.9									
	1.0									
0	bse	rvati	ons					Notes		
A: Si O	sbes tainir dour	itos ng		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted of to groundwater encountered during drilling.				r (ng/m³) 1m ab	pove Ground Level: max = 4, Avg = 3.
R	Œ	U	/4/	\ [Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs IcKay	Date: 11/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Le	evel: max = 4, Avg = 3.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Da	ate: 11/02/2015



No

Borehole Log Hole ID. **BH17**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: Nagle Park **NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 336750

Hole Depth:

GW Encountered:

Northing: 6242708

Zone: 56H

Mow	<u></u>	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасенаї Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Confinents
					Grass					
	0.10				FILL - SAND, dark brown, fine to medium grained, occasional coke / charcoal gravel inclusions (5mmØ).	dry	BH17_0.0-0.0	5 6.5	max = 25 Avg = 18	
	0.20			ii:	FILL - SAND, dark grey / light grey, medium grained, 30% coke / charcoal gravel inclusions (5-10mmØ).	dry				
	0.30				FILL - SAND, light yellow / grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.30	XXX			SAND - light grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.4		SP	Natural						
	0.50						BH17_0.4-0.5	5		
					End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
		rvati	ons					Notes		_
St	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipi lo olfactory (e.g. odour) evidence of contamination noted of lo groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 20, Avg = 16
R	Œ	U	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKav	Date: 11/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 20, Avg = 16.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater	1	No groundwater encountered during drilling.			
MINITES	N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015

GW Encountered:

Borehole Log Hole ID. **BH18** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.30 m

Project Number:

45970

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Location / Site: Nagle Park **NSW EPA** Client: Drill Company: Drill Method: Easting: 336678 **Hand Auger**

Date Started: 11/02/2015 Northing: 6242634 Date Completed: 11/02/2015 Zone: 56H

wo (u	Log	ymbol	Type	Material Description	Sam	ples / Test	s		Observations / Comments
Water Imlow Depth (m)	Graphic Log	USCS Symbol	Material Type		ID No.	р	н	Hg Vapour ng/m³	
				Grass					
_0.1			HE	FILL - SAND, dark brown, light grey / yellow sand concretions (5-50mmØ), occasional dark brown sand concretions (10-15mmØ).	BH18_0.0-0.0	5 5.	.5	max = 8 Avg = 7	No visual or olfactory signs of contamination observed.
0.30					BH18_0.2-0.3	В			
				Refusal at 0.30m in Fill on gravel inclusions					
_0.4									
0.5									
_0.6									
_0.7									
_0.8									
_0.9									
1.0									
Obs	ervat	ions				Notes			
Asbe Stain Odou Grou	ing	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipitate) noted lo olfactory (e.g. odour) evidence of contamination noted during drillir lo groundwater encountered during drilling.		Hg Vapo	our (r	ng/m³) 1m ab	ove Ground Level: max = 6, Avg = 5.
R	U	W/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:			Childs Cav	Date: 11/02/2015 Date: 24/03/2015

ೞ.						
MEF	Observation	s			Notes	
SA	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Leve	el: max = 6, Avg = 5.
Š	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
H	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
, Z01	Groundwater	I	No groundwater encountered during drilling.			
, E	Go G= N±N4	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date	e: 11/02/2015

Borehole Log Hole ID. **BH19** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Heffron Park NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

336672 Easting:

GW Encountered:

Northing: 6241650

Zone: 56H

low)	-og	/mbol	Туре	Material Description		Sam	ples / Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
					FILL - SAND, dark brown, fine grained, root inclusions.	dry	BH19_0.0-0.0	5 6	max = 27 Avg = 19	No visual or olfactory signs of contamination observed.
	_0.1									
	0.15 _0.2			Hill Hill	FILL - Silty SAND, grey / brown mottled, fine grained.	dry				No visual or olfactory signs of contamination observed.
	_0.3									
	0.35	XXX		le.	SAND - light grey, fine grained.	slightly moist				No visual or olfactory signs of contamination observed.
			SP	Natural			BH19_0.4-0.5	5		
+	0.50				End of Hole at 0.50m in Natural					
	0.6									
	_0.7									
	_0.8									
	0.9									
	:-									
	1.0									
	bse sbes	ervati tos	ons I	N	lo visual evidence of asbestos noted during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 39, Avg = 26.
	tainir Idour	-		N	lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted of					
		idwate	er		lo groundwater encountered during drilling.		·y.			
R	Œ	U	/4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Me		Date: 11/02/2015 Date: 24/03/2015



Borehole Log Hole ID. **BH20** Hole Depth: 0.30 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

11/02/2015

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger** Easting: 336630

GW Encountered:

Northing: 6241906

Date Completed: 11/02/2015 Zone: 56H

wo (c		601	ymbol	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow Depth (m)		Gapile	USCS Symbol	indicate South Peter in	Moisture	ID No.	pH	Hg Vapour ng/m³	
				Grass					
_0.	1			FILL - SAND, brown, fine grained, igneous gravel inclusions (5-40mmØ).	dry	BH20_0.0-0.0	5 7.5	max = 24 Avg = 20	No visual or olfactory signs of contamination observed.
0.:						BH20_0.2-0.3	3		
				Refusal at 0.30m in Fill due to cobbles					
_0.4	4								
0.8	5								
_0.0	6								
_0.	7								
_0.	8								
0.9	9								
1.0	0								
Obs	serv	atio	ns				Notes		
Stair	estos ining our oundw		 	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precip No olfactory (e.g. odour) evidence of contamination noted No groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 22, Avg = 18.
R	=0	J	1 / A	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 11/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	Ground Level: max = 22, Avg = 18.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
C- C- 0 : 0 :	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015

Borehole Log Hole ID. **BH21** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 336986

GW Encountered:

Northing: 6241973

Zone: 56H

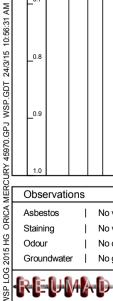
low)	6o-	/mbol	Туре	Material Description		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Sand					
					SAND - SAND, white, medium grained, root inclusions.	dry	BH21_0.0-0.05	5.5	max = 6 Avg = 4	No visual or olfactory signs of contamination observed.
	_0.1									
	0.2		SP							
				Natural						
	0.30			Ž	SAND - SAND, light yellow, slightly mottled, medium grained.	slightly				No visual or olfactory signs of contamination observed.
	0.4				mottled, medium grained.	moist				contamination observed.
			SP				BH21_0.4-0.5			
	0.50				End of Hole at 0.50m					
					in Natural					
	_0.6									
2	_0.7									
10.30.31										
0.64	_0.8									
W5F.9	_0.9									
MST 16.06.01 6176/15 10.07.07.07.07.07.07.07.07.07.07.07.07.07										
<u></u>	1.0									

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 4, Avg = 4.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	١	No groundwater encountered during drilling.				
MINITES	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015	

Checked By:

Colin McKay

Date: 24/03/2015



No

Borehole Log Hole ID. **BH22**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 337092

Hole Depth:

GW Encountered:

Northing: 6241862

Zone: 56H

low)	Log	/mbol	Туре	Metarial Description		Sam	Samples / Tests			Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH Hg Vapou		Hg Vapour ng/m³	Observations / Comments
					Grass						
	0.1				FILL - Silty SAND, dark brown, fine grained.	dry	BH22_0.0-0.0	5	5	max = 27 Avg = 22	No visual or olfactory signs of contamination observed.
	0.15			iii ,	FILL - Silty SAND, dark brown / light brown mottled, fine grained, coal gravel inclusions (5-20mmØ).	slightly moist					
	0.25 _0.3	XXX			SAND - light brown, medium grained.	slightly moist					No visual or olfactory signs of contamination observed.
-	_0.4		SP	Natural			BH22_0.4-0.5	5			
4	0.50				End of Hole at 0.50m						
	0.6				in Natural						
	_0.7										
	_0.8										
	0.9										
	1.0										
A S	sbes tainir dour	ng		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Notes Hg Vap		(ng/m³) 1m ab	ove Ground Level: max = 22, Avg = 19.
R	Œ	U	A	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:			Childs Kay	Date: 11/02/2015 Date: 24/03/2015

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 22, Avg = 19.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted				
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
ES ES ALMA	A	Log Drawn By: Laurie White	Philippa Childs	Date: 11/02/2015		



No

Borehole Log Hole ID. **BH23**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 336871

Hole Depth:

GW Encountered:

Northing: 6241836

Zone: 56H

MOI		Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
		\bigotimes			FILL - SAND, dark brown, fine grained, root inclusions.	dry	BH23_0.0-0.0	5 5	max = 31 Avg = 26	No visual or olfactory signs of contamination observed.
ŀ	0.1	\bigotimes								
0	0.15	$\overset{\otimes}{\otimes}$		Hill	FILL - Silty SAND, brown / grey, fine to	slightly				
Γ	0.2	\bigotimes			medium grained, clinker gravel inclusions (5-30mmØ).	moist				
	0.3	XXX			SAND - grey, medium grained, gravel concretions (5mmØ).	slightly moist				No visual or olfactory signs of contamination observed.
				al						
ŀ	0.4		SP	Natural						
							BH23_0.4-0.5	5		
10	0.50	<u>(1, 14.14.)</u>			End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	0.8									
	-									
L	0.9									
	1.0 hse	ervati	ons					Notes		
As Sta	sbes ainir dour	tos ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.				r (ng/m³) 1m ab	ove Ground Level: max = 29, Avg = 24
2	Œ	U	4	\-[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Philippa Childs Date: 11/02/2015 Checked By: Colin McKay Date: 24/03/2015			

Observations		Notes			
Asbestos	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 29, Avg = 24.			
Staining	No visual evidence of contamination (e.g. staining / precipitate) noted				
Odour	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	No groundwater encountered during drilling.				
ES ES ALMAN	Log Drawn By: Laurie White	Philippa Childs	Date: 11/02/2015		

No

Borehole Log Hole ID. **BH24**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 336855

Hole Depth:

GW Encountered:

Northing: 6241682

Zone: 56H

Jow	(Pog	/mbol	Type	Material Description		Sam	ples / T	ests		Observations / Comments	
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments	
					Grass							
-	_0.1			Fill	FILL - SAND, light brown, fine to medium grained, clinker gravel inclusions (5-80mmØ), sandstone gravel inclusions (5-50mmØ).	dry	BH24_0.0-0.05	7	Dup3 Trip3	max = 27 Avg = 19		
	0.30	***	SP	Natural	SAND - light brown / light yellow mottled, fine to medium grained.	slightly moist	DU04 0 4 0 5				No visual or olfactory signs of contamination observed.	
	0.50						BH24_0.4-0.5					
	0.6				End of Hole at 0.50m in Natural							
-	0.7											
	_0.8											
	0.9											
	1.0											
A S	sbes tainir dour	ng		N N	lo visual evidence of asbestos noted during drill lo visual evidence of contamination (e.g. staining lo olfactory (e.g. odour) evidence of contamination groundwater encountered during drilling.	g / precipita			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 23, Avg = 18.	
R	Œ	V	/4/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.	com.au	Logged Checker		Philippa Colin Mo		Date: 11/02/2015 Date: 24/03/2015	

Observation	s		Notes			
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 23, Avg = 18.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of				
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
fiz fi=fitMa	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015	



GW Encountered:

Borehole Log Hole ID. **BH25** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

Heffron Park Location / Site: **NSW EPA** Client:

Project Number:

WSP Environmental Pty Ltd Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Drill Method: Easting: 336953 **Hand Auger** Date Started: 11/02/2015 Northing: 6242140 Date Completed: 11/02/2015 Zone: 56H

MOM.	<u>_</u>	Log	ymbol	Type	Material Description		Samp	oles / Tests		Observations / Comments	
water illiow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description		ID No.	рН	Hg Vapour ng/m³	Caste Rations / Comments	
					Grass						
	0.1				FILL - SAND, brown / grey, very fine to fine grained, clinker gravel inclusions (5-30mmØ).	dry	BH25_0.0-0.0	5 6	max = 18 Avg = 14		
	0.3			Fill							
	0.40 0.50				FILL - SAND, light grey, fine grained, gravel inclusions (to 5mmØ).	slightly moist	BH25_0.4-0.5	j		No visual or olfactory signs of contamination observed.	
	0.6				End of Hole at 0.50m in Fill						
_	0.7										
-	0.8										
	0.9										
	1.0										
As Sta	sbes ainir dour	ng		N N	to visual evidence of asbestos noted during drilling. To visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted of groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 14, Avg = 11.	
R	Œ	UI	4	√ſi	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 11/02/2015 Date: 24/03/2015	

Observation	s		Notes				
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 14, Avg = 11.				
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of					
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.				
Groundwater	1	No groundwater encountered during drilling.					
ED EL UTA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015		

Borehole Log Hole ID. **BH26** 0.50 m



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth: GW Encountered:

Project Number: **Heffron Park** Location / Site:

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 337874 **Hand Auger** Date Started: 11/02/2015 Northing: 6242163

Date Completed: 11/02/2015 Zone: 56H

flow	í l	Log	ymbol	Туре	Material Description		Sam	ples / Tes	sts		Observations / Comments
Water Inflow	nden (r	Graphic Log	USCS Symbol	Material Type	material 2000 pater.	Moisture	ID No.	No. pH		Hg Vapour ng/m³	
					Grass						
_0					FILL - SAND, brown / grey, very fine to fine grained, clinker gravel inclusions (5-30mmØ).	dry	BH26_0.0-0.0	5	7	max = 26 Avg = 22	
0.:	25).3			Ē.	FILL - SAND, brown / light grey mottled, fine to medium grained, clinker gravel inclusions (5-15mmØ).	slightly moist					
	50				End of Hole at 0.50m		BH26_0.4-0.5	5			
_0.).6				in Fill						
_0.).7										
_0.	0.8										
_0.	0.9										
1.	.0										
Ast Sta	best ining our	g	 	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted do o groundwater encountered during drilling.			Notes Hg Vap		(ng/m³) 1m abo	ove Ground Level: max = 22, Avg = 19.
[R-[E	H	A	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:			Childs Kay	Date: 11/02/2015 Date: 24/03/2015	

Observation	ns			Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 22, Avg = 19.				
Staining	- 1	No visual evidence of contamination (e.g. staining / precipitate) noted					
Odour	- 1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ng.				
Groundwate	.	No groundwater encountered during drilling.					
	1 N	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date	te: 11/02/2015		

No

Borehole Log Hole ID. **BH27**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 11/02/2015

Date Completed: 11/02/2015

Easting: 337217

Hole Depth:

GW Encountered:

Northing: 6242006

Zone: 56H

llow	(1	Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1			Fill	FILL - SAND, dark brown, fine to medium grained, occasional clinker gravel inclusions (40mmØ).	dry	BH27_0.0-0.0	5 8.5	max = 18 Avg = 14	
	0.20				FILL - SAND, grey / brown mottled, fine to medium grained, occasional clinker gravel	slightly moist				
	0.25	XXX			inclusions (10-40mmØ). SAND - light grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	_0.4		SP	Natural			BH27_0.4-0.5	5		
+	0.50				End of Hole at 0.50m		_			
	_0.6				in Natural					
	_0.7									
	_0.8									
	_0.9									
	1.0									
С	bse	ervati	ons					Notes		
S	sbes tainir Odour Groun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted o lo groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 14, Avg = 6.
R	Œ	V	4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Me		Date: 11/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 14, Avg = 6.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
ES ES DAMA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 11/02/2015



Borehole Log Hole ID. **BH28** Hole Depth: 0.30 m



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

Date Completed: 12/02/2015

12/02/2015

Easting: 337177

GW Encountered:

Northing: 6242340

Zone: 56H

MOI -		go-	/mbol	Туре	Malada Danada Fan		Sam	ples / Tests		Ohara Mara (Oannarah
Water Inflow	mepun (m	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - SAND, dark brown, fine grained, igneous gravel inclusions (5-30mmØ).	dry	BH28_0.0-0.0	5 7	max = 26 Avg = 24	No visual or olfactory signs of contamination observed.
	30						BH28_0.2-0.3	3		
	00	xxx			Refusal at 0.30m in Fill					
Lo).4									
Lo).5									
Lo).6									
Lo).7									
_0).8									
_0).9									
1	1.0									
Observations								Notes		
Ast Sta Ode	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater No groundwater encountered during drilling.								r (ng/m³) 1m ab	ove Ground Level: max = 23, Avg = 19.
R	=	()-(4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKay	Date: 12/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 23, Avg = 19.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015



GW Encountered:

Borehole Log Hole ID. **BH29** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

Heffron Park Location / Site: **NSW EPA** Client:

Project Number:

WSP Environmental Pty Ltd Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Drill Method: Easting: 336917 **Hand Auger** Date Started: 12/02/2015 Northing: 6242292 Date Completed: 12/02/2015 Zone: 56H

woll (c	Log	ymbol	Type	Material Description	_	Samı	ples / Tests		Observations / Comments
Water Inflow Depth (m)	Graphic Log	USCS Symbol	Material Type	wacha Descripton	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1				FILL - SAND, light brown, fine grained, root inclusions.	dry	BH29_0.0-0.0	5 7	max = 6 Avg = 2	No visual or olfactory signs of contamination observed.
0.25			_	Grading to					
_0.3	\otimes			FILL - SAND, light grey / brown, fine grained, with glass and aluminium fragments.	dry				
_0.4						BH29_0.4-0.5	5		
0.50	0 💢			End of Hole at 0.50m in Fill					
_0.6	5								
_0.7	,								
_0.8	3								
_0.9	,								
1.0									
Obs	serva	tions					Notes		
Asbe Stair Odo Grou	ning	ter	N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipil lo olfactory (e.g. odour) evidence of contamination noted of lo groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 4, Avg = 2.
RE	U	M	A-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 12/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 4, Avg = 2.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drillin	g.		
Groundwater	-	No groundwater encountered during drilling.			
6-6-0-0-		Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015

GW Encountered:

Borehole Log Hole ID. **BH30** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

Heffron Park Location / Site: **NSW EPA** Client: **WSP Environmental Pty Ltd**

Project Number:

Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Drill Method: Easting: 336871 **Hand Auger** Date Started: 12/02/2015 Northing: 6242305 Date Completed: 12/02/2015 Zone: 56H

How	۽ ا	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watcha <i>Безе</i> приот	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
_0	0.1				FILL - SAND, light brown, fine to very fine grained, occasional clinker gravel (10-20mmØ).	dry	ВН30_0.0-0.0	5 6	max = 14 Avg = 10	
	0.2			Fill						
	0.3 . 40				FILL - SAND, light brown, fine to medium	olightly				No visual or olfastory signs of
0.	.50			Natural	grained.	slightly moist	BH30_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
L	0.6									
L	0.7									
L	0.8									
L	0.9									
1	1.0									
Ob	ose	rvatio	ons					Notes		
Sta	bes ainin lour oun	ng	 r r	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted o lo groundwater encountered during drilling.			Hg Vapou	· (ng/m³) 1m ab	ove Ground Level: max = 11, Avg = 10.
R	Ē	0+1	M/	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 12/02/2015 Date: 24/03/2015

Observations				Notes	
Asbestos		No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above 0	Ground Level: max = 11, Avg = 10.
Staining	l	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	l	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
6- 6- 0 : 0 / 0	ħ.	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015

Borehole Log Hole ID. **BH31** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Heffron Park NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 12/02/2015 Date Completed: 12/02/2015

336500 Easting: Northing: 6242252

GW Encountered:

Zone: 56H

low	_	6o-	/mbol	Туре	Material Description		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - SAND, slightly Silty, brown, fine to very fine grained, root inclusions.	dry	BH31_0.0-0.05	6.5	max = 24 Avg = 16	No visual or olfactory signs of contamination observed.
	_0.35				FILL - SAND, brown, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	0.50		SP	Natural	SAND - light brown, medium grained.	slightly moist	BH31_0.4-0.5			No visual or olfactory signs of contamination observed.
	_0.6				End of Hole at 0.50m in Natural					
WIN 80.00.0	_0.7									
0.000	_0.8									
MO 500.00 0 15/42 100.1004 0.00.1004 100	_0.9									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:56:39 AM No groundwater encountered during drilling.

Groundwater |

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 33, Avg = 23.

Date: 12/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH32**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Heffron Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

Easting: 336545

Hole Depth:

GW Encountered:

Northing: 6242066

Zone: 56H

low	m) Log		/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, brown, fine grained, root inclusions.	dry	BH32_0.0-0.0	5 6	max = 18 Avg = 12	No visual or olfactory signs of contamination observed.
	0.2			Fill						
	0.40			-	SAND - light brown, fine to medium	dry				No visual or olfactory signs of
	0.50		SP	Natural	grained.	dry	BH32_0.4-0.5	5		contamination observed.
1	0.50				End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	_0.8									
	_0.9									
	1.0									
С)bse	rvati	ons					Notes		
S	sbes tainir dour iroun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted d lo groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 12, Avg = 10.
R	Œ	W	4	₩[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Me		Date: 12/02/2015 Date: 24/03/2015

Observation	IS			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 12, Avg = 10.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
ES E TIM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 12/02/2015	



GW Encountered:

Borehole Log Hole ID. **BH33** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: Location / Site: **Heffron Park**

Client: **NSW EPA**

Drill Company:

Drill Method: **Hand Auger** Easting: 336777

Date Started: 12/02/2015 Northing: 6241935 Date Completed: 12/02/2015 Zone: 56H

Samples / Tests USCS Symbol Material Type Water Inflow Graphic Log Depth (m) Material Description Observations / Comments Moisture Hg Vapour ng/m³ ID No. рΗ Grass dry FILL - SAND, dark brown, fine to medium No visual or olfactory signs of max = 227 BH33_0.0-0.05 grained, root inclusions. contamination observed. Avg = 16 Ē 0.2 SAND - light brown, fine to medium dry No visual or olfactory signs of contamination observed. Natural 0.4 SF BH33_0.4-0.5 End of Hole at 0.50m in Natural 0.6 0.7

Σ		_0.7				
10:56:40 A						
24/3/15		_0.8				
WSP.GDT		_0.9				
WSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:56:40 AM		1.0				
CUF		1.0				
MER	(Dbse	ervati	ons		
ICAI	A	Asbes	stos	- 1	١	lo v
OR	5	Stainii	ng	- 1	Ν	lo v
5 HG	(Odoui	r	- 1	Ν	lo c
201	(Grour	idwate	er	Ν	lo g
WSP LOG	f	Œ	V	4 /	+[)

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. No olfactory (e.g. odour) evidence of contamination noted during drilling.

No visual evidence of asbestos noted during drilling.

No groundwater encountered during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 18, Avg = 14.

Date: 12/02/2015 Date: 24/03/2015

0.30 m

No

Borehole Log Hole ID. **BH34**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Pioneers Park**

Client: **NSW EPA**

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

12/02/2015

Date Completed: 12/02/2015

338060 Easting:

Hole Depth:

GW Encountered:

Northing: 6240988

Zone: 56H

low	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests		Observations (Occupants		
Water Inflow							ID No.	р	Н	Hg Vapour ng/m³	Observations / Comments
					Grass						
	0.1				FILL - Silty SAND, dark brown, fine grained, occasional gravel inclusions (5-10mm), concretions of sand and gravel.	dry	BH34_0.0-0.0	5 8	8	max = 33 Avg = 28	No visual or olfactory signs of contamination observed.
		\bigotimes		Ē							
	0.20				FILL - Silty SAND, dark brown / grey, fine grained, clumps of moist clay, fibrous material (likely geofabric), occasional glass inclusions.	slightly moist	BH34_0.2-0.3	3			
1	0.30	xxx			Refusal at 0.30m in Fill						
	0.4										
-	0.5										
	_0.6										
_	0.7										
	_0.8										
	0.9										
	1.0										
С		ervati	ons								
S	sbes tainir dour froun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.				ove Ground Level: max = 27, Avg = 23.		
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By:					



0.40 m

No

Borehole Log Hole ID. **BH35**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Pioneers Park**

Client: **NSW EPA**

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

338186 Easting:

Hole Depth:

GW Encountered:

Northing: 6241077

Zone: 56H

flow	2	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Samples / Tests			Observations / Comments
Water Inflow	Depth (m)						ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
					FILL - Silty Clayey SAND, dark brown, root inclusions.	dry	BH35_0.0-0.05	5.5	max = 53 Avg = 51	No visual or olfactory signs of contamination observed.
	_0.1									
	0.20			≣↾	FILL - Sandy CLAY, dark brown / grey, stiff.	moist				No visual or olfactory signs of contamination observed.
	_0.3									
							BH35_0.3-0.4			
	0.40				Refusal at 0.40m in Fill					
	0.5									
	_0.6									
	0.7									
7.00:										
MC 24:00:01 01 0142 100:1004 010:01604 100	0.8									
7 100.10										
200	_0.9									
	1.0									

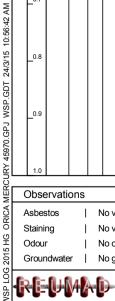
Observations Hg Vapour (ng/m³) 1m above Ground Level: max = 40, Avg = 35. Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater | No groundwater encountered during drilling. Log Drawn By: Laurie White Logged By: Philippa Childs Date: 12/02/2015

Checked By:

Colin McKay

Date:

24/03/2015



Borehole Log Hole ID. **BH36** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m No

Location / Site: Client:

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

WSP Environmental Pty Ltd

Project Number: GW Encountered: **Pioneers Park**

NSW EPA Drill Company: N/A

Drill Method: Easting: 338107 **Hand Auger** Date Started: 12/02/2015 Northing: 6241173 Date Completed: 12/02/2015 Zone: 56H

low	(1	Log	ymbol	Material Type	Material Description	Sam	ples / Tes	sts		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material	waterial Description	ID No.	ı	pН	Hg Vapour ng/m³	Observations / Comments	
					Grass						
-	_0.1				FILL - SAND, light brown, medium grained, occasional sand concretions or sandstone gravel inclusions (5-50mmØ).	ВН36_0.0-0.0	5 6	6.5	max = 59 Avg = 50	No visual or olfactory signs of contamination observed.	
•	_0.2 			Fill	Grading to						
	0.4				FILL - SAND, light brown / brown, medium grained, sandstone gravel inclusions (10-50mmØ).					No visual or olfactory signs of contamination observed.	
	0.50					BH36_0.4-0.5	5				
					End of Hole at 0.50m in Fill						
	_0.6										
	_0.7										
	_0.8										
	_0.9										
	1.0										
C)bse	ervati	ons				Notes				
S	sbes tainii)doui Grour	ng	 	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipitate) noted lo olfactory (e.g. odour) evidence of contamination noted during drillir lo groundwater encountered during drilling.		Hg Var	pour ((ng/m³) 1m ab	ove Ground Level: max = 36, Avg = 34.	
R	•		/4/	\(Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:			Childs Kay	Date: 12/02/2015 Date: 24/03/2015	

Observation	ıs			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 36, Avg = 34.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
6-6-0-0-		Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015

0.40 m

No

Borehole Log Hole ID. **BH37**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Pioneers Park

NSW EPA Client:

Drill Company: N/A

Location / Site:

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

Easting: 338014

Hole Depth:

GW Encountered:

Northing: 6241091

Zone: 56H

MOII (e		USCS Symbol		3hc	Material Description		Samples / Tests		Observations / Comments	
vvater imfow Depth (m)	Craphic Loc		USCS Symbol	Materia	waterial Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
_0.	1				FILL - SAND, light brown, fine grained, oot inclusions.	dry	BH37_0.0-0.0	5 5.	max = 16 Avg = 8	No visual or olfactory signs of contamination observed.
_0.1			Ē		FILL - Silty Clayey SAND, dark brown, fine grained, clay and silt concretions.	slightly moist				No visual or olfactory signs of contamination observed.
_0.:							BH37_0.3-0.4	1		
0.4	10 🔀	×-		F	Refusal at 0.40m n Fill due to stiff clay					
0.	5									
_0.0	6									
_0.	7									
_0.8	8									
_0.9	9									
1.0	0									
	serv	atior	าร					Notes	-	1
Asb Stair	estos ning	i	 	No v	visual evidence of asbestos noted during drilling. visual evidence of contamination (e.g. staining / precipit olfactory (e.g. odour) evidence of contamination noted of groundwater encountered during drilling.				ur (ng/m³) 1m ab	pove Ground Level: max = 8, Avg = 8.
R	=[J	A	Þ	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		oa Childs McKay	Date: 12/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 8, Avg = 8.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENINA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015

0.40 m

No

Borehole Log Hole ID. **BH38**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Pioneers Park NSW EPA**

Drill Company: N/A

Client:

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

338276 Easting:

Hole Depth:

GW Encountered:

Northing: 6240932

Zone: 56H

ow		go.	mbol	rype			Samp	oles / Tes	sts		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments
					Grass						
					FILL - SAND, brown / grey, fine grained, root inclusions, occasional clinker gravel and rubber.	dry	BH38_0.0-0.05	7	Dup Trip	max = 47 Avg = 45	
	_0.1			١							
	0.2			Ē							
	_0.3			١							
	0.40						BH38_0.3-0.4				
					Refusal at 0.40m in Fill on cobbles						
	0.5										
	_0.6										
	_0.7										
	_0.8										
	_0.9										
	1.0										

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:56:44 AM

Groundwater

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

Contact: laurie.white@reumad.com.au

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Date: 12/02/2015 Date: 24/03/2015

Hg Vapour (ng/m³) 1m above Ground Level: max = 52, Avg = 51.

Borehole Log Hole ID. **BH39** Hole Depth: 0.40 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Pioneers Park NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

Easting: 338206

GW Encountered:

Northing: 6240876

Zone: 56H

low	()	Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, light brown / light grey, fine to medium grained, root inclusions.	dry	ВН39_0.0-0.0	5 5	max = <2 Avg = <2	No visual or olfactory signs of contamination observed.
	0.20			Fill	FILL - SAND, light grey, fine grained, sandstone gravel inclusions (10-80mm).	dry				No visual or olfactory signs of contamination observed.
	_0.3						BH39_0.3-0.4	1		
+	0.40				Refusal at 0.40m in Fill due to gravel					
	0.5									
	_0.6									
	_0.7									
•	_0.8									
	_0.9									
	1.0									
A S	sbes Stainii Odoui	ng	 	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do lo groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 2, Avg = <2.
R			4	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Mo		Date: 12/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 2, Avg = <2.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015

No

Borehole Log Hole ID. **BH40**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Pioneers Park NSW EPA**

Drill Company: N/A

Client:

Drill Method: **Hand Auger**

Date Started: 12/02/2015

Date Completed: 12/02/2015

Easting: 338099

Hole Depth:

GW Encountered:

Northing: 6240798

Zone: 56H

low	(1	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, slightly Silty, dark brown, very fine to fine grained, root inclusions.	dry	BH40_0.0-0.0	5 6	max = 12 Avg = 7	No visual or olfactory signs of contamination observed.
	0.15			EIII	FILL - SAND, light brown, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	0.30				FILL - SAND, dark brown / light brown mottled, fine grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.4		SP	Natural	SAND - light brown / light yellow mottled, fine to medium grained, cemented sand inclusions (5-15mmØ).	slightly moist				No visual or olfactory signs of contamination observed.
	0.50			Na			BH40_0.4-0.5	5		
	0.00				End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
С	bse	ervati	ons					Notes		
S	sbes tainir dour Groun	ng	 er	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapoui	(ng/m³) 1m ab	ove Ground Level: max = 9, Avg = 6.
R	Œ	U	4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 12/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground	d Level: max = 9, Avg = 6.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	uring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 12/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH41**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Sir Joseph Banks Park Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 333555 **Hand Auger** Date Started: 13/02/2015 Northing: 6241415

Date Completed: 13/02/2015 Zone: 56H

MOIL	(1	Log	ymbol	Type	Material Description		Sam	ples / Tests	Observations / Comments		
water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імаленаі Дезсприон	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments	
					Grass						
			SM		Silty SAND - dark brown, fine to medium grained, root inclusions.	moist	BH41_0.0-0.0	5 6	max = 8 Avg = 7	No visual or olfactory signs of contamination observed.	
	0.1 										
	_0.2		SP	_	SAND - brown, fine to medium grained.	moist				No visual or olfactory signs of contamination observed.	
	0.25			Natural	Grading to SAND - light brown, medium grained, shell inclusions (5-15mmØ).	moist				No visual or olfactory signs of contamination observed.	
	_0.4		SP								
	0.50						BH41_0.4-0.5	5			
	0.50				End of Hole at 0.50m in Natural						
	_0.6										
	0.7										
	_0.8										
	_0.9										
	1.0										
C	Obse	ervati	ons					Notes			
S	sbes Stainir Odour Groun	ng	 er	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted o o groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	pove Ground Level: max = 10, Avg = 8.	
R	Œ	W	A	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By		a Childs lcKay	Date: 13/02/2015 Date: 24/03/2015	

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	und Level: max = 10, Avg = 8.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	uring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH42**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Sir Joseph Banks Park Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 333921 **Hand Auger**

Date Started: 13/02/2015 Northing: 6241106

Date Completed: 13/02/2015 Zone: 56H

MO (وا	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water iffiliow	Depth (m)	Graphic Log	USCS Symbol	Material Type	nacora. 2000 pao.	Moisture	ID No.	p⊦	Hg Vapour ng/m³	Superior Community
					Grass					
			SP		SAND - dark brown, fine to medium grained, occasional root inclusions.	moist	BH42_0.0-0.0	5 6	max = 4 Avg = 3	No visual or olfactory signs of contamination observed.
Γ	0.1 . 15				Grading to					
_0	0.2		SP	ural	SAND - brown, fine to medium grained.	moist				No visual or olfactory signs of contamination observed.
0.	.30			Natural	SAND - light brown, medium grained.	moist				No visual or olfactory signs of
Lº	0.4		SP							contamination observed.
0.	.50						BH42_0.4-0.5	5		
					End of Hole at 0.50m in Natural					
_0	0.6									
Lº	0.7									
Lº	0.8									
Lo	0.9									
1	1.0									
Ob	sei	rvatio	ons					Notes	, , 2	
Sta Od	best ainin Iour ound	g	 r	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit: o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapo	ur (ng/m³) 1m al	pove Ground Level: max = 5, Avg = 3.
1		14	A/	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		oa Childs McKay	Date: 13/02/2015 Date: 24/03/2015

	Observation	s			Notes	
	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	und Level: max = 5, Avg = 3.
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
2	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
101	Groundwater	1	No groundwater encountered during drilling.			
	- C- O - O -	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015

0.60 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH43**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Sir Joseph Banks Park Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 334035 **Hand Auger**

Date Started: 13/02/2015 Northing: 6241266

Date Completed: 13/02/2015 Zone: 56H

woll (c	Log	ymbol	Type	Material Description		Sam	ples / Tests	_	Observations / Comments
water Imlow Depth (m)	Graphic Log	USCS Symbol	Material Type	масна <i>Везе</i> приоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1			Fill	FILL - SAND, brown, fine to medium grained, ash inclusions (15mmØ), charcoal / coke inclusions (5mmØ), ironstone concretions (<5mmØ).	dry	BH43_0.0-0.0	5 7(?)	max = 3 Avg = <2	
_0.4 				SAND - light brown, medium.	slightly	BH43_0.4-0.5	5		No visual or olfactory signs of
		SP	Natural	-	moist				contamination observed.
0.60	<i>)</i>			End of Hole at 0.60m in Natural					
0.7									
_0.8									
0.9									
1.0									
	ervat	ions					Notes		
Asbe Stair Odo	estos ning	1	N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.				r (ng/m³) 1m ab	ove Ground Level: max = 6, Avg = 2.
RE	U	M	H.	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKav	Date: 13/02/2015 Date: 24/03/2015

Observation	าร			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou	nd Level: max = 6, Avg = 2.
Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
6-6-0-6		Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH44**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Sir Joseph Banks Park

NSW EPA Client:

Drill Company:

Drill Method: Easting: 333222 **Hand Auger**

Date Started: 13/02/2015 Northing: 6241611 Date Completed: 13/02/2015 Zone: 56H

Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	Sam ID No.	ples / Tests	Hg Vapour	Observations / Comments
>		g		Σ		Σ			lig/iii	
_		~~			Grass					
	.10				FILL - SAND, dark brown, fine grained, large amount organic matter, some roots.	dry	BH44_0.0-0.0	5 5.5	max = 4 Avg = 2	No visual or olfactory signs of contamination observed.
	0.2				FILL - SAND, brown, fine grained, occasional roots, occasional blue metal gravel inclusions (5mm∅).	dry				No visual or olfactory signs of contamination observed.
0	.25	\bowtie		≣ -	Grading to					
	0.3				FILL - SAND, light brown, medium grained, shell grit, occasional blue metal gravel inclusions (5mmØ), occasional breeze.	dry				No visual or olfactory signs of contamination observed.
- [,	0.4	\bowtie								
r		\bowtie								
	K	\bowtie					BH44_0.4-0.5	5		
0	.50	\bigotimes								
					End of Hole at 0.50m in Fill					
ŀ	0.6									
ŀ	0.7									
F	0.8									
- [,	0.9									
Γ										
	1.0									
Ol	ose	rvatio	ons					Notes		
	best		ı	N	o visual evidence of asbestos noted during drilling.				r (ng/m³) 1m ab	ove Ground Level: max = 3, Avg = 2.
	ainin	-	١		o visual evidence of contamination (e.g. staining / precipit					
	dour ound	dwate	r 1		o olfactory (e.g. odour) evidence of contamination noted or o groundwater encountered during drilling.	during drillir	ng.			
ادی	Sui l	MIN.	140	J.	Log Drawn By: Laurie White		Logged By:	Colin N	сКау	Date: 13/02/2015

וווו	Observation	s			Notes	
5	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	ound Level: max = 3, Avg = 2.
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
פוני	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
201	Groundwater	1	No groundwater encountered during drilling.			
LCG	For DINA	SA.	Log Drawn By: Laurie White	Logged By:	Colin McKay	Date: 13/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH45**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Sir Joseph Banks Park Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 332970 **Hand Auger**

Date Started: 13/02/2015 Northing: 6241931

Date Completed: 13/02/2015 Zone: 56H

MOIL .	ج	Log	ymbol	Type	Material Description	_	Sam	ples / Tests		Observations / Comments
water illiow	Depth (m)	Graphic Log	USCS Symbol	Material Type	aco.a. 2000 pao.	Moisture	ID No.	pH	Hg Vapour ng/m³	OSSO INICIO DE COMPANDO
					Grass / Bare Sand					
	0.1				SAND - light brown, medium grained, occasional shell grit and fragments throughout.	dry	BH45_0.0-0.0	5 7	max = 10 Avg = 9	No visual or olfactory signs of contamination observed.
	0.2		SP	Natural						
	0.3 0.40				Grading to					
	0.50		SP		SAND - cream, medium grained.	dry	BH45_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
_	0.6									
L	0.7									
	0.8									
_	0.9									
	1.0									
Oł	bse	rvati	ons					Notes		
Sta	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Ddour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater No groundwater encountered during drilling.					Hg Vapou	· (ng/m³) 1m ab	ove Ground Level: max = 13, Avg = 12.		
2		(/4 /	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Colin M		Date: 13/02/2015 Date: 24/03/2015

Observati	ons			Notes	
Asbestos	- 1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 13, Avg = 12.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted duri	ng drilling.		
Odour		No olfactory (e.g. odour) evidence of contamination noted during drilling.			
Groundwate	er	No groundwater encountered during drilling.			
C- C- O . C		Log Drawn By: Laurie White	Logged By:	Colin McKay	Date: 13/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH46**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Garnet Jackson Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 334413 **Hand Auger** Date Started: 13/02/2015 Northing: 6242241

Date Completed: 13/02/2015 Zone: 56H

Mow (r	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow Depth (m)	Graphic Log	USCS Symbol	Material Type	watcha <i>Безе</i> приот	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1				FILL - Sandy Silty CLAY, dark brown, ash, coke and clinker fragments throughout (to 15mmØ).	dry	BH46_0.0-0.0	5 6.5	max = 38 Avg = 36	
_0.2			Fill						
0.50						BH46_0.4-0.5	5		
_0.6				End of Hole at 0.50m in Fill					
0.7									
_0.8									
_0.9									
1.0									
Asbe Stain Odou	ing		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m abo	ove Ground Level: max = 28, Avg = 24.
			N-C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Colin Mo		Date: 13/02/2015 Date: 24/03/2015

Observation	s			Notes
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 28, Avg = 24.
Staining		No visual evidence of contamination (e.g. staining / precipitate) noted d	uring drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
Groundwater	I	No groundwater encountered during drilling.		
C- C- D - D -	•	Log Drawn By: Laurie White	Logged By:	Colin McKay Date: 13/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH47**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Garnet Jackson Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 334424 **Hand Auger** Date Started: 13/02/2015 Northing: 6242162

Date Completed: 13/02/2015 Zone: 56H

low	(1	Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1 			Fill	FILL - SAND, brown, fine grained, root inclusions, occasional iron fragments (10mmØ, very corroded).	dry	BH47_0.0-0.0	5 6	max = 8 Avg = 6	No visual or olfactory signs of contamination observed.
	0.2		SP		SAND - light brown, fine grained, root inclusions.	dry				No visual or olfactory signs of contamination observed.
	0.35			Natural	Grading to					
-	0.4		SP		SAND - light brown, medium, occasional iron concretions / staining.	dry				No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
•	_0.6									
•	_0.7									
	_0.8									
	_0.9									
	1.0									
-		ervati	ons					Notes		
A S	sbes Stainir Odour	stos ng		N N	to visual evidence of asbestos noted during drilling. It visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted of groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 10, Avg = 8.
R		U	4	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Colin Mo	-	Date: 13/02/2015 Date: 24/03/2015

٧,					•	
	Observation	S			Notes	
Ş	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max =	10, Avg = 8.
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
, Z01	Groundwater	١	No groundwater encountered during drilling.			
S S	fof: NiNa	SA.	Log Drawn By: Laurie White	Logged By:	Colin McKay Date: 13/02	2/2015



0.20 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH48**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Garnet Jackson Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 334497 **Hand Auger**

Date Started: 13/02/2015 Northing: 6242180

Date Completed: 13/02/2015 Zone: 56H

flow	(-	Log	ymbol	Type	Material Description	Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass				
	0.1			Ē	FILL - Silty SAND, dark brown, fine grained, roots throughout, some blue metal and glass fragments (to 10mmØ).	BH48_0.0-0.0	5 6.5	max = 20 Avg = 16	No visual or olfactory signs of contamination observed.
	0.20			L		BH48_0.1-0.2	2		
	_0.3				Refusal at 0.20m on unknown object				
_	0.4								
	0.5								
-	_0.6								
	0.7								
	_0.8								
	_0.9								
	1.0								
A S	sbes tainii doui	ng		N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipitate) noted lo olfactory (e.g. odour) evidence of contamination noted during drilling lo groundwater encountered during drilling.		Notes Hg Vapoui	(ng/m³) 1m ab	ove Ground Level: max = 19, Avg = 18.
R	Œ	U	/4 /	₩[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:	Colin M		Date: 13/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 19, Avg = 18.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	١	No groundwater encountered during drilling.			
€5-E-U+W	M	Log Drawn By: Laurie White	Logged By:	Colin McKay	Date: 13/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH49**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Garnet Jackson Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 334477 **Hand Auger**

Date Started: 13/02/2015 Northing: 6242306

Date Completed: 13/02/2015 Zone: 56H

llow	۽ ا	Log	ymbol	Type	Material Description		Samp	oles / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	wateriai Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Clayey SAND, reddish orange, fine to medium grained, with brown silty sand mixed through.	dry	BH49_0.0-0.0	5 6	max = 31 Avg = 28	No visual or olfactory signs of contamination observed.
_°	.20			⊦HIII	FILL - Silty SAND, dark brown, fine to medium, (likely Fill).	dry	RIMO 0 4 0 5			No visual or olfactory signs of contamination observed.
0.	.50						BH49_0.4-0.5			
_0	0.6				End of Hole at 0.50m in Fill					
Lo	0.7									
_0	0.8									
_0	0.9									
1	1.0									
Ob	ose	rvatio	ons					Notes		
Sta	best ainin lour ound	ıg	 r	N N	to visual evidence of asbestos noted during drilling. It visual evidence of contamination (e.g. staining / precipital of location (e.g. odour) evidence of contamination noted description of the province of contamination of the province of contamination of the province of contamination of the province			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 32, Avg = 30.
R		14	4	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Colin Mo		Date: 13/02/2015 Date: 24/03/2015

Observation	าร			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above 0	Ground Level: max = 32, Avg = 30.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater	-	No groundwater encountered during drilling.			
E TIM	L	Log Drawn By: Laurie White	Logged By:	Colin McKay	Date: 13/02/2015

No

Hole Depth:

Hg Vapour (ng/m^3) 1m above Ground Level: max = <2, Avg = <2.

Date: 13/02/2015

Date: 24/03/2015

GW Encountered:

Borehole Log Hole ID. **BH50**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Garnet Jackson Reserve**

Client: **NSW EPA**

Drill Company: N/A

Drill Method: **Hand Auger** Easting: 334412

Date Started: 13/02/2015 Northing: 6242351 Date Completed: 13/02/2015 Zone: 56H

Samples / Tests USCS Symbol Material Type Water Inflow Depth (m) Material Description Observations / Comments Moisture Hg Vapour ng/m³ ID No. рΗ Grass FILL - Silty SAND, light brown, fine dry max = <2 BH50_0.0-0.05 grained, root inclusions, minor coke and Avg = <2clinker gravel (to 5mmØ). FILL - Silty SAND, brown / grey, fine grained, fine blue metal gravel inclusions, crushed sandstone fragments (10-20mmØ), dry aluminium can. 0.2 匮 0.3 BH50_0.1-0.5 0.4 End of Hole at 0.50m in Fill 0.6 0.7

	6-6-0-0		Log Drawn By: Laurie White	Logged By:	Colin McKav
	Groundwater	-			
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.	
;	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	

Checked By:

Colin McKay

No visual evidence of asbestos noted during drilling.

Contact: laurie.white@reumad.com.au

LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:56:53 AM

Observations

GW Encountered:

Borehole Log Hole ID. **BH51** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

> **Mutch Park** Location / Site: **NSW EPA** Client:

WSP Environmental Pty Ltd Drill Company: N/A

Project Number:

Drill Method: Easting: 335465 Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com **Hand Auger** Date Started: 13/02/2015 Northing: 6243073 Date Completed: 13/02/2015 Zone: 56H

llow .	_	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	iviateriai Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
_(0.1				FILL - Silty SAND, dark brown, fine grained, some charcoal and coke inclusions.	moist	BH51_0.0-0.0	7	max = 2 Avg = <2	
	0.2			Fill						
	0.4									
0.	.50						BH51_0.4-0.5	5		
_(0.6				End of Hole at 0.50m in Fill					
_(0.7									
_(0.8									
	0.9									
	1.0	n (cti						Notes		
As Sta	bes ainin lour	ng	 	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = <2, Avg = <2.
2	Ē	() +(A	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Aaron Y		Date: 13/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above 0	Ground Level: max = <2, Avg = <2.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drillin	g.		
Groundwater		No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Aaron Young	Date: 13/02/2015

Borehole Log Hole ID. **BH52** Hole Depth: 0.50 m



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Mutch Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 13/02/2015

Date Completed: 13/02/2015

Easting: 335486

GW Encountered:

Northing: 6243190

Zone: 56H

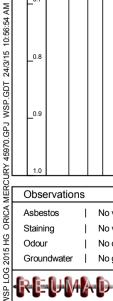
low)	6o-	/mbol	Туре	Material Providence		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1 <i>0.20</i>			Fill	FILL - SAND, dark brown, fine grained, root inclusions, occasional charcoal fragments (20mmØ).	dry	BH52_0.0-0.05	6	max = 22 Avg = 21	
	0.30				FILL - SAND, light brown / cream mottled, medium grained, crushed sandstone fragments (30mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.40		SP	ral	SAND - dark brown, medium grained. Grading to	dry				No visual or olfactory signs of contamination observed.
	0.50		SP	Natural	SAND - yellow, medium grained.	dry	BH52_0.4-0.5			No visual or olfactory signs of contamination observed.
	0.6				End of Hole at 0.50m in Fill					
100 to 10	_0.7									
0.000	_0.8									
0.00.00.00.00.00.00.00.00.00.00.00.00.0	1.0									

Observation	s			Notes	
Asbestos	ı	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 15, Avg = 18.
Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drillin	g.		
Groundwater	1	No groundwater encountered during drilling.			
GO GE OLOM	SA.	Log Drawn By: Laurie White	Logged By:	Aaron Young	Date: 13/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



Borehole Log Hole ID. **BH53** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

GW Encountered: **Mutch Park**

NSW EPA Client:

Drill Company: N/A

Location / Site:

Drill Method: Easting: 335584 **Hand Auger** Date Started: 13/02/2015 Northing: 6243103

Date Completed: 13/02/2015 Zone: 56H

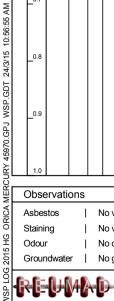
low		6o-	/mbol	Туре	Marie Description		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, dark brown, fine, some charcoal inclusions.	dry	BH53_0.0-0.05	6.5	max = 35 Avg = 30	
	0.2			Fill	Ell Clavov SAND dark brown fine to	dry				
	_0.4				FILL - Clayey SAND, dark brown, fine to medium grained, blue metal gravel, coke and crushed sandstone inclusions.	dry	BH53_0.4-0.5			
	0.50				End of Hole at 0.50m		_			
	_0.6				in Fill					
MY 00.00.	_0.7									
1.61/6/4/2 1.05.1	_0.8									
MAC 00:00:01 01/0/12 10:00:00 01:00:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00:00 01:00 01:00 01:00:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00 01:00	_0.9									

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	Ground Level: max = 22, Avg = 18.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
€2 €= N±NA	S A	Log Drawn By: Laurie White	Logged By:	Aaron Young	Date: 13/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



No

Borehole Log Hole ID. **BH54**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Mutch Park Location / Site:

NSW EPA Client:

Drill Company: N/A

Project Number:

Drill Method: **Hand Auger**

Date Started: 13/02/2015

Date Completed: 13/02/2015

Easting: 335567

Hole Depth:

GW Encountered:

Northing: 6242957

Zone: 56H

MOI	(Pog	/mbol	Samples / Tests Material Description						Observations / Comments	
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	мателаї Description	Moisture	ID No.	pŀ	DUP TRIP QC Hg Vapour ng/m³		Observations / Comments
					Grass						
	_0.1				FILL - SAND, dark brown, medium grained, occasional fragments of glass, plastic, coke, pine bark, blue metal gravel.	dry	BH54_0.0-0.05	6	Dup5 Trip5	max = 3 Avg = <2	
	_0.2 0.25			III.	Grading to						
	0.3			Н	FILL - SAND, brown, medium to coarse grained, with yellowish brown sandy clay and crushed sandstone.	slightly moist					No visual or olfactory signs of contamination observed.
_	_0.4										
1	0.50	XXX			End of Hole at 0.50m in Fill						
	0.6										
	0.7										
	_0.8										
	_0.9										
	1.0										
С	bse	ervati	ons						Notes		
S O	sbes tainir dour iroun	ng	 er	N N	lo visual evidence of asbestos noted during drilli lo visual evidence of contamination (e.g. staining lo olfactory (e.g. odour) evidence of contamination lo groundwater encountered during drilling.	g / precipita			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 4, Avg = 2.
R	(4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.	com.au	Logged Checke		Colin Mo	-	Date: 13/02/2015 Date: 24/03/2015

Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 4, Avg = 2.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Colin McKay	Date: 13/02/2015

56H

Borehole Log Hole ID. **BH55** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m Project Number: GW Encountered: No

Mutch Park

Location / Site:

Date Completed: 13/02/2015

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

NSW EPA Client: Drill Company: N/A Drill Method: Easting: 335516 **Hand Auger** Date Started: 13/02/2015 Northing: 6242868

Zone:

MOI	_	Log	/mpol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
water itiliow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, dark brown, fine grained, root inclusions, occasional concrete fragments (to 10mm∅).	dry	BH55_0.0-0.0	5 7	max = 5 Avg = 3	No visual or olfactory signs of contamination observed.
	0.2 0.30			Fill						
	0.4				FILL - Clayey SAND, brown, coarse grained, crushed sandstone (to 20mmØ), crushed concrete (to 10mmØ), terracotta and brick fragments (to 10mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.50						BH55_0.4-0.5	5		
Ĭ	0.50	×××			End of Hole at 0.50m in Fill					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	rvati	ons					Notes		
Si	sbes tainir dour roun	ng	 r	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapou	(ng/m³) 1m ab	oove Ground Level: max = 4, Avg = 4.
R		U	A	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Colin M	-	Date: 13/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 4, Avg = 4.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0-		Log Drawn By: Laurie White	Logged By:	Colin McKay Date: 13/02/2015	

Borehole Log Hole ID. Project Name: **Orica Mercury Independant Review** Project Number:

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Hole Depth: 0.40 m

GW Encountered: **Mutch Park** Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: Easting: 335460 **Hand Auger** Date Started: 13/02/2015 Northing: 6242733 Date Completed: 13/02/2015 Zone: 56H

) (c		lodmy	Type	Material Description		Sam	ples / Tests		Observations / Comments
Vater IIIIOW Depth (m)	Craphic Local	USCS Symbol	Material Type	Waterial Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0				FILL - Silty SAND, dark brown, fine grained, coke inclusions (10-15mmØ), crushed concrete (10-40mmØ), woodchips, light blue powder (possibly copper).	moist	BH56_0.0-0.0	5 7	max = 6 Avg = 3	No olfactory signs of contamination observed.
_0.:	3		III			BH56_0.3-0.4	1		
0.4	10 💢	×		End of Hole at 0.40m in Fill					
0.8	5								
_0.6	6								
_0.7	7								
_0.8	8								
_0.9	9								
1.0	0								
		ation	- <u>'</u>	'			Notes	1	
Asb Stair	estos ning	i	1	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted of No groundwater encountered during drilling.				⁻ (ng/m³) 1m ab	ove Ground Level: max = 8, Avg = 7.
R	=0	M	Æ	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs	Date: 13/02/2015 Date: 24/03/2015

Observation	s			Notes
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 8, Avg = 7.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
Groundwater	-	No groundwater encountered during drilling.		
6- 6- 0 t 0 4	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 13/02/2015

335363

No

BH57 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Mutch Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

Date Completed: 13/02/2015

13/02/2015

Easting:

Northing: 6242810

Zone: 56H

Hole Depth:

GW Encountered:

) (E	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Depth (m)	Graphic Log	USCS Symbol	Material Type	масна <i>Везе</i> приот	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1				FILL - Sandy Silty CLAY, dark brown, fine grained, terracotta and crushed sandstone inclusions (10mmØ).	dry	BH57_0.0-0.0	5 5	max = 13 Avg = 12	No visual or olfactory signs of contamination observed.
	5		Fill	FILL - Silty SAND, dark brown, fine to medium grained, tile, nail and riverstone inclusions (15mmØ).	dry				No visual or olfactory signs of contamination observed.
_0.4						BH57_0.4-0.5	5		
0.50	o 🔆			End of Hole at 0.50m in Fill					
_0.6	3			"""					
0.7	,								
_0.8	3								
_0.9	9								
1.0									
Asbe Stair Odo	ning		N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do lo groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 13, Avg = 11
2		M	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa		Date: 13/02/2015 Date: 24/03/2015

	Observation	S			Notes	
	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Groun	d Level: max = 13, Avg = 11.
	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
3	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
	Groundwater	1	No groundwater encountered during drilling.			
3	UTU = JTU	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015

Borehole Log Hole ID. **BH58** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Mutch Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 13/02/2015

Date Completed: 13/02/2015

Easting: 335388

GW Encountered:

Northing: 6242932

Zone: 56H

wol		Log	/mbol	Type	Metarial Description		Samples / Tests		Observations / Comments	
water inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, dark brown, fine grained.	dry	BH58_0.0-0.0	5 6	max = 21 Avg = 19	No visual or olfactory signs of contamination observed.
0	.0.2).25 .0.3			Fill	FILL - SAND, grey, fine grained, tile inclusions, crushed sandstone inclusions (5-10mmØ), riverstone inclusions (15mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.4				(10mm <i>b)</i> .		BH58_0.4-0.£	5		
0).50	>>>			End of Hole at 0.50m in Fill					
	0.6									
-	0.7									
-	0.8									
ŀ	0.9									
	1.0									
Ol	bse	rvati	ons					Notes		
As Sta	sbes ainir dour	tos ng	 	N	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted d No groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 20, Avg = 18
R	Œ	W	4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Me		Date: 13/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 20, Avg = 18.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
ES ES UTUA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015



GW Encountered:

Borehole Log Hole ID. **BH59** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m

Location / Site: **Rhodes St NSW EPA** Client:

Project Number:

WSP Environmental Pty Ltd Drill Company: N/A

Drill Method: Easting: 336297 Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com **Hand Auger** Date Started: 13/02/2015 Northing: 6241501 Date Completed: 13/02/2015 Zone: 56H

low	()	Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, dark brown, fine to medium grained, gravel inclusions (5-10mmØ).	dry	BH59_0.0-0.0	5 6.5	max = 6 Avg = 4	No visual or olfactory signs of contamination observed.
	0.20				FILL - SAND, light grey / brown, fine to	dry				No visual or olfactory signs of
-	_0.3			Fill	medium grained, riverstone gravel inclusions (10-25mmØ).					contamination observed.
-	_0.4						BH59_0.4-0.5	5		
4	0.50				End of Hole at 0.50m					
-	_0.6				in Fill					
	_0.7									
	_0.8									
	_0.9									
	1.0									
C	Dbse	ervati	ons					Notes		
S	sbes Stainii Odoui Grour	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 6, Avg = 6.
R		W	4/	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKay	Date: 13/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	round Level: max = 6, Avg = 6.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-04	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015

Borehole Log Hole ID. **BH60** Hole Depth: 0.50 m Project Name: **Orica Mercury Independant Review**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Date Started:

13/02/2015

Project Number: GW Encountered: Location / Site: **Rhodes St NSW EPA** Client:

Drill Company: 336226 Drill Method: **Hand Auger** Easting:

Northing: 6241522 Date Completed: 13/02/2015 Zone: 56H

low		Log	/mbol	Туре	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, brown, fine to medium grained, root inclusions, crushed sandstone (5-80mmØ), ironstone gravels (15-30mmØ).	dry	BH60_0.0-0.05	6	max = 2 Avg = <2	No visual or olfactory signs of contamination observed.
	0.25			≣.						
	_0.3				FILL - SAND, slightly Silty, brown, fine to medium grained, sandstone gravel inclusions (5-20mmØ), concrete fragments (20mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.50						BH60_0.4-0.5			
					End of Hole at 0.50m in Fill					
	_0.6									
7.00 AIM	_0.7									
1 24/3/13 10:3	_0.8									
171 43970.GFJ WSF.GDJ 24/3/13 10:37:00 AM	_0.9									
₹∟	1.0									

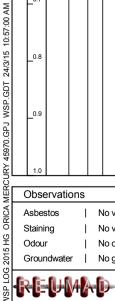
Observations Hg Vapour (ng/m^3) 1m above Ground Level: max = 3, Avg = 2. Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling. Log Drawn By: Laurie White Logged By: Philippa Childs Date: 13/02/2015

Checked By:

Colin McKay

Date:

24/03/2015



Borehole Log Hole ID. **BH61** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m Project Number: GW Encountered: No

Location / Site: **Rhodes St NSW EPA** Client: **WSP Environmental Pty Ltd** Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Drill Method: Easting: 336255 **Hand Auger** Date Started: 13/02/2015 Northing: 6241554 Date Completed: 13/02/2015 Zone: 56H

wolli (c		Log	,ymbol	Type	Material Description	0	Samı	ples / Tests		Observations / Comments
water imfow	ndan ndan	Graphic Log	USCS Symbol	Material Type	material Becompton	Moisture	ID No.	pН	Hg Vapour ng/m³	Code Nations / Comments
					Grass					
_0.	.1				FILL - SAND, brown / grey, fine to medium grained, sandstone gravel inclusions (5-50mmØ).	dry	BH61_0.0-0.09	5 8	max = 8 Avg = 7	
_0.				Hill						
_0.5					Coke inclusions at 0.4m.		BH61_0.4-0.5	5		
					End of Hole at 0.50m in Fill					
_0.	.6									
_0.	.7									
_0.	.8									
_0.	.9									
1.	.0									
Obs	ser	vatic	ns					Notes		
Asb Stai Odd Gro	ining our		 	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipits o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m abo	ove Ground Level: max = 9, Avg = 8.
R		U-N	4/	√ [i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 13/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground	d Level: max = 9, Avg = 8.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
C- C- D D	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 13/02/2015

Borehole Log Hole ID. **BH62** Hole Depth: 0.50 m



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Rhodes St NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

13/02/2015

Date Completed: 13/02/2015

336159 Easting:

GW Encountered:

6241607 Northing: Zone: 56H

wol		Log	/mbol	Type	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1			FIII	FILL - Clayey SAND, dark brown, cohesive, fine to medium grained.	moist	BH62_0.0-0.05	6.5	max = 17 Avg = 15	No visual or olfactory signs of contamination observed.
	0.4						BH62_0.4-0.5			
	_0.6				End of Hole at 0.50m in Fill					
	_0.7									
	_0.8									
	1.0									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:02 AM Groundwater | No groundwater encountered during drilling.

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 18, Avg = 17.

Date: 13/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH63**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Muller Reserve NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 17/02/2015

Date Completed: 17/02/2015

Easting: 336260

Hole Depth:

GW Encountered:

Northing: 6242226

Zone: 56H

yok	_	Log	Samples / Tests			Observations / Comments				
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenai Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Woodchips / Soil					
	_0.1				FILL - SAND, light brown, medium grained, wood and root inclusions, clinker inclusions (5mmØ), riverstone inclusions (15mmØ).	dry	BH63_0.0-0.0	5 6.5	max = 18 Avg = 17	No visual or olfactory signs of contamination observed.
	_0.2			Fill						
	_0.3 									
	0.50		SP	Natural	SAND - light orange / brown, medium grained.	dry	BH63_0.4-0.5	5		No visual or olfactory signs of contamination observed.
ľ	0.50	•. • . • •			End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	rvati	ons			•		Notes	•	_
As St	sbes tainir dour	tos ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted d lo groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 17, Avg = 16.
R	Œ	U	4/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 17/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 17, Avg = 16.		
Staining	Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.				
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015

0.60 m

No

Hole Depth:

GW Encountered:

BH64 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Muller Reserve**

NSW EPA

Drill Company: N/A

Client:

Drill Method: Easting: 336234 **Hand Auger** Date Started: 17/02/2015 Northing: 6242203

Date Completed: 17/02/2015 Zone: 56H

Samples / Tests									Observations (Occurrents		
water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments
					Grass						
	_0.1				FILL - SAND, brown / grey, medium grained, angular gravel inclusions (15-20mm∅).	dry	BH64_0.0-0.05	5.5	Dup6 Trip6 Dup6 (EPA)	max = 15 Avg = 14	No visual or olfactory signs of contamination observed.
	_0.3			E							
	_0.4 0.50						BH64_0.4-0.5				
	0.60		SP	Natural	SAND - light grey, medium grained, angular gravel inclusions (15-20mmØ).	slightly moist					No visual or olfactory signs of contamination observed.
	0.00				End of Hole at 0.60m in Natural						
	0.7										
-	0.8										
	0.9										
	1.0										
Observations									Notes		
St	sbes tainir dour roun	ng	 er	N N	o visual evidence of asbestos noted during drilli o visual evidence of contamination (e.g. staining o olfactory (e.g. odour) evidence of contamination o groundwater encountered during drilling.	g / precipita			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 13, Avg = 12.
R	Œ	U	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.	com.au	Logged Checke		Philippa Colin Mo		Date: 17/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above 0	Ground Level: max = 13, Avg = 12.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
fo fi fi lina	M	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015



No

Borehole Log Hole ID. **BH65**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Jauncy PI Reserve

NSW EPA Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 17/02/2015

Date Completed: 17/02/2015

336425 Easting:

Hole Depth:

GW Encountered:

Northing: 6241647

Zone: 56H

low	(1	Samples / Tests Policy Po						Observations / Community		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасенаі Дезспріют	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, brown / light brown, fine to medium grained, occasional gravel inclusions (5-15mmØ).	dry	BH65_0.0-0.0	5 6.5	max = 11 Avg = 9	No visual or olfactory signs of contamination observed.
	0.20			Fill	FILL - SAND, dark brown / dark grey, fine to medium grained, ash fragments, occasional charcoal and clinker inclusions.	dry				
	0.50				End of Hole at 0.50m		BH65_0.4-0.4	5		
	_0.6				in Fill					
	_0.7									
	_0.8									
	_0.9									
	1.0									
A S	Observations Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.							Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 10, Avg = 8.

2015 2	Groundwater		oundwater encoun	tered during drilling.
LOC	REUM	A-fi	Log Drawn By:	Laurie White
2	ישיט ביייי		Contact:	laurie white@reun

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

Logged By:

Checked By:

Philippa Childs Colin McKay

Date: 17/02/2015 Date: 24/03/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH66**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Jauncy PI Reserve

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 336456 **Hand Auger**

Date Started: 17/02/2015 Northing: 6241665

Date Completed: 17/02/2015 Zone: 56H

llow	ءِ ا	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial bescription	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - SAND, slightly Silty, dark brown, fine grained, occasional riverstone inclusions (25mmØ), crushed terracotta fragments.	dry	BH66_0.0-0.0	5 6	max = 8 Avg = 7	No visual or olfactory signs of contamination observed.
Г	0.3				SAND - light grey, fine to medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
-	0.4		SP	Natural			BH66_0.4-0.5	5		
0	.50	<u> </u>			End of Hole at 0.50m in Natural					
_	0.6									
-	0.7									
-	0.8									
	0.9									
	1.0									
Ol	ose	rvati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.									r (ng/m³) 1m ab	ove Ground Level: max = 7, Avg = 6.
R	Ē	() +(/4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs lcKay	Date: 17/02/2015 Date: 24/03/2015

Observatio	ns			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grour	nd Level: max = 7, Avg = 6.
Staining		No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	- 1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater		No groundwater encountered during drilling.			
	4. PA	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015

No

Hole Depth:

GW Encountered:

BH67 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Reserve**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336030 **Hand Auger**

Date Started: 17/02/2015 Northing: 6241461 Date Completed: 17/02/2015 Zone: 56H

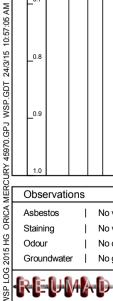
wol	2	Log	/mbol	Туре	Material Description		Samples / ¹	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1			ii.	FILL - SAND, brown, fine grained, root inclusions, occasional riverstone gravel (5-15mmØ).	dry	BH67_0.0-0.05	7	max = 28 Avg = 28	No visual or olfactory signs of contamination observed.
	0.30									
	_0.4		SP	Natural	SAND - light brown / white, fine to medium grained, occasional charcoal inclusions (5-10mmØ).	slightly moist	DU67 0 4 0 5			
	0.50						BH67_0.4-0.5			
	_0.6				End of Hole at 0.50m in Natural					
MIC CO.	_0.7									
10.0	_0.8									
MA 00:10:01 01 (2) 4-2 1 00:100 0 10:00 10:00	_0.9									
150	1.0									

Observation	S			Notes	
Asbestos No visual evidence of asbestos noted during drilling.				Hg Vapour (ng/m³) 1m above	Ground Level: max = 30, Avg = 29.
Staining	Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.				
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
for firm	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH68**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Grace Campbell Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 336118 **Hand Auger**

Date Started: 17/02/2015 Northing: 6241468

Date Completed: 17/02/2015 Zone: 56H

low	_	6o-	/mbol	Type	Malacia Decembrica		Sam	ples / Tests		Observations (Oscillator
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
					FILL - SAND, grey / brown, fine grained, root inclusions.	dry	BH68_0.0-0.0	5 6	max = 28 Avg = 27	No visual or olfactory signs of contamination observed.
	_0.1									
	0.20				SAND - light grey, fine grained.	slightly moist				No visual or olfactory signs of contamination observed.
	_0.3		SP	ıral						
	_0.4		51	Natural						
	0.50						BH68_0.4-0.5	5		
$\left[\right]$					End of Hole at 0.50m in Natural					
-	_0.6									
-	_0.7									
	_0.8									
	_0.9									
	1.0									
Observations								Notes	() 3 4 1	0 11 1 00 1 00
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted of Codour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.							Hg Vapour	(ng/m²) 1m ab	ove Ground Level: max = 29, Avg = 28.	
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:	Philippa Colin Me		Date: 17/02/2015 Date: 24/03/2015

ĭг						
∦	Observation	S		Notes		
E E	Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 29, Avg = 28.		
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted			
	Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
701	Groundwater	-	No groundwater encountered during drilling.			
3	fio fi= N±NA	M	Log Drawn By: Laurie White	Philippa Childs	Date: 17/02/2015	



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH69**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Gr Reserve**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 336014 **Hand Auger** Date Started: 17/02/2015 Northing: 6241313

Date Completed: 17/02/2015 Zone: 56H

Mow	(u	Log	ymbol	Type	Material Description		Samp	oles / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Sectional	Moisture	ID No.	D No. pH Hg Vapo		- Observations / Comments	
					Grass						
	_0.1				FILL - SAND, slightly Silty, brown, fine to medium grained, occasional angular gravel inclusions (15mmØ), charcoal inclusions (<5mmØ).	dry	BH69_0.0-0.0§	5 6	max = 24 Avg = 23		
	0.2			≣							
	0.40				SAND - grey, medium grained.	slightly				No visual or olfactory signs of	
			SP	Natural		moist	BH69_0.4-0.5	;		No visual or olfactory signs of contamination observed.	
Ť	0.50	4. C.S			End of Hole at 0.50m in Natural						
	0.6										
	0.7										
	0.8										
	0.9										
	1.0										
0	bse	ervati	ons				Notes				
St	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted o lo groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 26, Avg = 24.	
R	Œ	0+0	/4/	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 17/02/2015 Date: 24/03/2015	

	Observation	s		Notes		
<u> </u>	Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 26, Avg = 24.		
5 5	Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Š (Groundwater	-	No groundwater encountered during drilling.			
3	o G= N±NA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015



0.40 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH70**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Gr Reserve**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336043 **Hand Auger** Date Started: 17/02/2015 Northing: 6241319

Date Completed: 17/02/2015 Zone: 56H

low	(Log	ymbol	Samples / Tests Material Description					Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenar Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1 0.15				FILL - SAND, brown, fine to medium grained, root inclusions, occasional angular gravel inclusions.	dry	ВН70_0.0-0.0	5 6.5	max = 27 Avg = 26	No visual or olfactory signs of contamination observed.
	0.2 0.30			Fill	FILL - SAND, light brown, medium grained, crushed sandstone inclusions (5mmØ), charcoal (<5mmØ), riverstones (<5mmØ).	dry				
	0.40				FILL - Silty SAND, brown, fine grained, angular gravel inclusions (2-10mmØ), wood fragments, coke (5mmØ), charcoal (2mmØ).	dry	BH70_0.3-0.4	1		
Ī					End of Hole at 0.40m in Fill on gravel					
	0.5									
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	rvati	ons					Notes		
St	sbes ainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit: lo olfactory (e.g. odour) evidence of contamination noted d lo groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	oove Ground Level: max = 26, Avg = 26
R	Œ	W	4/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKay	Date: 17/02/2015 Date: 24/03/2015

Observation	s		Notes		
Asbestos	ı	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 26, Avg = 26.		
Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	١	No groundwater encountered during drilling.			
for firm	M	Log Drawn By: Laurie White	Philippa Childs	Date: 17/02/2015	

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH71**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Nielson St Reserve Location / Site:

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 335963 **Hand Auger** Date Started: 17/02/2015 Northing: 6241388

Date Completed: 17/02/2015 Zone: 56H

mlow (n) Log Type				Type	Material Description		Samples / Tests		Observations / Comments	
water imow	Depth (m)	Graphic Log	USCS Symbol	Material Type	масна <i>Везе</i> приоп	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, dark brown, fine grained, root inclusions.	dry	BH71_0.0-0.0	5 7	max = 15 Avg = 13	No visual or olfactory signs of contamination observed.
-	0.15			Ŀ	FILL - Gravelly SAND, light brown, very stiff, fine grained, large clay inclusions, ash and coke fragments.	dry				
	0.30				FILL - SAND, light grey, fine to medium grained, coke inclusions (<2mmØ), clinker inclusions (2mmØ).	dry				
	0.50	XXX	SP	Natural	SAND - light yellow, fine grained.	slightly moist	BH71_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
C	Obse	ervati	ons					Notes		
S	sbes tainir Odour Groun	ng	 er	N N	to visual evidence of asbestos noted during drilling. It visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted of the open contamination of the open contended of the open contend			Hg Vapou	· (ng/m³) 1m ab	ove Ground Level: max = 19, Avg = 18.
R	Œ	V	4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 17/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	Ground Level: max = 19, Avg = 18.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drillin	g.		
Groundwater		No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015

335978

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH72**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Nielson St Reserve Location / Site:

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: **Hand Auger**

Date Started: 17/02/2015 Northing: 6241388

Date Completed: 17/02/2015 Zone: 56H

llow	(2)	Log	ymbol	Type	Material Description			Samp	oles / Te	ests		Observation	ns / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenar Description	Moisture	IE) No.	рН	DUP TRIP QC	Hg Vapour ng/m³	Observatio	ns / Comments
					Grass								
	0.1				FILL - Silty SAND, brown, fine grained, gravel inclusions (2-5mmØ), charcoal (2-10mmØ), coke (<5mmØ).	dry	BH72_	_0.0-0.05	6.5	Dup7 Trip7 Dup7 (EPA)	max = 26 Avg = 25		
_(0. 25			Hi⊪	FILL - SAND, yellow, fine to medium grained, charcoal inclusions (<5mmØ).	dry							
	0.4				FILL - Silty SAND, light grey, fine to medium grained, with some clay.	dry	BH72	_0.4-0.5				No visual or old contamination	actory signs of observed.
0.	.50				End of Hole at 0.50m								
_(0.6				in Fill								
_(0.7												
_(0.8												
	0.9												
	1.0												
Observations Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling.									 -	Notes Ig Vapour ocated on	(ng/m³) 1m ab top of a small ı	ove Ground Level: r mound.	nax = 24, Avg = 23.
R	Ē	() +()	/4/	\-(i	Log Drawn By: Laurie White Contact: laurie.white@reumad.c	com.au		Logged Checked		Philippa Colin Mc			17/02/2015 24/03/2015

Observation	าร			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou Located on top of a small mound.	nd Level: max = 24, Avg = 23.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	Escated on top of a small mound.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
ED E-UTV	. DA	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015



Borehole Log Hole ID. **BH73** 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth: Project Number: GW Encountered:

Location / Site: **Purcell Park NSW EPA** Client:

Drill Company: N/A

Drill Method: Easting: 336136 **Hand Auger** Date Started: 17/02/2015 Northing: 6240459

Date Completed: 17/02/2015 Zone: 56H

flow	(u	Log	ymbol	Type	Material Description		Sam	ples / Tes	ts		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type		Moisture	ID No.	r.	Н	Hg Vapour ng/m³	Gastination Comments
					Grass						
	0.10				FILL - Silty Sandy CLAY, light brown, soft, root inclusions, wood fragments, clinker (2-10mmØ).	dry	BH73_0.0-0.0	5	7	max = 54 Avg = 52	
					FILL - Silty Sandy CLAY, dark brown, firm, gravel and riverstone inclusions (10mmØ), clinker (5-15mmØ), minor coke (<2mmØ).	dry					
	_0.2			III							
-	0.30				FILL - SAND, light grey, medium grained, coke and charcoal inclusions (<2mmØ).	dry					
	_0.4										
	0.50						BH73_0.4-0.5	5			
					End of Hole at 0.50m in Fill						
	0.6										
	0.7										
	_0.8										
	_0.9										
	1.0										
С)bse	ervati	ons					Notes			
A S	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater No groundwater encountered during drilling.									(ng/m³) 1m ab	ove Ground Level: max = 54, Avg = 51.
R	0	V	M _Z	\ [Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:			Childs Kay	Date: 17/02/2015 Date: 24/03/2015	

# 	Observation	s			Notes		
S	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	round Level: max = 54, Avg = 51.	
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Z01;	Groundwater	I	No groundwater encountered during drilling.				
201	FR-F-0+04	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015	

Borehole Log Hole ID. **BH74** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Purcell Park NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

17/02/2015

Date Completed: 17/02/2015

Easting: 336119

GW Encountered:

Northing: 6240507

Zone: 56H

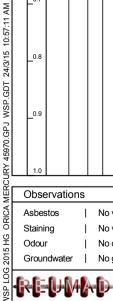
low)	-og	/mbol	Туре	Material Providence		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, dark grey, loose, fine grained, occasional root inclusions, coke (2mmØ), terracotta, glass, angular gravel (40mmØ).	dry	BH74_0.0-0.05	6	max = 56 Avg = 55	
	_0.2			III	Grading to					
	0.30				FILL - SAND, dark grey, fine to medium grained, angular gravel and coke inclusions (<5mmØ).	dry				
	0.50		SP	Natural	SAND - light grey, medium grained.	slightly moist	BH74_0.4-0.5			No visual or olfactory signs of contamination observed.
	_0.6				End of Hole at 0.50m in Natural					
	_0.7									
200.	_0.8									
UNI +3970.GF3 WSF.GD1 24/3/13 10:37.11 AW	0.9									

Observation	s			Notes		
Asbestos	ı	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 59, Avg = 59.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
fri=N+M	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015	

Checked By:

Colin McKay

Date: 24/03/2015



Borehole Log Hole ID. **BH75** 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth: GW Encountered:

Project Number: Location / Site: **Purcell Park**

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 336147 **Hand Auger**

Date Started: 17/02/2015 Northing: 6240593 Date Completed: 17/02/2015 Zone: 56H

MON	(1	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імаленаї Дезсприон	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Sandy SILT, light brown / grey, loose, fine grained, occasional angular gravel (5mmØ), coke (<5mmØ), charcoal.	dry	BH75_0.0-0.0	5 6	max = 39 Avg = 37	
	_0.2			E						
	0.30				Grading to FILL - Silty SAND, light grey, fine to medium grained, minor charcoal and coke fragments, gravel (<5mmØ).	dry				
	0.40		SP	Natural	SAND - light grey, medium grained.	slightly moist	BH75_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
С)bse	rvati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dril Groundwater No groundwater encountered during drilling.								Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 36, Avg = 34.
R	Œ	W	AP	\ -[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Philippa Colin Mo		Date: 17/02/2015 Date: 24/03/2015

Observations			Notes		
Asbestos 1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou	und Level: max = 36, Avg = 34.	
Staining 1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour 1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater 1	No groundwater encountered during drilling.				
ED ET DIMAN	Log Drawn By: Laurie White	Philippa Childs	Date: 17/02/2015		

Borehole Log Hole ID. **BH76** Project Name: Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Number: GW Encountered: No

Purcell Park Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: Easting: 336062 **Hand Auger** Date Started: 17/02/2015 Northing: 6240614

Date Completed: 17/02/2015 Zone: 56H

flow	(ר	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	масна <i>Везе</i> приоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Sandy SILT, light brown, loose, fine grained, occasional angular gravel (<5mmØ), clinker (2mmØ).	dry	BH76_0.0-0.0	5 6	max = 65 Avg = 64	
	0.20			E	FILL - Sandy Gravelly CLAY, brown / grey,	dry				No visual or olfactory signs of
-	0.3				fine to medium grained, large clumps of very stiff clay, angular gravel inclusions (2-15mmØ).	a.y				contamination observed.
	0.35				SAND - light grey, fine to medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.50		SP	Natural			BH76_0.4-0.5	5		
					End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
С)bse	rvati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drill Groundwater No groundwater encountered during drilling.								Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 66, Avg = 63.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:	Philippa Colin M		Date: 17/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 66, Avg = 63.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 17/02/2015

0.40 m

335663

6242434

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH77**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Wentworth Ave

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: **Hand Auger**

Date Started: 19/02/2015 Northing:

Date Completed: 19/02/2015 Zone: 56H

MOII (F	. 00	S 104	Type	Material Description	_	Sam	ples / Tests		Observations / Comments
Vater IIIIOW Depth (m)	Graphic Log	Salar Solar	Material Type	material Secondari	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1				FILL - Silty SAND, light brown, fine grained, gravel inclusions (5-80mmØ), sandstone, riverstones (20mmØ).	dry	ВН77_0.0-0.0	5 6.5	max = 6 Avg = 5	No visual or olfactory signs of contamination observed.
_0.2	3			FILL - Silty SAND, brown, fine grained, coke and charcoal inclusions (5-10mmØ), clinker (25mmØ).	dry	BH77_0.3-0.4	ı		
0.4	0 🔀	<u> </u>		End of Hole at 0.40m in Fill					
0.5	5								
_0.6	6								
_0.7	7								
0.8	8								
_0.9	9								
1.0	0								
Obs	serva	ation	s				Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.								(ng/m³) 1m ab	ove Ground Level: max = 12, Avg = 9.
RE	=0	- M	A	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 19/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 12, Avg = 9.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
tot:UtW	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

Borehole Log Hole ID. **BH78** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

NSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:14 AM

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Wentworth Ave

Drill Company: N/A

Client:

Drill Method:

Hand Auger Date Started:

19/02/2015

NSW EPA

Date Completed: 19/02/2015

Easting: 335784

GW Encountered:

Northing: 6242389 Zone: 56H

low		Log	/mbol	Type	Material Description		Samples / Tests			Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - Silty SAND, brown, fine grained, occasional roots, sandstone gravel inclusions (10-40mmØ), angular riverstone (<10mmØ), occasional charcoal.	dry	BH78_0.0-0.05	6.5	max = 4 Avg = 4	
	0.50						BH78_0.4-0.5			
	_0.6	× × ×			End of Hole at 0.50m in Fill					
	_0.7									
	_0.8									
	_0.9									
	1.0									

Observations	S			Notes		
Asbestos	I	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m 3) 1m above Ground Level: max = 4, Avg = 3.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of				
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	١	No groundwater encountered during drilling.				
ES ES OLDA	M	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015	

Checked By:

Colin McKay

Date:

24/03/2015

Borehole Log Hole ID. **BH79** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Denison Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 19/02/2015

Date Completed: 19/02/2015

Easting: 335812

GW Encountered:

Northing: 6242200

Zone: 56H

wol	_	Log	/mbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, grey / brown, fine to medium grained, wood inclusions, coke (<5mmØ), glass (15mmØ).	dry	BH79_0.0-0.0	5 6.5	max = 22 Avg = 21	
	0.2			Fill						
	0.3				Root inclusions at 0.3m.					
	0.50				Terracotta tile at 0.5m.		BH79_0.4-0.5	5		
					End of Hole at 0.50m in Fill					
	0.6									
-	0.7									
-	0.8									
	0.9									
	1.0									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) n Odour No olfactory (e.g. odour) evidence of contamination noted during Groundwater No groundwater encountered during drilling.								Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 23, Avg = 21.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:	Philippa Colin Mo		Date: 19/02/2015 Date: 24/03/2015

Observation	s			Notes			
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 23, Avg = 21.				
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of					
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.				
Groundwater	1	No groundwater encountered during drilling.					
fiz fi=fitMa	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015		



Borehole Log Hole ID. **BH80** Project Name: **Orica Mercury Independant Review** Hole Depth: 0.50 m Project Number: GW Encountered: No

> **Smith Street** Location / Site: **NSW EPA** Client:

Drill Company: N/A

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

WSP Environmental Pty Ltd

Drill Method: Easting: 335728 **Hand Auger** Date Started: 19/02/2015 Northing: 6242204 Date Completed: 19/02/2015 Zone: 56H

MOII (, B	ymbol	Type	Material Description		Samp	oles / Tests		Observations / Comments
Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
				FILL - Silty SAND, light brown, fine grained.	dry	BH80_0.0-0.0	5 8	max = 2 Avg = <2	
0.	1			Crushed sandstone inclusions from 0.1m.					
_0.	2								
0.	3		Ē	Clinkers (10mmØ) at 0.3m.					
_0.				Charcoal at 0.4m.					
0.4	\otimes			FILL - SAND, light grey, fine to medium grained.	dry	BH80_0.4-0.5			No visual or olfactory signs of contamination observed.
				End of Hole at 0.50m in Fill					
_0.	6								
_0.	7								
_0.	8								
_0.	9								
1.	0								
Ob	serva	ations	3				Notes		
Stai Odd	estos ning our undwa		1	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted of No groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = <2, Avg = <2
e f	<u>-</u> 0.	-04	A-f	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa	Childs	Date: 19/02/2015

Observa	ations	;			Notes	
Asbestos		ı	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above 0	Ground Level: max = <2, Avg = <2.
Staining			No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour		١	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwa	ater	l	No groundwater encountered during drilling.			
	0.4	D.	Log Drawn Bv. Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH81**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 335874 **Hand Auger** Date Started: 19/02/2015 Northing: 6241630

Date Completed: 19/02/2015 Zone: 56H

woll (c	. 5	i logmy	Type	Material Description		Sam	ples / Tests		Observations / Comments
Vvater Imlow Depth (m)	Graphic	USCS Symbol	Material Type	імасела Дезстриоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0	1			FILL - SAND, slightly Silty, brown / grey, fine grained, wood and root inclusions, occasional gravel (10mmØ).	dry	81_0.0-0.05	5.5	max = 10 Avg = 9	No visual or olfactory signs of contamination observed.
_0.:			HE						
0.4	0			SAND - light brown, fine to medium.	dry				No visual or olfactory signs of
0.5	0	SF	Natural	GAND light blown, line to medium.	diy	81_0.4-0.5			contamination observed.
				End of Hole at 0.50m in Natural					
_0.6	6								
_0.7	7								
_0.8	В								
_0.9	9								
1.0	0								
Obs	serv	ation	3				Notes		
Stair Odo	-		1	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted d No groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 6, Avg = 2.
R	=0	J-M	A-I	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:	Philippa Colin Mo		Date: 19/02/2015 Date: 24/03/2015	

Observation	s		Notes				
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 6, Avg = 2.				
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of					
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.				
Groundwater	1	No groundwater encountered during drilling.					
ED EL UTA	A	Log Drawn By: Laurie White	Philippa Childs	Date: 19/02/2015			



No

Borehole Log Hole ID. **BH82**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Denison Street NSW EPA**

Drill Company: N/A

Client:

Drill Method: **Hand Auger**

Date Started: 19/02/2015

Date Completed: 19/02/2015

335867 Easting:

Hole Depth:

GW Encountered:

Northing: 6241331 Zone: 56H

	Log	/mbol	Туре	Material Description		Samples / Tests			Observations / Comments
Depth (m	Graphic	uscs sy	Material	wateriai Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
0.1				FILL - SAND, slightly Silty, brown, fine to medium grained, gravel inclusions (5-15mmØ), occasional clinker (10mmØ).	dry	BH82_0.0-0.05	7	max = 7 Avg = 5	
0.2			E						
0.35				Grading to SAND - light brown, fine to medium	dry				No visual or olfactory signs of contamination observed.
_0.4		SP	Natural	grained.		BH82_0.4-0.5			contamination observed.
0.50				End of Hole at 0.50m					
_0.6				in Natural					
_0.7									
_0.8									
_0.9									
	0.1 0.2 0.3 0.4 0.50 0.6				Grass FILL - SAND, slightly Silty, brown, fine to medium grained, gravel inclusions (5-15mmØ), occasional clinker (10mmØ). Grading to Grading to SAND - light brown, fine to medium grained. SP End of Hole at 0.50m in Natural D.6 D.7 D.8 D.9	Grass FILL - SAND, slightly Silty, brown, fine to medium grained, gravel inclusions (5-15mmØ), occasional clinker (10mmØ). Grading to Grading to SAND - light brown, fine to medium grained. SAND - light brown fine to medium grained. End of Hole at 0.50m in Natural Description: D	Box Box	Material Description Section Phi Ph	SP SAND SAND SAND Sign brown, fine to medium grained. SP SAND S

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:17 AM

Groundwater |

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Date: 19/02/2015 Date: 24/03/2015

Hg Vapour (ng/m^3) 1m above Ground Level: max = 9, Avg = 9.

0.40 m

No

BH83 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Denison Street

NSW EPA Client:

Drill Company: N/A

Location / Site:

Drill Method: **Hand Auger**

Date Started: 19/02/2015

Date Completed: 19/02/2015

Easting: 335873

Hole Depth:

GW Encountered:

Northing: 6241222

Zone: 56H

Mo	<u></u>	Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
water Imrow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Gravelly SAND, dark brown / grey, fine grained, clinker inclusions (5-30mmØ), bitumen, coke (<5mmØ), angular river gravel, white slag (5-40mmØ).	dry	ВН83_0.0-0.0	5 6.5	max = 8 Avg = 6	
	0.2			Fill						
L	0.3				Root inclusions at 0.3m.					
	. 40				Sandstone gravel (50mmØ) at 0.4m.		BH83_0.3-0.4	4		
	0.40	~~			End of Hole at 0.40m in Fill on gravel					
	0.5									
-	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
Observations						1		Notes	1	1
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during Groundwater No groundwater encountered during drilling.									r (ng/m³) 1m ab	oove Ground Level: max = 7, Avg = 5.
R	Œ	W	4/	√ [Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs IcKay	Date: 19/02/2015 Date: 24/03/2015

Observations			Notes	
Asbestos	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m 3) 1m above Ground Level: max = 7, Avg = 5.		
Staining	No visual evidence of contamination (e.g. staining / precipitate) noted of			
Odour	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	No groundwater encountered during drilling.			
ES ES DANAM	Log Drawn By: Laurie White	Philippa Childs	Date: 19/02/2015	

335874

GW Encountered:

Easting:

Borehole Log Hole ID. **BH84** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Denison Street NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 19/02/2015 Northing: 6241150 Date Completed: 19/02/2015 Zone: 56H

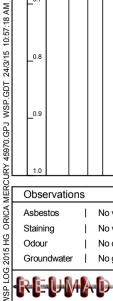
(1	Log	/mbol	Type	Material Description		Samples / Tests			Observations / Comments
Depth (m	Graphic I	USCS S)	Material ·	material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass / Soil					
_0.1			Ē	FILL - SAND, slightly Silty, grey / brown, fine grained, occasional root inclusions, occasional crushed sandstone.	dry	BH84_0.0-0.05	7	max = 28 Avg = 28	No visual or olfactory signs of contamination observed.
0.2 0.25									
_0.3				SAND - light brown / light yellow, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
_0.4		SP	Natural						
0.50						BH84_0.4-0.5			
				End of Hole at 0.50m in Natural					
_0.6									
_0.7									
_0.8									
0.9									
	_0.25 _0.3 _0.4 _0.6 _0.7			0.2 SP RITHEN 0.2 SP RITHEN 0.50 0.6	Grass / Soil FILL - SAND, slightly Silty, grey / brown, fine grained, occasional root inclusions, occasional crushed sandstone. SAND - light brown / light yellow, medium grained. SP P P P P P P P P P P P P P P P P P P	Grass / Soil FILL - SAND, slightly Silty, grey / brown, fine grained, occasional root inclusions, occasional crushed sandstone. SAND - light brown / light yellow, medium grained. SAND - light brown / light yellow, medium grained. SP By	Second S	Material Description Phi Phi	B B B B B B B B B B

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 30, Avg = 29.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
MINING.	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



Borehole Log Hole ID. **BH85** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Name:

Project Number:

Location / Site: **Rhodes Street NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 19/02/2015

Date Completed: 19/02/2015

336103 Easting:

GW Encountered:

Northing: 6241327

Zone: 56H

low)	-og	/mbol	Туре	Material Description		Sam	ples / Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, brown / grey, fine to medium grained, angular gravel inclusions (5-15mmØ).	dry	BH85_0.0-0.0	5 6	max = 22 Avg = 20	No visual or olfactory signs of contamination observed.
_	0.2			Fill						
_	_0.3				Igneous gravel cobble (80mmØ) at 0.3m.					
	0.40		SP	Natural	SAND - light brown, fine to medium grained, occasional gravel inclusions (<10mmØ) (possibly from above).		BH85_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
	0.6									
	_0.7									
	_0.8									
	0.9									
	1.0									
0)bse	rvati	ons					Notes		
Si	sbes tainir dour froun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 16, Avg = 4.
R	Œ	V	4	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Me		Date: 19/02/2015 Date: 24/03/2015



No

BH86 Borehole Log Hole ID.



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Rhodes Street Location / Site:

Drill Company: N/A

Client:

Drill Method: **Hand Auger**

NSW EPA

Date Started: 19/02/2015

Date Completed: 19/02/2015

Easting: 336117

Hole Depth:

GW Encountered:

Northing: 6241396

Zone: 56H

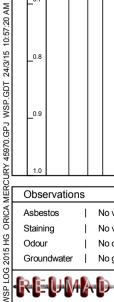
ow		-og	mbol	Гуре			Samp	oles / Tes	ets		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments
					Grass						
	_0.1				FILL - Silty SAND, brown, fine grained, angular river gravel inclusions (15mmØ), charcoal (<5mmØ).	dry	BH86_0.0-0.05	7	Dup 8 Trip8	max = 21 Avg = 19	
	0.50		SP	Natural	SAND - light brown, medium grained.	dry	BH86_0.4-0.5				No visual or olfactory signs of contamination observed.
	0.50				End of Hole at 0.50m in Natural						
	_0.6										
NIC 03: 10	_0.7										
2	_0.8										
MA 02: 10:01 01:01:42 100: 100 0 10:01:00 11:01	_0.9										
	1.0										

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 18, Avg = 16.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
TO TENANT	N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



No

Borehole Log Hole ID. **BH87**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Rhodes Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 19/02/2015

Date Completed: 19/02/2015

Easting: 336146

Hole Depth:

GW Encountered:

Northing: 6241821

Zone: 56H

wol .		Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, dark brown, fine to medium grained, occasional root inclusions, occasional angular river gravel inclusions (15mmØ).	dry	ВН87_0.0-0.0	5 5.5	max = 17 Avg = 15	No visual or olfactory signs of contamination observed.
Γ	0.2 0. 25	$\overset{\sim}{\sim}$		≣						
_(0.3				FILL - SAND, light grey, medium grained, occasional sand concretions (possible natural).	dry				No visual or olfactory signs of contamination observed.
).40).50	***	SP	Natural	SAND - light yellow / light orange, medium grained.	dry	BH87_0.4-0.5	5		No visual or olfactory signs of contamination observed.
1	.50	e, dita e			End of Hole at 0.50m in Natural					
Ļ	0.6									
_(0.7									
_(0.8									
_(0.9									
	1.0									
Ol	ose	rvati	ons					Notes		
Sta	bes ainir dour	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.	,			(ng/m³) 1m ab	ove Ground Level: max = 12, Avg = 10
R	E	(4	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 19/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Groun	nd Level: max = 12, Avg = 10.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

336106

6241953

56H

GW Encountered:

Northing:

Borehole Log Hole ID. **BH88** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Rhodes Street

Client: **NSW EPA**

Drill Company: N/A

Location / Site:

Drill Method: **Hand Auger** Easting:

Date Started: 19/02/2015

Date Completed: 19/02/2015 Zone:

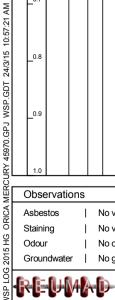
Samples / Tests USCS Symbol Material Type Water Inflow Depth (m) Material Description Observations / Comments Moisture Hg Vapour ng/m³ ID No. рΗ FILL - Silty SAND, dark brown / grey, fine dry max = <2 BH88_0.0-0.05 6.5 to medium grained, occasional clinker Avg = <2(5-15mmØ). FILL - Silty SAND, grey, fine to medium grained, (possible natural). dry No visual or olfactory signs of contamination observed. 0.3 0.4 End of Hole at 0.50m in Fill 0.6 0.7

	Observation	s			Notes
	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m 3) 1m above Ground Level: max = <2, Avg = <2.
,	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
	Groundwater	1	No groundwater encountered during drilling.		
}	fis fi= fi Lft.	S A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 19/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



0.40 m

No

Borehole Log Hole ID. **BH89**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth:

Project Number:

GW Encountered: **Denison Street**

NSW EPA Client:

Drill Company: N/A

Location / Site:

Drill Method: Easting: 335820 **Hand Auger**

Date Started: 19/02/2015 Northing: 6242377

Date Completed: 19/02/2015 Zone: 56H

llow .		Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water Imlow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenar Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
_(0.1				FILL - Silty SAND, light brown, occasional sand concretions (5-10mmØ), slag (10mmØ), clinker (<5mmØ).	dry	BH89_0.0-0.0	5 7.5	max = <2 Avg = <2	Sample falling back into hole.
	0.2			Fill						
0.	.40									
	0.5				End of Hole at 0.40m in Fill, too dry to extract		BH89_0.4-0.5	5		
_(0.6									
_(0.7									
_(0.8									
_(0.9									
	1.0									
OŁ	ose	rvati	ons					Notes		
Sta	bes ainir dour oun	ng	 	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipital lo olfactory (e.g. odour) evidence of contamination noted data lo groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = <2, Avg = <2.
R	Ē	()+(/4/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Philippa : Colin Mo		Date: 19/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground	Level: max = <2, Avg = <2.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	luring drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
C- C- 0 : 0 :	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 19/02/2015

GW Encountered:

Borehole Log Hole ID. **BH90** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Denison Street** Client: **NSW EPA**

Drill Company: N/A

Drill Method: **Hand Auger** Easting: 336824 Date Started: 19/02/2015 Northing: 6242287 Date Completed: 19/02/2015 Zone: 56H

Samples / Tests USCS Symbol Material Type Water Inflow Depth (m) Material Description Observations / Comments Moisture Hg Vapour ng/m³ ID No. рΗ dry FILL - SAND, brown / grey, fine grained, max = 16BH90_0.0-0.05 6.5 root inclusions, coke inclusions (<5mmØ), Avg = 14 charcoal (<5mmØ). 0.1 0.2 Terracotta fragment (30mmØ) at 0.2m. FILL - SAND, dark grey, fine to medium No visual or olfactory signs of dry grained, occasional terracotta fragments (<10mmØ). contamination observed. 0.3 0.3 dry No visual or olfactory signs of FILL - SAND, light grey, medium grained. contamination observed. 0.4 BH90_0.4-0.5 FILL - SAND, dark grey, fine to medium No visual or olfactory signs of dry contamination observed. End of Hole at 0.50m in Fill 0.6 0.7 LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:23 AM

Observation	s			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level:	max = 16, Avg = 15.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
fiz fi=fitMa	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date:	19/02/2015

Contact: laurie.white@reumad.com.au

Checked By:

Colin McKay

Date: 24/03/2015

336156

GW Encountered:

Borehole Log Hole ID. **BH91** 0.50 m Hole Depth:

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Beauchamp Road

Client: **NSW EPA**

Drill Company:

Drill Method: **Hand Auger** Easting:

6241290 Date Started: 19/02/2015 Northing: Date Completed: 19/02/2015 Zone: 56H

low		Log	/mbol	Туре	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1 				FILL - Silty SAND, grey / brown, fine grained, root inclusions, concrete fragments (10mmØ), clinkers (<5mmØ).	dry	BH91_0.0-0.05	7.5	max = 14 Avg = 11	
	0.3 			Ē	FILL - Silty SAND, brown, very fine grained, sand concretions present. Grading to	dry				No visual or olfactory signs of contamination observed.
	0.4				FILL - Silty SAND, grey, very fine grained.	dry	BH91_0.4-0.5			No visual or olfactory signs of contamination observed.
	_0.6				End of Hole at 0.50m in Fill					
	_0.7									
	_0.8									
	0.9									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:23 AM

Groundwater |

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 11, Avg = 9.

Date: 19/02/2015 Date: 24/03/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH92**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Beauchamp Road Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336250 **Hand Auger**

Date Started: 19/02/2015 Northing: 6241312

Date Completed: 19/02/2015 Zone: 56H

MOI		Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	- Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, brown, fine grained, occasional river gravel inclusions (15mmØ).	dry	BH92_0.0-0.0	5 7	max = 5 Avg = 4	No visual or olfactory signs of contamination observed.
	0.2			Fill	Grading to					
	0.4 .0.4				FILL - Silty Clayey SAND, brown, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	0.50	$\overset{\otimes}{\otimes}$					BH92_0.4-0.5	5		
	0.6				End of Hole at 0.50m in Fill					
	0.7									
	0.8									
	0.9									
	1.0									
Ol	bse	ervati	ons					Notes		
Sta	ainir dour oun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit: Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 7, Avg = 5.
R	Œ	U	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 19/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level:	: max = 7, Avg = 5.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	uring drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
6-6-0-0-	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date:	19/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH93**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Jennings Street Location / Site:

NSW EPA

Client: Drill Company:

Drill Method: Easting: 336292 **Hand Auger**

Date Started: 19/02/2015 Northing: 6241283

Date Completed: 19/02/2015 Zone: 56H

llow (a	-	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	n) ilidən	Graphic Log	USCS Symbol	Material Type		Moisture	ID No.	pН	Hg Vapour ng/m³	
					Grass					
_0.	1.1				FILL - SAND, dark brown / grey, fine grained, root inclusions, occasional angular igneous gravel inclusions (5-20mmØ), coke (<5mmØ), sand concretions (5mmØ).	dry	ВН93_0.0-0.0	5 6.5	max = 35 Avg = 33	
Γ	ı.3 35			III.						
	1.4				FILL - SAND, light grey, medium grained, occasional clinker inclusions (5mmØ).	slightly moist	BH93_0.4-0.5	5		
0.8	50	XX			End of Hole at 0.50m in Fill					
_0.	1.6									
_0.).7									
_0.	1.8									
_0.	1.9									
1.	.0									
Ob	ser	rvatio	ons					Notes		
Ast Stai Odd Gro	inin our		 r	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapo	ır (ng/m³) 1m ab	ove Ground Level: max = 32, Avg = 30.
1		H	4	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs	Date: 19/02/2015 Date: 24/03/2015

אבא	Observation	s			Notes
2	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 32, Avg = 30.
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
פוני	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.	
2013	Groundwater	1	No groundwater encountered during drilling.		
LOG	USU: UTW	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 19/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH94**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Beauchamp Road

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336401 **Hand Auger** Date Started: 19/02/2015 Northing: 6241331

Date Completed: 19/02/2015 Zone: 56H

flow	(1	Log	ymbol	Type	Material Description		Sam	ples / Test	s		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Secondary	Moisture	ID No.	pl	н	Hg Vapour ng/m³	observations / comments
					Grass						
	_0.1			Fill	FILL - Silty SAND, brown /grey, fine to medium grained, root inclusions, brick (20mmØ), coke (30mmØ), wood.	dry	BH94_0.0-0.0	5 7		max = 52 Avg = 50	
	_0.20 _0.3				FILL - SAND, minor Silt, dark grey / light grey, medium grained.	dry					No visual or olfactory signs of contamination observed.
	0.4		SP	Natural	SAND - light grey / white, medium grained.	slightly moist					No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural						
	_0.6										
	_0.7										
-	_0.8										
	_0.9										
	1.0										
	bse	rvati	ons					Notes			
S	sbes tainir dour iroun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted of Io groundwater encountered during drilling.			Hg Vapo	our (r	ng/m³) 1m ab	ove Ground Level: max = 55, Avg = 53.
R	Œ		/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Philip : Colin			Date: 19/02/2015 Date: 24/03/2015

ME	Observation	IS			Notes
S	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 55, Avg = 53.
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
201	Groundwater	-	No groundwater encountered during drilling.		
, LO	Tel=1+M	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 19/02/2015



335868

6241432

No

Hole Depth:

Easting:

GW Encountered:

BH95 Borehole Log Hole ID.

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Denison Street NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Northing:

Date Completed: 20/02/2015 Zone: 56H

low)	6o-	/mbol	Туре	Material Description		Sam	ples / Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Topsoil					
	0.1				FILL - SAND, light brown, fine grained, occasional sand concretions (5-10mmØ).	dry	BH95_0.0-0.0	5 7	max = 19 Avg = 18	No visual or olfactory signs of contamination observed.
	0.2			FIII						
	_0.3 									
-	_0.4		SP	Natural	SAND - light brown / white, fine to medium grained.	dry	BH95_0.4-0.5	5		No visual or olfactory signs of contamination observed.
	0.50						В1133_0.4-0.0			
					End of Hole at 0.50m in Natural					
	0.6									
-	0.7									
	_0.8									
	_0.9									
	1.0									
C		ervati	ons				·	Notes	1	1
A S	sbes tainir dour	stos ng		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 30, Avg = 25.
R	Œ	V	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 20/02/2015 Date: 24/03/2015

Observation	s		Notes
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 30, Avg = 25.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling.	
Groundwater	I	No groundwater encountered during drilling.	
			•



No

Borehole Log Hole ID. **BH96**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Flint Street **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Date Completed: 20/02/2015

Easting: 335260

Hole Depth:

GW Encountered:

Northing: 6241973

Zone: 56H

e	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Depth (m)	Graphic Log	USCS Symbol	Material Type	indicate Seconplori	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
				Grass					
_0.1			Fill	FILL - Silty SAND, brown, fine to medium grained, root inclusions, occasional concrete fragments (10mmØ), occasional gravel (<10mmØ).	dry	BH96_0.0-0.0	5 7.5	max = Avg =	No visual or olfactory signs of contamination observed.
0.25	3			FILL - SAND, brown / light brown, fine to medium grained, occasional sand concretions (5mmØ).	dry				No visual or olfactory signs of contamination observed.
0.4		SP	Natural	SAND - light grey, fine to medium grained.	dry	BH96_0.4-0.5	5		No visual or olfactory signs of contamination observed.
0.50	0								
_0.6	5			End of Hole at 0.50m in Natural					
_0.7	7								
_0.8	3								
_0.9	9								
1.0									
Obs	serva	tions					Notes		
Asbe Stair Odo	estos ning		N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted or Io groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max =, Avg =
2		M	A-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Me		Date: 20/02/2015 Date: 24/03/2015

	Observation	s			Notes
5	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max =, Avg =
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
	Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
201	Groundwater	-	No groundwater encountered during drilling.		
3	TRE-DAM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 20/02/2015

Borehole Log Hole ID. **BH97** Hole Depth: 0.50 m



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Flint Street **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Date Completed: 20/02/2015

Easting: 336425

GW Encountered:

Northing: 6241946

Zone: 56H

low	_	-og	/mbol	Туре	Material Providence		Sam	ples / Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, brown and light grey, fine grained, root inclusions, occasional silty concretions, occasional sandstone gravels (20-30mmØ).	dry	BH97_0.0-0.0	5 6.5	max = 29 Avg = 27	No visual or olfactory signs of contamination observed.
	0.20	$\overset{\sim}{\sim}$			FILL - Sandy SILT, brown, fine to medium grained, wood fragments.	dry				No visual or olfactory signs of contamination observed.
	0.25 _0.3			<u>.</u>	FILL - SAND, brown and light grey, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	_0.4						BH97_0.4-0.5	5		
	0.50				End of Hole at 0.50m in Fill					
	_0.6									
	0.7									
_	0.8									
-	0.9									
	1.0									
0		rvati	ons					Notes		1
Si	sbes tainir dour roun	ng	 r r	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipit o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 28, Avg = 26.
R	Œ	U	4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs IcKay	Date: 20/02/2015 Date: 24/03/2015

Observation	าร			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 28, Avg = 26.
Staining		No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
TRE-DIM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 20/02/2015



GW Encountered:

Borehole Log Hole ID. **BH98** 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review** Hole Depth:

Project Number:

Jauncey Place Location / Site: **NSW EPA** Client:

Drill Company:

Drill Method: Easting: 336382 **Hand Auger**

Date Started: 20/02/2015 Northing: 6241808

Date Completed: 20/02/2015 Zone: 56H

flow	<u></u>	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	wateriai Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
-	0.1				FILL - SAND, brown / grey, medium grained, occasional quartz grains (2mmØ), orange and white slag (5-15mmØ), glass fragments (10mmØ).	dry	ВН98_0.0-0.0	5 6	max = 20 Avg = 19	
-	_0.3 			HE						
_	0.4				FILL - SAND, dark grey, fine to medium grained.	dry	BH98_0.4-0.5	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Fill					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
		ervati	ons					Notes		
A S O	sbes tainii)doui	stos ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipits to olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 16, Avg = 14.
R	Œ	V	4/	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 20/02/2015 Date: 24/03/2015

Obse	ervation	s			Notes		
Asbes	stos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	Ground Level: I	max = 16, Avg = 14.
Stainir	ng	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
Odour	r	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groun	ndwater	1	No groundwater encountered during drilling.				
	6.6.	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date:	20/02/2015

Borehole Log Hole ID. **BH99** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Name:

Project Number:

Location / Site: Jauncey Place **NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Date Completed: 20/02/2015

336376 Easting:

GW Encountered:

Northing: 6241621

Zone: 56H

flow (r)		Material Description		Sam	ples / Tests		Observations / Comments			
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenai Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Coservations / Comments
					Grass					
	_0.1			Fill	FILL - Silty Clayey SAND, dark brown, fine grained, root inclusions, occasional river gravel (5-15mmØ), sandstone gravel (5mmØ), wood fragments.	dry	ВН99_0.0-0.0	5 7	max = 48 Avg = 46	No visual or olfactory signs of contamination observed.
	0.20				FILL - SAND, light brown / yellow, fine grained, angular igneous gravel inclusions	dry				No visual or olfactory signs of contamination observed.
	0.23	***			\(\((<5mm\overline{\phi}\)). SAND - yellow, medium grained.	dry				No visual or olfactory signs of contamination observed.
	0.4		SP	Natural						
	0.50						BH99_0.4-0.5	5		
					End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	0.9									
	1.0									
С)bse	rvati	ons					Notes		
S	sbes tainir dour iroun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapou	ır (ng/m³) 1m ab	ove Ground Level: max = 46, Avg = 44.
R	Œ	W	4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs IcKay	Date: 20/02/2015 Date: 24/03/2015

0.40 m

6241768

No

Borehole Log Hole ID. **BH100**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Brittain Cres Location / Site: **NSW EPA**

Drill Company: N/A

Client:

Date Started:

Drill Method: **Hand Auger**

20/02/2015

Date Completed: 20/02/2015

Easting: 336264

Hole Depth:

Northing:

GW Encountered:

Zone: 56H

low	(-og	/mbol	Туре	Mahadal Davadalian	Samples / Tests				Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments	
					Grass						
	0.1				FILL - Silty SAND, minor Clay, dark brown, fine grained, clinker inclusions (5-30mmØ).	dry	BH100_0.0-0.0	5.5	max = 39 Avg = 37		
	0.2			Fill	Rusted metal fragments (15mmØ) at 0.15m.						
0).30				FILL - SAND, dark grey, fine grained,	dry					
0	0.40				charcoal inclusions (<5mmØ), clinker (10mmØ).		BH100_0.3-0.4	4			
					End of Hole at 0.40m in Fill on concrete						
Ŀ	0.5										
	0.6										
-	0.7										
	0.8										
	0.9										
	1.0										
		rvati	ons					Notes	(marks-3) 4 :	one Crewed Level was 27. A 22.	
Sta	bes ainir dour oun	ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapour	· (ng/m²) 1m ab	ove Ground Level: max = 37, Avg = 36.	
R	Ē	U	4	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 20/02/2015 Date: 24/03/2015	

Observations	3		Notes			
Asbestos	I	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 37, Avg = 36.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	1	No groundwater encountered during drilling.				
EDE NAME	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 20/02/2015	

No

Borehole Log Hole ID. **BH101**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Brittain Cres NSW EPA**

Drill Company: N/A

Client:

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Date Completed: 20/02/2015

336267 Easting:

Hole Depth:

GW Encountered:

Northing: 6241656

Zone: 56H

Nol		Log	/mbol	Type	Material Description		Samples / Tests			Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1 				FILL - SAND, brown / grey, fine to medium grained, root inclusions, occasional crushed sandstone (<5mmØ).	dry	BH101_0.0-0.05	6	max = 2 Avg = <2	No visual or olfactory signs of contamination observed.
	0.2			ΕΞ	FILL - SAND, slightly Silty, brown, fine grained, crushed sandstone inclusions (20mmØ), angular river gravels (10mmØ), occasional glass, occasional clinker.	dry				
	0.35				FILL - SAND, light grey, medium grained, dark brown / black silt concretions.	dry	BH101_0.4-0.5			No visual or olfactory signs of contamination observed.
	0.50	×××			End of Hole at 0.50m in Fill					
MY 15.70	_0.7									
24/3/13	_0.8									
MAT 10:00:01 01:00:01 04:01 00:01:01 00:01:01	0.9									

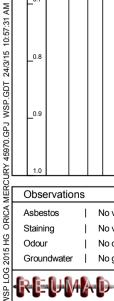
Observations Hg Vapour (ng/m^3) 1m above Ground Level: max = 3, Avg = <2. Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted during drilling. Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater | No groundwater encountered during drilling. Log Drawn By: Laurie White Logged By: Philippa Childs Date: 20/02/2015

Checked By:

Colin McKay

Date:

24/03/2015



No

Borehole Log Hole ID. **BH102**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: Flack Ave

NSW EPA Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

20/02/2015

Date Completed: 20/02/2015

Easting: 336215

Hole Depth:

GW Encountered:

Northing: 6241389

Zone: 56H

flow (r Log ymbol		Гуре			\$	Samples / Tes	ts	0, 1, 10		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID I	No.	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, brown, fine grained, sandstone inclusions (10mmØ), coke (<5mmØ), plastic fragments.	dry	BH102_	0.0-0.05	max = 48 Avg = 46	
	0.20			E	FILL - SAND, light brown, fine to medium grained, sandstone inclusions (15mmØ), coke (5-10mmØ), sand concretions (5mmØ).	dry				
_	0.40				FILL - SAND, light grey, fine to medium grained, with ash (50%), coke and charcoal fragments.	dry	BH102_	0.4-0.5		
+	0.50				End of Hole at 0.50m					
	0.6				in Fill					
	_0.7									
	_0.8									
	0.9									
	1.0									
0	bse	ervati	ons					Notes		
St	sbes tainii doui	ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipitate) noter Io olfactory (e.g. odour) evidence of contamination noted during dril Io groundwater encountered during drilling.		Irilling.	Hg Vapour	(ng/m³) 1m abo	ove Ground Level: max = 48, Avg = 46.
R	Œ	U	4/	\-[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 20/02/2015 Date: 24/03/2015

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	Ground Level: max = 48, Avg = 46.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater		No groundwater encountered during drilling.				
ES ES DAMA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 20/02/2015	



No

Borehole Log Hole ID. **BH103**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Donovan Ave NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

20/02/2015

Date Completed: 20/02/2015

Easting: 336586

Hole Depth:

GW Encountered:

Northing: 6242380

Zone: 56H

flow (r Log ymbol			/mbol	Туре	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - Silty SAND, brown, fine grained, silt concretions (<5mmØ), clinkers (10mmØ).	dry	BH103_0.0-0.0	05 6.5	max = 63 Avg = 61	
	0.15 0.2			Fill	FILL - SAND, light brown / light yellow, fine grained, orange silt concretions, occasional angular gravel.	dry				No visual or olfactory signs of contamination observed.
	0.3						Divisor o 4 o			
0	0.50						BH103_0.4-0.	5		
	0.6				End of Hole at 0.50m in Fill					
	0.7									
	0.8									
	0.9									
1.0										
Observations Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.								Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 61, Avg = 59.
R	Œ	()-(/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By	Philippa : Colin Me		Date: 20/02/2015 Date: 24/03/2015

Observation	s		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 61, Avg = 59.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	١	No groundwater encountered during drilling.				
MINITES	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 20/02/2015	

No

Borehole Log Hole ID. **BH104**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Donovan Ave NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 20/02/2015

Date Completed: 20/02/2015

336367 Easting:

Hole Depth:

GW Encountered:

Northing: 6242380

Zone: 56H

low)	6o-	mbol	Гуре			Sam	ples / Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass / Sand					
	0.1				FILL - Silty SAND, brown / grey, fine to medium, minor charcoal inclusions (<5mmØ), minor angular gravels (5-40mm).	dry	BH104_0.0-0.0	05 7	max = 49 Avg = 49	
•	_0.2			FIII						
	0.3 				Grading to					
	0.35				SAND - light grey, medium grained.	slightly moist				No visual or olfactory signs of contamination observed.
	0.50		SP	Natural			BH104_0.4-0.	5		
					End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
C	Dbse	ervati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dril Groundwater No groundwater encountered during drilling.								Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 48, Avg = 45.
R		U	4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs cKay	Date: 20/02/2015 Date: 24/03/2015

0.30 m

No

Borehole Log Hole ID. **BH105**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Parer Street NSW EPA**

Drill Company: N/A

Client:

Date Started:

Drill Method: **Hand Auger**

20/02/2015

Date Completed: 20/02/2015

Easting: 336398

Hole Depth:

GW Encountered:

Northing: 6242593

Zone: 56H

low)	6o-	/mbol	Туре	Material December		Samı	Samples / Tests		Observations (Oscillator
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - Silty SAND, grey / brown, fine to medium grained, minor charcoal inclusions (5mmØ), occasional sandstone gravels (15mmØ), occasional angular igneous gravels (5mmØ).	dry	BH105_0.0-0.0	05 6	max = 48 Avg = 47	
							BH105_0.2-0.:	3		
1	0.30	***			End of Hole at 0.30m in Fill on tree root					
-	0.4									
	0.5									
	0.6									
	0.7									
	0.8									
	0.9									
	1.0	ervati	ons			I		Notes		L
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilli Groundwater No groundwater encountered during drilling.									r (ng/m³) 1m ab	ove Ground Level: max = 49, Avg = 47.
R	Œ		/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs lcKay	Date: 20/02/2015 Date: 24/03/2015

Observation	ıs		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 49, Avg = 47.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
Groundwater	-	No groundwater encountered during drilling.				
ES ES ALMA	A	Log Drawn By: Laurie White	Philippa Childs	Date: 20/02/2015		



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH106**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Bunnerong Road**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336153 **Hand Auger**

Date Started: 20/02/2015 Northing: 6242594 Date Completed: 20/02/2015 Zone: 56H

low)	go-	mbol	Гуре	Material Description		Samples / Tests			Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1			Fill	FILL - Silty SAND, brown / grey, fine grained, root inclusions, angular igneous gravels (5mmØ).	dry	BH106_0.0-0.05	6	max = 40 Avg = 40	No visual or olfactory signs of contamination observed.
	0.30				SAND - light grey, fine to medium grained, root inclusions.	dry				No visual or olfactory signs of contamination observed.
	_0.4		SP	Natural	Tool inclusions.					contamination observed.
				Nai			BH106_0.4-0.5			
	0.50	(a) varatei			End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	0.9									

Observations	Dbservations				Notes			
Asbestos	Asbestos No visual evidence of asbestos noted during drilling.				Hg Vapour (ng/m³) 1m above Ground Level: max = 40, Avg = 39.			
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted						
Odour	Odour No olfactory (e.g. odour) evidence of contamination noted during drilling.							
Groundwater	1	No groundwater encountered during drilling.						
Log Drawn By: Laurie White Logged By: Philippa Childs Date: 20/02/2015								

Checked By:

Colin McKay

Date: 24/03/2015

Contact: laurie.white@reumad.com.au

NSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:35 AM

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH107**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Rhodes Street**

NSW EPA Client:

Drill Company:

336131 Drill Method: **Hand Auger** Easting:

Date Started: 24/02/2015 Northing: 6241484 Date Completed: 24/02/2015 Zone: 56H

Nol	()	Log	/mbol	Туре	Material Description		Samples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	Hg Vapour ng/m³	Observations / Comments	
					Grass					
	0.10				FILL - Silty SAND, dark brown, fine grained, root inclusions.	moist	BH107_0.0-0.05	max = 16 Avg = 14	No visual or olfactory signs of contamination observed.	
	0.2			Ē	FILL - SAND, light brown / light grey, fine grained, occasional root inclusions.	moist			No visual or olfactory signs of contamination observed.	
	0.35				FILL - SAND, dark brown / dark grey, fine grained.	moist			No visual or olfactory signs of contamination observed.	
	0.40				FILL - SAND, light brown / light grey, fine grained.	moist			No visual or olfactory signs of contamination observed.	
	0.50		SP	Natural	SAND - light grey / white, fine grained.	moist	BH107_0.4-0.5		No visual or olfactory signs of contamination observed.	
	_0.6				End of Hole at 0.50m in Natural					
	_0.7									
	_0.8									
	_0.9									
	1.0									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:35 AM

Observations

Groundwater

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 14, Avg = 12.

Date: 24/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH108**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Rhodes Street

NSW EPA Client:

Drill Company: N/A

Location / Site:

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 336136

Hole Depth:

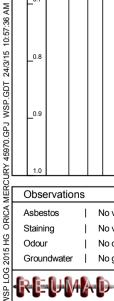
GW Encountered:

Northing: 6241555

Zone: 56H

low		6o-	mbol	Гуре			Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
					FILL - SAND, dark brown, fine grained, root inclusions.	dry	BH108_0.0-0.05	6	max = 9 Avg = 7	No visual or olfactory signs of contamination observed.
	0.10			_	FILL - SAND, light brown, fine grained, occasional angular river gravels (10mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.3			FIII						
	0.50						BH108_0.4-0.5			
					End of Hole at 0.50m in Fill					
	_0.6									
NIC 00:	_0.7									
24/3/13 10:5	_0.8									
00.15.00.00.00.00.00.00.00.00.00.00.00.00.00	_0.9									
- 1409/U.	1.0									

Observation	าร		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max	= 8, Avg = 6.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
LO L'ENTU	M	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 24/	02/2015



Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au Logged By: Checked By:

Colin McKay

Date: 24/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH109**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Nilson Ave **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 335957

Hole Depth:

GW Encountered:

Northing: 6241320

Zone: 56H

llow	(1	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасенаі Дезспріют	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Confinents
					Grass					
	_0.1				FILL - SAND, brown / grey, fine to medium grained, slag and coke inclusions (<5mmØ).	dry	BH109_0.0-0.0	05 6	max = 19 Avg = 16	
	_0.2 0.30			Fill						
	0.4				FILL - SAND, brown / grey, medium grained, root inclusions, occasional angular river gravels (10mmØ).	moist				No visual or olfactory signs of contamination observed.
	0.50	\bigotimes					BH109_0.4-0.	5		
					End of Hole at 0.50m in Fill					
	_0.6									
	0.7									
	_0.8									
	0.9									
	1.0									
С		ervati	ons					Notes		
A S	sbes tainir dour	stos ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.				(ng/m³) 1m ab	ove Ground Level: max = 16, Avg = 14
R	Œ	W	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 24/02/2015 Date: 24/03/2015

Observations	Notes	
Asbestos No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 16, Av	vg = 14.
Staining No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	
Odour No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
Groundwater No groundwater encountered during drilling.		ļ
Log Drawn By: Laurie White	Logged By: Philippa Childs Date: 24/02/2015	5

No

Borehole Log Hole ID. **BH110**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Nilson Ave **NSW EPA**

Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

24/02/2015

Date Completed: 24/02/2015

Easting: 335952

Hole Depth:

GW Encountered:

Northing: 6241395

Zone: 56H

low)	6o-	/mbol	Туре	Material Description		Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, light brown, fine to medium grained, wood (mulch) inclusions.	dry	BH110_0.0-0.05	5.5	max = 39 Avg = 37	No visual or olfactory signs of contamination observed.
	0.20	\bigotimes		_	Grading to					
	_0.3			Ē,	FILL - SAND, light brown, fine to medium grained, occasional wood inclusions, sandstone gravels (10mmØ), tile fragments (10mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.40	\bowtie			SAND - grey and light yellow, fine to	moist				No visual or olfactory signs of
			SP	Natural	medium grained.	molec	BH110_0.4-0.5			contamination observed.
	0.50				End of Hole at 0.50m in Natural					
	_0.6									
100 D	_0.7									
2007	_0.8									
MC 50: 10:01 61 61 42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_0.9									
<u></u>	1.0									

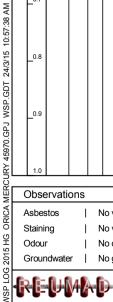
Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 38, Avg = 24.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
fo fi fi fi	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015

Checked By:

Contact: laurie.white@reumad.com.au

Colin McKay

Date: 24/03/2015



335945

6241560

56H

No

Hole Depth:

Easting:

Northing:

GW Encountered:

Borehole Log Hole ID. **BH111**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Nilson Ave

NSW EPA Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015 Zone:

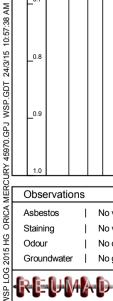
flow	(1	Log	ymbol	Type	Meterial Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1 0.15				FILL - Silty SAND, brown, fine to medium grained, root inclusions, sand concretions (10-20mmØ), occasional white slag (5mmØ).	dry	BH111_0.0-0.05	6.5	max = 12 Avg = 11	No visual or olfactory signs of contamination observed.
	_0.2			Hill	FILL - SAND, light brown / light grey, fine grained, occasional clinker inclusions (10mmØ).	dry				
	0.35		SP	Natural	SAND - light grey, fine to medium grained.	moist	BH111_0.4-0.5			No visual or olfactory signs of contamination observed.
	0.50	<u> </u>			End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	_0.8									
MC 50: 10:01 61 61 42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_0.9									

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 12, Avg = 11.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
ESE DAM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH112**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336004 **Hand Auger** Date Started: 24/02/2015 Northing: 6241602

Date Completed: 24/02/2015 Zone: 56H

flow	(u	Log	ymbol	Type	Material Description		Samı	oles / Tests	_	Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	naconal Societae.	Moisture	ID No.	рН	Hg Vapour ng/m³	32611446167 331111616
					Grass					
	_0.1				FILL - SAND, slightly Silty, brown and dark grey, fine grained, charcoal inclusions (5mmØ), sandstone gravels (5mmØ), occasional clinker (20mmØ).	dry	BH112_0.0-0.0	95 7	max = 16 Avg = 14	
	0.25 0.25			E	FILL - SAND, brown / grey, fine grained, occasional clinker inclusions (5mmØ).	moist				
	0.40		SP	Natural	SAND - light grey, fine to medium grained.	moist	BH112_0.4-0.4	5		No visual or olfactory signs of contamination observed.
+	0.50				End of Hole at 0.50m in Natural					
-	0.6									
-	0.7									
	0.8									
	0.9									
	1.0									
0	bse	ervati	ons					Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) not Odour No olfactory (e.g. odour) evidence of contamination noted during dr Groundwater No groundwater encountered during drilling.									r (ng/m³) 1m ab	ove Ground Level: max = 10, Avg = 14.
R	Œ		4 /	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs lcKay	Date: 24/02/2015 Date: 24/03/2015

Observatio	าร			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above G	round Level: max = 10, Avg = 14.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
	LDA	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH113**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336013 **Hand Auger** Date Started: 24/02/2015 Northing: 6241554

Date Completed: 24/02/2015 Zone: 56H

low	(-og	/mbol	Туре	Material Description		Sam	ples / Tests		Observation (Oscarda
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.10				FILL - Silty SAND, brown, fine grained, wood inclusions, crushed concrete (<5mmØ).	dry	BH113_0.0-0.0	05 6	max = 18 Avg = 14	No visual or olfactory signs of contamination observed.
	0.2			Hil	FILL - SAND, light brown / dark brown mottled, fine to medium grained, dark brown sand concretions (15mmØ), occasional clinkers (30mmØ).	moist				
	0.3 0.40				SAND - light brown, fine to medium	moist				No visual or olfactory signs of
	0.50		SP	Natural	grained.	moloc	BH113_0.4-0.	5		contamination observed.
					End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	_0.8									
-	_0.9									
	1.0									
С)bse	rvati	ons					Notes		
S	sbes tainir dour iroun	ng	 er	N N	to visual evidence of asbestos noted during drilling. It is visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapou	(ng/m³) 1m ab	ove Ground Level: max = 14, Avg = 14.
R	Œ	V	4	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin M		Date: 24/02/2015 Date: 24/03/2015

Observation	s			Notes
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 14, Avg = 14.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
Groundwater	-	No groundwater encountered during drilling.		
LOC-UTWV	SA.	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 24/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH114**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336026 **Hand Auger** Date Started: 24/02/2015 Northing: 6241430

Date Completed: 24/02/2015 Zone: 56H

low	(Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
		~~~			Grass					
_	_0.1				FILL - SAND, dark brown, fine grained, occasional root inclusions.	dry	BH114_0.0-0.0	05 6.5	max = 25 Avg = 24	No visual or olfactory signs of contamination observed.
-	0.15			EIII	FILL - SAND, grey, fine grained, coke inclusions (<5mmØ), occasional clinker (5mmØ).	damp				
-	_0.3 				CAND light groy/light brown fine to	moiat				No visual or elfectory signs of
-	0.4 		SP	Natural	SAND - light grey / light brown, fine to medium grained.	moist				No visual or olfactory signs of contamination observed.
	0.00				End of Hole at 0.50m in Natural					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.								Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 18, Avg = 15.
R	Œ		/4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au	Logged By: Checked By:		a Childs lcKay	Date: 24/02/2015 Date: 24/03/2015	

Observation	s		Notes
Asbestos	Τ	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 18, Avg = 15.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling.	
Groundwater	1	No groundwater encountered during drilling.	
,			



0.30 m

336030

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH115**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: **Hand Auger**

Date Started: 24/02/2015 Northing: 6241405

Date Completed: 24/02/2015 Zone: 56H

flow	(د	Log	ymbol	Type	Material Description	_	Samp	oles / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Bederption	Moisture	ID No.	pH	Hg Vapour ng/m³	Gasel validity Comments
					Grass					
	0.1				FILL - SAND, light brown / dark brown, fine grained, occasional charcoal inclusions (5mmØ).	dry	BH115_0.0-0.0	6	max = <2 Avg = <2	
	0.2 0.30			Ē	Sandstone and river gravel inclusions at 0.3m (>20mmØ).		BH115_0.2-0.3	3		
	0.00	×××			End of Hole at 0.30m in Fill on gravel					
-	0.4									
	0.5									
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) n Odour No olfactory (e.g. odour) evidence of contamination noted during Groundwater No groundwater encountered during drilling.								Hg Vapou	(ng/m³) 1m abo	ove Ground Level: max = <2, Avg = <2.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:	Philippa Colin M		Date: 24/02/2015 Date: 24/03/2015

Observation	ns			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = <2, Avg = <2.		
Staining	- 1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	- 1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater		No groundwater encountered during drilling.			
	4 N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015

0.20 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH116**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Grace Campbell Cres**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336014 **Hand Auger** Date Started: 24/02/2015 Northing: 6241323

Date Completed: 24/02/2015 Zone: 56H

Water Inflow Depth (m) Graphic Log USCS Symbol		ymbol	al Type	Metarial Description		Sam	ples / Tests		Observations / Comments	
water in	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
_(0.1			Hi∃	FILL - Silty SAND, brown, fine grained, angular river gravel inclusions (10-40mmØ).	dry	BH116_0.0-0.0	05 6.5	max = 5 Avg = 4	No visual or olfactory signs of contamination observed.
0	.20				Refusal at 0.20m in Fill due to gravel					
Ļ	0.3				III III due to gravei					
_(0.4									
_(0.5									
_(0.6									
	0.7									
L	0.8									
_	0.9									
	1.0									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater No groundwater encountered during drilling.								Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 5, Avg = 2.
2	Ē	U	/4/	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 24/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 5, Avg = 2.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
Fo F= N±NA	SA.	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015



0.40 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH117**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Beauchamp Road

NSW EPA Client:

Drill Company:

Drill Method: Easting: 335964 **Hand Auger** Date Started: 24/02/2015 Northing: 6241188

Date Completed: 24/02/2015 Zone: 56H

mom (c	Loa	lodmy	Type	Material Description		Samp	oles / Tests		Observations / Comments
Water Inflow Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
				Grass					
0.1			E	FILL - Silty SAND, minor Clay, dark brown, fine grained, root inclusions, crushed sandstone inclusions (20mmØ), angular river gravel (15mmØ).	dry	BH117_0.0-0.0	6.5	max = 8 Avg = 8	No visual or olfactory signs of contamination observed.
0.5						BH117_0.3-0.4	4		
				Refusal at 0.40m in Fill due to gravel					
0.5	5								
_0.6	3								
_0.7	7								
_0.8	3								
_0.9	9								
1.0									
Obs	serva	ation	S				Notes		
Stair Odo	-		1	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted of No groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 8, Avg = 7.
RE		-M	A	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin Mo		Date: 24/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 8, Avg = 7.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	١	No groundwater encountered during drilling.			
6- 6- 0 · 0 ·	•	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH118**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Bunnerong Road**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336604 **Hand Auger** Date Started: 24/02/2015 Northing: 6241807

Date Completed: 24/02/2015 Zone: 56H

) (c		foo l	ymbol	Type	Material Description		Samı	ples / Test	ts		Observations / Comments
Vater IIIIOW Depth (m)	i de co	Grapnic Log	USCS Symbol	Material Type	material Bederption	Moisture	ID No.	р	Н	Hg Vapour ng/m³	Observations / Comments
					Grass						
_0.	1				FILL - Silty SAND, dark brown, fine grained.	moist	BH118_0.0-0.0	05	6	max = 12 Avg = 9	No visual or olfactory signs of contamination observed.
_0.1	\otimes			Ei⊪	FILL - Silty SAND, brown / grey, fine grained, occasional river gravel inclusions (20mmØ).	dry					No visual or olfactory signs of contamination observed.
_0.:	3			4	Root inclusions at 0.3-0.4m.						
_0.4							BH118_0.4-0.	5			
0.5	50 🔀				End of Hole at 0.50m in Fill						
_0.0	6										
_0.	7										
_0.8	8										
0.9	9										
1.0	0										
Observations								Notes			
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) r Odour No olfactory (e.g. odour) evidence of contamination noted during Groundwater No groundwater encountered during drilling.								Hg Vap	oour (ng/m³) 1m ab	ove Ground Level: max = 10, Avg = 9.
R	- [J ¶	4 <u>A</u>	-Li	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:			Childs	Date: 24/02/2015 Date: 24/03/2015

Observatio	ns			Notes	
Asbestos	-	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 10, Avg = 9.		
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	- 1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater	-	No groundwater encountered during drilling.			
	4. PA	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 24/02/20	15

No

Borehole Log Hole ID. **BH119**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Jersey Road **NSW EPA**

Drill Company:

Client:

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 336579

Hole Depth:

GW Encountered:

Northing: 6241544

Zone: 56H

low)	Sample Sample Material Description						s / Tes	sts		Observations (Ourseast)	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.		рН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments
					Grass							
	_0.1				FILL - Silty SAND, brown, fine to medium grained, root inclusions, charcoal (<5mmØ), crushed concrete, angular igneous gravel, glass fragment.	dry	BH119_0.0	0-0.05	6	Dup9 Trip9 Dup9 (EPA)	max = 29 Avg = 25	
	0.2 0.25			Natural								
	0.3			Na	FILL - Silty SAND, brown / pale orange, fine to medium grained, clumps of clay (5-20mmØ), occasional charcoal inclusions (<5mmØ).	dry						
	0.4						BH119_0.	4-0.5				
1	0.50				End of Hole at 0.50m in Fill							
-	0.6											
	0.7											
	0.8											
	0.9											
	1.0											
Observations								•	N	lotes		
St	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling to visual evidence of contamination (e.g. staining to olfactory (e.g. odour) evidence of contamination of groundwater encountered during drilling.	/ precipita		drilling.	H	g Vapour ((ng/m³) 1m ab	ove Ground Level: max = 26, Avg = 23.
R	Œ	V	4/	₩[Log Drawn By: Laurie White Contact: laurie.white@reumad.c	com.au		Logged By: Checked B		Philippa Colin Mc		Date: 24/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 26, Avg = 23.		
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
TO TELL LINE	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015



No

Borehole Log Hole ID. **BH120**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Jersey Road **NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 337188

Hole Depth:

GW Encountered:

Northing: 6241817

Zone: 56H

MOIL	_	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water illiow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Confinents
					Grass					
	0.1				FILL - Silty SAND, light grey / light brown, fine grained, crushed sandstone inclusions (15mmØ), charcoal (5mmØ), crushed terracotta (5mmØ).	dry	BH120_0.0-0.0	05 6.5	max = 11 Avg = 7	
	0.2				Coal gravels (15mmØ) at 0.15m.					
	0.30			Eill	Grading to					
	0.4				FILL - SAND, light brown / light grey, medium grained, occasional sandstone gravel inclusions (10mmØ), clinker / slag (30mmØ).	dry				
	0.50						BH120_0.4-0.	5		
	7.50	×××			End of Hole at 0.50m in Fill					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	rvatio	ons					Notes		
St	sbes ainir dour roun	ng	 r	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipital of olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m abo	ove Ground Level: max = 13, Avg = 7.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By:	Philippa : Colin M		Date: 24/02/2015 Date: 24/03/2015	

Observation	S			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground L	_evel: max = 13, Avg = 7.	
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
TOTE DAM	A	Log Drawn By: Laurie White	Philippa Childs	Date: 24/02/2015	

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH121**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Beauchamp Road

NSW EPA Client:

Drill Company:

Drill Method: Easting: 337053 **Hand Auger**

Date Started: 24/02/2015 Northing: 6241512

Date Completed: 24/02/2015 Zone: 56H

low	<u>-</u>	Log	ymbol	Type	Material Description		Sam	iples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	wateriai Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, brown, fine to medium grained, igneous gravel inclusions (40-70mmØ).	dry	BH121_0.0-0.0	05 8	max = 19 Avg = 13	No visual or olfactory signs of contamination observed.
	0.15 _0.2			Fill	FILL - Silty SAND, dark brown, fine to medium grained, coke inclusions (5mmØ), sandstone inclusions (5mmØ).	dry				No visual or olfactory signs of contamination observed.
-	0.35				FILL - SAND, light grey, fine grained, minor pale orange clay (possible natural).	dry				No visual or olfactory signs of contamination observed.
	0.50						BH121_0.4-0.	5		
	0.6				End of Hole at 0.50m in Fill					
	-									
_	0.7									
	_0.8									
	0.9									
	1.0									
Observations								Notes		
S	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during c							Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 15, Avg = 4.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By	Philippa : Colin Me		Date: 24/02/2015 Date: 24/03/2015	

Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level:	max = 15, Avg = 4.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
tot:UtW	A	Log Drawn By: Laurie White	Philippa Childs Date:	24/02/2015	

No

Borehole Log Hole ID. **BH122**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Bapaume Pde

NSW EPA Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 337239

Hole Depth:

GW Encountered:

Northing: 6241519

Zone: 56H

low	<u> </u>	Log	mbol	Туре	Material Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, brown, fine grained, occasional clinker inclusions (5mmØ), terracotta (5mmØ), coke (<5mmØ).	dry	BH122_0.0-0.0	7.5	max = 9 Avg = 4	
_	_0.2			E						
	0.3 0.40				Large piece of terracotta (120mmØ) at 0.35m.					
	0.50		SP	Natural	SAND - light brown / light yellow, fine to medium grained.	dry	BH122_0.4-0.	5		No visual or olfactory signs of contamination observed.
Ť	0.50				End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	_0.8									
	0.9									
	1.0									
0	bse	rvati	ons					Notes		
St	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no Odour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater No groundwater encountered during drilling.							Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 38, Avg = 32.
R	Œ	U	A.	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 24/02/2015 Date: 24/03/2015

Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 38, Avg = 32.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	١	No groundwater encountered during drilling.			
MINITES	A	Log Drawn By: Laurie White	Philippa Childs	Date: 24/02/2015	

337226

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH123**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Hamel Road NSW EPA** Client:

Drill Company: N/A

Drill Method: Easting: **Hand Auger**

Date Started: 24/02/2015 Northing: 6241325

Date Completed: 24/02/2015 Zone: 56H

Water Inflow Depth (m) Graphic Log USCS Symbol		ymbol	Type	Material Description		Samples / Tests		Observations / Comments		
water in	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, dark brown, fine to medium grained, root inclusions, occasional angular river gravels (10-30mmØ).	dry	BH123_0.0-0.0	05 6	max = 28 Avg = 18	No visual or olfactory signs of contamination observed.
	0.20			Ē	FILL - SAND, light brown, medium grained, root inclusions, occasional sand concretions, occasional angular river gravels (10mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.4 0.50						BH123_0.4-0.	5		
	0.6				End of Hole at 0.50m in Fill					
-	0.7									
_	0.8									
	0.9									
	1.0									
Observations								Notes		
Sta	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) note Odour No olfactory (e.g. odour) evidence of contamination noted during dri Groundwater No groundwater encountered during drilling.							Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 25, Avg = 20
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By:		a Childs IcKav	Date: 24/02/2015 Date: 24/03/2015	

ĹΙ	Observation	_			Notes		
2	Observation	3		11999			
3	Asbestos	-	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 25, Avg = 20.			
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.			
ב ב	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.			
2013	Groundwater	1	No groundwater encountered during drilling.				
252	€2-€=0±M4	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 24/02/2015		



Yes

0.2m bgl

Borehole Log Hole ID. **BH124** Hole Depth: 0.50 m

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Flanders Ave

NSW EPA Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 337252

GW Encountered:

GW Inflow:

Northing: 6241077

Zone: 56H

flow)	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	імасена Дезсприоп	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments	
					Grass						
	_0.1				FILL - SAND, dark brown / dark grey, fine to medium grained, root inclusions, occasional slag inclusions (30mmØ).	very moist	BH124_0.0-0.0	05 8.5	max = 23 Avg = 19		
	0.20			Fill	FILL - SAND, light grey, medium grained.	very moist to wet				No visual or olfactory signs of contamination observed.	
	0.4				Angular sandstone gravel inclusions at 0.35m.		BH124_0.4-0.	5			
	0.50				End of Hole at 0.50m in Natural						
-	_0.6										
	0.7										
	_0.8										
-	_0.9										
	1.0										
С	Observations							Notes			
S	Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) no obdour No olfactory (e.g. odour) evidence of contamination noted during of Groundwater Groundwater encountered during drilling.							Hg Vapou	(ng/m³) 1m ab	ove Ground Level: max = 21, Avg = 15.	
R	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au					Logged By: Checked By:	Philippa		Date: 24/02/2015 Date: 24/03/2015		

Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 21, Avg = 15.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of			
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	Groundwater encountered during drilling.			
GO GE OLOM	SA.	Log Drawn By: Laurie White	Philippa Childs	Date: 24/02/2015	

No

Borehole Log Hole ID. **BH125**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Knowles Ave NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

Easting: 337230

Hole Depth:

GW Encountered:

Northing: 6240884

Zone: 56H

mllow m) c Log Symbol		symbol	Type	Material Description		Sam	ples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	waterial bescription	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
-	0.1				FILL - SAND, light grey / light brown, fine to medium grained, ash fragments (5-15mmØ), charcoal (5mmØ), occasional sandstone gravels (5mmØ), occasional orange sand concretions (10mmØ).	dry	BH125_0.0-0.0	05 6.5	max = 17 Avg = 16	
_	_0.3			E	Grading to					
	0.40				FILL - SAND, light grey / light brown, fine to medium grained.	dry	BH125_0.4-0.	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Fill					
	_0.6									
-	_0.7									
-	_0.8									
	_0.9									
	1.0									
Observations								Notes	•	_
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.								(ng/m³) 1m ab	ove Ground Level: max = 10, Avg = 5.	
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By:	Philippa Colin Me		Date: 24/02/2015 Date: 24/03/2015	

N L	Observation	S		Notes		
5	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 10, Avg = 5.	
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
201	Groundwater	-	No groundwater encountered during drilling.			
	TRE-DIM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 24/02/2015	

No

Borehole Log Hole ID. **BH126**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Orica Mercury Independant Review Project Name:

Project Number: 45970

Location / Site: **Shirley Cres**

NSW EPA Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 24/02/2015

Date Completed: 24/02/2015

336776 Easting:

Hole Depth:

GW Encountered:

Northing: 6240446 Zone: 56H

low	_	Log	/mbol	Туре	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenar Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - SAND, brown / grey, medium grained, occasional sand concretions (10mmØ).	dry	BH126_0.0-0.05	6.5	max = 33 Avg = 30	No visual or olfactory signs of contamination observed.
	0.20			Ē.	FILL - SAND, brown, medium grained, occasional angular river gravel inclusions (10mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.50				FILL - SAND, dark brown, medium grained.	dry	BH126_0.4-0.5			No visual or olfactory signs of contamination observed.
	_0.6				End of Hole at 0.50m in Fill					
	_0.7									
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	_0.8									
MC 64:10:01 01 5/42 100: 1000 010:01604 100	0.9									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:49 AM No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater | No groundwater encountered during drilling.

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 26, Avg = 23.

Date: 24/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH127**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Shirley Cres NSW EPA**

Drill Company:

Client:

Date Started:

Drill Method:

Hand Auger

24/02/2015

Date Completed: 24/02/2015

Easting: 336704

Hole Depth:

GW Encountered:

Northing: 6240320

Zone: 56H

low	<u> </u>	Log	/mbol	Type	Material Description		Sam	ples / Tests	ples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Description	Moisture	ID No.	pl	, F	Hg Vapour ng/m³	Observations / Comments	
					Grass							
-	_0.1			Fill	FILL - SAND, dark brown / grey, fine to medium grained.	moist	BH127_0.0-0.0	05 6		nax = 32 Avg = 26	No visual or olfactory signs of contamination observed.	
	0.30				CAND ded one for the said on						Nacional and Section 2	
	_0.4		SP	Natural	SAND - dark grey, fine to medium grained.	moist	BH127_0.4-0.	5			No visual or olfactory signs of contamination observed.	
	0.50						ВП121_0.4-0.	5				
					End of Hole at 0.50m in Natural							
	_0.6											
	_0.7											
	_0.8											
	_0.9											
	1.0											
С	Obse	ervati	ons					Notes				
S	sbes Staini Odou Grour	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapo	our (ng	n/m³) 1m ab	ove Ground Level: max = 28, Avg = 22.	
R	Œ	U	/4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philip Colin			Date: 24/02/2015 Date: 24/03/2015	

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou	und Level: max = 28, Avg = 22.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
ES ES OLDA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 24/02/2015

No

Borehole Log Hole ID. **BH128**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Anthony Lane**

NSW EPA Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336863

Hole Depth:

GW Encountered:

Northing: 6241548

Zone: 56H

low)	Log	/mbol	Туре	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1			Fill	FILL - SAND, grey / brown, fine to medium grained, occasional root inclusions, occasional slag inclusions (<5mmØ).	dry	BH128_0.0-0.0	05 5.5	max = 73 Avg = 70	
-	0.25				SAND - light grey, fine to medium grained.	dry				No visual or olfactory signs of contamination observed.
	_0.4		SP	Natural			D1400 0 4 0	-		
	0.50						BH128_0.4-0.	5		
	_0.6				End of Hole at 0.50m in Natural					
	_0.7									
	_0.8									
	0.9									
	1.0									
A S	sbes tainir dour	ng		N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do lo groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 72, Avg = 71.
R	C	U	4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 26/02/2015 Date: 24/03/2015

Observation	IS			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 72, Avg = 71.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater		No groundwater encountered during drilling.			
ESTE NEW	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

0.30 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH129**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Anthony Lane Location / Site: **NSW EPA**

Client:

Drill Company:

Drill Method: Easting: 336730 **Hand Auger**

Date Started: 26/02/2015 Northing: 6241504

Date Completed: 26/02/2015 Zone: 56H

low		-og	/mbol	Туре	Material Description		Samp	ples / Tests		Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments	
					Grass						
Ì					FILL - Silty SAND, brown, fine grained.	dry	BH129_0.0-0.0)5 5	max = 70 Avg = 68	No visual or olfactory signs of contamination observed.	
	_0.1 0.15				Sandstone gravel inclusions (30mmØ) from 0.1m.						
	0.2				FILL - Silty SAND, brown / grey, fine grained, sandstone gravel inclusions (10-40mmØ).	dry				No visual or olfactory signs of contamination observed.	
ſ	0.25 0.30				FILL - Silty SAND, light brown / light orange, fine grained, sandstone gravel	dry	BH129_0.2-0.3	3		No visual or olfactory signs of contamination observed.	
	0.4	***			inclusions (10-40mmØ), angular igneous gravels (10mmØ). Refusal at 0.30m in Fill on gravel						
	0.5										
	0.6										
	0.7										
	0.8										
	0.9										
	1.0										
0	bse	rvati	ons					Notes			
St	sbes tainir dour roun	ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapoui	(ng/m³) 1m ab	ove Ground Level: max = 71, Avg = 69.	
R	Œ	U	A	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 26/02/2015 Date: 24/03/2015	

ģL L	Observation	ıs			Notes
S S	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 71, Avg = 69.
5	Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.	
D H	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
201	Groundwater	I	No groundwater encountered during drilling.		
LOG	fef=N+M	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 26/02/2015

0.30 m

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH130**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Beauchamp Road

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336590 **Hand Auger**

Date Started: 26/02/2015 Northing: 6241375

Date Completed: 26/02/2015 Zone: 56H

flow	٦	Log	ymbol	Туре	Material Description	_	Sam	ples / Tests			Observations / Comments	
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	wateriar Description	Moisture	ID No.	рН	Hg Vi	apour /m³	Observations / Comments	
					Grass							
	0.1			Fill	FILL - Clayey SAND, dark brown, fine grained, nutrient rich, occasional angular gravel inclusions.	dry	BH130_0.0-0.0	05 8.	max Avg	= 67 = 65	No visual or olfactory signs of contamination observed.	
	0.25	\bigotimes					BH130_0.2-0.	3				
	0.30				FILL - SAND, light brown, fine to medium grained.	dry	B11100_0.2-0.				No visual or olfactory signs of contamination observed.	
	_0.4				Refusal at 0.30m in Fill on sandstone gravels							
_	0.5											
	0.6											
	0.7											
	0.8											
	0.9											
	1.0											
0	bse	rvati	ons					Notes				
St	sbes tainir dour roun	ng	 	N N	o visual evidence of asbestos noted during drilling. o visual evidence of contamination (e.g. staining / precipits o olfactory (e.g. odour) evidence of contamination noted d o groundwater encountered during drilling.			Hg Vapo	ur (ng/m³)	1m at	ove Ground Level: max = 66, Avg = 65.	
R	Œ	W	/4/	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		oa Childs McKay	3	Date: 26/02/2015 Date: 24/03/2015	

રૂ						
∯ C	Observation	s			Notes	
§ A	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou	nd Level: max = 66, Avg = 65.
5 s	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ng.		
G	Groundwater	1	No groundwater encountered during drilling.			
LCC	E-N±N4	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

No

Borehole Log Hole ID. **BH131**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Daunt Ave NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336600

Hole Depth:

GW Encountered:

Northing: 6241176

Zone: 56H

low)	Log	/mbol	Type	Metarial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Clayey SAND, light brown and dark brown, fine grained, occasional crushed sandstone inclusions, clinkers (5mmØ).	dry	BH131_0.0-0.0	05 8	max = 66 Avg = 62	
	0.2 0.30			Fill						
					FILL - Sandy CLAY, brown / grey, medium stiff.	dry				No visual or olfactory signs of contamination observed.
	0.40				FILL - Clayey SAND, light brown, fine grained, crushed sandstone inclusions.	dry	BH131_0.4-0.	5		No visual or olfactory signs of contamination observed.
ľ	0.50	xxx			End of Hole at 0.50m in Fill					
	0.6									
	0.7									
	_0.8									
	0.9									
	1.0									
0	bse	ervati	ons					Notes		_
S	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 65, Avg = 63.
R	Œ	U	/4/	\[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Me		Date: 26/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 65, Avg = 63.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
MINITES	N	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

No

Borehole Log Hole ID. **BH132**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Daunt Ave NSW EPA** Client:

Drill Company: N/A

Date Started:

Drill Method: **Hand Auger**

26/02/2015

Date Completed: 26/02/2015

Easting: 336756

Hole Depth:

GW Encountered:

Northing: 6241192

Zone: 56H

MOIL .	<u> </u>	Log	Log		Material Description	4)	Samples / Tests			
water inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
Γ	0.1 0.15				FILL - SAND, light brown / light grey, fine to medium grained, occasional angular igneous gravel (15mmØ).	dry	BH132_0.0-0.0	05 7	max = 63 Avg = 62	No visual or olfactory signs of contamination observed.
	0.2			Fill	FILL - SAND, light brown / light orange, fine grained, occasional clinker inclusions (<5mmØ).	dry				
	0.4				FILL - Silty SAND, light brown / light grey, fine grained, occasional angular igneous gravel (<5mmØ).	dry				No visual or olfactory signs of contamination observed.
,	0.50						BH132_0.4-0.	5		
	0.6				End of Hole at 0.50m in Fill					
-	0.7									
	0.8									
_	0.9									
	1.0									
Ol	bse	rvatio	ons					Notes		
Sta	ainir dour oun	ng	 r	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted of lo groundwater encountered during drilling.	,		Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 64, Avg = 62
R	Œ	0+1	4/	+[i	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Mo		Date: 26/02/2015 Date: 24/03/2015

Observation	ıs			Notes	
Asbestos	١	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 64, Avg = 62.		
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	-	No groundwater encountered during drilling.			
ES ES UTUA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

No

Borehole Log Hole ID. **BH133**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Pillars Place Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336686

Hole Depth:

GW Encountered:

Northing: 6241081

Zone: 56H

low		Log	/mbol	Type	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenar Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, dark brown, fine grained, root inclusions.	dry	BH133_0.0-0.05	7.5	max = 62 Avg = 60	No visual or olfactory signs of contamination observed.
	0.15				FILL - Silty SAND, light brown, fine grained, angular gravel inclusions (5-10mmØ), occasional plastic and fibrous material.	dry				No visual or olfactory signs of contamination observed.
	0.3			EIII						
	0.4 						BH133_0.4-0.5			
	0.30	×××			End of Hole at 0.50m in Fill					
	_0.6									
MIC OC. IC.	_0.7									
24/3/10	_0.8									
WOT. 607 10.01.01 10.01.00 AM	0.9									

Observation	S			Notes
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 63, Avg = 61.
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling		
Groundwater		No groundwater encountered during drilling.		
	_	Lea Danie Din Leurie White	Lawred Du	Dellines Childs Deter 00/00/0045

NSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:55 AM

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au Logged By: Checked By: Philippa Childs Colin McKay

Date: 26/02/2015 Date: 24/03/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH134**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Windsor Street Location / Site:

NSW EPA Client:

Drill Company: N/A

Drill Method: Easting: 336818 **Hand Auger**

Date Started: 26/02/2015 Northing: 6241102 Date Completed: 26/02/2015 Zone: 56H

low	()	Log	/mbol	Type	Material Description		Samples /	Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1			Fill	FILL - SAND, brown, fine to medium grained, root inclusions, wood, river gravel (15mmØ), occasional clinker (10mmØ), occasional ash (<5mmØ).	dry	BH134_0.0-0.05	7.5	max = 61 Avg = 61	
	0.25 _0.3				FILL - SAND, brown, fine to medium grained, occasional dark brown sand concretions, occasional clinker inclusions (5mmØ).	dry				
	0.40				FILL - SAND, light brown / light orange, fine to medium grained, occasional dark brown sand concretions.	moist				No visual or olfactory signs of contamination observed.
			SP	Natural	SAND - brown / orange, medium grained.	slightly moist	BH134_0.4-0.5			No visual or olfactory signs of contamination observed.
	0.60				End of Hole at 0.50m in Natural					
	_0.7									
	_0.8									
	0.9									

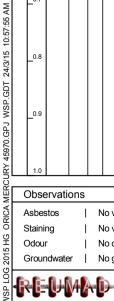
Observation	IS			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Grou	und Level: max = 63, Avg = 61.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	I	No groundwater encountered during drilling.			
FRE NIM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

Checked By:

Contact: laurie.white@reumad.com.au

Colin McKay

Date: 24/03/2015



0.30 m

No

Borehole Log Hole ID. **BH135**



WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Hunter Ave NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336734

Hole Depth:

GW Encountered:

Northing: 6240901

Zone: 56H

low)	6o-	/mbol	Туре	Malada Barada II		Sam	ples / Tests		Observations (Oscionaria)
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, brown / grey, fine to medium grained, root inclusions, crushed sandstone inclusions, occasional angular gravel inclusions.	dry	BH135_0.0-0.0	05 5.5	max = 63 Avg = 62	No visual or olfactory signs of contamination observed.
	0.20			Fill						
	0.25				FILL - SAND, light brown / light grey, fine to medium grained, crushed sandstone inclusions.	dry	BH135_0.2-0.	3		No visual or olfactory signs of contamination observed.
	0.30	\bigotimes			FILL - SAND, light brown, fine grained.	dry	_			No visual or olfactory signs of contamination observed.
-	_0.4				End of Hole at 0.30m in Fill on gravel					
	0.5									
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
C	bse	ervati	ons					Notes	, , 9	
S	sbes tainir dour Groun	ng	 er	N	No visual evidence of asbestos noted during drilling. No visual evidence of contamination (e.g. staining / precipit No olfactory (e.g. odour) evidence of contamination noted d No groundwater encountered during drilling.			Hg Vapou	ır (ng/m³) 1m ab	oove Ground Level: max = 62, Avg = 62.
R	Œ	U	4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By		a Childs IcKay	Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 62, Avg = 62.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015



No

Borehole Log Hole ID. **BH136**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Franklin Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 26/02/2015 Date Completed: 26/02/2015 Easting: 336663

Hole Depth:

GW Encountered:

Northing: 6240819

Zone: 56H

How	٦	Log	ymbol	Type	Material Description	_	Sam	ples / Tests		Observations / Comments
water Imlow	Depth (m)	Graphic Log	USCS Symbol	Material Type	material Bederption	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, light grey / light brown, medium grained, root inclusions.	dry	BH136_0.0-0.0	05 6.5	max = 64 Avg = 63	No visual or olfactory signs of contamination observed.
	0.3			E	FILL - SAND, light grey, fine to medium grained, occasional angular gravel inclusions (<5mmØ), occasional clinker (<5mmØ).	dry				No visual or olfactory signs of contamination observed.
	0.40 0.50				Grading to FILL - SAND, light grey / white, fine to medium grained, occasional coke inclusions (<2mmØ).	dry	BH136_0.4-0.	5		
					End of Hole at 0.50m in Fill					
	0.6									
_	0.7									
_	0.8									
	0.9									
	1.0									
Ol	bse	rvatio	ons					Notes	3	
Sta	sbes ainir dour roun	ng	 r	N N	to visual evidence of asbestos noted during drilling. It is visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapoui	(ng/m³) 1m ab	ove Ground Level: max = 65, Avg = 63
R	Œ	U	/4/	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Gro	ound Level: max = 65, Avg = 63.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
TO TENANT	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015



No

Borehole Log Hole ID. **BH137**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Stephen Road **NSW EPA** Client:

Drill Company:

Date Started:

Drill Method: **Hand Auger**

26/02/2015

Date Completed: 26/02/2015

334486 Easting:

Hole Depth:

GW Encountered:

Northing: 6241712 Zone: 56H

ow		go.	loqu	Гуре			Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.10				FILL - Silty SAND, brown, fine grained.	moist	BH137_0.0-0.05	6.5	max = 18 Avg = 16	No visual or olfactory signs of contamination observed.
	_0.2			Fill	FILL - SAND, grey, fine to medium grained, occasional charcoal inclusions (2mmØ).	moist				
	0.30	XX			Grading to SAND - light grey, fine grained.	moist				No visual or olfactory signs of contamination observed.
	_0.4		SP	Natural			BH137_0.4-0.5			contamination observed.
	0.50				End of Hole at 0.50m					
	_0.6				in Natural					
	_0.7									
	_0.8									
	_0.9									
	1.0									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:57:58 AM

Groundwater

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

Contact: laurie.white@reumad.com.au

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Date: 26/02/2015 Date: 24/03/2015

Hg Vapour (ng/m³) 1m above Ground Level: max = 19, Avg = 19.

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH138**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Trevelyan Street**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 334296 **Hand Auger**

Date Started: 26/02/2015 Northing: 6241715

Date Completed: 26/02/2015 Zone: 56H

flow	(L	Log	ymbol	Type	Material Description		Sam	ples / Te	ests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type		Moisture	ID No.		рН	Hg Vapour ng/m³	Casto landio / Commond
					Grass						
-	0.1			Fill	FILL - Silty SAND, brown / grey, fine grained, occasional angular river gravel inclusions (10mmØ), ash (<5mmØ), sandstone gravels (15mmØ).	moist	BH138_0.0-0.0	05	6	max = 32 Avg = 31	
ŀ	0.30				sand - grey, fine to medium grained, (likely natural).	moist					No visual or olfactory signs of contamination observed.
	_0.4		SP	Natural							
				Z			BH138_0.4-0.	5			
	0.50	(<u>)</u> (2004)			End of Hole at 0.50m in Natural						
	_0.6										
	_0.7										
	_0.8										
	_0.9										
	1.0										
		ervati	ons					Note	es		
A S	sbes tainii Odoui	stos ng		N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipit to olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.					(ng/m³) 1m ab	ove Ground Level: max = 34, Avg = 32.
R	6	U	4	+C	Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		ilippa lin Mc	Childs Kav	Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 34, Avg = 32.	
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
tot:UtW	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 26/02/2015	

334399

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH139**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Brighton Street**

NSW EPA Client:

Drill Company:

Drill Method: Easting: **Hand Auger**

Date Started: 26/02/2015 Northing: 6241956

Date Completed: 26/02/2015 Zone: 56H

(m)		6o-	/mbol	Туре	Material Providence		Samp	les / Te	sts		Observations (Comments
water imow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	ID	No.	pН	DUP TRIP QC	Hg Vapour ng/m³	Observations / Comments
					Grass						
	0.1				FILL - Silty SAND, with minor Clay, brown, fine grained, wood inclusions, orange sand concretions (5mmØ).	BH139_	_0.0-0.05	6.5	Dup10 Trip10 Dup10 (EPA)	max = 28 Avg = 27	No visual or olfactory signs of contamination observed.
	0.20			,	FILL - Silty SAND, brown / pale orange, fine grained, occasional dark brown orange						No visual or olfactory signs of contamination observed.
	_0.3			E	sand concretions.						contamination observed.
	_0.4					BH139	_0.4-0.5				
4	0.50				End of Hole at 0.50m						
					in Fill						
	_0.6										
	_0.7										
	0.8										
	_0.9										
	1.0										
		ervati	ons						lotes		
A: Si	sbes tainir dour	stos ng	 	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipits Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.		ring drilling.			(ng/m³) 1m ab	ove Ground Level: max = 29, Avg = 27
R	Œ		4	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged E Checked		Philippa Colin Mc		Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 29, Avg = 27.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater	-	No groundwater encountered during drilling.			
ED EL UTA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015



No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH140**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Jennings Street Location / Site:

NSW EPA Client:

Drill Company:

Drill Method: Easting: 334414 **Hand Auger** Date Started: 26/02/2015 Northing: 6240878

Date Completed: 26/02/2015 Zone: 56H

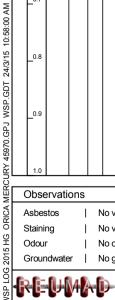
ow		6o-	mbol	lype			Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1 0.15				FILL - SAND, brown and light grey, fine grained, root inclusions, occasional clinker inclusions (<5mm∅).	dry	BH140_0.0-0.05	7	max = 70 Avg = 69	
	_0.2			Fill	FILL - SAND, light brown, medium grained, angular igneous gravel inclusions (<5mmØ), occasional sandstone gravel inclusions (5mmØ),.	dry				No visual or olfactory signs of contamination observed.
	0.3 				Large river stone at 0.35m.					
	0.50				FILL - Gravelly SAND, dark grey / black, medium grained, ash inclusions, clinker inclusions (10mm∅).	moist	BH140_0.4-0.5			
					Refusal at 0.50m in Fill					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									

	Observation	s			Notes	
<u>8</u>	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 72, Avg = 70.
5 :	Staining	١	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ng.		
201	Groundwater	-	No groundwater encountered during drilling.			
3	o G= N LNA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

Checked By:

Colin McKay

Date: 24/03/2015



No

Borehole Log Hole ID. **BH141**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number: 45970

Location / Site: **Perry Street NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336049

Hole Depth:

GW Encountered:

Northing: 6240881

Zone: 56H

low	(-	Log	ymbol	Туре	Meterial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pH	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.1				FILL - SAND, brown / grey, fine to medium grained, occasional clinker inclusions (20mmØ), occasional angular gravel (<5mmØ).	dry	BH141_0.0-0.0	05 7	max = 73 Avg = 71	
	0.2			Fill						
	_0.3 0.35	$\overset{\sim}{\sim}$			Grading to					
	0.4				FILL - SAND, light brown, fine to medium grained, occasional coke inclusions (<5mmØ).	dry				
	0.45 0.50	XXX	SP	Natural	SAND - light brown, fine to medium grained.	moist	BH141_0.4-0.	5		No visual or olfactory signs of contamination observed.
	0.6				End of Hole at 0.50m in Natural					
	0.7									
	0.8									
	0.9									
	1.0									
As St	sbes ainir dour	ng		N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted of lo groundwater encountered during drilling.			Notes Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 74, Avg = 73.
R	Œ	U	A	+[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa : Colin Mo		Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above	Ground Level: max = 74, Avg = 73.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	ıg.		
Groundwater	1	No groundwater encountered during drilling.			
MINING.	M	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

No

Borehole Log Hole ID. **BH142**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Harold Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger** Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336053

Hole Depth:

GW Encountered:

Northing: 6240781

Zone: 56H

flow	(r	Log	ymbol	Type	Material Description		Sam	ples / Tests		Observations / Comments
water innow	Depth (m)	Graphic Log	USCS Symbol	Material Type	aco.a. 2000 pao.	Moisture	ID No.	pН	Hg Vapour ng/m³	esseriations / esminishe
					Grass					
	_0.1 0.15				FILL - Silty SAND, dark brown, fine to medium grained, occasional root inclusions, occasional clinker inclusions (5mmØ).	dry	BH142_0.0-0.0	05 6	max = 67 Avg = 66	
	0.20				FILL - Silty SAND, dark grey, fine to medium grained, occasional root	dry				No visual or olfactory signs of contamination observed.
	0.30			E	inclusions, occasional angular river gravel. FILL - SAND, pale orange / light grey, fine to medium grained, occasional terracotta fragments (15mmØ).	dry				No visual or olfactory signs of contamination observed.
					FILL - SAND, light orange / light grey, fine grained.	dry				No visual or olfactory signs of contamination observed.
ŀ	_ ^{0.4} 0.45									
	0.50	***	SP	Natural	SAND - light grey, fine to medium grained.	dry	BH142_0.4-0.	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Natural					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0		ervati	ons					Notes		
Si	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. Io visual evidence of contamination (e.g. staining / precipita Io olfactory (e.g. odour) evidence of contamination noted d Io groundwater encountered during drilling.			Hg Vapou	r (ng/m³) 1m ab	ove Ground Level: max = 67, Avg = 65.
R	Œ	U	/4/	₩[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:		a Childs IcKay	Date: 26/02/2015 Date: 24/03/2015

	Observation	s			Notes
5	Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Ground Level: max = 67, Avg = 65.
5	Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.	
	Odour	-	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.	
201	Groundwater	-	No groundwater encountered during drilling.		
3	TRE-DIM	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs Date: 26/02/2015

No

Borehole Log Hole ID. **BH143**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Harold Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

Easting: 336245

Hole Depth:

GW Encountered:

Northing: 6240742

Zone: 56H

llow	(1	Log	ymbol	Type	Meterial Description		Sam	ples / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, brown, fine grained, root inclusions, weathered sandstone, occasional angular gravels (15mmØ), occasional coke inclusions (<5mmØ).	dry	BH143_0.0-0.0	05 6.5	max = 74 Avg = 72	
	_0.3			Ē	FILL - SAND, slightly Silty, brown / grey, fine grained, occasional clinker inclusions, plastic fragment, occasional angular gravels (<5mmØ).	dry				
	0.40				FILL - SAND, light grey / light brown, fine to medium grained, sandstone gravel inclusions (15mmØ).	dry	BH143_0.4-0.	5		No visual or olfactory signs of contamination observed.
					End of Hole at 0.50m in Fill					
	0.6									
	0.7									
	0.8									
	0.9									
	1.0									
0	bse	ervati	ons					Notes		
Si	sbes tainir dour roun	ng	 er	N N	lo visual evidence of asbestos noted during drilling. lo visual evidence of contamination (e.g. staining / precipit lo olfactory (e.g. odour) evidence of contamination noted do groundwater encountered during drilling.			Hg Vapour	(ng/m³) 1m ab	ove Ground Level: max = 73, Avg = 72
R	Œ	W	4/	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 26/02/2015 Date: 24/03/2015

Observation	s			Notes	
Asbestos	1	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gr	round Level: max = 73, Avg = 72.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater		No groundwater encountered during drilling.			
ES ES DAMA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015

336427

6240719

56H

No

Hole Depth:

Easting:

Northing:

GW Encountered:

Borehole Log Hole ID. **BH144**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Harold Street Location / Site: **NSW EPA** Client:

Drill Company: N/A

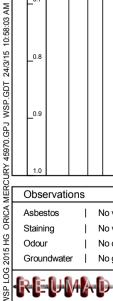
Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015 Zone:

low)	-og	mbol	Гуре			Samples /	Tests		
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	0.10				FILL - SAND, brown, fine grained, root inclusions.	dry	BH144_0.0-0.05	6.5	max = 74 Avg = 73	No visual or olfactory signs of contamination observed.
				III.	FILL - SAND, dark brown / grey, fine to medium grained, occasional charcoal inclusions (5mmØ).	dry				
	0.20	XXX			SAND - light grey, fine grained.	dry				No visual or olfactory signs of contamination observed.
	_0.3		SP	Natural						
	_0.4						BH144_0.4-0.5			
	0.50				End of Hole at 0.50m					
					in Natural					
	_0.6									
	_0.7									
MAC 50:00:01	_0.8									
742 100.										
200	_0.9									
	1.0									

Observations	3		Notes
Asbestos	ı	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 75, Avg = 72.
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.	
Odour	١	No olfactory (e.g. odour) evidence of contamination noted during drilling.	
Groundwater	١	No groundwater encountered during drilling.	



Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au Logged By: Checked By: Philippa Childs Colin McKay

Date: 26/02/2015 Date: 24/03/2015

No

Hole Depth:

GW Encountered:

Borehole Log Hole ID. **BH145**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Bunnerong Road**

NSW EPA Client:

Drill Company:

Drill Method: Easting: 336575 **Hand Auger**

Date Started: 26/02/2015 Northing: 6240708

Date Completed: 26/02/2015 Zone: 56H

Mow	<u></u>	Bool addy Material Description					Samp	oles / Tests		Observations / Comments
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	natoral 2000 patri	Moisture	ID No.	рH	Hg Vapour ng/m³	
					Grass					
	0.1				FILL - SAND, light brown, medium grained, root and wood inclusions, occasional igneous gravel inclusions, occasional charcoal (<5mmØ).	dry	BH145_0.0-0.0	5 6.5	max = 69 Avg = 66	
Γ	0.2 . 25	$\overset{\wedge}{\otimes}$			Grading to					
	0.3			≣ •	FILL - SAND, light grey, fine to medium grained, sand concretions (5-15mmØ).	dry				No visual or olfactory signs of contamination observed.
_0	0.4						BH145_0.4-0.5	5		
0.	.50	***			End of Hole at 0.50m					
L	0.6									
_(0.7									
_(0.8									
_0	0.9									
	10									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.									r (ng/m³) 1m ab	ove Ground Level: max = 74, Avg = 73.
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au							Logged By: Checked By:		a Childs lcKay	Date: 26/02/2015 Date: 24/03/2015

<u> </u>	bservation	s			Notes	
As As	sbestos	ı	No visual evidence of asbestos noted during drilling.		Hg Vapour (ng/m³) 1m above Gro	und Level: max = 74, Avg = 73.
St	taining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
	dour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
G	roundwater	1	No groundwater encountered during drilling.			
2	G= O L O A	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 26/02/2015



No

Borehole Log Hole ID. **BH146**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: **Waterton Ave NSW EPA** Client:

Drill Company:

Drill Method: **Hand Auger**

Date Started: 26/02/2015

Date Completed: 26/02/2015

336793 Easting:

Hole Depth:

GW Encountered:

Northing: 6240667

Zone: 56H

low	Tow (n) (mbol		5 ed.		Samples / Tests					
Water Inflow	Depth (m)	Graphic Log	Oraphic Log Waterial Description Material Type		Moisture	ID No.	pН	Hg Vapour ng/m³	Observations / Comments	
					Grass					
	_0.1			Fill	FILL - Silty SAND, brown, fine grained, angular gravel inclusions (5-10mØ), crushed sandstone (5mmØ), occasional clinkers (15mmØ).	dry	BH146_0.0-0.05	6.5	max = 66 Avg = 66	
							BH146_0.4-0.5			
	0.50	· · ·			End of Hole at 0.50m in Fill					
	_0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									

VSP LOG 2015 HG ORICA MERCURY 45970.GPJ WSP.GDT 24/3/15 10:58:05 AM

Groundwater

Observations

Asbestos

Staining

Odour

Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au

No groundwater encountered during drilling.

No visual evidence of asbestos noted during drilling.

No visual evidence of contamination (e.g. staining / precipitate) noted during drilling.

No olfactory (e.g. odour) evidence of contamination noted during drilling.

Logged By: Checked By: Philippa Childs Colin McKay

Hg Vapour (ng/m³) 1m above Ground Level: max = 68, Avg = 66.

Date: 26/02/2015 Date: 24/03/2015

No

Borehole Log Hole ID. **BH147**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Murrabin Ave **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 27/02/2015

Date Completed: 27/02/2015

Easting: 336258

Hole Depth:

GW Encountered:

Northing: 6240537

Zone: 56H

m) m) : Log symbol		/mbol	Гуре	Metadal Decadation		Samples / Tests				
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	Material Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, brown, fine grained, root inclusions, occasional quartz gravels (<5mmØ), occasional brick fragments (30mmØ), occasional coke (<5mmØ).	dry	BH147_0.0-0.0	05 6.5	max = 70 Avg = 69	
	0.2 0.25	$\overset{\sim}{\bowtie}$		Hill						
	_0.3 0.40				FILL - SAND, grey, fine grained, occasional rusted nail inclusions, occasional crushed sandstone, occasional clinker (<5mmØ).	dry				
	0.50		SP	Natural	SAND - light grey / light brown, fine to medium grained.	dry	BH147_0.4-0.	5		No visual or olfactory signs of contamination observed.
Ť	0.50				End of Hole at 0.50m in Natural					
-	0.6									
	_0.7									
	_0.8									
	_0.9									
	1.0									
Observations								Notes		
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.									(ng/m³) 1m ab	ove Ground Level: max = 71, Avg = 70.
R	Œ	W	4 /	\-[Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au		Logged By: Checked By:	Philippa Colin M		Date: 27/02/2015 Date: 24/03/2015

Observation	s		Notes		
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 71, Avg = 70.		
Staining	1	No visual evidence of contamination (e.g. staining / precipitate) noted	during drilling.		
Odour	1	No olfactory (e.g. odour) evidence of contamination noted during drilling	g.		
Groundwater	1	No groundwater encountered during drilling.			
ES ES UTUA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs D	ate: 27/02/2015



6240411

No

Borehole Log Hole ID. **BH148**

WSP Environmental Pty Ltd

Level 1, 41 McLaren Street North Sydney NSW 2060 Office: +61 (0)2 8925 6700 www.wspgroup.com

Project Name: **Orica Mercury Independant Review**

Project Number:

Location / Site: Partanna Ave **NSW EPA** Client:

Drill Company: N/A

Drill Method: **Hand Auger**

Date Started: 27/02/2015

Date Completed: 27/02/2015

Easting: 336264

Hole Depth:

Northing:

GW Encountered:

Zone: 56H

low)	Log	/mbol	Samples / Tests Material Description			Observations (Comments			
Water Inflow	Depth (m)	Graphic Log	USCS Symbol	Material Type	watenai Description	Moisture	ID No.	рН	Hg Vapour ng/m³	Observations / Comments
					Grass					
	_0.1				FILL - Silty SAND, grey / brown, fine grained, occasional clinker inclusions (5mmØ), occasional angular gravel (<5mmØ).	dry	BH148_0.0-0.0	05 7	max = 36 Avg = 34	
	0.20			Ē	FILL - SAND, brown / pale orange, fine grained, orange sand concretions (2-10mmØ).	dry				No visual or olfactory signs of contamination observed.
	_0.4 0.50						BH148_0.4-0.	5		
					End of Hole at 0.50m in Fill					
	0.6									
-	0.7									
	_0.8									
	_0.9									
	1.0									
Observations							Notes			
Asbestos No visual evidence of asbestos noted during drilling. Staining No visual evidence of contamination (e.g. staining / precipitate) noted Odour No olfactory (e.g. odour) evidence of contamination noted during drilling. Groundwater No groundwater encountered during drilling.							Hg Vapoui	(ng/m³) 1m ab	ove Ground Level: max = 39, Avg = 37.	
Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au						Logged By: Checked By	Philippa : Colin M		Date: 27/02/2015 Date: 24/03/2015	

Observation	าร		Notes			
Asbestos	1	No visual evidence of asbestos noted during drilling.	Hg Vapour (ng/m³) 1m above Ground Level: max = 39, Avg = 37.			
Staining	-	No visual evidence of contamination (e.g. staining / precipitate) noted of	during drilling.			
Odour	Odour No olfactory (e.g. odour) evidence of contamination noted during drilling.					
Groundwater	1	No groundwater encountered during drilling.				
ES ES ALMA	A	Log Drawn By: Laurie White	Logged By:	Philippa Childs	Date: 27/02/2015	