

José Ferreira **BDW South Wales** Oak House Village Way Tongwynlais Cardiff **CF15 7NE**

> Date: 10th February 2020 Our ref: 200210 0607_jf_jf

Your ref:

Dear José,

Re: Supplementary investigation and assessment of areas of potential made ground - Lower Lane, Coleford.

Following instruction by BDW South Wales, this report presents the results of a supplementary investigation and risk assessment to evaluate the significance to human health of shallow reworked topsoil/made ground at the proposed residential development known as Lower Lane, Coleford - 'the site'. A site location plan is included in Appendix A.

Background and Context

The site occupies a roughly rectangular shaped land parcel spread across 5N° interconnected agricultural fields of an area of approximately 10.85 hectares (ha). Mature hedgerows were noted to form boundaries between the separate fields. The site extends approximately 150m from north to south and 700m east to west.

Information presented to T&P Regeneration Ltd (T&P) indicates that the proposed development is intended to comprise the construction of approximately 180N° traditional two storey residential dwellings with associated areas of communal and private soft landscaping with hard landscaped access and parking.

Previous ground investigations undertaken by Opus International Consultants (Opus) in 2015¹, revealed the presence of shallow made ground/ reworked topsoil within 4N° trial holes completed as part of their investigation. Chemical analysis was only completed on samples recovered from TP12 which revealed elevated arsenic concentrations above human health assessment criteria. Samples from TP6, TP8 and TP10 where reworked topsoil was identified were not chemically analysed.











¹ Consolidated Geo-Environmental Report (Phase 1 and 2) Ref: J-D1670.00_R4_JO May 2015



T&P Regeneration completed a supplementary investigation² in the vicinity of TP12 that included bio-accessibility testing and detailed qualitative risk assessment (DQRA). The supplementary assessment determined the made ground/reworked topsoil in the area of TP12 does not present an unacceptable risk to human health and further remedial work is unnecessary.

The purpose of this assessment has been to examine the soils previously identified by Opus within TP6, TP8 and TP10 to ensure they are fit for the intended residential setting and do not pose potential risks to human health receptors.

Summary of Works

A supplementary intrusive ground investigation was undertaken on the 16th January 2020, which comprised the excavation of 12N° hand excavated trial pits to approximate depths of 0.5mbgl and the recovery of soil samples. The trial pits were located adjacent to the co-ordinates upon the original Opus trial pits logs.

Representative soil samples were submitted to the UKAS accredited Environmental Laboratory for analysis. A copy of chemical results is included within Appendix C.

Table 1 Summary of Chemical Testing

Test type	Notes	Quantity
Soils		
Arsenic, Boron, Cadmium, Chromium, Lead, Mercury, Nickel, Copper, Zinc, Selenium, Phenols and US EPA 16 Polycyclic Aromatic Hydrocarbons.	-	3 soils

Summary of Ground Conditions

Reworked topsoil was encountered from surface level within the excavated pits. HD301 was excavated adjacent to TP10 and found the topsoil to comprise dark brown silty sand with occasional gravel of pottery to a depth of 0.25m, below which natural subsoils were considered to have been encountered. HD301A – HD301C also excavated in the area of TP10 recorded similar reworking of the topsoil.

HD302 excavated adjacent to TP8 recorded reworking of the topsoil and noted the inclusion of pottery fragments. Topsoil was found to be broadly 0.40m in thickness in this area and underlain by natural ground.

The topsoil in the area of TP06 was noted to include carbonaceous traces as well as occasional pottery fragments. The reworked topsoil in this area was found to be approximately 0.35m in thickness. The underlying natural ground was noted to comprise orangish brown silty sand. The exploratory hole logs are included within Appendix B. Groundwater was not encountered within the excavations.















² T&P Regeneration Ltd Ref: 181218_COL2193_jf_mb December 2018



Human Health Risk Assessment

Introduction

A human health generic quantitative risk assessment (GQRA) has been undertaken in accordance with the UK regulatory framework and current guidance on assessment of risks presented by land affected by contamination³.

Screening assessment

For the purposes of investigation and assessment a site can be divided into zones based on historical uses or proposed end use. These zones can be further divided into averaging areas, which can be used to assess different soil types or different potential exposure pathways etc. for the purposes of risk evaluation. Each averaging area can be considered independently for human health exposure assessment.

Based upon the discrete locations of the reworked topsoil each area will be evaluated separately and against the adopted screening level⁴ for a 'residential with consumption of home-grown produce' end use.

A review of soil data has not identified any contaminants soil concentrations to be elevated against adopted human health screening levels for a 'residential with homegrown produce' end use.

In consideration of the outcome of the generic quantitative risk assessment, it is concluded that there are no unacceptable risks presented to human health associated with on-site soils via direct contact/ingestion/inhalation pathways.

Conclusions

On the basis of the above, it is concluded that the reworked topsoil does not present potentially unacceptable risks to human health. No remedial action is therefore considered necessary and the soils are considered to be chemically suitable for the intended residential end use.

It is however recommended that vigilance should be employed by the groundworks contractor during the future site works in the event that unexpected/significant made ground is encountered. In this scenario advice from a specialist geoenvironmental consultancy should be sought.











³ Environmental Protection Act 1990. Contaminated Land Statutory Guidance (April 2012). CLR11 – Model procedures for the management of land contamination. DEFRA/Environment Agency. 2004.

⁴ The LQM/CIEH S4ULs for Human Health Risk Assessment. 2015. SP1010 – Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. CL:AIRE. 2013.



Should you have any queries or comments with respect to the above, then please do not hesitate to contact us. Otherwise, we recommend that this letter report be sent to the local planning authority for review and approval.

Yours sincerely,

John Flannery

On behalf of T&P Regeneration Ltd

Appendix A: **Drawings** Appendix B: Trial hole logs

Appendix C: Laboratory test results.













APPENDIX A Drawings

T&P Regeneration Ltd















APPENDIX B Exploratory hole logs

T&P Regeneration Ltd











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							Depth o	encountered (m)	Remark	KS .		
							T&P	Regeneration TP Templa	ate Issue Number: 1	Issue	Date: Jun	e 2016

TOD		\	Contract Name:				Client:	DD144.0 11		Trial P	it ID:	
T&P					Hill, Cole		I d Duu	BDW South			HD302	PC
	Regen		Contract Number		ate Starte	ed: 1/2020	Logged By:	Checked By: JF	Status: DRAFT			. •
www.tandpre	egenerati		Easting:		orthing:	72020	Ground Level:	Plant Used:	Print Date:	Sheet Scale:		
Trial	Pit Lo	g	357525.95			90.03	224.52mOD	Hand tools	10/02/2020	Scale.	1:25	
Weather: Ra	inina		00.020.00				luled depth reached	Stability	1		0	
		ln Situ Tes	ting	1.	Jiiiiiia a	511. GG11GG	Strata D		•			
	Sample ID		est Result	Level	Depth (m) (Thickness)	Legend		Strata Description			Water	Backfill
<u> </u>				(mAOD)	(Inickness)		Dark brown gravelly silt		angular to subrounded	Į.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
0.15 - 0.25	D1						fine to medium of sand: (TOPSOIL)	stone.	· ·	-		
					(0.40)		(TOPSOIL)			-		
-				224.12	0.40					{		
							Brown mottled orangish subangular fine to coars	n brown slightly silty gra se of sandstone.	avelly SAND. Gravel is	-		
				223.97	0.55		(COLEFORD MEMBER	R) End of Trial Pit at 0.55	m	_{{-}}		
								Life of main it at 0.55	11	-		
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Sample Key:	B = Bul	lk Disturbed	D = Small Dis	turbed	U = Un	disturbed O			Environmental Soil EV	V = Envir	onmental	Water
Remarks:							Dimen					
							Le	ngth: 0.20m	Orientat	ion: °		
							V	Vidth: 0.20m	◀		•	
							Dar#	encountered (m)	Groundwater Details	' 6		
							Depth	encountered (m)	Remark	v.S		
							T&P	Regeneration TP Templa	te Issue Number: 1	Issue	Date: Jun	e 2016

TOD		/	Contract Name:				Clie	nt:	DDW		A	Tria	l Pit ID:	
T&P			Contract Number	-	Hill, Cole		Logged By:	Cr	BDW S	outn \	Status:		HD3	03
	Regen		CS-J-063			/2020	Logged By:	Cr	JF		DRAFT			-
www.tandpro			Easting:		orthing:	, 2020	Ground Level:	PI	ant Used:		Print Date:	She Sca	et 1 of 1 le:	
Trial	Pit Lo	g	357585.63			48.19	224.42mC		Hand too	ols	10/02/2020		1:2	5
Weather: Ra	aining		<u> </u>				luled depth read		s	tability				
		In Situ Tes	ting					Strata Detai						
Depth	Sample ID	Te	est Result	Level (mAOD)	Depth (m) (Thickness)	Legend			Strata Descr	ription			Wate	r Backfill
0.15 - 0.25	D1			224.07 223.92	(0.35) 0.35 0.50		Dark brown sligh carbonaceous tramedium of sands (REWORKED TO Orangish brown subrounded fine (COLEFORD ME	aces. Gravestone and OPSOIL) silty SANE to coarse EMBER)	vel is subang occasional p	gular to soottery. ional grae.	subrounded firm to avel. Gravel is		1	
												- - - - - - - - - - - - - - - - - - -	2	
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Sample Key:	B = Bul	k Disturbed	D = Small Dis	turbed	U = Un	disturbed O	pen-Drive W =	= Water	G = Gas	ES =	Environmental Soil	EW = Ei	nvironment	al Water
Remarks:		5.0.000	_ C.Hall Did		5 011			Dimensio						
Excavated ad	jacent to	opus TP06	6.					Length	h: 0.20m		Ori	entation: °		\neg
								Width	h: 0.20m					
							-				Groundwater Detail	s		
								Depth enco	ountered (m)			emarks		
								T&P Red	generation TP	Template	e Issue Numbe	r: 1 lss	sue Date: J	une 2016

TOD		\	Contract Name:				Cli	ient:	5514.6			Trial Pi	t ID:	
T&P			Contract Number		Hill, Cole		Lagged Dv		BDW S	South \	Nales Status:		HD303	BA
	Regen		CS-J-063			/2020	Logged By:		JF		DRAFT			,, ,
www.tandpre	egeneration		Easting:		orthing:	72020	Ground Level		Plant Used:		Print Date:	Sheet Scale:	1 of 1	
Trial	Pit Lo	g	357589.58			49.50	224.41m		Hand to		10/02/2020	Codic.	1:25	
Weather: Ra	ainina						duled depth rea		S	stability				
		In Situ Tes	ting				<u> </u>	Strata D						
Depth	Sample ID	Т	est Result	Level (mAOD)	Depth (m) (Thickness)	Legend			Strata Desc	ription			Water	Backfill
				(IIIAOD)	(111101111000)	XXXXX	Dark brown slig	htly grav	velly to gravelly	silty SA	ND. Gravel is	-		XXXXX
0.15 - 0.25	D1				(0.35)		subangular to s	subround	led firm to medi	ium of s	andstone.	-		
•							(. 0. 00.2)					Ę.		
				224.06	0.35	× × ×	Orangish brown	n silty SA	AND with occas	ional gr	avel. Gravel is			
-				223.91	0.50	×: Sij×	subrounded fin		2)			Æ		Y///X///
									End of Trial Pit	at 0.50n	n			
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Sample Key:	B = Bul	k Disturbed	D = Small Dis	turbed	U = Un	disturbed O	pen-Drive W	= Water	G = Gas	ES =	Environmental Soil	EW = Envir	onmental \	Water
Remarks:								Dimens						
								Lei	ngth: 0.20m		Orier	ntation: °		
								W	/idth: 0.20m		_			
								Depth e	encountered (m)		Groundwater Details Rer	narks		
									(, , ,)		. (6)	<u> </u>		
I								T&P	Regeneration TP	' Template	e Issue Number:	1 Issue	Date: Jun	e 2016

TOD		\	Contract Name:				Clie	nt:	DD144.6			Trial Pi	t ID:	
T&P			Contract Number		Hill, Cole		Lagrad Du	10	BDW S Checked By:	South \	Nales Status:		HD303	BB.
	Regen		CS-J-063			/2020	Logged By:		JF		DRAFT			, ,
www.tandpre	egeneration		Easting:		orthing:	12020	Ground Level:		Plant Used:		Print Date:	Sheet Scale:	1 of 1	
Trial	Pit Lo	g	357583.79		_	44.40	224.35mC		Hand to		10/02/2020	ocale.	1:25	
Weather: Ra	ining			Te	erminatio	on: Sched	duled depth read	ched	s	stability	:			
		In Situ Tes	ting					Strata Det						
Depth	Sample ID	T	est Result	Level (mAOD)	Depth (m) (Thickness)	Legend			Strata Desci	ription			Water	Backfill
				(IIII (OB)	, ,	XXXXX	Dark brown sligh	itly grave	elly silty SAND). Grave	l is subangular to	-		XXX
0.15 - 0.25	D1				(0.35)		subrounded firm (TOPSOIL)	to mediu	um of sandsto	ne.				
				004.00	0.05							-		
				224.00		×××	Orangish brown subrounded fine	silty SAN	ND with occas	ional gr	avel. Gravel is			
-				223.85	0.50	A. A. A. A. A.	(COLEFORD ME	EMBER)						X///X////
ŀ								t	End of Trial Pit	at 0.50n	n	-		
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Sample Key:	B = Bul	k Disturbed	D = Small Dis	turbed	U = Un	disturbed O	pen-Drive W =	- Water	G = Gas	ES =	Environmental Soil	EW = Envir	onmental \	 Water
Remarks:				-				Dimensi						
								Leng	gth: 0.20m	_	Orie	ntation: °		\neg
								Wic	dth: 0.20m					
											Groundwater Details			
								Depth en	countered (m)		Ren	marks		
								T&P R	egeneration TP	Template	e Issue Number:	1 Issue	Date: Jun	e 2016

Regen Contract Number:						Client: BDW South Wales				Trial Pi	Trial Pit ID:			
		Berry Hill, Coleford Contract Number: Date Started:			Logged Dv	Checked By:	South \	Nales Status:	HD303C					
					Logged By: MC	JF		DRAFT						
www.tandpregeneration.co.uk CS-J-0635 Easting:				16/01/2020 Northing:		Ground Level:	Plant Used:		Print Date:	Sheet Scale:	1 of 1			
Trial Pit Log 357582.60					51.47	224.60mO[ols	10/02/2020	Coalc.	1:25			
Weather: Ra	ainina		<u> </u>		Termination: Scheduled depth reached Stability:									
		In Situ Tes	ting					rata Details						
Depth	Sample ID	Т	est Result	Level (mAOD)	Depth (m) (Thickness)	Legend		Strata Desc	cription			Water	Backfill	
				(IIIAOD)	(THICKICSS)		Dark brown slightly	gravelly to gravelly	silty SA	ND. Gravel is	-		XXXX	
0.15 - 0.25	D1				(0.35)		subangular to subr (TOPSOIL)	ounded firm to med	lium of s	andstone.	-			
							(10.00.2)				-			
				224.25	0.35	XXXX	Orangish brown sil	ty SAND with occas	sional gr	avel. Gravel is	-			
-				224.10	0.50	X: C:JX	subrounded fine to COLEFORD MEM\	coarse of sandstor (BER)			Æ		2//>2//>	
								End of Trial Pit	t at 0.50n	n	-			
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Sample Key:	B = Bul	k Disturbed	D = Small Dis	turbed	U = Un	disturbed O			ES =	Environmental Soil	EW = Envir	onmental \	Water	
Remarks:							Di	mensions:						
								Length: 0.20m		Orient	tation: °			
								Width: 0.20m						
							D	epth encountered (m)		Groundwater Details Rem	arks			
								,						
									<u> </u>	<u> </u>				
I								T&P Regeneration TF	Templat -	e Issue Number: 1	Issue	Date: Jun	e 2016	



APPENDIX C Laboratory analysis results

T&P Regeneration Ltd













Unit A2 Windmill Road Ponswood Industrial Estate St Leonards on Sea East Sussex TN38 9BY

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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-26615

Issue: 1

Date of Issue: 27/01/2020

Contact: John Flannery

Customer Details: T & P Regeneration Ltd (Smeaton Road)

Unit 4

Brunel Lock Development

Bristol BS1 6SE

Quotation No: Q15-00390

Order No: 6316-CS-J-0635

Customer Reference: CS-J-0635

Date Received: 20/01/2020

Date Approved: 27/01/2020

Details: Coleford

0 (

Mike Varley, Technical Manager

Approved by:

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

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Sample Summary

Report No.: 20-26615, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
194752	WS303 1.50 - 1.70	16/01/2020	20/01/2020		
194753	WS303 2.50 - 2.70	16/01/2020	20/01/2020	Loamy sand	
194754	WS304 1.30 - 1.50	16/01/2020	20/01/2020	Sand	
194755	WS305 1.80 - 2.00	16/01/2020	20/01/2020		
194756	WS305 2.40 - 2.60	16/01/2020	20/01/2020	Sand	
194757	WS306 0.40 - 0.60	16/01/2020	20/01/2020		
194758	WS306 1.60 - 1.80	16/01/2020	20/01/2020		
194759	HD301 0.15 - 0.25	16/01/2020	20/01/2020	Silty loam	
194760	HD301A 0.15 - 0.25	16/01/2020	20/01/2020		
194761	HD301B 0.15 - 0.40	16/01/2020	20/01/2020		
194762	HD301D 0.15 - 0.40	16/01/2020	20/01/2020		
194763	HD302 0.15 - 0.40	16/01/2020	20/01/2020	Silty loam	
194764	HD302A 0.15 - 0.40	16/01/2020	20/01/2020		
194765	HD302B 0.15 - 0.40	16/01/2020	20/01/2020		
194766	HD302C 0.15 - 0.40	16/01/2020	20/01/2020		
194767	HD303 0.15 - 0.35	16/01/2020	20/01/2020	Silty loam	
194768	HD303A 0.15 - 0.35	16/01/2020	20/01/2020		
194769	HD303B 0.15 - 0.35	16/01/2020	20/01/2020		
194770	HD303C 0.15 - 0.35	16/01/2020	20/01/2020		





Results Summary

Report No.: 20-26615, issue number 1									
	194753	194754	194756	194759	194763	194767			
	Reference								
	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL			
	WS303	WS304	WS305	HD301	HD302	HD303			
	2.50 - 2.70	1.30 - 1.50	2.40 - 2.60	0.15 - 0.25	0.15 - 0.40	0.15 - 0.35			
				16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020	16/01/2020
Determinand	Codes	Units	LOD						
Soil sample preparation par									
Material removed	N	%	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	n/t	n/t	n/t	None	None	None
Metals									
Arsenic	M	mg/kg	1	n/t	n/t	n/t	24.4	33.0	29.7
Beryllium	U	mg/kg	1	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0
Cadmium Chromium	M	mg/kg	0.5 5	n/t n/t	n/t n/t	n/t n/t	< 0.5 14.9	< 0.5 14.2	< 0.5 20.8
Copper	M	mg/kg mg/kg	5 5	n/t	n/t	n/t	23.3	24.5	20.8
Lead	M	mg/kg	5	n/t	n/t	n/t	44.3	44.9	35.6
Mercury	М	mg/kg	0.5	n/t	n/t	n/t	< 0.5	< 0.5	< 0.5
Nickel	М	mg/kg	5	n/t	n/t	n/t	18.6	17.1	17.8
Selenium	M	mg/kg	1	n/t	n/t	n/t	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	n/t	n/t	n/t	17.7	18.6	28.7
Zinc	M	mg/kg	5	n/t	n/t	n/t	83.7	65.5	56.6
Anions									
Water Soluble Sulphate	M	g/l	0.02	n/t	n/t	n/t	< 0.02	< 0.02	< 0.02
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	n/t	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	n/t	n/t	n/t	0.9	1.0	0.8
Miscellaneous									
рН	M	pH units	0.1	n/t	n/t	n/t	6.5	5.8	6.2
Total Organic Carbon	N	%	0.01	n/t	n/t	n/t	4.2	7.2	3.5
Phenois									
Phenol	M	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
O-Cresol	N N	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1 < 1
3,4-Dimethylphenol 2,3-Dimethylphenol	M	mg/kg mg/kg	1	n/t n/t	n/t n/t	n/t n/t	< 1 < 1	< 1 < 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	n/t	n/t	n/t	< 1	< 1	< 1
Total Monohydric Phenols	N	mg/kg	5	n/t	n/t	n/t	< 5	< 5	< 5
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Acenaphthene	М	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Fluorene	М	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	n/t n/t	n/t n/t	n/t n/t	< 0.1	< 0.1 < 0.1	< 0.1 < 0.1
Pyrene Benzo(a)anthracene	M	mg/kg mg/kg	0.1	n/t n/t	n/t n/t	n/t n/t	< 0.1 < 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	М	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	М	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	М	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	n/t	n/t	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	n/t	< 0.4	< 0.4	< 0.4





Results Summary

Report No.: 20-26615, issue num	ber 1								
	Reference	194753	194754	194756	194759	194763	194767		
	Customer Reference								
			Sample ID						
		Sa	mple Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampl	e Location	WS303	WS304	WS305	HD301	HD302	HD303
					1.30 - 1.50	2.40 - 2.60	0.15 - 0.25	0.15 - 0.40	0.15 - 0.35
			. , ,		16/01/2020				16/01/2020
Determinend	Cadaa		<u> </u>	10/01/2020	10/01/2020	10/01/2020	10/01/2020	10/01/2020	10/01/2020
Determinand	Codes	Units	LOD						
BTEX									
Benzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Toluene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Ethylbenzene	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
Xylenes	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
MTBE	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
TPH CWG									
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	< 1.0	< 1.0	< 1.0	n/t	n/t	n/t







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Parameter		Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	21/01/2020	110	Colorimetry
рН	M	Air dried sample	23/01/2020	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	21/01/2020	118	ICPMS
Phenols in solids		As submitted sample	21/01/2020	121	HPLC
PAH (GC-FID)		As submitted sample	21/01/2020	133	GC-FID
Water soluble anions	M	Air dried sample	21/01/2020	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil		As submitted sample	22/01/2020	181	GC-MS
Low range Aromatic hydrocarbons soil		As submitted sample	22/01/2020	181	GC-MS
BTEX in solids	N	As submitted sample	22/01/2020	181A	GC-MS
Water soluble boron	N	Air dried sample	21/01/2020	202	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	22/01/2020	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	21/01/2020	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil		As submitted sample	27/01/2020	214	GC-FID
Aromatic hydrocarbons in soil		As submitted sample	21/01/2020	214	GC-FID

Tests marked N are not UKAS accredited







Report Information

Report No.: 20-26615, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
Ν	do not currently hold UKAS accreditation
٨	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.

ELAB are unable to provide an interpretation or opinion on the content of this report.

The results relate only to the sample received.

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

f

а	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
С	Sample not received in appropriate containers
d	Sample not received in cooled condition
е	The container has been incorrectly filled

Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample age exceeds stability time (sampling to receipt)

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report Charges may apply to extended sample storage



T&P Regeneration Ltd









