

SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

				ЭĞ	ion	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		ndition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
ואופוווסמ	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample condition	indicated by bar thickness
					GC	CLAYEY GRAVEL Dense to very dense, fine to coarse, red brown, with trace cobbles, dry			
			-						
			_						
			_						
			_						
			0. <u>5</u>	+ +		GRANITE Highly weathered to moderately weathered, grey white with red brown discoloration, low to medium strength Test pit RTP-52 terminated at 0.55m			
			_	+		Test pit RTP-52 terminated at 0.55m			
			_						
			_						
			_						
			1 <u>.0</u>						
			_						
			-						
			_						
			1. <u>5</u>						
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			_						
			_						
			_						
			2.0						
			-						
			_						
			_						
			2.5						



SHEET 1 OF 1

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JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

\ <u></u>	WAR	KNS	Giou	nuwa	lei fiot	encountered  Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition			(w)	75mm					
ואופוווסמ	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample condition	Natural moisture (w)	% Finer than 0.075mm	Liquid limit (w <sub>1</sub> )	Plastic limit (w <sub>p</sub> )	Plasticity Index	Linear Shrinkage	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
			_		SC	CLAYEY SAND Dense, fine to coarse, red brown, with fine and medium gravel, dry									
			-												
			-												
			0 <u>.5</u>				BS		8.3	27	53	23	30	11	
			-											_	
			-			becomes pale brown yellow and red brown at 0.7 m								=	
			-											_	
			1.0			becomes very dense at 1.0 m								-	
			-											-	
			-												
			_			Test pit RTP-53 terminated at 1.3m									
			1 <u>.5</u>												
			- _												
			_												
			-	-											
			2.0												
			-												
			-												
			-												



MPAW/ATC/ATCW BOREHOLE / TEST PIT TESTPIT LOGS.GPJ GINT AUSTRALIA.GDT 13/3/17

#### FIGURE TEST PIT NUMBER RTP-54

SHEET 1 OF 1

**CLIENT** Hastings Technology Metals JOB NAME Yangibana Project JOB NUMBER 112391.11 JOB LOCATION Gascoyne Region, Western Australia LOGGED BY AP **DATE** 14/11/16 CHECKED JL R.L. SURFACE **DATUM EQUIPMENT** 13 T Excavator **LOCATION** 428724E 7353714N **REMARKS** Groundwater not encountered Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Sample condition Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness Classification Symbol Graphic Log Sample Type Water RL (m) Depth (m) SANDY GRAVEL Very dense, fine to coarse, red brown, with cobbles, dry GRANITE Highly weathered to moderately weathered, grey and white with yellow brown discoloration, low to medium strength Test pit RTP-54 terminated at 0.5m 1.0 1.5 2.0



MPAW/ATC/ATCW BOREHOLE / TEST PIT TESTPIT LOGS.GPJ GINT AUSTRALIA.GDT 13/3/17

#### FIGURE TEST PIT NUMBER RTP-55

SHEET 1 OF 1

**CLIENT** Hastings Technology Metals JOB NAME Yangibana Project JOB NUMBER 112391.11 JOB LOCATION Gascoyne Region, Western Australia **DATE** 14/11/16 LOGGED BY AP CHECKED JL R.L. SURFACE **DATUM EQUIPMENT** 13 T Excavator **LOCATION** 428653E 7354461N **REMARKS** Groundwater not encountered Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition Sample condition Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness Classification Symbol Graphic Log Sample Type Water RL (m) Depth (m) SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry GRANITE Moderately weathered, grey and white, medium strength Test pit RTP-55 terminated at 0.45m 0.5 1.0 1.5 2.0



MPAW/ATC/ATCW BOREHOLE / TEST PIT TESTPIT LOGS.GPJ GINT AUSTRALIA.GDT 13/3/17

#### FIGURE TEST PIT NUMBER RTP-56

SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11 JOB LOCATION Gascoyne Region, Western Australia LOGGED BY AP **DATE** 14/11/16 CHECKED JL **R.L. SURFACE DATUM EQUIPMENT** 13 T Excavator **LOCATION** 428390E 7355261N **REMARKS** Groundwater not encountered Material Description: % Finer than 0.075mm Soil: type, USCS symbol, strength, Natural moisture (w) plasticity or particle size, colour, secondary components, moisture condition Sample condition Linear Shrinkage Plastic limit (w<sub>p</sub>) Plasticity Index Dynamic Cone Penetrometer Liquid limit (w<sub>I</sub>) Classification Symbol No. of blows for depth indicated by bar thickness Graphic Log CBR (%) Sample Type Water MDD OMC Depth (m) (m) Medium dense, fine to coarse, pale red brown, with silt, dry SANDY GRAVEL GWS Dense to very dense, fine to coarse, grey and pale brown, with clay, moist 14 7.5 2.16 6.5 50 BS 12 29 15 GRANITE Highly weathered to moderately weathered, grey and white, low to medium strength 1.0 Test pit RTP-56 terminated at 1.1m 1.5 2.0



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

DATE 14/11/16 LOGGED BY AP CHECKED JL R.L. SURFACE DATUM

EQUIPMENT 13 T Excavator LOCATION 428600E 7355673N

REMARKS Groundwater not encountered

Material Description:
Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition

DATUM

LOCATION 428600E 7355673N

KEM	AR	RKS	Grou	ndwat	er not	encountered								
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Natural moisture (w)	% Finer than 0.075mm	MDD	OMC	CBR (%)	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
Meth	Water	RL (m)	Depth (m)	+++++++++++++++++++++++++++++++++++++++	Class O Symb	CLAYEY SAND Dense to very dense, fine to coarse, red brown, with fine to coarse gravel and occasional cobbles, moist  GRANITE Highly weathered to moderately weathered, grey and white, low to medium strength Test pit RTP-57 terminated at 1.3m	Samp Samp Samp Samp Samp Samp Samp Samp	Samp	Natura O.		2.11			0 5 10 15 20
			- - 2.5											



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

KE!	WAR	ans .	Grou	nawat	er not	encountered  Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition			
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	componente, modulo condition	Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
			-		SC	CLAYEY SAND Very dense, fine to coarse, red brown, with gravel (black iron stone), dry			
			_	+ +		GRANITE Highly weathered, red brown yellow and grey, low to medium strength			
			_	+		Test pit RTP-58 terminated at 0.35m			
			0. <u>5</u>						
			_						
			_						
			_						
			_						
			1.0						
			_						
			_						
			_						
			_						
			1 <u>.5</u>						
			_						
			_						
			_						
			_						
			2.0						
			_						
			2.5						



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
 13/11/16
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 AP
 CHECKED
 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 423633E 7356942N

RE	MAF	RKS	Grou	ndwat	er not	encountered  Material Description:					
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Co No. of bl indicated b	ne Penetrome ows for depth y bar thicknes	
_				76	GWS	SANDY GRAVEL Dense to very dense, fine to coarse, red brown, with clay, cobbles, rootlets, dry				12 16	ь : :
			-	X							:
			-							:	:
			-							:	:
										:	:
			-								
			0 <u>.5</u>							:	:
			_	+ +		GRANITE Moderately weathered, grey and white with red brown stains, medium strength				:	:
			_	+		Test pit DVTP-02 terminated at 0.7m					-
										•	:
										•	:
			-								:
			1.0							•	:
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			-								:
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			-	-						:	:
										•	:
			-							•	:
			2.5				1	l		:	:



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
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 AP
 CHECKED
 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 424103E 7357139N

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cone No. of blow indicated by l	Penetrometer s for depth par thickness
			-		GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry				
			0 <u>.5</u>		GC	CLAYEY GRAVEL Very dense, fine to coarse, red brown, dry				
			1 <u>.0</u>	+ +		GRANITE Highly weathered to moderately weathered, grey with yellow brown, low to medium strength  Test pit DVTP-03 terminated at 0.9m				
			- - 1 <u>.5</u>							
			-	-						
			2 <u>.0</u>	-						
			- - 2.5							



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

**DATE** 13/11/16 LOGGED BY AP CHECKED JL DATUM R.L. SURFACE **EQUIPMENT** 13 T Excavator **LOCATION** 424637E 7357334N

						Material Description:				
7				c Log	Classification Symbol	Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	0	Sample condition	Dynamic Cone F No. of blows indicated by ba	enetrometer for depth r thickness
Metriod	Water	RL (m)	Depth (m)	Graphic Log	Classif Symbo		Sample Type	Sample	) 5 10	15 20
				No.	GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry				15 20 : : : :
			-							
			-	汉						
-				+		GRANITE Highly weathered to moderately weathered, grey and white with yellow brown, low to medium strength Test pit DVTP-04 terminated at 0.3m				
			_			Test pit DVTP-04 terminated at 0.3m	]			
			0 <u>.5</u>							
			_							
			-							
			-							
			-							
			1 <u>.0</u>							
			_							
			-							
			-							
			_							
			1 <u>.5</u>							
			_							
			_							
			-							
			2 <u>.0</u>							
			-							
			_							
			_							
			-							



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

DATE 13/11/16 LOGGED BY AP CHECKED JL R.L. SURFACE DATUM

EQUIPMENT 13 T Excavator LOCATION 424481E 7356898N

REMARKS Groundwater not encountered

Material Description:
Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary

						Material Description:			
Method	er			Graphic Log	Classification Symbol	Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	eldi	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
200	Water	RL (m)	Depth (m)	Grap	Clas		Sample Type	Sam	0 5 10 15 20
1				74	GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry			0 5 10 15 20 : : : : :
			-			very derise, line to coalse, red brown, war oldy, cobbles, dry			
			-						
			-						
			-						
			0.5			GRANITE			
				+ +		Highly weathered, grey with red brown, low to medium strength			
				+		Test pit DVTP-05 terminated at 0.6m			
			-						
			-	1					
			_						
			10						
			1.0	1					
			-						
			-						
			-						
			-						
			1. <u>5</u>	-					
			-	1					
			-	-					
			-						
			-	-					
			2.0						
			-	-					
			-						
			-	-					
			-	1					
			2.5						



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
 13/11/16
 LOGGED BY
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 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 423902E 7356222N

BOL				Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	elde	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
Method	Water	RL (m)	Depth (m)	Grap	Sym	SANDY GRAVEL	Sample Type	Sam	0 5 10 15 20 : : : :
			-			SANDY GRAVEL Dense to very dense, fine to coarse, red brown, with clay, cobbles, dry			
			-						
			-						
			-					$\bowtie$	
			0 <u>.5</u>				BS		
			-	+		GRANITE Moderately weathered, grey and white with red brown stains, medium strength		$\bowtie$	
				+		Test pit DVTP-06 terminated at 0.7m			
			-						
			-						
			1.0						
			-						
			-						
			-						
			1 <u>.5</u>						
			_						
			_						
			_						
			_						
			2.0						
			-	-					
			-						
			-						
			-						
			2.5						



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
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 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 424799E 7357109N

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Co No. of ble indicated b	ne Penetro ows for dep y bar thickr	meter oth ness
			-		GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, boulders, dry  GRANITE					
			0 <u>.5</u>	+ + + + -		Moderately weathered, grey and white, medium strength  Test pit DVTP-07 terminated at 0.45m					
			-								
			-								
			1 <u>.0</u>								
			-	-							
			_								
			1. <u>5</u>	_							
			-	_							
			2 <u>.0</u>								
			-								
			_	_							
			2.5	-						:	:



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

\L	IVIA	ins_	Grou	luwat		encountered  Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		tion	Dynamic Cone Penetrometer
DOI 100 IA	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
					SW	SAND Medium dense to dense, fine to coarse, pale red brown, with silt, dry			
			-						
			_						
			_						
				•••••					
			-	+		GRANITE Highly weathered, grow pele brown, low to medium strength			
			0 <u>.5</u>			Highly weathered, grey pale brown, low to medium strength Test pit DVTP-08 terminated at 0.45m			
			-						
			_						
			_						
			4.0						
			1.0						
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			_						
			-						
			-						
			1 <u>.5</u>						
			_						
			-						
			_						
			_						
			2 <u>.0</u>						
			_						
			_						
			_						
			_						
			2.5						



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

EQ	UIPI	MENT	13	T Exc	avator	<b>LOCATION</b> 424639E 735655	9N				
REI	MAF	RKS	Grou	ndwat	er not	encountered					
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic C No. of I indicated	cone Penetro blows for dep by bar thicki	
$\exists$		, ,	()	ø <i>&gt;</i>	GC	CLAYEY GRAVEL		0	. 4 8	12	16
			-	+		Very dense, fine to coarse, red brown, with trace cobbles, dry  GRANITE		-			
			_	+ +		Moderately weathered, grey and white with red brown stains, medium strength					
			_			Test pit DVTP-09 terminated at 0.3m					
			0 <u>.5</u>								
			_								:
			-								
			1 <u>.0</u>								
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			-								
			_								
			1 <u>.5</u>								
			-								
			-								
			_								
			2.0								
			_								:
			-								
			2.5								



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

**LOCATION** 424534E 7356514N

JOB NUMBER 112391.11

**EQUIPMENT** 13 T Excavator

JOB LOCATION Gascoyne Region, Western Australia

RE	MAF	RKS	Grou	ndwat	ter not	encountered  Material Description:  Soil: type USCS symbol strength, plasticity or particle size, colour, secondary					
ואופוווסמ	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cor No. of blo indicated b	ne Penetro ows for dep y bar thickr	
				7	GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry			) 4 8 : : : :	12 : :	16
			-	+		GRANITE Moderately weathered, grey and white with red brown stains, medium strength					-
			-	+ +		mediately mediateled, grey and mine married premitted in, mediating and				:	:
			_			Test pit DVTP-10 terminated at 0.25m					
			0 <u>.5</u>								
			-							:	:
			_								
										:	:
			-								
			1.0							:	:
			-								
			_							:	:
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			-							:	
			1 <u>.5</u>							:	
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										:	
			-								
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			-							:	:
			2.0							:	:
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			-							:	:
			_							:	:
			2.5							:	:



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

RΕ	MAF	RKS	Grou	ndwat	er not	encountered			
DOI DOI	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
_			()	<b>3</b> 4.	GWS	SANDY GRAVEL		0	5 10 15 20 : : : : :
			-			Very dense, fine to coarse, red brown, with clay, cobbles, dry			
			-	+ +		GRANITE Moderately weathered, grey and white with red brown stains, medium strength			
			0.5	+ +					
						Test pit DVTP-11 terminated at 0.5m			
			-						
			-						
			_						
			_						
			1. <u>0</u>						
			-						
			_						
			-						
			-						
			1. <u>5</u>						
			-						
			-						
			_						
			2 <u>.0</u>						
			-: <u>-</u>						
			-						
			-						
			-						
			2.5						



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11 JOB LOCATION Gascoyne Region, Western Australia

**DATE** 13/11/16 LOGGED BY AP CHECKED JL DATUM R.L. SURFACE

					avator		15N		
RE	MAF	RKS	Grou	ndwat	er not	encountered Matrial Provinting			
Metriod	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
				7	GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, trace boulders, dry			
			_						
			_	+ + + + + +		GRANITE Highly weathered to moderately weathered, grey and white with red brown, low to medium strength			
			0.5	+ +		Test pit DVTP-12 terminated at 0.5m			
			_						
			_						
			_						
			_						
			1 <u>.0</u>						
			_						
			_						
			-						
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			1 <u>.5</u>						
			_						
			_						
			_						
			_						
			2.0						
			_						
			_						
			_						
			_						
			2.5						<u> </u>



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**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
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 EQUIPMENT
 13 T Excavator
 LOCATION
 425166E 7356888N

				: Log	cation	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		Sample condition	Dynamic Cone Penetromete No. of blows for depth indicated by bar thickness
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample	0 4 8 12 16
			- -		GC	CLAYEY GRAVEL Very dense, fine to coarse, red brown, with cobbles, dry			
			_	+		GRANITE			
			0.5	- <sup>'</sup> +		Highly weathered to moderately weathered, grey and white, low to medium strength  Test pit DVTP-13 terminated at 0.5m			
			_						
			_						
			1.0						
			_						
			_						
			1 <u>.5</u>						
			_						
			_						
			2 <u>.0</u>						
			_						
			_						



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

EQ	UIPI	MENT	13	T Exc	avator	LOCATION 424869E 735624	15N			
REI	MAF	RKS	Grou	ndwat	ter not	encountered				
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cone Penetr No. of blows for de indicated by bar thicl	
7		, ,	()	6 <i>7</i> 2/X	GC	CLAYEY GRAVEL	971	0	) 4 8 12 : : :	16
			-			Dense to very dense, fine to coarse, red brown, with cobbles, dry		-		
			_	+		GRANITE Moderately weathered, grey and white, medium strength				
			0.5	++		Test pit DVTP-14 terminated at 0.5m				:
						Test pit DVTP-14 terminated at 0.5m				
			-							
			_							
										:
			-	_						:
										:
										:
			1.0	-						:
			_							:
										:
			_							:
			_							:
			1 <u>.5</u>							
			1.5							:
			_	_						:
										:
			-							:
			_							:
			_	_						:
			2.0							:
										:
			-	-						:
										:
										:
			-							:
			-	1						:
			2.5						<u> </u>	<u>:</u>



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

						encountered  Material Description:  Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		ion	
Medica	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
				*****	SW	SAND Dense to very dense, fine to coarse, red brown, with silt, clay, rootlets, dry			
			-						
			-						
			_						
			_		SC	CLAYEY SAND Very dense, fine to coarse, red brown, with gravel, dry	BS		
			0 <u>.5</u>	+ '		GRANITE			
				+		Highly weathered to moderately weathered, grey, low to medium strength  Test pit DVTP-15 terminated at 0.6m			
			-						
			-						
			1 <u>.0</u>						
			_						
			-						
			-						
			_						
			1 <u>.5</u>						
			1.5						
			-						
			_						
			-						
			2 <u>.0</u>						
			_						
			_						
			_						
			_						
			2.5						



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
 13/11/16
 LOGGED BY
 AP
 CHECKED
 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 425476E 7356644N

						Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary			
				go	tion	Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition		ondition	Dynamic Cone Penetrometer No. of blows for depth
Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol		Sample Type	Sample condition	indicated by bar thickness
	_	. ,	()		SM	SILTY SAND Medium dense, fine and medium, pale brown/brown, with clay, dry		0	5 10 15 20 : : : : : : : :
			-		SC	CLAYEY SAND Dense to very dense, fine to coarse, red brown, with gravel, dry			
			-						
			_						
			0.5				BS		
			_			becomes pale grey brown			
			_						
			_						
			_						
			1.0						
			-				BS		
			-						
			-						
			-						
			1. <u>5</u>		GC	CLAYEY GRAVEL Very dense, fine to coarse, pale grey brown, with gravel, dry			
			-						
			_	+		GRANITE Highly weathered, grey and white, low strength			
						Test pit DVTP-16 terminated at 1.8m			
			2.0						
			_						
			_						
			_						
			_	-					
			2.5						



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
 13/11/16
 LOGGED BY
 AP
 CHECKED
 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 425509E 7356439N

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic C No. of I indicated	one Penetrolows for de by bar thic	rometer epth kness
			-		GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with trace clay, cobbles, dry					
			_		GC	CLAYEY GRAVEL Very dense, fine to coarse, red brown, with trace cobbles, dry  GRANITE				•	:
			0.5	+ +		Highly weathered to moderately weathered, dark grey, medium strength  Test pit DVTP-17 terminated at 0.5m				:	:
			_			Total pic DV TV TV Communication Communicati				•	
			-								
			-							:	
			-								
			1 <u>.0</u>							•	
			-								
			-							•	
			-								
			1 <u>.5</u>							•	
			1.0								
			_								
			_							•	
			2 <u>.0</u>								:
			-							•	
			-							:	:
			-								:
			-								•



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

MPAW/ATC/ATCW BOREHOLE / TEST PIT TESTPIT LOGS.GPJ GINT AUSTRALIA.GDT 28/9/17

JOB LOCATION Gascoyne Region, Western Australia

EMAF	RKS	Grou	ndwat	er not	encountered			
Water	RL (m)	Depth (m)	thic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic Cone Penetrometer No. of blows for depth indicated by bar thickness
+			34.	GWS	SANDY GRAVEL		0	4 8 12 16
		_	X		Very dense, fine to coarse, red brown, with clay, cobbles, dry			
			•					
		_						
			+		GRANITE Highly weathered to moderately weathered, dark grow with red brown, lew to modium.			
			+		Highly weathered to moderately weathered, dark grey with red brown, low to medium strength  Test pit DVTP-18 terminated at 0.35m			
		_			Test pit DVTF-10 terminated at 0.33m			
		0 <u>.5</u>						
		0.5						
		_						
		-						
		_						
		-						
		1.0						
		1.0						
		_						
		-						
		-						
		1.5						
		1 <u>.5</u>						
		_						
		-						
		_						
		-						
		20						
		2.0						
		_						
		-						
		-						
		_						
		2.5						



SHEET 1 OF 1

**CLIENT** Hastings Technology Metals

JOB NAME Yangibana Project

JOB NUMBER 112391.11

JOB LOCATION Gascoyne Region, Western Australia

 DATE
 13/11/16
 LOGGED BY
 AP
 CHECKED
 JL
 R.L. SURFACE
 DATUM

 EQUIPMENT
 13 T Excavator
 LOCATION
 425521E 7356493N

Method	Water	RL (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description: Soil: type, USCS symbol, strength, plasticity or particle size, colour, secondary components, moisture condition	Sample Type	Sample condition	Dynamic C No. of indicated	Cone Perblows fo	
			_	决	GWS	SANDY GRAVEL Very dense, fine to coarse, red brown, with clay, cobbles, dry					
			-								
				+		GRANITE Highly weathered, grey and white, low to medium strength Test pit DVTP-19 terminated at 0.3m	_				
			-								
			0 <u>.5</u>								
			-								
			-								
			-								
			-								
			1.0								
			-								
			-								
			-						: : : :		
			1 <u>.5</u>								
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									: : : :		
			_						 		
			2 <u>.0</u>								
			_								
			-								
			-						:		
			-								
			2.5								



ASTP-02



ASTP-03



ASTP-05



ASTP-07



ASTP-08



ASTP-09



CA-01





CATP-01



CATP-02



CATP-03



CATP-04



CATP-05



CATP-06



CATP-07



CATP-08



CATP-09



CATP-10





CTTP-02



CTTP-03



CTTP-04



CTTP-05



CTTP-06



CTTP-07A

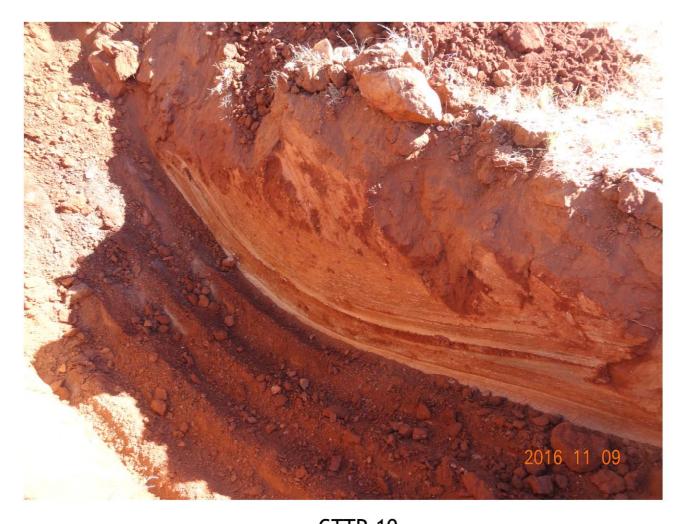


CTTP-07B





CTTP-09





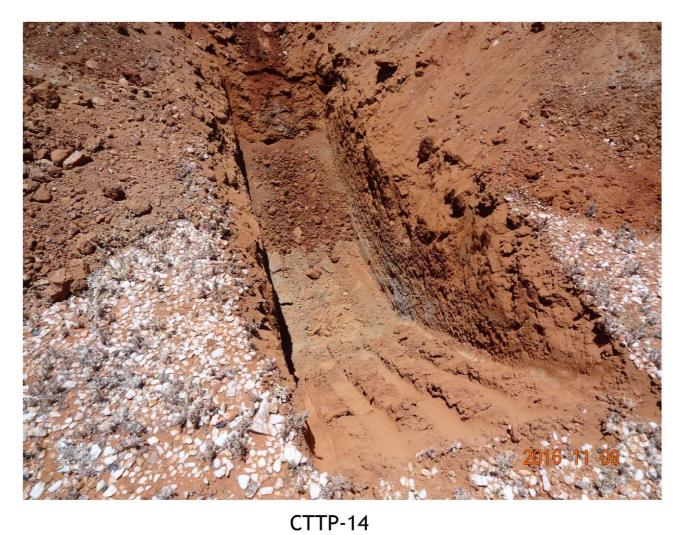
CTTP-11



CTTP-12



CTTP-13





CTTP-15



CTTP-16



CTTP-17



CTTP-18



CTTP-19



CTTP-20



CTTP-21



CTTP-22



CTTP-23



CTTP-24



CTTP-25



CTTP-26



CTTP-27



CTTP-28



CTTP-29



CTTP-30



CTTP-31



CTTP-32



CTTP-33



CTTP-35



CTTP-36



CTTP-37



CTTP-38



CTTP-39



DVTP-02



DVTP-03



DVTP-04



DVTP-05



DVTP-06



DVTP-07



DVTP-08



DVTP-09



DVTP-10



DVTP-11



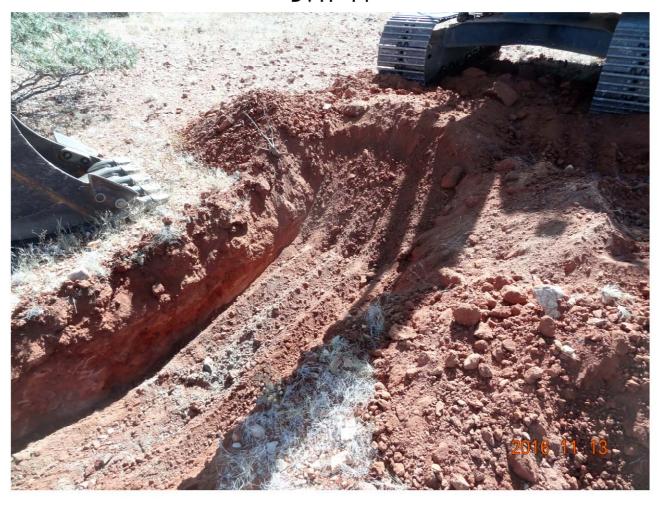
DVTP-12



DVTP-13



DVTP-14



DVTP-15



DVTP-16



DVTP-17



DVTP-18



DVTP-19



PLBH-01



PLBH-05