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QC3,

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QC4

Method		Sample Date	Extraction / Preparation				Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluatio
EP074B: Oxygenated Compounds								-
oil Glass Jar - Unpreserved (EP074)								
S1,	S2,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	29-AUG-2014	03-SEP-2014	1
S3,	S4,				0.00			
S5,	S6,							
S7,	S8,							
S9,	S10,							
S11,	S12,							
S13,	S14,							
S15,	S16,							_
S17,	S18,							
QC1,	SP1							
oil Glass Jar - Unpreserved (EP074)								
SP2,	SP3,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	30-AUG-2014	03-SEP-2014	1
SP4,	SP5,							
SP6,	SP7,							
SP8,	SP9,							
SP10,	SP11,							
QC3,	QC4							
P074C: Sulfonated Compounds								
oil Glass Jar - Unpreserved (EP074)								
S1,	S2,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	29-AUG-2014	03-SEP-2014	1
S3,	S4,						- 1	
S5,	S6,							
S7,	S8,						_	
S9,	S10,							
S11,	S12,		:					
S13,	S14,							
S15,	S16,							
S17,	S18,							
QC1,	SP1							
oil Glass Jar - Unpreserved (EP074)								
SP2,	SP3,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	30-AUG-2014	03-SEP-2014	1
SP4,	SP5,							
SP6,	SP7,							
SP8,	SP9,							

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Matrix: SOIL					Evaluation	Evaluation:				
Method		Sample Date	Ex	traction / Preparation			Analysis			
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
EP074G: Trihalomethanes							Vacanta de la constante de la			
Soil Glass Jar - Unpreserved (EP0										
S1,	S2,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	29-AUG-2014	03-SEP-2014	1		
S3,	S4,							V8		
S5,	S6,									
S7,	S8,									
S9,	S10,									
S11,	S12,									
S13,	S14,									
S15,	S16,									
S17,	S18,									
QC1,	SP1									
Soil Glass Jar - Unpreserved (EPO										
SP2,	SP3,	27-AUG-2014	29-AUG-2014	03-SEP-2014	1	30-AUG-2014	03-SEP-2014	1		
SP4,	SP5,									
SP6,	SP7,									
SP8,	SP9,			-						
SP10,	SP11,									
QC3,	QC4									
EP075(SIM)A: Phenolic Compour	nds									
Soil Glass Jar - Unpreserved (EP0				20454-08-000 (D-80-08-000)		200 2000 2000	252300000000000000000000000000000000000			
SP2,	SP3,	27-AUG-2014	01-SEP-2014	10-SEP-2014	1	01-SEP-2014	11-OCT-2014	1		
SP4,	SP5,									
SP6,	SP7,									
SP8,	SP9,									
SP10,	SP11,									
QC3,	QC4									
Soil Glass Jar - Unpreserved (EP0			NU REMOGRAÇÃO		13	100 NO.				
S1,	S2,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	01-SEP-2014	08-OCT-2014	1		
S3,	S4,									
S5,	S6,									
S7,	S8,									
S9,	S10,									
S11,	S12,									
S13,	S14,									
S15,	S16,									
S17,	S18,									
QC1,	SP1									

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Matrix: SOIL		Sar-t- S-t-		straction / Departure	Lvaluation	Holding time	breach; ✓ = Withir	r notaling til
Method		Sample Date		traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluatio
EP075(SIM)B: Polynuclear Aromatic Hydroca	rbons							
Soil Glass Jar - Unpreserved (EP075(SIM))	000	27-AUG-2014	01-SEP-2014	10-SEP-2014	,	04.055.0044	11-OCT-2014	
SP2,	SP3,	27-AUG-2014	01-SEP-2014	10-SEP-2014	1	01-SEP-2014	11-001-2014	✓
SP4,	SP5,							
SP6,	SP7,							
SP8,	SP9,							
SP10,	SP11,							
QC3,	QC4							
Soil Glass Jar - Unpreserved (EP075(SIM)) S1,	S2,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	01-SEP-2014	08-OCT-2014	1
	S4,	27-700-2014	25-700-2014	10-021-2014	•	01-3EF-2014	00-001-2014	•
S3,	S6,							
S5,	S8,							
S7,	S0, S10,							
S9,	S10, S12,							
S11,	S12, S14,							
S13,	S14, S16,							
S15,	S16, S18,							
S17,	SP1							
QC1,	SFI						L	
EP080: BTEXN			SEA SERVEDING					
Soil Glass Jar - Unpreserved (EP080)	S2,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	29-AUG-2014	10-SEP-2014	,
S1,	S4,	27-A00-2014	25-A0G-2014	10-321-2014	•	25-AUG-2014	10-327-2014	1
S3,	S6,							
S5,	S8,							
S7,	S10,							
S9,	S10, S12,							
S11,	S12, S14,							
S13,	S14, S16,							
S15,						1		
S17,	S18, SP1							
QC1,	SFI					-		
Soil Glass Jar - Unpreserved (EP080) SP2,	SP3,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	30-AUG-2014	10-SEP-2014	1
SP4,	SP5,	2. 7.00-2014	25 7100 2014	.5 02. 2014	•	55-100-2014	.5 021 2014	٧
SP4, SP6,	SP7,							
1.00	SP9,							
SP8,	SP11,							
SP10,	SF11,		1			1		

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Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons								
ioil Glass Jar - Unpreserved (EP080)								
S1,	S2,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	29-AUG-2014	10-SEP-2014	1
S3,	S4,							
S5,	S6,							
\$7.	S8,							
S9,	S10,							
S11,	S12,							
S13,	S14,							
S15,	S16,							
S17,	S18,							
QC1,	SP1							
Soil Glass Jar - Unpreserved (EP080)								
SP2,	SP3,	27-AUG-2014	29-AUG-2014	10-SEP-2014	1	30-AUG-2014	10-SEP-2014	1
SP4,	SP5.							
SP6,	SP7,							
SP8,	SP9.							
SP10.	SP11,							
7	QC4			and the state of t				
QC3,					Evaluation	: × = Holding time	breach ; ✓ = Withir	holding tir
QC3,		Sample Date	Ex	traction / Preparation	Evaluation	: x = Holding time	breach ; ✓ = Withir Analysis	holding tir
QC3, Matrix: WATER		Sample Date	Ex Date extracted	traction / Preparation Due for extraction	Evaluation Evaluation	: x = Holding time Date analysed		
QC3, Matrix: WATER Method		Sample Date					Analysis	
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (E	QC4		Date extracted	Due for extraction	Evaluation	Date analysed	Analysis Due for analysis	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW)	QC4 (G020A-T)	Sample Date 27-AUG-2014					Analysis	Evaluation
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM	QC4 G020A-T)		Date extracted	Due for extraction	Evaluation	Date analysed	Analysis Due for analysis	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM	QC4 G020A-T)		Date extracted	Due for extraction	Evaluation	Date analysed	Analysis Due for analysis	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (E	QC4 G020A-T)	27-AUG-2014	Date extracted 31-AUG-2014	Due for extraction 23-FEB-2015	Evaluation	Date analysed 01-SEP-2014	Analysis Due for analysis 23-FEB-2015	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071)	QC4 G020A-T)	27-AUG-2014 27-AUG-2014	Date extracted 31-AUG-2014	Due for extraction 23-FEB-2015	Evaluation	01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW)	QC4 G020A-T)	27-AUG-2014	Date extracted 31-AUG-2014	Due for extraction 23-FEB-2015	Evaluation	Date analysed 01-SEP-2014	Analysis Due for analysis 23-FEB-2015	Evaluatio
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds	QC4 GO20A-T) S GO35T)	27-AUG-2014 27-AUG-2014	Date extracted 31-AUG-2014	Due for extraction 23-FEB-2015	Evaluation	01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014	Evaluation
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds Amber Glass Bottle - Unpreserved (EP075(SIM)	QC4 GO20A-T) S GO35T)	27-AUG-2014 27-AUG-2014 27-AUG-2014	31-AUG-2014 01-SEP-2014	23-FEB-2015 03-SEP-2014	Evaluation	01-SEP-2014 01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014 11-OCT-2014	Evaluation 4
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIMClear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds Amber Glass Bottle - Unpreserved (EP075(SIM) PW	QC4 GO20A-T) S GO35T) M))	27-AUG-2014 27-AUG-2014	Date extracted 31-AUG-2014	Due for extraction 23-FEB-2015	Evaluation	01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014	Evaluation
QC3, Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds Amber Glass Bottle - Unpreserved (EP075(SIM) PW EP075(SIM)B: Polynuclear Aromatic Hydroc	GO20A-T) S GO35T) M))	27-AUG-2014 27-AUG-2014 27-AUG-2014	31-AUG-2014 01-SEP-2014	23-FEB-2015 03-SEP-2014	Evaluation	01-SEP-2014 01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014 11-OCT-2014	Evaluatio
Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds Amber Glass Bottle - Unpreserved (EP075(SIM) PW EP075(SIM)B: Polynuclear Aromatic Hydroc	GO20A-T) S GO35T) M))	27-AUG-2014 27-AUG-2014 27-AUG-2014	31-AUG-2014 01-SEP-2014	23-FEB-2015 03-SEP-2014	Evaluation	01-SEP-2014 01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014 11-OCT-2014	Evaluation 4
Amber Glass Bottle - Unpreserved (EP075(SIM)B: Polynuclear Aromatic Hydrocamber Glass Bottle - Unpreserved (EP075(SIM)B)	GO20A-T) S GO35T) M))	27-AUG-2014 27-AUG-2014 27-AUG-2014	31-AUG-2014 01-SEP-2014	23-FEB-2015 03-SEP-2014	Evaluation	01-SEP-2014 01-SEP-2014 01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014 11-OCT-2014	Evaluation 4
Matrix: WATER Method Container / Client Sample ID(s) EG020T: Total Metals by ICP-MS Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EG035T: Total Recoverable Mercury by FIM Clear Plastic Bottle - Nitric Acid; Unfiltered (EPW) EP080/071: Total Petroleum Hydrocarbons Amber Glass Bottle - Unpreserved (EP071) PW EP075(SIM)A: Phenolic Compounds Amber Glass Bottle - Unpreserved (EP075(SIM) PW EP075(SIM)B: Polynuclear Aromatic Hydrocamber Glass Bottle - Unpreserved (EP075(SIM) EP075(SIM)B: Polynuclear Aromatic Hydrocamber Glass Bottle - Unpreserved (EP075(SIM) EP075(SIM)B: Polynuclear Aromatic Hydrocamber Glass Bottle - Unpreserved (EP075(SIM) EP075(SIM)B: Polynuclear Aromatic Hydrocamber Glass Bottle - Unpreserved (EP075(SIM)	GO20A-T) S GO35T) M))	27-AUG-2014 27-AUG-2014 27-AUG-2014	31-AUG-2014 01-SEP-2014	23-FEB-2015 03-SEP-2014	Evaluation	01-SEP-2014 01-SEP-2014 01-SEP-2014	Analysis Due for analysis 23-FEB-2015 24-SEP-2014 11-OCT-2014	Evaluati

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Matrix: WATER				Evaluation	x = Holding time	breach ; ✓ = Withir	n holding time
Method	Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Petroleum Hydrocarbons							
Amber VOC Vial - Sulfuric Acid (EP080) PW	27-AUG-2014	30-AUG-2014	10-SEP-2014	1	30-AUG-2014	10-SEP-2014	1

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to

Quality Control Sample Type		C	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	oc	Regular	Actual	Expected	Evaluation	quality control operation
aboratory Duplicates (DUP)		69 Y 148					
Moisture Content	EA055-103	4	40	10.0	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	4	39	10.3	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	4	38	10.5	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	4	40	10.0	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
RH - Semivolatile Fraction	EP071	4	39	10.3	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	4	39	10.3	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
/olatile Organic Compounds	EP074	4	33	12.1	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
aboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	38	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	40	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
/olatile Organic Compounds	EP074	2	33	6.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
PAH/Phenois (SIM)	EP075(SIM)	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	38	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	40	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	2	33	6.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	38	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	40	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	2	39	5.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Volatile Organic Compounds	EP074	2	33	6.1	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Matrix: WATER				Evaluation	n: × = Quality Co	ntrol frequency	not within specification; ✓ = Quality Control frequency within speci
Quality Control Sample Type	THE RESERVE OF THE PARTY OF THE		ount	Lvaidatio	Rate (%)	na or requeriey	Quality Control Specification
Analytical Methods	Method	QC C	Regular	Actual	Expected	Evaluation	Quality Control Specification
Laboratory Duplicates (DUP) Total Mercury by FIMS	EG035T	2	19	10.5	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-MS - Suite A	EG020A-T	2	19	10.5	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	2	17	11.8	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement



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Quality Control Sample Type		C	ount	Rate (%)			Quality Control Specification	
Analytical Methods	Method	OC Regular		Actual Expected		Evaluation		
Laboratory Control Samples (LCS)	The second secon							
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	20	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Total Mercury by FIMS	EG035T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Total Metals by ICP-MS - Suite A	EG020A-T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
TRH - Semivolatile Fraction	EP071	1	17	5.9	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
TRH Volatiles/BTEX	EP080	1	17	5.9	5.0	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Method Blanks (MB)								
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	1	20	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Total Mercury by FIMS	EG035T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Total Metals by ICP-MS - Suite A	EG020A-T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
TRH - Semivolatile Fraction	EP071	1	17	5.9	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
TRH Volatiles/BTEX	EP080	1	17	5.9	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Matrix Spikes (MS)								
Total Mercury by FIMS	EG035T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
Total Metals by ICP-MS - Suite A	EG020A-T	1	19	5.3	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	
TRH Volatiles/BTEX	EP080	1	17	5.9	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement	

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
/olatile Organic Compounds	EP074	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 501)
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.
Total Metals by ICP-MS - Suite A	EG020A-T	WATER	(APHA 21st ed., 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020): The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.
Total Mercury by FIMS	EG035T	WATER	AS 3550, APHA 21st ed. 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the unfiltered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
PAH/Phenols (GC/MS - SIM)	EP075(SIM)	WATER	USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3)



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Client : AECOM Australia Pty Ltd

Project : 60316172 TASK No 1 1 ESA CHARNWOOD

Analytical Methods	Method	Matrix	Method Descriptions
TRH Volatiles/BTEX	EP080	WATER	USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	USEPA 200.2 Mod. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)
Methanolic Extraction of Soils for Purge and Trap	* ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	USEPA SW846-3005 Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3). ALS default excludes sediment which may be resident in the container.

Page : 16 of 16 ES1419212 Work Order

Client : AECOM Australia Pty Ltd

: 60316172 TASK No 1 1 ESA CHARNWOOD Project



Summary of Outliers

Outliers: Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: SOIL

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EG005T: Total Metals by ICP-AES	ES1418834-002	Anonymous	Chromium	7440-47-3	Not Determined		MS recovery not determined, background level greater than or equal to 4x spike level.
EG005T: Total Metals by ICP-AES	ES1418834-002	Anonymous	Nickel	7440-02-0	Not Determined		MS recovery not determined, background level greater than or equal to 4x spike level.

- For all matrices, no Method Blank value outliers occur.
- For all matrices, no Duplicate outliers occur.
- For all matrices, no Laboratory Control outliers occur.

Regular Sample Surrogates

• For all regular sample matrices, no surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

No Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

No Quality Control Sample Frequency Outliers exist.

Environment 6,8

14-45 \$ 9/14

Printed copies of this document are uncontrolled
Page 1 of 1

BMS-PM-DV-F046



CERTIFICATE OF ANALYSIS

Work Order : FS1420290 Page : 1 of 8

Client : AECOM Australia Pty Ltd Laboratory : Environmental Division Sydney
Contact : Contact : Client Services

Contact : Client Services

Address : LEVEL 2 : Client Services

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

60 MARCUS CLARKE ST

CANBERRA ACT, AUSTRALIA 2600

Facsimile : +61-2-8784 8500

Project : 60316172 ESA CHARNWOOD QC Level : NEPM 2013 Schedule B(3) and ALS QCS3 requirement Order number : PROJECT 60316172,TASK NO.1.1

 C-O-C number
 : -- Date Samples Received
 : 10-SEP-2014

 Sampler
 : AAS
 Issue Date
 : 11-SEP-2014

Site : ---No. of samples received : 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for

This Certificate of Analysis contains the following information:

EN/004/14

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits



Quote number

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025.

Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

: 5

Signatories Position Accreditation Category

No. of samples analysed



Newcastle - Asbestos Sydney Inorganics Sydney Organics

Sydney Inorganics



Page : 2 of 8

Work Order : ES1420290

 Client
 : AECOM Australia Pty Ltd

 Project
 - 60316172 ESA CHARNWOOD

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200 Legend
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Ch' Chrysotile (white asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: As only one sample container was submitted for multiple tests, at the client's request, sub sampling was conducted prior to Asbestos analysis. As this has the potential to understate detection, results should be scrutinised accordingly and NATA accreditation does not apply to analysis on these samples.
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
 - Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)

 The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
 - Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
 - All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.

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Work Order : ES14

Client

: AECOM Australia Pty Ltd : 60316172 ESA CHARNWOOD

Project : 60316



sub-Matrix: SOIL (Matrix: SOIL)		Clie	ent sample ID	SOB1	SOB2	SOB3	SOB4	OBQA1
	Clie	ent samplii	ng date / time	04-SEP-2014 15:00				
Compound	CAS Number	LOR	Unit	ES1420290-001	ES1420290-002	ES1420290-003	ES1420290-004	ES1420290-005
A055: Moisture Content								
Moisture Content (dried @ 103°C)		1.0	%	3.2	3.4	7.5	2.6	2.4
EA200: AS 4964 - 2004 Identification	n of Asbestos in bulk s	amples						
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	No	No
Asbestos Type	1332-21-4	-						
Sample weight (dry)		0.01	g	39.9	50.0	45.2	55.4	48.8
APPROVED IDENTIFIER:		-	-	G.MORGAN	G.MORGAN	G.MORGAN	G.MORGAN	G.MORGAN
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	<5	<5	<5
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	<1	<1
Chromium	7440-47-3	2	mg/kg	17	16	15	18	17
Copper	7440-50-8	5	mg/kg	12	12	13	16	14
Lead	7439-92-1	5	mg/kg	14	12	14	16	14
Nickel	7440-02-0	2	mg/kg	8	8	8	9	8
Zinc	7440-66-6	5	mg/kg	58	57	54	60	57
EG035T: Total Recoverable Mercu	ry by FIMS							in the second se
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP066: Polychlorinated Biphenyls	(PCB)							
Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EP068A: Organochlorine Pesticide	s (OC)							
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Total Chlordane (sum)		0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Page Work Order

Client

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Project

: AECOM Australia Pty Ltd : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL (Matrix: SOIL)		Clie	ent sample ID	SOB1	SOB2	SOB3	SOB4	OBQA1
	Cli	ent samplir	ng date / time	04-SEP-2014 15:00	04-SEP-2014 15:00	04-SEP-2014 15:00	04-SEP-2014 15:00	04-SEP-2014 15:00
Compound	CAS Number	LOR	Unit	ES1420290-001	ES1420290-002	ES1420290-003	ES1420290-004	ES1420290-005
EP068A: Organochlorine Pesticid	es (OC) - Continued	0.00						
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Sum of DDD + DDE + DDT		0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pest	icides (OP)			No Avitable and the second				
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP075(SIM)A: Phenolic Compound		Name of the					The second secon	
Phenol	108-95-2	0.5	mg/ka	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chlorophenol	95-57-8	0.5	mg	<0.5	<0.5	<0.5	<0.5	<0.5



Page

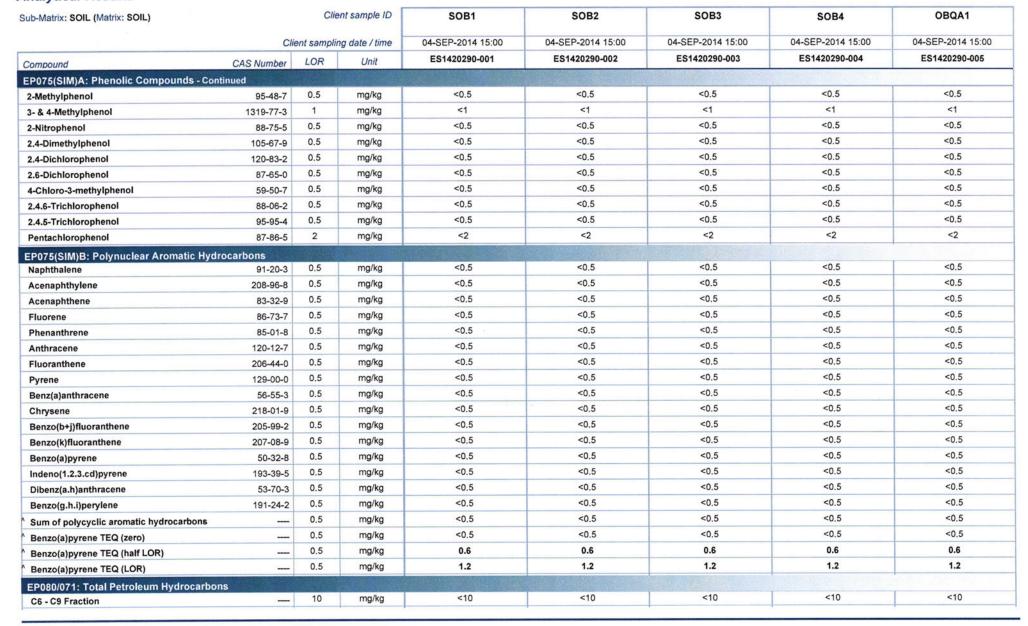
: 5 of 8

ES1420290 Work Order

Client

: AECOM Australia Pty Ltd

60316172 ESA CHARNWOOD Project





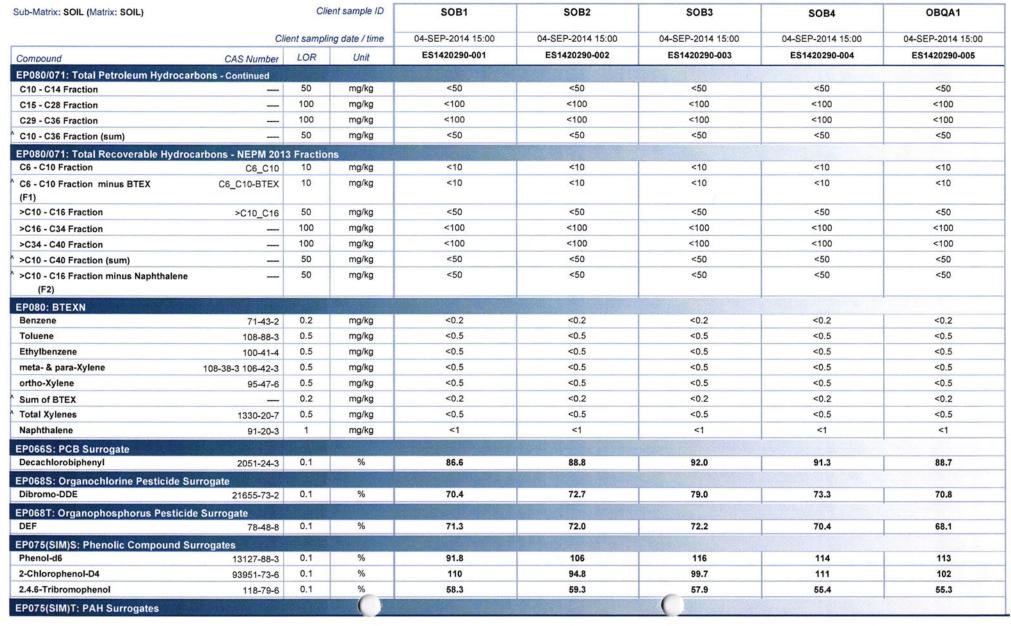
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Client

ES1420290

Project

: AECOM Australia Pty Ltd 60316172 ESA CHARNWOOD



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Client

: AECOM Australia Pty Ltd

Project

: 60316172 ESA CHARNWOOD

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Clie	nt sample ID	SOB1	SOB2	SOB3	SOB4	OBQA1
	Cli	ent samplin	g date / time	04-SEP-2014 15:00				
Compound	CAS Number	LOR	Unit	ES1420290-001	ES1420290-002	ES1420290-003	ES1420290-004	ES1420290-005
EP075(SIM)T: PAH Surrogates - Contin	ued							
2-Fluorobiphenyl	321-60-8	0.1	%	93.4	93.0	92.7	92.8	94.9
Anthracene-d10	1719-06-8	0.1	%	114	111	116	113	116
4-Terphenyl-d14	1718-51-0	0.1	%	100	99.0	99.7	97.9	100
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%	107	108	106	109	107
Toluene-D8	2037-26-5	0.1	%	111	104	105	104	102
4-Bromofluorobenzene	460-00-4	0.1	%	112	106	108	106	103

Analytical Results Descriptive Results

Sub-Matrix: SOIL

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification	on of Asbestos in bulk samples	
EA200: Description	SOB1 - 04-SEP-2014 15:00	Mid brown clay soil with a trace of vegetation.
EA200: Description	SOB2 - 04-SEP-2014 15:00	Mid brown clay soil with a trace of vegetation.
EA200: Description	SOB3 - 04-SEP-2014 15:00	Mid brown clay soil with a trace of vegetation.
EA200: Description	SOB4 - 04-SEP-2014 15:00	Mid brown clay soil with a trace of vegetation.
EA200: Description	OBQA1 - 04-SEP-2014 15:00	Mid brown clay soil with a trace of vegetation.



Page : 8 of 8
Work Order : ES1420290

 Client
 : AECOM Australia Pty Ltd

 Project
 : 60316172 ESA CHARNWOOD

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery	Limits (%)
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide	Surrogate		
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pestic	ide Surrogate		
DEF	78-48-8	35	143
EP075(SIM)S: Phenolic Compound	Surrogates		
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	72.8	133.2
Toluene-D8	2037-26-5	73.9	132.1
4-Bromofluorobenzene	460-00-4	71.6	130.0



QUALITY CONTROL REPORT

Contact

: ES1420290 Work Order Page : 1 of 13

Client : AECOM Australia Pty Ltd Laboratory : Environmental Division Sydney Client Services

Address Address 277-289 Woodpark Road Smithfield NSW Australia 2164 : LEVEL 2

60 MARCUS CLARKE ST

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QC Level Project : 60316172 ESA CHARNWOOD : NEPM 2013 Schedule B(3) and ALS QCS3 requirement

Site C-O-C number Date Samples Received : 10-SEP-2014 . ----

Issue Date : 11-SEP-2014 Sampler : AAS

No. of samples received : 5 No. of samples analysed : 5 Quote number EN/004/14

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits



Contact

Order number

NATA Accredited Laboratory 825

Accredited for compliance with ISO/IEC 17025. Signatories

: PROJECT 60316172, TASK NO.1.1

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Accreditation Category Signatories Position



Newcastle - Asbestos Sydney Inorganics Sydney Organics Sydney Inorganics

Address 277-289 Woodpark Road Smithfield NSW Australia 2164 PHONE +61-2-8784 8555 Facsimile +61-2-8784 8500 Environmental Division Sydney ABN 84 009 936 029 Part of the ALS Group An ALS Limited Company

www.alsglobal.com



Page : 2 of 13 Work Order : ES1420290

Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

ALS

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Client : AECOM Australia Pty Ltd
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Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

ub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%
EA055: Moisture Co	ontent (QC Lot: 362662)	7)							
ES1419627-058	Anonymous	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	15.1	15.1	0.0	0% - 50%
ES1419627-077	Anonymous	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	10.9	10.9	0.0	0% - 50%
A055: Moisture Co	ntent (QC Lot: 362662	8)							
ES1420290-005	OBQA1	EA055-103: Moisture Content (dried @ 103°C)		1.0	%	2.4	3.1	22.9	No Limit
G005T: Total Meta	Is by ICP-AES (QC Lot	: 3626604)							
ES1419926-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.0	No Limit
	**************************************	EG005T: Chromium	7440-47-3	2	mg/kg	20	18	6.5	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	9	7	24.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	7	8	16.9	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	24	31	25.2	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	40	37	6.8	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	67	57	16.1	0% - 50%
ES1420038-003	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	1	<1	0.0	No Limit
	12	EG005T: Chromium	7440-47-3	2	mg/kg	37	43	13.2	0% - 20%
		EG005T: Nickel	7440-02-0	2	mg/kg	41	48	15.8	0% - 20%
		EG005T: Arsenic	7440-38-2	5	mg/kg	6	5	0.0	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	44	38	14.7	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	63	63	0.0	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	274	317	14.4	0% - 20%
G035T: Total Reco	overable Mercury by FII	MS (QC Lot: 3626605)							
ES1419926-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.1	0.0	No Limit
ES1420038-003	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.0	No Limit
P066: Polychlorina	ated Biphenyls (PCB) (
ES1420290-001	SOB1	EP066: Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	<0.1	0.0	No Limit
P068A: Organochi	orine Pesticides (OC)	THE RESIDENCE OF THE PARTY OF T					Name and the last		
S1420290-001	SOB1	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit

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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

ub-Matrix: SOIL						· · · · · · · · · · · · · · · · · · ·	Duplicate (DUP) Report		Υ
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%
P068A: Organochl	orine Pesticides (OC)	(QC Lot: 3626512) - continued							
S1420290-001	SOB1	EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
P068B: Organopho	osphorus Pesticides (C	P) (QC Lot: 3626512)		en de la comp		The state of the s			
S1420290-001	SOB1	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
.01420200 001		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
	_	EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.0	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
DOZE/CIMINA - Dham	olic Compounds (QC		STATE OF THE PARTY	has a					1.0
The same of the sa	THE RESERVE OF THE PARTY OF THE		108-95-2	0.5	malka	<0.5	<0.5	0.0	No Limit
S1420290-001	SOB1	EP075(SIM): Phenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit No Limit
		EP075(SIM): 2-Chlorophenol	95-48-7		mg/kg			0.0	
		EP075(SIM): 2-Methylphenol	95-48-7 88-75-5	0.5	mg/kg	<0.5	<0.5	37074	No Limit
		EP075(SIM): 2-Nitrophenol			mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 4-Chloro-3-m 'phenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report	1	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
P075(SIM)A: Phen	olic Compounds (QC L	ot: 3626494) - continued							
ES1420290-001	SOB1	EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.0	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.0	No Limit
P075(SIM)B: Polyr	uclear Aromatic Hydro	carbons (QC Lot: 3626494)							
ES1420290-001	SOB1	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP075(SIM): Sum of polycyclic aromatic	_	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		hydrocarbons				= 107022	2022	10.00000	2.225.485.085
		EP075(SIM): Benzo(a)pyrene TEQ (zero)		0.5	mg/kg	<0.5	<0.5	0.0	No Limit
P080/071: Total Pe	troleum Hydrocarbons		COLUMN TRANSPORTER OF THE		NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,		Maria de la compansión de		-
S1420290-001	SOB1	EP071: C15 - C28 Fraction	<u> </u>	100	mg/kg	<100	<100	0.0	No Limit
101420200-001	0081			100	mg/kg	<100	<100	0.0	No Limit
		EP071: C29 - C36 Fraction EP071: C10 - C14 Fraction	_	50	mg/kg	<50	<50	0.0	No Limit
DOGO/OZ4, Total Do					mg/kg			0.0	710 2
THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME	troleum Hydrocarbons			40		<10	<10	0.0	No Limit
ES1420290-001	SOB1	EP080: C6 - C9 Fraction		10	mg/kg	<10	<10	0.0	NO LIMIT
A CONTRACTOR OF THE PARTY OF TH		ns - NEPM 2013 Fractions (QC Lot: 3626493)							
ES1420290-001	SOB1	EP071: >C16 - C34 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C34 - C40 Fraction		100	mg/kg	<100	<100	0.0	No Limit
		EP071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	<50	0.0	No Limit
P080/071: Total Re	coverable Hydrocarbo	ns - NEPM 2013 Fractions (QC Lot: 3626511)							
ES1420290-001	SOB1	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.0	No Limit
P080: BTEXN (QC	Lot: 3626511)		A COMPANY OF THE REAL PROPERTY.						
S1420290-001	SOB1	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.0	No Limit
	7.7.5.4	EF 000. Delizerie	108-88-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit

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Client

: AECOM Australia Pty Ltd : 60316172 ESA CHARNWOOD

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Sub-Matrix: SOIL						Laboratory	Duplicate (DUP) Report		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP080: BTEXN (QC	Lot: 3626511) - contin	ued							
ES1420290-001	SOB1	EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.0	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.0	No Limit

Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LCS) Report		
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 3626	6604)							
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	98.8	92	130
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	88.8	87	121
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	97.4	80	136
EG005T: Copper	7440-50-8	5	mg/kg	<5	32.0 mg/kg	106	93	127
EG005T: Lead	7439-92-1	5	mg/kg	<5	40.0 mg/kg	90.0	86	124
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55.0 mg/kg	98.2	93	131
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	116	81	133
EG035T: Total Recoverable Mercury by FIMS (QCLot: 3626605)							
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	90.1	70	105
EP066: Polychlorinated Biphenyls (PCB) (QCLo	ot: 3626513)							
EP066: Total Polychlorinated biphenyls		0.1	mg/kg	<0.1	1 mg/kg	106	57.4	117
EP068A: Organochlorine Pesticides (OC) (QCL	ot: 3626512)							
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	81.4	71	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	87.9	66	122
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	82.8	69	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	92.8	71	115
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	79.2	65	113
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.0	68	116
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	81.7	68	118
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	96.0	68	116
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	99.5	68	120
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	89.0	69	119
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	90.7	67	121
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	78.1	66	118
EP068: 4.4'-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	69	117
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	86.4	67	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	85.6	76	120
EP068: 4.4'-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	85.2	76	120
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	97.6	57.3	115
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	104	60	124
EP068: 4.4'-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	97.5	67	127
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	101	65	123
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	103	65	129

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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LCS	S) Report	
			_	Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
P068B: Organophosphorus Pesticides (OP) (C	CLot: 3626512) - continued							
:P068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	87.0	56	126
P068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	106	64	128
P068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	100	54	122
P068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	64	124
P068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	106	73	117
P068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	97.0	55	119
:P068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	77.8	69	123
P068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	88.5	70	120
P068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	88.2	71	115
P068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	92.4	68	114
P068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	87.5	68	122
P068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	69	115
P068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	100	70	118
P068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	90.2	68	116
P068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	102	64	120
P068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	78.7	68	116
P068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	79.4	70	118
P068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	104	67	123
P068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	69.1	42	126
P075(SIM)A: Phenolic Compounds (QCLot: 36	326494)							
P075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	4 mg/kg	84.1	74	116
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	4 mg/kg	100	74	116
P075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	4 mg/kg	96.7	72	116
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1.0	mg/kg	<1	8 mg/kg	100	69	123
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	4 mg/kg	87.4	60.3	117
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	4 mg/kg	99.1	69	117
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	4 mg/kg	82.6	68	112
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	4 mg/kg	104	73	117
EP075(SIM): 4-Chloro-3-Methylphenol	59-50-7	0.5	mg/kg	<0.5	4 mg/kg	99.8	76.4	114
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	4 mg/kg	81.2	57	111
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	4 mg/kg	86.4	68.9	112
EP075(SIM): Pentachlorophenol	87-86-5	1.0	mg/kg	<1	8 mg/kg	32.2	10	57
EP075(SIM)B: Polynuclear Aromatic Hydrocarb	ons (QCL ot: 3626494)		STEPPEN STATE			ALIEN CONTRACTOR		
P075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	4 mg/kg	112	80	124
P075(SIM): Naphthalene	208-96-8	0.5	mg/kg	<0.5	4 mg/kg	95.6	77	123
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	4 mg/kg	107	79	123
EP075(SIM): Acertaphitierie EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	4 mg/kg	99.4	77	123
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	4 mg/kg	103	79	123
EP075(SIM): Prieriantifierie	120-12-7	0.5	mg/kg	<0.5	4 mg/kg	108	79	123



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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL				Method Blank (MB)		Laboratory Control Spike (LC:	S) Report	
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
P075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot	: 3626494) - con	tinued						
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	4 mg/kg	105	79	123
P075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	4 mg/kg	106	79	125
P075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	4 mg/kg	81.7	73	121
P075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	4 mg/kg	109	81	123
P075(SIM): Benzo(b+j)fluoranthene	205-99-2	0.5	mg/kg	<0.5	4 mg/kg	91.3	70	118
P075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	4 mg/kg	96.6	77	123
P075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	4 mg/kg	98.1	76	122
P075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	4 mg/kg	85.6	71	113
P075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	4 mg/kg	93.6	71.7	113
P075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	4 mg/kg	86.0	72.4	114
P080/071: Total Petroleum Hydrocarbons (QCLot: 362649	3)							
P071: C10 - C14 Fraction		50	mg/kg	<50	200 mg/kg	103	71	131
P071: C15 - C28 Fraction		100	mg/kg	<100	300 mg/kg	110	74	138
P071: C29 - C36 Fraction		100	mg/kg	<100	200 mg/kg	99.1	64	128
P080/071: Total Petroleum Hydrocarbons (QCLot: 362651	1)							
P080: C6 - C9 Fraction		10	mg/kg	<10	26 mg/kg	119	68.4	128
P080/071: Total Recoverable Hydrocarbons - NEPM 2013 F	ractions (QCL)	ot: 3626493)					- Water	
P071: >C10 - C16 Fraction	>C10_C16	50	mg/kg	<50	250 mg/kg	105	70	130
P071: >C16 - C34 Fraction		100	mg/kg	<100	350 mg/kg	107	74	138
P071: >C34 - C40 Fraction		50	mg/kg	<100	150 mg/kg	81.5	63	131
P080/071: Total Recoverable Hydrocarbons - NEPM 2013 F	Fractions (OCL)	ot: 3626511)	BOOK TO BE					
P080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	114	68.4	128
P080: BTEXN (QCLot: 3626511)								
P080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	112	62	116
P080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	102	62	128
P080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	98.9	58	118
P080: meta- & para-Xylene	108-38-3	0.5	mg/kg	<0.5	2 mg/kg	99.3	60	120
, , , , , , , , , , , , , , , , , , , ,	106-42-3			5-4-8-04-45-4				The state of the s
P080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	105	60	120
P080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	96.8	62	138

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: SOIL			Ma	trix Spike (MS) Report	ort		
				Matrix Spike (MS) Report Spike SpikeRecovery(%) Recovery Limits (CAS Number Concentration MS Low	imits (%)		
Laboratory sample ID Clie	ent sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High

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Client

: AECOM Australia Pty Ltd

60316172 ESA CHARNWOOD Project



ub-Matrix: SOIL							
A Land Company of the				Spike	SpikeRecovery(%)	Recovery L	imits (%)
aboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
G005T: Total Meta	als by ICP-AES (QCLot: 3626604)						
ES1419926-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	92.9	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	87.5	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	93.0	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	108	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	88.4	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	88.0	70	130
		EG005T: Zinc	7440-66-6	250 mg/kg	101	70	130
G035T: Total Rec	overable Mercury by FIMS (QCLot: 3	3626605)					
	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	101	70	130
EP066: Polychlorin	ated Biphenyls (PCB) (QCLot: 36265	313)					
Managed and the second of the	SOB1	EP066: Total Polychlorinated biphenyls		1 mg/kg	106	70	130
P068A: Organoch	lorine Pesticides (OC) (QCLot: 3626	512)					
ES1420290-001	SOB1	EP068: gamma-BHC	58-89-9	0.5 mg/kg	106	70	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	83.4	70	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	108	70	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	94.6	70	130
		EP068: Endrin	72-20-8	2 mg/kg	87.3	70	130
		EP068: 4.4'-DDT	50-29-3	2 mg/kg	88.3	70	130
EP068B: Organopi	nosphorus Pesticides (OP) (QCLot: 3	626512)					
ES1420290-001	SOB1	EP068: Diazinon	333-41-5	0.5 mg/kg	85.7	70	130
201420200-001		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	80.3	70	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	100	70	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	89.3	70	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.6	70	130
EP075(SIM)A · Phe	nolic Compounds (QCLot: 3626494)						
ES1420290-001	SOB1	EP075(SIM): Phenol	108-95-2	10 mg/kg	102	70	130
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	115	70	130
		EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	76.8	60	130
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	92.5	70	130
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	52.4	20	130
EP075(SIM)B: Poly	nuclear Aromatic Hydrocarbons (QC						
ES1420290-001	SOB1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	115	70	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	118	70	130
EP080/071: Total F	Petroleum Hydrocarbons (QCLot: 362						
ES1420290-001	SOB1	EP071: C10 - C14 Fraction		560 mg/kg	83.1	73	137
		EP071: C15 - C28 Fraction	_	2370 mg/kg	91.3	53	131
		P071: C29 - C36 Fraction		1695 mg/kg	101	52	132

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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL				М	atrix Spike (MS) Report	Report		
				Spike	SpikeRecovery(%)	Recovery	Limits (%)	
aboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High	
EP080/071: Total F	Petroleum Hydrocarbons (QCLot: 36	26511)						
ES1420290-001	SOB1	EP080: C6 - C9 Fraction		32.5 mg/kg	127	70	130	
EP080/071: Total F	Recoverable Hydrocarbons - NEPM 2	013 Fractions (QCLot: 3626493)						
ES1420290-001	SOB1	EP071: >C10 - C16 Fraction	>C10_C16	902 mg/kg	83.5	73	137	
		EP071: >C16 - C34 Fraction		3190 mg/kg	99.1	53	131	
		EP071: >C34 - C40 Fraction		1087 mg/kg	91.1	52	132	
EP080/071: Total F	Recoverable Hydrocarbons - NEPM 2	013 Fractions (QCLot: 3626511)						
ES1420290-001	SOB1	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	120	70	130	
EP080: BTEXN (Q	CLot: 3626511)							
ES1420290-001	SOB1	EP080: Benzene	71-43-2	2.5 mg/kg	109	70	130	
		EP080: Toluene	108-88-3	2.5 mg/kg	100	70	130	
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	97.1	70	130	
		EP080: meta- & para-Xylene	108-38-3	2.5 mg/kg	97.8	70	130	
	_	2000-000 300 A A A 6000 A A 6000 A 6000 A 600 A	106-42-3				_	
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	101	70	130	
		EP080: Naphthalene	91-20-3	2.5 mg/kg	90.7	70	130	

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

The quality control term Matrix Spike (MS) and Matrix Spike Duplicate (MSD) refers to intralaboratory split samples spiked with a representative set of target analytes. The purpose of these QC parameters are to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Laboratory sample ID Client sample ID Method: Compound	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report									
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RP	Ds (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EP080/071: Total P	etroleum Hydrocarbons (QC	:Lot: 3626493)								
ES1420290-001	SOB1	EP071: C10 - C14 Fraction		560 mg/kg	83.1		73	137		-
		EP071: C15 - C28 Fraction		2370 mg/kg	91.3		53	131	1.000	
		EP071: C29 - C36 Fraction		1695 mg/kg	101		52	132		
EP080/071: Total R	ecoverable Hydrocarbons - N	NEPM 2013 Fractions (QCLot: 3626493)								
ES1420290-001	SOB1	EP071: >C10 - C16 Fraction	>C10_C16	902 mg/kg	83.5		73	137		
		EP071: >C16 - C34 Fraction		3190 mg/kg	99.1		53	131		
		EP071: >C34 - C40 Fraction		1087 mg/kg	91.1		52	132		
EP075(SIM)A: Phe	nolic Compounds (QCLot: 36	526494)								
ES1420290-001	SOB1	EP075(SIM): Phenol	108-95-2	10 mg/kg	102		70	130		
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	115		70	130		
		EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	76.8		60	130		
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	92.5		70	130	-	
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	52.4		20	130		



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Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Sub-Matrix: SOIL					Matrix Spike (I	MS) and Matrix S	pike Duplicate	(MSD) Repor	1	
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RP	Ds (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limi
EP075(SIM)B: Poly	nuclear Aromatic Hydrocarbo	ons (QCLot: 3626494)								
ES1420290-001	SOB1	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	115		70	130		
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	118		70	130		
EP080/071: Total P	etroleum Hydrocarbons (QC	Lot: 3626511)								
ES1420290-001	SOB1	EP080: C6 - C9 Fraction		32.5 mg/kg	127	T	70	130		T
EP080/071: Total R	ecoverable Hydrocarbons - N	NEPM 2013 Fractions (QCLot: 3626511)					Real Control			
ES1420290-001	SOB1	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	120		70	130		T
EP080: BTEXN (QC	CL ot: 2626511)				// SECULIARES		ER CONCEY	T. S.V.	1	
ES1420290-001	SOB1	EP080: Benzene	71-43-2	2.5 mg/kg	109		70	130		
L31420290-001	3081		108-88-3	2.5 mg/kg	100		70	130		
		EP080: Toluene	100-41-4	2.5 mg/kg 2.5 mg/kg	97.1		70	130		
		EP080: Ethylbenzene			97.1					
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	97.0		70	130		
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	101		70	130		
		EP080: Naphthalene	91-20-3	2.5 mg/kg	90.7		70	130		
EP068A: Organoch	lorine Pesticides (OC) (QCL	ot: 3626512)		E PER L						
ES1420290-001	SOB1	EP068: gamma-BHC	58-89-9	0.5 mg/kg	106		70	130		
231420290-001		EP068: Heptachlor	76-44-8	0.5 mg/kg	83.4		70	130		
		EP068: Aldrin	309-00-2	0.5 mg/kg	108		70	130		
		EP068: Dieldrin	60-57-1	0.5 mg/kg	94.6		70	130		
		EP068: Endrin	72-20-8	2 mg/kg	87.3		70	130		
		EP068: 4.4'-DDT	50-29-3	2 mg/kg	88.3		70	130		
EP068B: Organoph	osphorus Pesticides (OP) (C	QCLot: 3626512)								
ES1420290-001	SOB1	EP068: Diazinon	333-41-5	0.5 mg/kg	85.7		70	130		_
	100 A	EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	80.3		70	130		
	di manana	EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	100		70	130		
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	89.3		70	130		
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	98.6		70	130		
EP066: Polychlorin	ated Biphenyls (PCB) (QCLo	ot: 3626513)								
ES1420290-001	SOB1	EP066: Total Polychlorinated biphenyls		1 mg/kg	106		70	130		T
EG005T: Total Met	als by ICP-AES (QCLot: 3626					Maria Carlo				
ES1419926-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	92.9		70	130		
201110020 001	, monymous	EG005T: Cadmium	7440-43-9	50 mg/kg	87.5		70	130		
		EG005T: Chromium	7440-47-3	50 mg/kg	93.0		70	130		
		EG005T: Copper	7440-50-8	250 mg/kg	108		70	130		
		EG005T: Lead	7439-92-1	250 mg/kg	88.4		70	130		
		EG005T: Nickel	7440-02-0	50 mg/kg	88.0		70	130		_
		EG005T: Zinc	7440-66-6	250 mg/kg	101		70	130		

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Client Project : ES1420290 : AECOM Australia Pty Ltd

60316172 ESA CHARNWOOD

Sub-Matrix: SOIL					Matrix Spike (I	MS) and Matrix S	pike Duplicate	(MSD) Repor	t	
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RP	PDs (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
EG035T: Total Re	coverable Mercury by FIMS (QCLot: 3626605) - continued					NEW SILVE			
ES1419926-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	101		70	130		



INTERPRETIVE QUALITY CONTROL REPORT

Work Order : ES1420290 Page : 1 of 6

Client : AECOM Australia Pty Ltd Laboratory : Environmental Division Sydney

Contact : Client Services

Address : LEVEL 2 : 277-289 Woodpark Road Smithfield NSW Australia 2164

60 MARCUS CLARKE ST CANBERRA ACT, AUSTRALIA 2600

: PROJECT 60316172, TASK NO.1.1

E-mail : sydney@alsglobal.com

Telephone : +61 02 6201 3017 Telephone : +61-2-8784 8555
Facsimile : ---- Facsimile : +61-2-8784 8500

Project : 60316172 ESA CHARNWOOD QC Level : NEPM 2013 Schedule B(3) and ALS QCS3 requirement

Site :--- Date Samples Received :10-SEP-2014

Sampler : AAS Issue Date : 11-SEP-2014

No. of samples received : 5

Quote number : EN/004/14 No. of samples analysed : 5

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Interpretive Quality Control Report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Parameter Frequency Compliance
- Brief Method Summaries
- Summary of Outliers

Order number

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Work Order

ES1420290

Client

· AECOM Australia Ptv Ltd

Project - 60316172 ESA CHARNWOOD



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with recommended holding times (USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: SOIL					Evaluation	= Holding time	breach; ✓ = Withir	notaing tin
Method		Sample Date	E	ktraction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055-103) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	_	_		10-SEP-2014	18-SEP-2014	1
EA200: AS 4964 - 2004 Identification of Asbestos in b	ulk samples							
Snap Lock Bag - Asbestos bag subsampled by ALS (E SOB1, SOB3, OBQA1	A200) SOB2, SOB4,	04-SEP-2014		03-MAR-2015		11-SEP-2014	03-MAR-2015	1
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	03-MAR-2015	1	11-SEP-2014	03-MAR-2015	1
EG035T: Total Recoverable Mercury by FIMS								
Soil Glass Jar - Unpreserved (EG035T) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	02-OCT-2014	1	10-SEP-2014	02-OCT-2014	1
EP066: Polychlorinated Biphenyls (PCB)								Address of the Control of the Contro
Soil Glass Jar - Unpreserved (EP066) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	1	10-SEP-2014	20-OCT-2014	1
EP068A: Organochlorine Pesticides (OC)								
Soil Glass Jar - Unpreserved (EP068) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	1	10-SEP-2014	20-OCT-2014	1



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OBQA1

Client : AECOM Australia Pty Ltd
Project : 60316172 ESA CHARNWOOD

Matrix: SOIL	Company of the Compan	Com-t- Date	-	xtraction / Preparation	Liudulon	Troiding time	breach ; <= Within	Jidiniy dil
Method		Sample Date				7-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP068B: Organophosphorus Pesticides (OP)								
Soil Glass Jar - Unpreserved (EP068) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	1	10-SEP-2014	20-OCT-2014	✓
EP080/071: Total Recoverable Hydrocarbons - NE	PM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP071) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	•	10-SEP-2014	20-OCT-2014	1
EP075(SIM)A: Phenolic Compounds								
Soil Glass Jar - Unpreserved (EP075(SIM)) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	~	10-SEP-2014	20-OCT-2014	1
EP075(SIM)B: Polynuclear Aromatic Hydrocarbon	s							
Soil Glass Jar - Unpreserved (EP075(SIM)) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	1	10-SEP-2014	20-OCT-2014	✓
EP080: BTEXN	"是我们是不是是							
Soil Glass Jar - Unpreserved (EP080) SOB1, SOB3, OBQA1	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	~	10-SEP-2014	18-SEP-2014	✓
EP080/071: Total Recoverable Hydrocarbons - NE	PM 2013 Fractions							47
Soil Glass Jar - Unpreserved (EP080) SOB1, SOB3,	SOB2, SOB4,	04-SEP-2014	10-SEP-2014	18-SEP-2014	1	10-SEP-2014	18-SEP-2014	1

NEPM 2013 Schedule B(3) and ALS QCS3 requirement

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Project

Matrix Spikes (MS)

PAH/Phenois (SIM)

Pesticides by GCMS

Total Mercury by FIMS

TRH Volatiles/BTEX

Total Metals by ICP-AES

TRH - Semivolatile Fraction

Polychlorinated Biphenyls (PCB)

60316172 ESA CHARNWOOD



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(where) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

1

1

1

1

1

1

1

EP075(SIM)

EP068

EP066

EG035T

EG005T

EP071

EP080

8

5

5

18

20

Quality Control Sample Type		C	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method QC Regular Actual Expected Evaluation		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	3	23	13.0	10.0	✓	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
PAH/Phenols (SIM)	EP075(SIM)	1	8	12.5	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	5	20.0	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.0	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	2	18	11.1	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	2	20	10.0	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	12.5	10.0	/	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	8	12.5	10.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	5	20.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	18	5.6	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Pesticides by GCMS	EP068	1	5	20.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Mercury by FIMS	EG035T	1	18	5.6	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Total Metals by ICP-AES	EG005T	1	20	5.0	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH - Semivolatile Fraction	EP071	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement
TRH Volatiles/BTEX	EP080	1	8	12.5	5.0	1	NEPM 2013 Schedule B(3) and ALS QCS3 requirement

12.5

20.0

20.0

5.6

5.0

12.5

12.5

5.0

5.0

5.0

5.0

5.0

5.0

5.0

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Asbestos Identification in bulk solids	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Total Metals by ICP-AES	EG005T	SOIL	(APHA 21st ed., 3120; USEPA SW 846 - 6010) (ICPAES) Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	AS 3550, APHA 21st ed., 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	(USEPA SW 846 - 8015A) Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
PAH/Phenols (SIM)	EP075(SIM)	SOIL	(USEPA SW 846 - 8270B) Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	(USEPA SW 846 - 8260B) Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.
Preparation Methods	Method	Matrix	Method Descriptions
Methanolic Extraction of Soils for Purge and Trap	* ORG16	SOIL	(USEPA SW 846 - 5030A) 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids (Option A - Concentrating)	ORG17A	SOIL	In-house, Mechanical agitation (tumbler). 20g of sample, Na2SO4 and surrogate are extracted with 150mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Tumbler Extraction of Solids (Option B - Non-concentrating)	ORG17B	SOIL	In-house, Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 20mL 1:1 DCM/Acetone by end over end tumble. The solvent is transferred directly to a GC vial for analysis.

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: AECOM Australia Pty Ltd

60316172 ESA CHARNWOOD

Client Project



Summary of Outliers

Outliers: Quality Control Samples

The following report highlights outliers flagged in the Quality Control (QC) Report. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). This report displays QC Outliers (breaches) only.

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

- For all matrices, no Method Blank value outliers occur.
- · For all matrices, no Duplicate outliers occur.
- For all matrices, no Laboratory Control outliers occur.
- · For all matrices, no Matrix Spike outliers occur.

Regular Sample Surrogates

• For all regular sample matrices, no surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

This report displays Holding Time breaches only. Only the respective Extraction / Preparation and/or Analysis component is/are displayed.

No Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

The following report highlights breaches in the Frequency of Quality Control Samples.

No Quality Control Sample Frequency Outliers exist.

Former West Belconnen Fire Station UPSS Validation Report – Former West Belconnen Fire Station, Belconnen, ACT Commercial-in-Confidence

DRAFT

Appendix D

Disposal Documentation



Starting TC No. : 2T00567052

Bulk printing for Transport Certificate

10-Sep-2014 2:01 pm Created by: Status: Created CA no: 2C00089276 CA end date: 09-Sep-2015 CA start date: 10-Sep-2014 PART 1 (this part to be completed by consignor at pickup) CONSIGNOR Capital Works & Infrastructure Role: Producer 180 London Circuit Contact: Email: N/A Canberra City, ACT 2601 Phone: (02) 6205 3086 Fax: N/A Emergency: (02) 6205 3086 ABN: 98 636 852 025 ANZSIC code: Licence no.: n/a Pickup Cnr Lhotsky St & Florey Dr, Charnwood ACT details: WASTE Waste code: N220 - Asbestos Description: Asbestos Form: Solid Liquid waste levy applies: No Proposed treatment: Landfill Classification: General solid (non-putrescible) Contaminants: N/A Dangerous goods class: N/A N/A UN no.: N/A Subsidiary risk class: N/A N/A No. package: Packaging type: Packing group no: PICKUP Waste amount at pickup: (required - Yes) I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Signature Date PART 2 - TRANSPORTER (this part to be completed by the transporter at pickup) **BULK TRANSPORT SOLUTIONS** 6A/1345 THE HORSLEY DRIVE Contact: Email: N/A WETHERILL PARK, NSW 2164 Phone: (13) 0033 7477 N/A Transit state: N/A Fax: Licence no.: 13340 Vehicle rea: TBA Transport type: Road I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Signature Date PART 3 - RECEIVING FACILITY (this part to be completed by the receiving facility) VEOLIA ES - WOODLAWN LANDFILL COLLECTOR RD Contact: Email: @veoliaes.com.au TARAGO, NSW 2580 (02) 9841 2995 Phone: (02) 9841 2926 Fax: Licence no.: 11436 Receiving facility ref no.: N/A Waste amount at arrival: Date waste arrived at the facility : ACCEPT / REJECT THE WASTE The receiving facility rejected the waste (complete section below) Reason for rejection: Rejected waste sent to - Name: Address: I declare that to the best of my knowledge and belief the above information is true and correct - complete if accepted or rejected: Name and Position (Block letters) Signature Date NOTE

Printed on: 10-Sep-2014 2:00 pm

Bulk Transport Charnwood - Contaminated Soil - Not containing Asbestos

NOTE: The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") requires that an approved transport certificate accompany certain wastes when transported into, out of or within NSW. This transport certificate is in the approved form and meets the requirements of the Regulation provided that:

(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;
(b) the transporter certifies, by signing the certificate, that the information in Part 2 of the certificate is correct;
(c) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system. If any of the information in Parts 1 and 2 of the certificate is not correct and it is not practical at the time to change the information in the EPA online tracking system and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into the EPA online system as soon as is practicable afterwards.

The receiving facility must retain this certificate for four years.

CA no: 2C00089276	10-Sep-2014 2:01 pm Status: Created CA start date: 10-Sep-2014 CA end date: 09-Sep-2015	
PART 1 (this part to be completed by	consignor at pickup)	
CONSIGNOR		
Capital Works & Infrastructure	Role: Producer	
180 London Circuit	Contact: Email: N/A	
Canberra City, ACT 2601	Phone: (02) 6205 3086 Fax: N/A Emergency: (02) 6205 3086 Fax: N/A Licence no.: n	
Pickup Cnr Lhotsky St & Florey Dr, details:	, Charnwood ACT	
WASTE		
Waste code: N220 - Asbes	tos	
Description: Asbestos		
Form: Solid	Liquid waste levy applies: No	
Proposed treatment: Landfill	Classification: General solid (non-putrescible)	
Contaminants: N/A	Calculation Control of the Control o	
	Subsidiary risk class: N/A UN no.: N/A	
Dangerous goods class: N/A	Caronala, noncolado.	
Packaging type: N/A	Packing group no: N/A No. package: N/A	1
PICKUP	· · · · · · · · · · · · · · · · · · ·	
I declare that to the best of my know Name and Position (Block letters)	//edge and belief the above information is true and correct. Date	
PART 2 - TRANSPORTER (this part t	to be completed by the transporter at nickup)	And all some
	o se completed by the transporter at placepy	
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct.	
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct.	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date s part to be completed by the receiving facility)	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date part to be completed by the receiving facility)	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Spart to be completed by the receiving facility)	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Email: p@veoliaes.com. Phone: (02) 9841 2926 Fax: (02) 9841 2995	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Medge and belief the above information is true and correct. Date Date Contact: Email: @@veoliaes.com. Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Contact: Email: @@veoliaes.com. Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Email: N/A Transit state: Transport type: Begin to be completed by the receiving facility) ILL Contact: Email: @veoliaes.com. Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A Date waste arrived at the facility:	Road
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this VEOLIA ES - WOODLAWN LANDFI COLLECTOR RD TARAGO, NSW 2580 Waste amount at arrival:	Contact: Email: N/A Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Email: P@veoliaes.com Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A Date waste arrived at the facility: The waste - Date accepted: Date Processed: Treatment: Licence no. Treatment	au
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this VEOLIA ES - WOODLAWN LANDFI COLLECTOR RD TARAGO, NSW 2580 Waste amount at arrival: ACCEPT / REJECT THE WASTE The receiving facility accepted to Reason for rejection: Rejected waste sent to - Name: Address:	Contact: Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Email: N/A Transit state: Transport type: Pledge and belief the above information is true and correct. Date Email: Email: © veoliaes.com Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A Date waste arrived at the facility: The waste - Date accepted: Date Processed: Treatment: Date waste (complete section below)	au
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this VEOLIA ES - WOODLAWN LANDFI COLLECTOR RD TARAGO, NSW 2580 Waste amount at arrival: ACCEPT / REJECT THE WASTE The receiving facility accepted the Reason for rejection: Rejected waste sent to - Name: Address: I declare that to the best of my know	Contact: Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Email: N/A Transit state: Transport type: Pledge and belief the above information is true and correct. Date Email: Contact: Email: Email: Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A Date waste arrived at the facility: The waste - Date accepted: Date Processed: Treatment: Date Processed: Treatment: Date Processed: Date	au
BULK TRANSPORT SOLUTIONS 6A/1345 THE HORSLEY DRIVE WETHERILL PARK, NSW 2164 I declare that to the best of my know Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this VEOLIA ES - WOODLAWN LANDFI COLLECTOR RD TARAGO, NSW 2580 Waste amount at arrival: ACCEPT / REJECT THE WASTE The receiving facility accepted the Reason for rejection: Rejected waste sent to - Name: Address: I declare that to the best of my know	Contact: Phone: (13) 0033 7477 Fax: N/A Transit state: Licence no.: 13340 Vehicle reg: TBA Transport type: Pledge and belief the above information is true and correct. Date Date Email: N/A Transit state: Transport type: Pledge and belief the above information is true and correct. Date Email: Email: © veoliaes.com Phone: (02) 9841 2926 Fax: (02) 9841 2995 Licence no.: 11436 Receiving facility ref no.: N/A Date waste arrived at the facility: The waste - Date accepted: Date Processed: Treatment: Date waste (complete section below)	au

NOTE: The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") requires that an approved transport certificate accompany certain wastes when transported into, out of or within NSW. This transport certificate is in the approved form and meets the requirements of the Regulation provided that:

(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;

(a) the consignor certifies, by signing this certificate, that the information in Part 2 of the certificate is correct; and
(c) the transporter certifies, by signing the certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system.

If any of the information in Parts 1 and 2 of the certificate is not correct and it is not practical at the time to change the information in the EPA online tracking system and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into the EPA online system as soon as is practicable afterwards.

The receiving facility must retain this certificate for four years.

Created by:		10-Sep-2014 2:01 p	om		Status: Crea		
CA no:	2C00089276	CA	start date: 10-Sep-201	14	CA end date	: 09-Sep-2015	
PART 1 (this part	to be completed b	y consignor at pickup)					
CONSIGNOR							
Capital Works &	Infrastructure			Role: F	Producer		- 511
180 London Circ		Contact:		Email: 1	N/A		
Canberra City, A	CT 2601	Phone:	(02) 6205 3086	Fax: N/A		Emergency:	(02) 6205 3086
2000/1000 mg, 11.000 mg		ABN:	98 636 852 025	ANZSIC cod	e: 0	Licence no.:	n/a
Pickup Cnr Lho	otsky St & Florey D	r, Charnwood ACT					
details:		(4)					
WASTE							
Waste code:	N220 - Asbe	stos					- 1
Description:	Asbestos						
Form:	Solid		Liquid waste levy app	plies: No			. 11
Proposed treatn	nent: Landfill		Classification: Ger	neral solid (no	n-putrescible)		
Contaminants:	N/A						_
Dangerous good	ds class: N/A		Subsidiary risk class	: N/A	UN n	o.: N	/A
Packaging type:			Packing group no:	N/A	No. p	ackage: N	/A
			3 3 1	PACTOR DAY			
PICKUP							
Waste amount at	t pickup:		(required - Yes)				
I declare that to t	the best of my kno	wledge and belief the	above information is tru	ue and correct	t.		
Name and Positi	on (Block letters) .						
			Date				
PART 2 - TRANS	PORTER (this part	to be completed by th	e transporter at pickup)			
BULK TRANSPO	ORT SOLUTIONS						
6A/1345 THE HC		Contact:		Email:	N/A		4.11
WETHERILL PA			(13) 0033 7477 Fax			Fransit state:	N/A
, we mendee in			, 1985년 1일 전 12 12 12 12 12 12 12 12 12 12 12 12 12	nicle reg: TBA		Fransport type	: Road
I declare that to t	the hest of my kno		above information is tru				
1453	10						
Signature			Date				
PART 3 - RECEIV	ING FACILITY (th	is part to be completed	by the receiving facili	ity)			
NOTES TO SECURE OF THE PROPERTY OF THE PARTY					State of the last	CALIFORNIA PLANTING	
	OODLAWN LAND			F		Augaliana -	
COLLECTOR RI		Contact:	(00) 0044 0000	Email:	(00) 0044 000	e@veoliaes.co	om.au
TARAGO, NSW	2580	Phone:	(02) 9841 2926		(02) 9841 299		
004A660 00 56 0		2.0000	io.: 11436		g facility ref r		
Waste amount a	t arrival:		Date waste arrive	ed at the facilit	y:		
ACCEPT / REJE	CT THE WASTE						
		the waste - Date acce	epted: Dar	te Processed		Treatment:	
The receiving	og facility rejected	he waste (complete se	ection helow)				
Reason for							
	rejection:						
Rejected wa	rejection: aste sent to - Name	o:					
Rejected wa Address:	rejection:aste sent to - Name	:					
Rejected wa Address: I declare that to	rejection: aste sent to - Name the best of my kno	e: wledge and belief the	above information is tr	ue and correc	t - complete if	accepted or re	ejected:
Rejected wa Address: I declare that to the Name and Positi	rejection:	wledge and belief the	above information is tr	ue and correc	t - complete if	accepted or re	ejected:
Rejected wa Address: I declare that to the Name and Positi	rejection:	wledge and belief the	above information is tr	ue and correc	t - complete if	accepted or re	ejected:
Rejected wa Address: I declare that to to Name and Positi Signature	rejection:	wledge and belief the	above information is tr	ue and correc	t - complete if	accepted or re	ejected:
Rejected wa Address: I declare that to to Name and Positi Signature	rejection: aste sent to - Name the best of my kno ion (Block letters)	wledge and belief the	above information is tru	ue and correc	t - complete if	accepted or re	ejected:

NOTE: The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") requires that an approved transport certificate accompany certain wastes when transported into, out of or within NSW. This transport certificate is in the approved form and meets the requirements of the Regulation provided that:

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(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;
(b) the transporter certifies, by signing the certificate, that the information in Part 2 of the certificate is correct; and
(c) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system.

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The receiving facility must retain this certificate for four years.

		10-Sep-2014 2:01	Fig. 1. The state of the control of		tus: Created	
CA no:	2C00089276	CA	start date: 10-Sep-201	4 CA	end date: 09-Sep-2015	
PART 1 (this part t	o be completed by	consignor at pickup				
CONSIGNOR						
Capital Works & I	nfrastructure			Role: Produ	icer	
180 London Circu	iit	Contact:		Email: N/A		
Canberra City, AC	CT 2601	Phone:	(02) 6205 3086	Fax: N/A	Emergency:	(02) 6205 3086
		ABN:	98 636 852 025	ANZSIC code:	0 Licence no.:	n/a
Pickup Cnr Lho	tsky St & Florey D	r, Charnwood ACT				
details:						
WASTE						
Waste code:	N220 - Asbe	stos				
Description:	Asbestos					
Form:	Solid		Liquid waste levy app			
Proposed treatm			Classification: Gen	eral solid (non-put	rescible)	
Contaminants:	N/A					-
Dangerous good	s class: N/A		Subsidiary risk class:	: N/A	UN no.: N	/A
Packaging type:	N/A		Packing group no:	N/A	No. package: N	/A
PICKUP						
D 100 200 (200 (20)			(magnification of the state of			
		uladaa aad baliaf tha				
			above information is tru			
Signature			Date			
PART 2 - TRANSF	ORTER (this part	to be completed by the	ne transporter at pickup)		
				A substitution with the contraction.		HILLOCOCCO SELECTION HOSE TO DESCRIPTION
BULK TRANSPO			· <u></u>	- " N/A		
6A/1345 THE HO		Contact:	(40) 0000 7477	Email: N/A	40.000	N/A
WETHERILL PAF	RK, NSW 2164		(13) 0033 7477 Fax		Transit state:	N/A
1 -11 111111				icle reg: TBA	Transport type	: Road
I declare that to tr		viedge and belief the		le and correct.		
Name and Davids	ne best of my know	-				
Section 1	n (Block letters)					CONCRETE STATE OF STA
Section 1	n (Block letters)		Date			CONCRETE STATE OF STA
Signature	n (Block letters)		Date			CONCRETE STATE OF STA
Signature	NG FACILITY (thi	s part to be complete				CONCRETE STATE OF STA
PART 3 - RECEIVI	NG FACILITY (thi	s part to be complete	Date	y)		
PART 3 - RECEIVION VEOLIA ES - WO COLLECTOR RD	NG FACILITY (thi	s part to be complete	d by the receiving facilit	y) Email:	e@veoliaes.co	
PART 3 - RECEIVI	NG FACILITY (thi	s part to be complete ILL Contact: Phone:	d by the receiving facilit	Email: Fax: (02) 9	e@veoliaes.co	
PART 3 - RECEIVI VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2	NG FACILITY (thi ODLAWN LANDF	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436	Email: Fax: (02) 9 Receiving faci	e@veoliaes.co 9841 2995 Hity ref no.: N/A	m.au
PART 3 - RECEIVI VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2	NG FACILITY (thi ODLAWN LANDF	s part to be complete ILL Contact: Phone:	d by the receiving facilit (02) 9841 2926 no.: 11436	Email: Fax: (02) 9 Receiving faci	e@veoliaes.co	m.au
PART 3 - RECEIVI VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2	NG FACILITY (thi ODLAWN LANDF	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436	Email: Fax: (02) 9 Receiving faci	e@veoliaes.co 9841 2995 Hity ref no.: N/A	m.au
PART 3 - RECEIVI VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT	NG FACILITY (thi ODLAWN LANDF 2580 arrival:	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriver	Email: Fax: (02) 9 Receiving facid at the facility :	e@veoliaes.co 9841 2995 Hity ref no.: N/A	m.au
PART 3 - RECEIVI VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT	NG FACILITY (thi ODLAWN LANDF 2580 arrival:	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arrive	Email: Fax: (02) 9 Receiving facid at the facility:	e@veoliaes.co 9841 2995 Hity ref no.: N/A	m.au
PART 3 - RECEIVED VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving The receiving	NG FACILITY (thi ODLAWN LANDF 2580 arrival: T THE WASTE g facility accepted g facility rejected the	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriver epted:	Email: Fax: (02) 9 Receiving facility:	e@veoliaes.co 9841 2995 flity ref no.: N/A	m.au
VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for re-	NG FACILITY (thi ODLAWN LANDF 2580 arrival: THE WASTE g facility accepted to	s part to be complete ILL Contact: Phone: Licence r the waste - Date accorde waste (complete s	d by the receiving facility (02) 9841 2926 no.: 11436 Date waste arriver epted:	Fax: (02) 9 Receiving facility:	e@veoliaes.co 9841 2995 flity ref no.: N/A	m.au
PART 3 - RECEIVED VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for receiving Rejected was	NG FACILITY (this operation) ODLAWN LANDF 2580 arrival: CT THE WASTE g facility accepted to gracility rejected the gracility rejected the gracility rejected to gracility r	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriver epted:	Fax: (02) 9 Receiving facility:	e@veoliaes.co 9841 2995 llity ref no.: N/A	m.au
PART 3 - RECEIVED VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT / REJECT / REJECT / REJECT / REJECT / Rejected was Address:	NG FACILITY (this operation) ODLAWN LANDF 2580 arrival: CT THE WASTE g facility accepted to gracility rejected the gracility rejected the gracility rejected to gracility r	s part to be complete ILL Contact: Phone: Licence r	d by the receiving facility (02) 9841 2926 no.: 11436 Date waste arriver epted:	Fax: (02) 9 Receiving facility:	e@veoliaes.co 9841 2995 Ility ref no.: N/A	m.au
PART 3 - RECEIVED VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for re Rejected was Address:	NG FACILITY (this operation) ODLAWN LANDF 2580 arrival: CT THE WASTE g facility accepted to gracility rejected the gracility rejected the gracility rejected the gracility rejected to gracility rejected the gracility rejected	s part to be complete ILL Contact: Phone: Licence r the waste - Date according waste (complete some waste)	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriver epted:	Email: Fax: (02) 9 Receiving faci d at the facility : e Processed:	e@veoliaes.co	m.au
VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for re Rejected was Address:	NG FACILITY (this operation (Block letters) NG FACILITY (this operation (CT) (T) (T) (T) (T) (T) (T) (T) (T) (T) (s part to be complete ILL Contact: Phone: Licence r the waste - Date according waste (complete solution)	d by the receiving facility (02) 9841 2926 no.: 11436 Date waste arriver epted:	Email: Fax: (02) 9 Receiving faci d at the facility : e Processed:	e@veoliaes.co	m.au
VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for re Rejected was Address:	NG FACILITY (this operation (Block letters) NG FACILITY (this operation (CT) (T) (T) (T) (T) (T) (T) (T) (T) (T) (s part to be complete ILL Contact: Phone: Licence r the waste - Date according waste (complete solution)	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriverence extension below)	Email: Fax: (02) 9 Receiving faci d at the facility : e Processed:	e@veoliaes.co	m.au
PART 3 - RECEIVED VEOLIA ES - WO COLLECTOR RD TARAGO, NSW 2 Waste amount at ACCEPT / REJECT The receiving Reason for re Rejected was Address:	NG FACILITY (this operation (Block letters) NG FACILITY (this operation (CT) (T) (T) (T) (T) (T) (T) (T) (T) (T) (s part to be complete ILL Contact: Phone: Licence r the waste - Date according waste (complete solution)	d by the receiving facilit (02) 9841 2926 no.: 11436 Date waste arriverence extension below)	Email: Fax: (02) 9 Receiving faci d at the facility : e Processed:	e@veoliaes.co	m.au

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Created by: 10-Sep-2014 2:01 pm Status: Created CA end date: 09-Sep-2015 CA no: 2C00089276 CA start date: 10-Sep-2014 PART 1 (this part to be completed by consignor at pickup) Capital Works & Infrastructure Producer Role: 180 London Circuit Contact: Email: N/A Canberra City, ACT 2601 Emergency: (02) 6205 3086 Phone: N/A (02) 6205 3086 Fax: ABN: 98 636 852 025 ANZSIC code: 0 Licence no.: n/a Pickup Cnr Lhotsky St & Florey Dr, Charnwood ACT details: WASTE Waste code: N220 - Asbestos Description: Ashestos Form: Solid Liquid waste levy applies: No Classification: General solid (non-putrescible) Proposed treatment: Landfill Contaminants: N/A Subsidiary risk class: N/A UN no.: N/A Dangerous goods class: N/A N/A No. package: N/A Packaging type: N/A Packing group no: PICKUP Waste amount at pickup: (required - Yes) I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Signature Date PART 2 - TRANSPORTER (this part to be completed by the transporter at pickup) **BULK TRANSPORT SOLUTIONS** Contact: 6A/1345 THE HORSLEY DRIVE Email: N/A N/A WETHERILL PARK, NSW 2164 Phone: (13) 0033 7477 N/A Transit state: Fax: Licence no.: 13340 Vehicle reg: TBA Transport type: Road I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Date Signature PART 3 - RECEIVING FACILITY (this part to be completed by the receiving facility) VEOLIA ES - WOODLAWN LANDFILL @veoliaes.com.au Email: COLLECTOR RD Contact: (02) 9841 2995 TARAGO, NSW 2580 Phone: (02) 9841 2926 Fax: Receiving facility ref no.: N/A Licence no.: 11436 Date waste arrived at the facility : Waste amount at arrival: ACCEPT / REJECT THE WASTE The receiving facility rejected the waste (complete section below) Reason for rejection: Rejected waste sent to - Name: Address: I declare that to the best of my knowledge and belief the above information is true and correct - complete if accepted or rejected: Name and Position (Block letters) NOTE Bulk Transport Charnwood - Contaminated Soil - Not containing Asbestos

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The receiving facility must retain this certificate for four years.

Created by: CA no:	2C00089276	10-Sep-2014 2:01	pm start date: 10-Sep-20		Status: Created CA end date: 09-Sep-2015	5
				North Children	A cira date: 00 Cop 20 K	
CONSIGNOR	to be completed by	consignor at pickup				
Capital Works & I 180 London Circu Canberra City, A	uit	Contact: Phone: ABN:	(02) 6205 3086 98 636 852 025	Role: Pro Email: N/A Fax: N/A ANZSIC code:	Emergency:	(02) 6205 3086
Pickup Cnr Lho details:	tsky St & Florey Di	r, Charnwood ACT	96 030 632 023	ANZSIC code.	U Licence no	II/a
WASTE						
Waste code:	N220 - Asbe	otos				
Description:	Asbestos	Sius				
Form:	Solid		Liquid waste levy ap	plies: No		
Proposed treatm			Classification: Ge		nutrescible)	
Contaminants:	N/A		Classification.	neral solid (non-	putrescible)	
Dangerous good Packaging type:			Subsidiary risk class Packing group no:	s: N/A N/A		N/A N/A
PICKUP						
I declare that to the Name and Position	he best of my know on (Block letters)	vledge and belief the				
PART 2 - TRANSF	PORTER (this part	to be completed by the	he transporter at pickup	0)		
6A/1345 THE HO WETHERILL PAR I declare that to the Name and Position	RK, NSW 2164 he best of my know on (Block letters)	vledge and belief the	above information is tr	nicle reg: TBA ue and correct.	A Transit state: Transport typ	
PART 3 - RECEIV	ING FACILITY (this	s part to be complete	d by the receiving facili	ity)		
COLLECTOR RETARAGO, NSW 2 Waste amount at ACCEPT / REJECTION The receiving The receiving	arrival:CT THE WASTE g facility accepted to g facility rejected the	Contact: Phone: Licence r the waste - Date according waste (complete s	Date waste arrive	Receiving fed at the facility to	@veoliaes.co 2) 9841 2995 facility ref no.: N/A	
Rejected was Address:	ste sent to - Name	:			and the second s	
and the second s	na na na angli iliyahiya na na mining kalahan iliya <u>ta</u> nga na na angli na na na	The state of the s			complete if accepted or re	
						NAMES AND ADDRESS OF THE PARTY
NOTE						
	Charnwood - Conta	aminated Soil - Not co	ontaining Asbestos			

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Created by: CA no:	2C00089276	10-Sep-2014 2:01	pm A start date: 10-Sep-201		: Created d date: 09-Sep-2015
				4 OA CIII	a date: 00 00p 2010
	to be completed by	consignor at pickup	0)		
CONSIGNOR					
Capital Works &			<u> </u>	Role: Produce	r
180 London Circ		Contact	and the second s	Email: N/A	- (00) 0005 0000
Canberra City, A	ACT 2601	Phone:	(02) 6205 3086	Fax: N/A	Emergency: (02) 6205 3086
		ABN:	98 636 852 025	ANZSIC code:	Licence no.: n/a
100000000000000000000000000000000000000	otsky St & Florey D	r, Charnwood ACT			
details:					
WASTE	NICOC A-1-				
Waste code:	N220 - Asbe	SIOS			
Description:	Asbestos			P. Na	
Form:	Solid		Liquid waste levy app		
Proposed treatr			Classification: Gen	ierai solid (non-putres	scible)
Contaminants:	N/A				
Dangerous goo			Subsidiary risk class		UN no.: N/A
Packaging type	: N/A		Packing group no:	N/A	No. package: N/A
PICKUP					
I declare that to Name and Posit	the best of my know ion (Block letters)	vledge and belief the			
PART 2 - TRANS	PORTER (this part	to be completed by	the transporter at pickup)	
BULK TRANSPO	ORT SOLUTIONS		<u> </u>		
6A/1345 THE H	ORSLEY DRIVE	Contact	: 🗖	Email: N/A	
WETHERILL PA	ARK, NSW 2164	Phone:	(13) 0033 7477 Fax	: N/A	Transit state: N/A
				icle reg: TBA	Transport type: Road
I declare that to	the best of my know	vledge and belief the	e above information is tru	ue and correct.	
Signature			Date		
PART 3 - RECEIV	VING FACILITY (thi	s part to be complet	ed by the receiving facilit	ty)	
VEOLIA ES - W	OODLAWN LANDF	31.1			
COLLECTOR R		Contact		Email:	@veoliaes.com.au
TARAGO, NSW		Phone:	(02) 9841 2926	Fax: (02) 984	
17410100,11011	2000			Receiving facility	
Waste amount a	at arrival:	Licence		ar amaza una a 17 a.a.	, 101 1101 1111
ACCEPT / REJE	ECT THE WASTE				
[- [전 명원이는 것 같아 보고 있다. [전 명원] [[10] [10]		the waste - Date ac	cented: Dat	e Processed	Treatment:
The receiving	ng facility rejected the	he waste (complete	section below)		
0.70					-
					elete if accepted or rejected:
The state of the s	TO STATE OF THE PARTY OF THE PA			The second secon	
NOTE					
Bulk Transport	Charnwood - Conta	aminated Soil - Not o	containing Asbestos		

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Created by: CA no:	10-Se 2C00089276	ep-2014 2:01 CA	om start date: 10-Sep-20		atus: Created A end date: 09-Sep-2015	5
PART 1 (this part t	to be completed by consi	gnor at pickup)				
CONSIGNOR						
Capital Works & I	nfrastructure			Role: Pro	ducer	
180 London Circu		Contact:		Email: N/A		
Canberra City, AC	CT 2601	Phone:	(02) 6205 3086	Fax: N/A	Emergency:	(02) 6205 3086
		ABN:	98 636 852 025	ANZSIC code:	0 Licence no.:	n/a
Pickup Cnr Lhot	tsky St & Florey Dr, Char	nwood ACT				
details:	38 38					
WASTE						
Waste code:	N220 - Asbestos					
Description:	Asbestos					
Form:	Solid		Liquid waste levy ap			
Proposed treatm	ent: Landfill		Classification: Ge	neral solid (non-p	utrescible)	
Contaminants:	N/A					
Dangerous good	s class: N/A		Subsidiary risk clas	s: N/A	UN no.:	N/A
Packaging type:	N/A		Packing group no:	N/A	No. package:	N/A
PICKUP						
I declare that to the Name and Position	pickup: ne best of my knowledge on (Block letters)	and belief the	above information is to			100100000000000000000000000000000000000
PART 2 - TRANSP	PORTER (this part to be o	completed by th	e transporter at picku	p)		
Name and Positio	RSLEY DRIVE	and belief the	above information is to	hicle reg: TBA rue and correct.	Transit state: Transport typ	
PART 3 - RECEIVI	NG FACILITY (this part t	o be completed	d by the receiving facil	ity)		
VEOLIA ES - WO	ODLAWN LANDFILL					
COLLECTOR RD		Contact:		Email:	e@veoliaes.co	om.au
TARAGO, NSW 2		Phone:	(02) 9841 2926		9841 2995	Jiii.uu
,		Licence n		, ,	cility ref no.: N/A	
Waste amount at	arrival:				omy roi non rwy	******************************
ACCEPT / REJEC			Date Waste dilly	od at the ladinty .		
The receiving The receiving Reason for re	g facility accepted the was g facility rejected the was ejection: ste sent to - Name:	te (complete se	ection below)			
	ne best of my knowledge					Self-Chrodiffeed model model and common and
	on (Block letters)					
	on (block letters)					
NOTE		SPARKET N				

Printed on: 10-Sep-2014 2:00 pm

Bulk Transport Charnwood - Contaminated Soil - Not containing Asbestos

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(c) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system.

If any of the information in Parts 1 and 2 of the certificate is not correct and it is not practical at the time to change the information in the EPA online tracking system and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into the EPA online system as soon as is practicable afterwards.

The receiving facility must retain this certificate for four years.

10-Sep-2014 2:01 pm Status: Created Created by: CA end date: 09-Sep-2015 2C00089276 CA start date: 10-Sep-2014 CA no: PART 1 (this part to be completed by consignor at pickup) CONSIGNOR Capital Works & Infrastructure Producer Role: 180 London Circuit Email: N/A Contact: Canberra City, ACT 2601 N/A Emergency: (02) 6205 3086 Phone: (02) 6205 3086 Fax: ABN: 98 636 852 025 ANZSIC code: Licence no.: n/a Pickup Cnr Lhotsky St & Florey Dr. Charnwood ACT details: WASTE Waste code: N220 - Asbestos Description: Asbestos Form: Solid Liquid waste levy applies: No Proposed treatment: Landfill Classification: General solid (non-putrescible) Contaminants: N/A N/A Dangerous goods class: N/A Subsidiary risk class: N/A UN no.: N/A N/A Packing group no: N/A No. package: Packaging type: PICKUP Waste amount at pickup: (required - Yes) I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Signature Date PART 2 - TRANSPORTER (this part to be completed by the transporter at pickup) **BULK TRANSPORT SOLUTIONS** Email: N/A 6A/1345 THE HORSLEY DRIVE Contact: Transit state: N/A WETHERILL PARK, NSW 2164 Phone: (13) 0033 7477 N/A Fax: Licence no.: 13340 Transport type: Vehicle reg: TBA Road I declare that to the best of my knowledge and belief the above information is true and correct. Name and Position (Block letters) Signature PART 3 - RECEIVING FACILITY (this part to be completed by the receiving facility) VEOLIA ES - WOODLAWN LANDFILL @veoliaes.com.au Contact: Email: COLLECTOR RD (02) 9841 2926 Fax: (02) 9841 2995 TARAGO, NSW 2580 Phone: Receiving facility ref no.: N/A Licence no.: 11436 Date waste arrived at the facility : Waste amount at arrival: ACCEPT / REJECT THE WASTE The receiving facility rejected the waste (complete section below) Reason for rejection: Rejected waste sent to - Name: Address: I declare that to the best of my knowledge and belief the above information is true and correct - complete if accepted or rejected: Name and Position (Block letters) NOTE Bulk Transport Charnwood - Contaminated Soil - Not containing Asbestos

NOTE: The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") requires that an approved transport certificate accompany certain wastes when transported into, out of or within NSW. This transport certificate is in the approved form and meets the requirements of the Regulation provided that:

(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;

(a) the consignor certifies, by signing this certificate, that the information in Part 2 of the certificate is correct; and
(c) the transporter certifies, by signing the certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system.

If any of the information in Parts 1 and 2 of the certificate is not correct and it is not practical at the time to change the information in the EPA online tracking system and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into the EPA online system as soon as is practicable afterwards.

The receiving facility must retain this certificate for four years.

CA no:	2C00089276	10-Sep-2014 2:01 CA	pm start date: 10-Sep-20	Status: 14 CA end	Created date: 09-Sep-2015
PART 1 (this part	to be completed by	y consignor at pickup)			
CONSIGNOR					
Capital Works &	nfrastructure			Role: Producer	1, 2 1 200
180 London Circu	uit	Contact:		Email: N/A	
Canberra City, A	CT 2601	Phone:	(02) 6205 3086	Fax: N/A	Emergency: (02) 6205 3086
370.7 (270.8 C) (270.7 P) (270.8 C) (270.8 C) (270.8 C)		ABN:	98 636 852 025	ANZSIC code: 0	Licence no.: n/a
Pickup Cnr Lho	tsky St & Florey D	r, Charnwood ACT			And And Indiana and Association and Association (Association)
details:		160			
WASTE					
Waste code:	N220 - Asbe	stos			
Description:	Asbestos				
Form:	Solid		Liquid waste levy ap	plies: No	
Proposed treatm	ent: Landfill		Classification: Ge	neral solid (non-putreso	tible)
Contaminants:	N/A				87
Dangerous good	s class: N/A		Subsidiary risk class	s: N/A t	JN no.: N/A
Packaging type:			Packing group no:		No. package: N/A
				1200.2	
PICKUP					
Waste amount at	pickup:		(required - Yes)		_ 467
			above information is tr	ue and correct.	
Name and Position	on (Block letters)				
3.0.0.0					
PART 2 - TRANSF	PORTER (this part	to be completed by the	ne transporter at pickup	o)	
BULK TRANSPO	RT SOLUTIONS		994		
CAMBAE THE HE				20000	
6A/1345 THE HU	RSLEY DRIVE	Contact:		Email: N/A	
	RSLEY DRIVE RK. NSW 2164	Contact: Phone:	(13) 0033 7477 Fax	Email: N/A	Transit state: N/A
WETHERILL PAR		Phone:		c: N/A	
WETHERILL PAR	RK, NSW 2164	Phone: Licence r	no.: 13340 Vel	c: N/A nicle reg: TBA	Transit state: N/A Transport type: Road
WETHERILL PAR	RK, NSW 2164 ne best of my know	Phone: Licence r vledge and belief the	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
WETHERILL PAR I declare that to the Name and Position	RK, NSW 2164 ne best of my know on (Block letters)	Phone: Licence r vledge and belief the	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
WETHERILL PAR I declare that to the Name and Position	RK, NSW 2164 ne best of my know on (Block letters)	Phone: Licence r vledge and belief the	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters)	Phone: Licence r vledge and belief the	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters)	Phone: Licence r wledge and belief the	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this population)	Phone: Licence r wledge and belief the s part to be complete	no.: 13340 Vel above information is tr	c: N/A nicle reg: TBA ue and correct.	Transport type: Road
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this opposed in the company of the company	Phone: Licence r wledge and belief the s part to be complete	above information is tr Date	c: N/A nicle reg: TBA ue and correct. ity) Email:	Transport type: Road
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this opposed in the company of the company	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone:	Date Date (02) 9841 2926	ity) Email: Fax: (02) 9841	Transport type: Road @veoliaes.com.au 2995
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this population)	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r	Date	e: N/A nicle reg: TBA ue and correct. (ity) Email: Fax: (02) 9841 Receiving facility	@veoliaes.com.au
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this opposed to be compared	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone:	Date	e: N/A nicle reg: TBA ue and correct. (ity) Email: Fax: (02) 9841 Receiving facility	Transport type: Road @veoliaes.com.au 2995
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this population of the control of the cont	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au 2995 ref no.: N/A
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this CODLAWN LANDED) 2580 arrival:	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this CODLAWN LANDED) 2580 arrival:	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au 2995 ref no.: N/A
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this population of the population	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au 2995 ref no.: N/A
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this population of the population	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au 2995 ref no.: N/ATreatment:
I declare that to the Name and Position Signature	RK, NSW 2164 ne best of my known (Block letters) ING FACILITY (this operation) arrival:	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	Transport type: Road @veoliaes.com.au 2995 ref no.: N/ATreatment:
I declare that to the Name and Position Signature	RK, NSW 2164 The best of my known (Block letters) TING FACILITY (this population) (PS80) THE WASTE of facility accepted to gracility rejected to ejection:	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility:	@veoliaes.com.au 2995 ref no.: N/A Treatment:
I declare that to the Name and Position Signature	RK, NSW 2164 The best of my known (Block letters) THE FACILITY (this property) TODLAWN LANDED TOT THE WASTE To facility accepted to gracility rejected to gracility rej	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce he waste (complete se	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility: te Processed: ue and correct - complete	Transport type: Road @veoliaes.com.au 2995 ref no.: N/A Treatment:
I declare that to the Name and Position Signature	RK, NSW 2164 The best of my known (Block letters) THE FACILITY (this property) TODLAWN LANDED TOT THE WASTE To facility accepted to a facility rejected	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce he waste (complete se	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility: te Processed:	Transport type: Road @veoliaes.com.au 2995 ref no.: N/ATreatment:
I declare that to the Name and Position Signature	RK, NSW 2164 The best of my known (Block letters) THE FACILITY (this property) TODLAWN LANDED TOT THE WASTE To facility accepted to a facility rejected	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce he waste (complete se	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility: te Processed:	Transport type: Road @veoliaes.com.au 2995 ref no.: N/A Treatment:
I declare that to the Name and Position Signature	RK, NSW 2164 The best of my known (Block letters) The FACILITY (this population of the populatio	Phone: Licence r wledge and belief the s part to be complete FILL Contact: Phone: Licence r the waste - Date acce he waste (complete se	Date	Email: Fax: (02) 9841 Receiving facility ed at the facility: te Processed:	Transport type: Road @veoliaes.com.au 2995 ref no.: N/A Treatment:

NOTE: The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") requires that an approved transport certificate accompany certain wastes when transported into, out of or within NSW. This transport certificate is in the approved form and meets the requirements of the Regulation provided that:

(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;

(a) the consignor certifies, by signing this certificate, that the information in Part 1 of the certificate is correct;
(b) the transporter certifies, by signing the certificate, that the information in Part 2 of the certificate is correct; and
(c) the receiving facility (receiver) certifies, by signing this certificate, that the information in Part 3 of the certificate is correct; and
(d) the receiving facility records any discrepancies between the waste received and the information recorded on this certificate in the EPA online waste tracking system.
If any of the information in Parts 1 and 2 of the certificate is not correct and it is not practical at the time to change the information in the EPA online tracking system and print a new version of the certificate, the consignor or transporter must write and initial any corrections on the certificate. The receiving facility must ensure these corrections are entered into the EPA online system as soon as is practicable afterwards.

The receiving facility must retain this certificate for four years.



End TC No.: 2T00567061

Bulk printing for Transport Certificate

- End -



Storage Tank Destruction Certificate

Enviropacific Services Pty Ltd hereby confirm that the following storage tank has been appropriately destroyed in accordance with AS 4976-2008 The removal and disposal of underground petroleum storage tanks.

Storage tank type	Above ground 🔲 Under ground 🗷
Tank reference number	UST 3 - Petrol.
Tank size (litres)	10,000
Site address/location of storage tank removed	Former West Belconner fire Station, Charnwood ACT

Enviropacific Services Pty Ltd hereby releases <u>J.C.S.D.A&COM</u> from any loss, damage, expenses or costs incurred and hereby indemnify <u>J.C.S.D.A&COM</u> against any actions, suits, proceedings, claims or demands whatsoever which any third party might claim against <u>J.C.S.D.A&COM</u> in respect of any loss, damage, expenses or costs arising out of or connected in any way whatsoever with the above mentioned storage tank.

Name	- 11
Signature	
Date	27-8-14







Storage Tank Destruction Certificate

Enviropacific Services Pty Ltd hereby confirm that the following storage tank has been appropriately destroyed in accordance with AS 4976-2008 The removal and disposal of underground petroleum storage tanks.

Storage tank type	Above ground Under ground
Tank reference number	UST 1 Haring oil
Tank size (litres)	4500·L
Site address/location of storage tank removed	Former Was West Belunnen Fire station, Chamwood ACT

Enviropacific Services Pty Ltd hereby releases J.C.S.) ASCOM from any loss, damage, expenses or costs incurred and hereby indemnify JC.S.) ASCOM against any actions, suits, proceedings, claims or demands whatsoever which any third party might claim against J.C.S.) ASCOM in respect of any loss, damage, expenses or costs arising out of or connected in any way whatsoever with the above mentioned storage tank.

30			-1	
Name			111	
Signatu	re	7	•	
Date	27	-81_	14	





Storage Tank Destruction Certificate

Enviropacific Services Pty Ltd hereby confirm that the following storage tank has been appropriately destroyed in accordance with AS 4976-2008 The removal and disposal of underground petroleum storage tanks.

Storage tank type	Above ground Under ground
Tank reference number	UST 2 - Diesel
Tank size (litres)	10000 L.
	Former West Belcomen Fire
Site address/location of storage tank removed	Station, Chambood Act

Enviropacific Services Pty Ltd hereby releases $\underbrace{J.C.S.D.A\&coM}$ from any loss, damage, expenses or costs incurred and hereby indemnify $\underbrace{J.C.S.D.A\&coM}$ against any actions, suits, proceedings, claims or demands whatsoever which any third party might claim against $\underbrace{J.C.S.D.A\&coM}$ in respect of any loss, damage, expenses or costs arising out of or connected in any way whatsoever with the above mentioned storage tank.

Name	11.	1	
Signature	7-8-16	 L	
Date	1- 101	1	







Horsley Park Waste Management Facility

A.B.N. 73 068 567 371

716 - 736 Wallgrove Road, Horsley Park NSW 2175

Date:

10/09/2014

Waste Facility	Date	Time	Rego #	Docket #	Customer #	Customer Name	Waste Description	Tonnes
W-2WOOLAN	10.09.2014	15:56:27	DIV033	121855662	20058707	Bulk Transport - Charnwood	Contaminated Soil (GSW)	34.44
W-2WOOLAN	10.09.2014	15:59:42	DIV032	121855663	20058707	Bulk Transport - Charnwood	Contaminated Soil (GSW)	35.62
						Bulk Transport - Charnwood		70.06



PO Box 42 Washworthville NSW 2145



	Telephone: (02) 9033 5070 Facsimile: (02) 9033 5295	DELIVERY
Customer: Customer Number:	ENVIROPACIFIC SERVICES PTV ITD 600121-129967	DOCKET
Order No:	t yuarusa	No: HA326488 Date: Time: Batched:
Deliver to:	Job St 1930 Co. C. Dist. Truck Map Ref	est protect à
Product:	UNPROCESSED UNSPECIFIED SIZE SELECT FILE	WARNING: Freshly mixed cement, mortar, concrete or grout may cause skir injury. Avoid contact with the eyes and skin. Wash exposed skir areas thoroughly with water immediately. If any cement mixture gets into eyes, rinse with water continuously for 10 minutes and get prompt medical treatment. Wear suitable protective clothing
Product Number: Quantity:	Progress Ordered Job Today This Load	and gloves. Dust generated by drilling, sawing or chasing hardened concret or handling, storage and placement of quarry products may contain crystalline silica, which can cause lung disease. Avoid breathing in dust and use adequate dust prevention and extraction methods. Wear suitable protective clothing, gloves, safety goggles and a dust mask that conforms to Australian Standards if dust gets into the eyes, rinse with water continuously for 10 causes.
dditives/Extras:	Gross: 48.7 Iaro-15.7 Not-32 TM	minutes. If dust is inhaled, move immediately to fresh air and seek prompt medical advice. Contact Boral for more information and a Material Safety Data Sheet.
- 42		
U		
On Site:	Time on Site Site Time Off Time Added Litres Tests Additives	
Customer	Return Cartage Metres	Cash Collected
Signature:	Customer accepts the product and the on-site adjustments as documented on this docket, subject to the conditions of sale overleaf.	D D
Driver Instructions:	poly config. 100 for f	



PO Box 42 Wentworthville NSW 2145 Telephone: (02) 9033 5070



	Facsimile: (02) 9033 5295	GELIVERY
Customer: Customer Number:	INVIROPACIFIC SERVICES PTV 1TD 600121-129967	DOCKET
Order No:	1. A fection state 1	Date: Time:
Deliver to:	Under the state of	
	Job Dist. Truck Map Ref	saily controlled or com-
Product:		WARNING: Freshly mixed cement, mortar, concrete or grout may cause st
Spec: Product Number:	UNPROCESSED UNSPECIFIED SIZE SELECT FILL	injury. Avoid contact with the eyes and skin. Wash exposed si areas thoroughly with water immediately. If any cement mixtu- gets into eyes, rinse with water continuously for 10 minutes a get prompt medical treatment. Wear suitable protective clothi and gloves. Dust generated by drilling, sawing or chasing hardened concre- or handling, storage and placement of quarry products m
Quantity:	Progress	contain crystalline silica, which can cause lung disease. Avenue breathing in dust and use adequate dust prevention and extractions.
	Ordered Job Today This Load	methods. Wear suitable protective clothing, gloves, saf- goggles and a dust mask that conforms to Australian Standar if dust gets into the eyes, rinse with water continuously for
	and the second control of the second control of	minutes. If dust is inhaled, move immediately to fresh air a seek prompt medical advice.
		Contact Boral for more information and a Material Safety De
ives/Extras:	Gross:48.7 Tare:16.7 Net:32 TN	Sheet.
On Site:	Time on Site Site Time Waiting Time Water Tests	Sheet.
	Time on Site Time off Waiting Cust Intials Time of Time off Time	Sheet.
	Time on Site Site Waiting Time Water Added Litres	Sheet.
On Site:	Time on Site Time off Waiting Time Water Added Litres Tests Additives	Cash Collected \$
On Site:	Time on Site Time off Waiting Time Water Added Litres Tests Additives	Cash Collected \$



PO Box 42 Wentworthville NSW 2145





	Telephone: (02) 9033 5070 Facsimie: (02) 9033 5295	OFFIAESA
Customer: Customer Number:	ENVIROPACTIFIC SERVICES PTY LTD 600121-129967	110 CK E. I
Order No:	F THOMAS IN	No: HA326472 Date: Time: Batched:
Deliver to:	Job Dist. Truck Map Ref	nell numbery - ally retrinede of com.
Product: Spec: Product Number:	UNPROCESSED UNSPECIFIED SIZE SELECT FILL	WARNING: Freshly mixed cement, mortar, concrete or grout may cause s injury. Avoid contact with the eyes and skin. Wash exposed s areas thoroughly with water immediately. If any cement mixtugets into eyes, rinse with water continuously for 10 minutes a get prompt medical treatment. Wear suitable protective clothi and gloves. Dust generated by drilling, sawing or chasing hardened concror handling, storage and placement of quarry products may be a suitable products of the concrosion of the concrete of the concr
Quantity:	Ordered Job Today This Load Gross: 48.7 large: 16.7 Net: 32 IN	contain crystalline silica, which can cause lung disease. Aver breathing in dust and use adequate dust prevention and extract methods. Wear suitable protective clothing, gloves, saf goggles and a dust mask that conforms to Australian Standar If dust gets into the eyes, rinse with water continuously for minutes. If dust is inhaled, move immediately to fresh air a seek prompt medical advice. Contact Boral for more information and a Material Safety D Sheet.
On Site:	Time on Site Time off Time Maiting Time Mater Added Litres Tests Additives Return Cartage Metres	
Customer Signature:	Customer accepts the product and the on-site adjustments as documented on this docke	Cash Collected \$
Driver Instructions:	subject to the conditions of sale overleaf.	Prev. Docket:







Customer:	Facsimile: (02) 9033 5295	DELIVERY
Customer Number:	ENVIROPACIFIC SERVICES PTY LTD 600121-129967	No: TTA DOCA O A
Order No:	4: (3) (0) (0)	Date: Time: Batched:
Deliver to:	CONTRACTOR AND	100000000000000000000000000000000000000
	Job Dist. Truck Map Ref	The state of the s
Product:	with Parties on Vistain	WARNING:
Spec: Product	UNPROCESSED UNSPECIFIED SIZE SELECT FILE	Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with the eyes and skin. Wash exposed skin areas thoroughly with water immediately. If any cement mixture gets into eyes, rinse with water continuously for 10 minutes and get prompt medical treatment. Wear suitable protective clothing and gloves. Dust generated by drilling, sawing or chasing hardened concrete
Number: Quantity:		or handling, storage and placement of quarry products may contain crystalline silica, which can cause lung disease. Avoid breathing in dust and use adequate dust prevention and extraction
Quantity.	Ordered Job Today This Load	methods. Wear suitable protective clothing, gloves, safety goggles and a dust mask that conforms to Australian Standards. If dust gets into the eyes, rinse with water continuously for 10 minutes. If dust is inhaled, move immediately to fresh air and seek prompt medical advice.
tives/Extras:	Gress:48.7 [are:16.7 Net:32 TN	Contact Boral for more information and a Material Safety Data Sheet.
On Site:	Time on Site Time off Time Waiting Time Water Added Litres	
On Site:	Time on Site Time off Site Time Time Added Litres Tests Additives	
On Site:	Time on Site Time off Site Time Time Maiting Time Water Added Litres	
On Site: Customer Signature:	Time on Site Time off Site Time Time Matting Time Added Litres Tests Additives Return Cartage Metres	Cash Collected \$
Customer Signature:	Time off Site Time Waiting Time Water Added Litres Tests Additives Return Cartage Metres Metres	\$
Customer	Time off Site Time Waiting Time Water Added Litres Tests Additives Return Cartage Metres Metres Customer accepts the product and the on-site adjustments as documented on this docket.	Prev Docket:

PROFITE THE SOURCE TALK ACOUNTY Social Destination in Site Frank Content of Source C	PROJECT: CL	PROJECT: Charawad.				JOB No:	: ET	4438	9	DATE:			Ma	Material Type	61				
Date: 2 5 MW o. Ett. Tornage Seating Account of Concert Content Or Rivaria Assessing to each load Seating Account Or Seating A	PACI			Ron	1	130/a/		Destinati	on on Site	Prime.		end	-	VENM G	ENM	CONCRETE E	GRAVEL		ROADBASE
10. Est. Torongo warmon or the restriction of the r)	Date: 2						Material	S Classifica	tion / App	provals of	tained 🖪		ICRETE 🗆 CE	MENT []	FLYASH	ASHPALT	OTHER	
Exercised parameters 1 2 3 4 5 6 7 6 9 10 11 12 13 14 M.	UCK DETAILS		,						77	DAD TIME								TOTAL TONNA	SE ESTIMATE
YUFFOF 32. 4. 1001.11v0 1242257	Truck Rego.	Est. Tonnage for each load							9	7	80	6	10	11	77	a		N	
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	-																		
	5																		
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	-																		
		7.									-								

NSW Environment Protection Authority - Online Waste Tracking System Consignment Authorisation - No. 2C00089276

Created by: JOANNE HELMS, 10-Sep-2014 1:58 pm Status: Current

Note: This consignment authorisation has been issued using the NSW Environment Protection Authority (EPA)'s online waste tracking system. The Protection of the Environment Operations (Waste) Regulation 2005 ("the Regulation") places obligations on the consignor, transporter and receiving facility with respect to the transport of waste under this consignment authorisation. This consignment authorisation may be revoked in accordance with the provisions of the Regulation.

SECTION A

Details in this section form part of the legal requirements of the consignment authorisation and cannot be varied except by the EPA to correct errors. If you identify any errors in this section, please advise the EPA.

CA start date:	10-Sep-2014	CA end date:	9-Sep-2015	
Consignor:	Capital Works & Infrastructure 180 London Circuit Canberra City, ACT 2601	Role: ABN: ANZSIC code: Licence no.:	Producer 98 636 852 025 0 n/a	
Pickup Cnr Lho details:	sky St & Florey Dr, Chamwood ACT		*	*
Waste code:	N220 - Asbestos		X	*
Receiving Facilit	y: VEOLIA ES - WOODLAWN LANDFILL COLLECTOR RD TARAGO, NSW 2580	Licence no.:	11436	

SECTION B

Details in this section are not part of the legal requirements of the consignment authorisation. They are default values which are automatically entered onto transport certificates created using this consignment authorisation. These details can be varied by the entity which issued the consignment authorisation or by the EPA.

Consignor:	Contact:		Phone: Fax: Emergency: Email:	(02) 6205 3086 N/A (02) 6205 3086 N/A	
Waste:	Description:	Asbestos		I No.	014 max N/A
	Form: Classification:	Solid Solid (non-putres.)	Proposed tre	levy applies: No atment: Landfill	SIA no.: N/A
	Dangerous goods		Subsidiary ri		UN no.: N/A
	Packaging type:	N/A	Packing grou		
	Contaminants:	N/A			
Transport:	Type: Road		Proposed delivery period: 5 day(s)		
	Waste amount pic	ked up must be recorded: Ye	es		
Receiving facility	Contact:		Phone: (0	02) 9841 2926	
		38	Fax: (0	02) 9841 2995	
	4		Email:	@veoliaer	
	Receiving facility r	ef no.: N/A			
Note:	Bulk Transport Cha	rnwood - Contaminated Soil -	Not containing	Asbestos	

Former West Belconnen Fire Station UPSS Validation Report – Former West Belconnen Fire Station, Belconnen, ACT Commercial-in-Confidence

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Appendix E

Calibration Records

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RENTALS

MINIDAE 2000 DID

alibration	Actual Value	Reading	Pass?			
ero – fresh air	0.0 ppm	O.O ppm				
pan - Isobutylene	10.3 ppm	103 ppm	0			
et Alarm limits to	High	100 ppm	Low	50	ppm	
perations Check						
Performance Check (oump, lamp, sensor & ba	attery voltage chec	k)			
Battery Charged	Filters Check	Spare batte	ery Voltage (5	.5v minimun	1) 5. 6	٧,
Electrical Safety Tag a 3760) Bump test / Date	attached (AS/NZS Ta	ag No: TFR	22.0	Valid to:3	0/09	1/20
Calibration gas traceability inform						
ate: 26/08	2/2014 ch	necke				
igned:		A				-
sturn. A minimum \$20 desems not returned will be b	Item MiniRae 3000 PID / C Lamp Voltage @ / L Protective yellow rub Inlet probe (attached	Operational Check, beV Compound ber boot	olus Battery \	Voltage @ /	por/s	,
ems not returned will be b	Item MiniRae 3000 PID / C Lamp Voltage @ / C Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batter	Operational Check, Lev Compound ber boot to PID) vr(s) Qty / 500mA ehind foam on the I berind foam on the I compartment with	plus Battery Set to: (SOB)	Voltage @ /	por/s	,
Sent Returned Returned	Item MiniRae 3000 PID / C Lamp Voltage @ Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batter Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, heV Compound ber boot to PID) / 500mA ehind foam on the lehind foam on the ry Compartment wiffilter Guide Lamina & tubing (optional)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
ems not returned will be b	Item MiniRae 3000 PID / C Lamp Voltage @ Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batter Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, heV Compound ber boot to PID) / 500mA ehind foam on the lehind foam on the ry Compartment wiffilter Guide Lamina & tubing (optional)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
Sent Returned Returned Processors Signature/ In	Item MiniRae 3000 PID / C Lamp Voltage @ Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batte Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, heV Compound ber boot to PID) / 500mA ehind foam on the lehind foam on the ry Compartment wiffilter Guide Lamina & tubing (optional)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
Sent Returned Returned Processors Signature/ In	Item MiniRae 3000 PID / C Lamp Voltage @ Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batte Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, Lev Compound ber boot to PID) / 500mA ehind foam on the I rehind foam on the ry Compartment wifilter Guide Lamina & tubing (optional) ectrical safety (tag more)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
Processors Signature/ In Quote Reference Customer Ref	Item MiniRae 3000 PID / C Lamp Voltage @ Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batte Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, Lev Compound ber boot to PID) / 500mA ehind foam on the I rehind foam on the ry Compartment wifilter Guide Lamina & tubing (optional) ectrical safety (tag more)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
Processors Signature/ In Quote Reference Customer Ref	Item MiniRae 3000 PID / C Lamp Voltage @ / L Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batte Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele initials // S CSOC 12 49 Co	Operational Check, Lev Compound ber boot to PID) / 500mA ehind foam on the I rehind foam on the ry Compartment wifilter Guide Lamina & tubing (optional) ectrical safety (tag more)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,
Processors Signature/ In Quote Reference Customer Ref	Item MiniRae 3000 PID / G Lamp Voltage @ / G Protective yellow rub Inlet probe (attached Spare water trap filte Charger 240V to 12V Instruction Manual be Quick Guide Sheet b Spare Alkaline Batte Inline Moisture trap F Calibration regulator Carry Case Check to confirm ele	Operational Check, Lev Compound ber boot to PID) / 500mA ehind foam on the I rehind foam on the ry Compartment wifilter Guide Lamina & tubing (optional) ectrical safety (tag more)	plus Battery Set to: (SOB) id of case id of case th batteries ted	Voltage @ /	por/s	,

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Appendix F

Sampling Forms

16;#Australia New Zealand|a541b326-6e42-45fc-a7d5-d797f3cb72ce

Site Contamination Analysis PID Screening Register

Q4AN(EV)-336-FM14

Job No.:	60316172	Site:	ESA Charnwood
Personnel:		Date:	27/08/2014

Sample Location	Sample Depth	Hand or Bag Test H/B	PID Reading (ppm)	Visual Contamination (Y:N)	Odour (Y:N)	Other Comments / Observations
51		B	71.3	N	Y	ternoet poorly gended, durk brown, angestar wet
						medium dense, traces of stones
52		B	103.6	N	Y	Gravel, poorly graded, dark bran mittled orange and
						dry, subangular, 100se.
53		В	63.7	N	Y	Clay, sity clay dark brown, mothled wange + whi
						(Cb), medium plasticity, bricks of rock. Dry, lott.
54		B	144.3	N	Y	Clay, sitty clay, dark from , nottled orange + ms
						(CL), medium planticity, trace it rock. Most, for
55		13	524.8	N THOUS	Y (Strong)	As above No white perso Trace of ibres M
56		В	24.5	N	留丫	Not hatter Chy (CH), light hown, high platerty, firm
						Not Mitter Chy (CH), light hown, high platerty firm
57		ß	90.2	N	Y	Grand, vilty gravel, down boan, subangular
						mout, traces of itores, loose.
58		B	69-4	N	Y	travel, sitty gravel, dark hom, subangular,
						meit, tendo of Ibnis, loose

(Q(1)

16;#Australia New Zealand|a541b326-6e42-45fc-a7d5-d797f3cb72ce

Site Contamination Analysis PID Screening Register

Q4AN(EV)-336-FM14

Job No.:	603/6/72	Site:	ESA Charnwood
Personnel:		Date:	27/8/2014

(262)

Sample Location	Sample Depth	Hand or Bag Test H/B	PID Reading (ppm)	Visual Contamination (Y:N)	Odour (Y:N)	Other Comments / Observations
59		В	12.4	N	Y	As above. Bost it Moist.
\$10		В	19.1	N	RY	Silty clay, dwell brown, medin
511		В	3.4	N	N	As above
512		ß	80.7	N	Y	SANTA SIO AS MOOVE.
513		В	47.8	N	Y	Same as St. Land Root matter.
514		B	78.9	N	Y	5 nm 1 n 1 58 1 m
515		1300	116.0	N	Y	Same 111 St
516		В	73.2	W	Y	SAME A. 52.

16;#Australia New Zealand|a541b326-6e42-45fc-a7d5-d797f3cb72ce

Site Contamination Analysis PID Screening Register

Q4AN(EV)-336-FM14

Job No.: 603/6/72 Site: ESA Charnwool

Personnel: 27/08/2014

Sample Location	Sample Depth	Hand or Bag Test H/B	PID Reading (ppm)	Visual Contamination (Y:N)	Odour (Y:N)	Other Comments / Observations
517		В	160.3	N	Y	As about
518		В	39.4	N	Y	Same as S4 hat with root natter
SPI		В	171.5	N	Y	Sand (topsoil), dark brown, very loose, grun plant matter military roots, dry, no
SPZ		В	123.1	N	Y	SAME AS SI
5P3		ß	121.4	N	Y	Same as 52
504		В	680.1	N	Y (Strong)	Same as SIR.
5P5		ß	354.2	N	Y	Same as SIZ.
5P6		В	165.8	N	Y	Silt (ML), dark brown, moist, soft, tracisos

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Site Contamination Analysis PID Screening Register

Q4AN(EV)-336-FM14

Job No.:	60316172	Site:	ESA Charnwood
Personnel:	The state of the s	Date:	27/08/2014
	,		-1/0/014

Sample Location	Sample Depth	Hand or Bag Test H/B	PID Reading (ppm)	Visual Contamination (Y:N)	Odour (Y:N)	Other Comments / Observations
SP7		В	197.3	N	Y	Same as SP5
588		В	13.3	N	Y	Same as SP5.
SPin		В	39.8	N	Y	Same as 12 but wet
SPio		B	211.3	N	Y	A1 nbove
SPil		В	86.8	N	Y	As above.

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Appendix G

Site Photographs

PHOTOGRAPHIC LOG

Site Name: Former West Belconnen Fire Station

Site Location: Belconnen, ACT

Project No: 60316172

Plate No.

Date: 26 August 14

Direction Photo Taken:

North

Description:

Exposed tank pits



Plate No.

Date: 26 August 14

Direction Photo Taken:

South west

Description:

Stockpile location and skip bin in courtyard



Date. 26 August 14 `ake Plate No. 3

Direction Photo Taken:

South east

Description:

Purged tanks



Plate No. Date: 27 4 August 14

Direction Photo Taken:

North

Description:

Excavator assisting with taking validation samples



Plate No. Date: 5 27 August 14

Direction Photo Taken:

South west

Description:

Stockpiles



Plate No. Date: 27
August 14

Direction Photo Taken:

North

Description:

Fire Station Building.

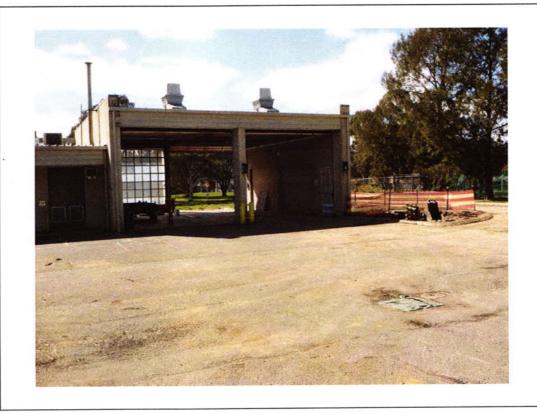


Plate No. Date: 25
September 14

Direction Photo Taken:

South

Description:

Backfill material imported to site.



Plate No.

Date: 25 September 14

Direction Photo Taken:

North

Description:

Compaction roller. Material compacted in 300 mm layers

