
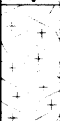

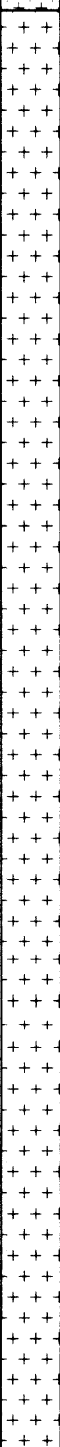

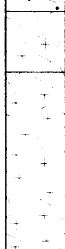

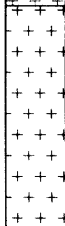
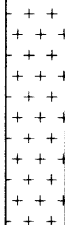
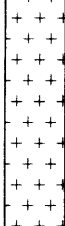
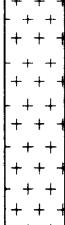
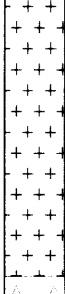


**Apc.24 Diagraphie géologique des trous de forages à circulation**

**inverse (RC) dans le Secteur de Sagala**



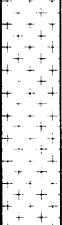
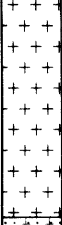
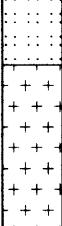
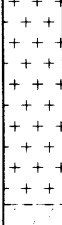
SRC-1						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown	including Fe nodule, $\phi < 5\text{mm}$	Lateritization	
		transitional zone of Laterite and weathered Granite	yellowish reddish brown	including Qz grain (2mm<)	Ko	
		weathered Granite	yellowish gray	including Qz, Bi grain (3mm>) Original rock is granite (Granite Saprolite) 11-12m including Granite fragment (3mm>)	Ko, Sm, Mc	
20		Granite	light gray	Fresh Granite, consists in Qz; 2mm> clear Pl; 5mm> clear Ho; 2mm> clear Bi; 2mm> clear equigranular texture		
30						
40						
50						


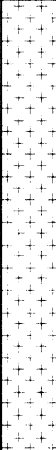

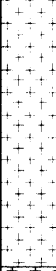

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-2						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite (carapace)	brownish yellow	including a lot of Fe nodule ( $\phi < 5\text{mm}$ )	Lateritization	
		Laterite (mottled zone)	reddish brown	less of Fe nodule ( $< 3\%$ ) mottled zone texture		
	mottled zone to transitional zone	brownish yellow	no Fe rich nodule with a lot of clay, including Qz grain ( $< 2\text{mm}$ )			
		Saprolite to transitional zone to weathered Granite	yellowish brown	texture not so clear, grain size $< 10\%$ compose of Qz ( $< 1\text{mm}$ ), sometime Bi, Pl	Ko	
		weathered Granite	grayish yellow	texture clear, including Qz grain ( $< 2\text{mm}$ ), fine grain of Bi and Pl to coarsening grain of Pl (2mm)		
	partly Pl ( $> 2\text{mm}$ ) and Qz ( $> 2\text{mm}$ )					
20		Granite	light gray	fragment rock including equigranular mineral with Qz grain (about 2mm) Bi, Pl and Mc ( $< 2\text{mm}$ )		
			lite gray partly pink	partly pink colored rock fragment with Pl, Oc ( $< 2\text{mm}$ ), Qz ( $< 2\text{mm}$ ), Bi and Ho		
			light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
30		Granite	light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
			light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
40		Granite	light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
			light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
50		Granite	light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
			light gray	rock fragment with Pl, Bi, Qz and Ho, equigranular grain size ( $< 2\text{mm}$ )		
		basic inclusion of granite		rock fragment with shallow mineral		


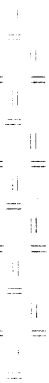
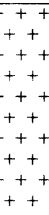
SRC-3						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite	reddish brown	Laterite with Fe nodules	Lateritization	
		transition zone	yellowish brown	including Qz grain (<1mm), with many clay	Ko	
10		weathered Granite	brown - yellowish brown	broken granite with Bi and Qz grains		
20		Granite	gray	granite with Bi, Qz and Ho, texture is clear		
30						
40						
50						

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-4						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite	reddish brown	laterite with Fe nodule (<4mm)	Lateritization	
		(clay carapace)	brownish yellow	many clay, with no Fe nodule very fine texture		
10		transition zone	brownish yellow	including Bi and Mc	Ko	
		weathered Granite	grayish yellow	including Mc, Bi and Qz grain (<2mm) texture clear		
20		Granite	light yellow	including rich fragments with Pl, Bi and Qz, granite texture		
			light yellow partly pink	light gray partly pink colored rock fragment (Oc) with Pl		
30		Granite with Meta sandstone	gray - black	rock fragment granite with meta sandstone, granite more than meta sandstone		
		Meta sandstone		meta sandstone including pyrite grain (<2mm) unclear texture		
40		Granite	pink - gray	pink to gray colored granite with Pl, Oc, Qz so many Oc, so many rock fragment, hard granite		
			light gray			
50		Basic inclusion of Granite	light gray - black	basic inclusion of granite. fine grained Pl, Ho		
		Granite	light gray	including rock fragment with Pl, Bi and Qz		

SRC-5						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown	including Fe nodule (small)		
		transition zone of Laterite and weathered Granite	light reddish yellowish brown	including Ko, no rock fragment	Ko, Sm, Mc	
20		weathered Granite	yellowish brown	weathered granite	Sm, Mc	
30		Meta sandstone	yellowish brown	meta sandstone	Ch	Py
40		weathered Granite	light yellowish brown	including residual Qz and Bi fragment	Sm, Mc	
		Granite	light gray	fresh granite fragment		
50		weathered Granite	yellowish brown	including Bi and white Mc	Sm, Mc	





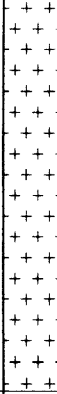
Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-6						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown	including small Fe nodule	Lateritization	
		transitional zone of Laterite and Saprolite	light reddish brown	no rock fragment clay carapace	Ko	
20		Saprolite	yellowish brown ~ yellowish gray	including Granite fragment (25-31m)	Sm, Mc	
30				Metagabbro		
40		Granite	light gray	Fresh Bi, Ho, Qz, Pl		
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala


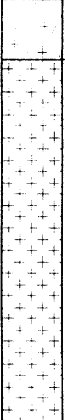
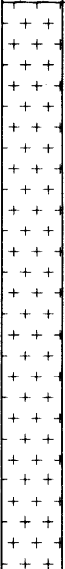
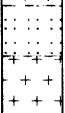
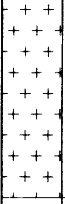
SRC-7						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown	including ferric nodule	Lateritization Ko	
		transitional zone of Laterite and Saprolite	yellowish reddish brown		Ko	
		Saprolite	reddish ~ yellowish brown	including white mica yellowish weathered including granite fragment	Ko, Sm, Mc	
20		Granite	light gray	Fresh, fine Ho, Bi, Qz, Pl		
		Weathered Granite	yellowish brown	including granite fragment	Sm?	
30		Granite	light gray	Fresh, fine ~ medium Ho, Bi, Qz, Pl		
		Granite	light gray			
40		Granite	light gray			
50						



SRC-8						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown ~ light reddish brown	including ferric nodule (0-2m)	Lateritization Ko	
20		transitional zone of Laterite and Saprolite	reddish brown ~ yellowish reddish brown	reddish brown laterite and yellowish brown Saprolite mixtured	Ko	
30		Saprolite	yellowish brown ~ yellowish gray	including Mc	Ko, Sm, Mc	
		Metasandstone	light ~ dark gray	Py disseminated	Ch	Py disseminated
40		Granite	light gray	Fresh including dark inclusion Pl, Qz, Ho, Bi with fractures (37m, 41.5m, 42.5m)		
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-9						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	reddish brown	including ferric nodule ( $\phi$ ; 5~10mm) and a few mottled texture nodule	Lateritization	
		transitional zone of Laterite and Saprolite	reddish yellowish brown	coarse grain laterite and saprolite mixtured	Ko	
		Saprolite	brownish yellow or brown	fine grain	Ko, Sm	
20		Granite? or Granodiorite?	reddish gray ~ light gray	fine grained Pl, Ho, Qz Pl replaced to red colored mineral		
		Metasandstone	dark ~ light gray	Fine grain, including greenish tuff	Cc, silicified	(little) Py disseminated
30		Granite? or Granodiorite?	light gray	fine grained Pl, Ho, Qz Pl replaced to red colored mineral		
		Metasandstone	dark gray		Cc, Ch	(little) Py disseminated
		Granite? or Granodiorite?	light gray	fresh, fine grained		
40		Granite? or Granodiorite?	light gray			
50						

SRC-10						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite	brownish red ~ reddish brown	including Fe nodule 8~10m ; including Qz vein? (<8mm) original rock ; metasediments?	Lateritization  Ko	
		Transitional zone	yellowish reddish brown	including Qz	Ko, Sm	
20		Weathered Granite	yellowish brown	remain mineral ; Qz ( φ <2mm), Bi ( φ <2mm) including Granite fragment	Ko, Sm,Mc	
30		Granite		Fresh, equigranular Qz ( φ <3mm), Pl ( φ <5mm), Ho ( φ <2mm), Bi ( φ <1mm) including Py (33m)		(little) Py disseminated
						(little) Py disseminated
40			light gray			
		Metasediment		with Py disseminated		Py disseminated
50		Granite				
		Metasandstone	light gray	fine grain, chlorite vein (<1mm)	Ch	

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-11						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (hard~ soft carapace)	reddish brown	including Fe rich nodule ( $\phi < 3\text{mm}$ )	Lateritization	
		Clay Carapace	yellowish brown	including many Fe rich nodule clay rich, fine texture with Qz grain ( $\phi < 1\text{mm}$ ) weak Ko alteration	Ko	
		Mottled zone	dark reddish brown	no Fe rich nodule, unclear texture including Qz vein fragment ( $\phi < 2\text{mm}$ )	Lateritization	
20		Weathered Granite	light gray	Qz ( $\phi < 1.5\text{mm}$ ), Pl ( $\phi < 1.5\text{mm}$ ), Ho ( $\phi < 1.5\text{mm}$ ), Mc ( $\phi < 1.5\text{mm}$ ) strongly weathered	Ko, Sm	
30		Granite	light gray	Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Bi ( $\phi < 3\text{mm}$ ), Mc ( $\phi < 2\text{mm}$ ), Ho		
40		inclusion Metasediment	light gray	Fe film among fracture clear texture		
		basic inclusion	black	rock fragment with schistosity secondary mineralization		
		Granite	gray			
50		inclusion Metasediment	black	with disseminated Py		Py disseminated

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-12						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Hard Carapace	reddish brown	including Fe rich nodule ( $\phi < 5\text{mm}$ )	Lateritization	
		Soft Carapace		no Fe nodule including Qz grain ( $\phi < 0.5\text{mm}$ )		
20		Clay Carapace	yellowish brown	including Qz grain ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1.5\text{mm}$ ), Mc ( $\phi < 3\text{mm}$ ) weak Ko alteration	Ko	
		Transitional zone to Saprolite	light gray	Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ), Mc ( $\phi < 2\text{mm}$ )		
30		Weathered Granite	light gray	Fresh, Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Bi		
		Granite	light gray			
40		Granite	light gray			
		inclusion Metasediment	blackish gray	disseminated Py,Po,Ap		disseminated Py,Po,Ap
50		Granite	blackish gray	disseminated Py,Po,Ap		disseminated Py,Po,Ap
		Metasediment				

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-13						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite (hard to soft carapace)	reddish brown	including Fe rich nodule ( $\phi < 5\text{mm}$ ) clear texture matrix $> 60\%$	Lateritization	
		Clay Carapace	brownish yellow	including Qz grain ( $\phi < 2\text{mm}$ ) with a few Fe nodule ( $\phi < 3\text{mm}$ ) clear texture matrix $> 70\%$		
10		Saprolite to Transitional zone	yellowish brown	including Qz grain ( $\phi < 2\text{mm}$ ) with a weak alteration (Ko) unclear texture	Ko, Sm	
		Strongly weathered Granite with Fe oxide	reddish brown	including Qz grain ( $\phi < 1\text{mm}$ ) two Mc ( $\phi < 0.5\text{mm}$ ) unclear texture matrix $> 90\%$		
20		Strongly Weathered Granite	yellowish green ~ brown	Qz ( $1 < \phi < 3\text{mm}$ ), Mc, Bi ( $\phi < 0.5\text{mm}$ ) matrix $> 90\%$ with Qz vein fragment ( $\phi < 15\text{mm}$ )	Ko, Sm	
30		Fresh Granite		Fresh, Qz ( $\phi < 2\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ), Fracture		
		Weathered Granite		Fresh Qz ( $\phi < 2\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Bi ( $3 < \phi < 5\text{mm}$ ),		
40		Granite	light gray			
50		Granite	light gray			
				Chloritization among fracture	Ch	

SRC-14						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust	dark reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
10		Laterite	reddish brown	including clay mineral (Ko?)	Ko	
20		Clay Carapace	yellowish brown ~ light reddish brown	Qz ( $\phi < 1\text{mm}$ ), Mc ( $\phi < 1\text{mm}$ )	Ko, Sm, Mc	
30		Weathered Granite	yellowish gray	including Qz grain ( $\phi < 2\text{mm}$ ), Bi, Mc ( $\phi < 1\text{mm}$ ) Saprolitic weathered Granite	Sm, Mc	
40		Granite	light gray	Fresh including dark inclusion Qz ( $\phi < 2\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Ho ( $\phi < 1\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ) 47-48m ; darkinclusion 57-58m ; darkinclusion		
50						
		inclusion metasediments	greenish gray	Metasandstone, Py( $0.1 < \phi < 1\text{mm}$ ) disseminated		Py disseminated

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-15						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Laterite (clay carapace)	reddish brown ~ light reddish brown	including clay mineral (Ko?)	Ko	
		Transitional zone of Laterite and weathered Granite		including Qz grain and Mc (original) Qz ( $\phi < 2\text{mm}$ ), Mc ( $\phi < 1\text{mm}$ )	Ko	
		weathered Granite	yellowish gray	including saprolitic granite fragment, Qz ( $\phi < 2\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ) Mc ( $\phi < 1\text{mm}$ )	Ko, Sm, Mc	
20		Granite	light gray	Fresh equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ) 23-24m ; including metasandstone		
30						
40		Strongly silicified rock	gray	Strongly silicified rock with Py ( $\phi < 0.2\text{mm}$ ), Ap dissemination amorphous Qz	silicified Ch	Py, Ap dissemination
50		Granite	light gray	Fresh equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		




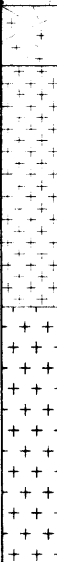
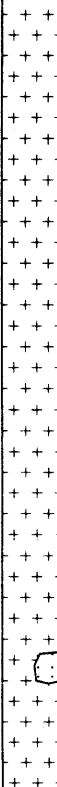
SRC-16						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	0-1m ; including alluvium soil 1-4m ; including Fe nodule (Laterite Crust)	Lateritization	
		Laterite (clay carapace)	reddish brown	including clay mineral (Ko?)	Ko	
		Saprolitic weathered Granite	yellowish brown	including clay mineral (Ko+Sm) Qz ( $\phi$ <2mm), Pl ( $\phi$ <2mm)	Ko	
			yellowish gray	including Qz vein fragment, $\phi$ <30mm white and gray colored generally amorphous Qz	Ko, Sm, Qz	
20	Metasediment or metavolcanics	greenish gray	fine grained, unclear original texture	Ch	Py disseminated	
	Granite	light gray	Fresh equigranular Qz ( $\phi$ <3mm), Pl ( $\phi$ <3mm), Ho ( $\phi$ <2mm), Bi ( $\phi$ <1mm)			
30	Metasediment or metavolcanics	greenish gray	fine grained, unclear original rock texture	Ch	Py disseminated	
	Granite	light gray	Fresh, equigranular including Qz, Pl, Ho, Bi			
	Metasediment or metavolcanics	greenish gray	fine grained, unclear original texture 45-47m ; including Qz fragment	Ch	Py dissemination	
40	Granite	light gray	Fresh, equigranular including Qz, Pl, Ho, Bi			
	Metasediment or metavolcanics	greenish gray	fine grained, unclear original texture 45-47m ; including Qz fragment	Ch	Py dissemination	
50	Metasediment or metavolcanics	greenish gray	fine grained, unclear original texture 45-47m ; including Qz fragment	Ch	Py dissemination	
	Granite	light gray	Fresh, including Qz, Pl, Ho, Bi equigranular			

SRC-17						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ ), Mc ( $\phi < 2\text{mm}$ )	Ko	
		Saprolitic weathered Granite	yellowish gray	including clay mineral (Ko), and Qz, Pl, Bi, Mc grain Qz ( $\phi < 2\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ), Mc ( $\phi < 1\text{mm}$ )	Ko, Sm, Mc	
30		Granite	light gray	Fresh equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
Metasediment		greenish gray	Samitic schist, disseminated pyrite		Py disseminated	
Granite		light gray				
50		Granite	light gray			

SRC-18						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	yellowish brown ~ yellowish reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko	
10		Saprolitic weathered Granite	yellowish brown ~ yellowish gray	including clay mineral (Ko), and Qz, Pl, Bi, Mc grain Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ), Mc ( $\phi < 1\text{mm}$ ) 21-22m : pink granite	Ko, Sm, Mc	
20		Metasandstone	light bluish gray ~ light greenish gray	partly Fe including, with Cc vein	Ch, Fe, Cc	
30		Granite	light gray	Fresh equigranular Qz ( $\phi < 5\text{mm}$ ), Pl ( $\phi < 5\text{mm}$ ), Ho ( $\phi < 3\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
40		Metasandstone	greenish gray	Samitic schist Fresh equigranular		
50		Granite	light gray			

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-20						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko?	
		Transition zone (mottled zone)	yellowish brown ~ light reddish brown	including clay mineral (Ko, Sm), and Qz grain Qz ( $\phi < 3\text{mm}$ ),	Ko, Sm	
20		Saprolitic weathered Granite	yellowish gray	including clay mineral (Sm?), and weathered Granite fragment Qz ( $\phi < 5\text{mm}$ ), Pl ( $\phi < 5\text{mm}$ ), Bi ( $\phi < 5\text{mm}$ )	Sm	
30		Granite	light gray	Fresh equigranular Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 5\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
40						
50		Granite	light gray	45-46m ; weakly altered Granite	Ch	
		red colored Granite and metavolcanics	reddish gray ~ greenish gray	red colored altered and metavolcanic altered by Ch	Ch	
		Granite	light gray	Fresh		

SRC-22						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	reddish brown ~ light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko	
		Transitional zone	yellowish reddish brown	including clay mineral (Ko), and Qz grain ( $\phi < 2\text{mm}$ ),	Ko	
20		Saprolitic weathered Granite	yellowish brown ~ yellowish gray	including clay mineral (Sm?), and Qz, Pl, Bi, Mc grain	Sm	
30		Granite	light gray	Fresh equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Ho ( $\phi < 3\text{mm}$ ), Bi ( $\phi < 3\text{mm}$ )		
40		Metasediment		including samitic schist with a little Py dissemination		Py disseminated
50		Granite				

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-24						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	reddish brown ~ light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko?	
		Transitional zone (mottled zone)	yellowish reddish brown	including clay mineral (Ko, Sm), and Qz grain ( $\phi < 2\text{mm}$ ),	Ko, Sm	
20		Saproplitic weathered Granite	yellowish gray	including Qz, Pl, Bi, Mc grain ( $\phi < 3\text{mm}$ )	Sm, Mc	
		Granite	light gray	Fresh, equigranular a little red colored		
30		Metavolcanics (Metagabbro?)	dark greenish gray	Py disseminated	Ch	Py disseminated
		Metavolcanics (Metagabbro?)	dark greenish gray	greenish altered by Ch, with Py dissemination	Ch	Py disseminated
50		Granite	light gray	Fresh, equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
		Granite	yellowish gray	Fracture zone		
		Granite	light gray			

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-25						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko?	
		Transitional zone	yellowish reddish brown	including clay mineral (Ko, Sm) and Qz grain ( $\phi < 2\text{mm}$ )	Ko, Sm	
20		Saprolitic weathered Granite	yellowish gray	including Qz, Pl, Bi, Mc grain ( $\phi < 2\text{mm}$ )		
30		Granite	light gray	Fresh equigranular Qz ( $\phi < 3\text{mm}$ ) Pl ( $\phi < 4\text{mm}$ ) Ho ( $\phi < 2\text{mm}$ ) Bi ( $\phi < 1\text{mm}$ )		
				mafic mineral ; greenish altered by Ch	Ch	
40		Metavolcanics	dark greenish gray	with Py disseminated	Ch	Py disseminated
		Granite	light gray	Fresh		
		Metavolcanics	dark greenish gray	with Py disseminated	Ch	Py disseminated
50		Granite	light gray	Fresh		

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-26						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Soil, Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko?	
		Granite Block	light gray	Fresh		
20		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain	Ko?	
		Saprolitic weathered Granite	yellowish brown	including Qz, Pl, Bi, Mc grain	Sm?	
		Granite Block	light gray	Fresh		
		Saprolitic weathered Granite	yellowish brown, light gray	including Qz, Pl, Bi, Mc grain	Sm?	
		Granite Block	light gray	Fresh		
		Saprolitic weathered Granite	yellowish brown		Sm?	
		Granite Block	light gray	Fresh		
30		Saprolitic weathered Granite	yellowish brown		Sm?	
		Granite Block	light gray	Fresh		
		Saprolitic weathered Granite	yellowish brown		Sm?	
		Granite	light gray	Fresh		
		Metasediments	dark greenish gray	greenish altered, with Qz vein and Py dissemination	Ch	Py disseminated
40		Granite	light gray	Fresh		
		Metasediments	dark greenish gray	greenish altered, with Py dissemination	Ch	Py disseminated
		Granite	light gray	Fresh equigranular Qz, Pl, Ho, Bi		
50		Metasediments	dark greenish gray	greenish altered, with Py dissemination	Ch	Py disseminated
		Granite	light gray	Fresh equigranular Qz, Pl, Ho, Bi		
		Metasediments	dark greenish gray	greenish altered, with Py dissemination	Ch	Py disseminated



SRC-27

Position : N1500 E000 depth : 60m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	brown	0-4m : laterite crust rich in Fe-nodules (50-60%) with clay (matrix), some quartz fragments (1-25%), rare micas (biotite) 4-7m : soft carapace with clay minerals (mont-morillorite, illite, kaolinite), rich on quartz fragments (5-10%) and less Fe-nodules (5-10%)	Lateritization Hematization  Kao	
		Saprolite	reddish brown	clay carapace with many quartz fragments (10-20%) and kaoinization (feldspath) = granitoid saprolite. It is a clay with coarse grains (many quartz and feldspath).	Kao	
20		Weathered Granite	reddish brown ~ greenish brown	15-20m :weahered granite with many clay minerals 20-26.8m : less altered, feldspath, quartz (15-20%), micas (20-25%)		
		Granodiorite	gray	greysh rock with 60% of clay mineralas (40% of feldspath and 20% of quartz), 40% of dark minerals (20% of biotite, 20% of hornblendes). It is a granodiorite with sulfieds disseminations (cp, py<1%)	Chl	cp, py<1%
30		Meta-andesite	gray	meta-andesite silicified, chloritized, carbonatized	Chl	
		Granodiorite	dark gray	32-32.8m : smoky white quartz with enlorite	Chl	cp, py<1%
50		Meta-andesite	dark gray	meta-andesite with felds path, quartz, some sulfieds, (co, py=1-2%)	Chl	
		Granodiorite	dark gray			


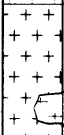
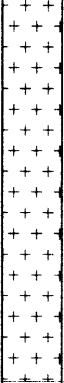
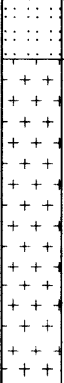
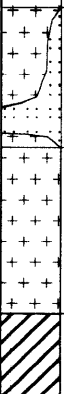
SRC-28						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Soil, Laterite Crust	reddish brown	including Fe nodule	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Qz grain ( $\phi < 2\text{mm}$ )	Ko?	
		Saprolitic weathered Granite	yellowish brown ~ yellow gray	including Qz, Pl, Bi, Mc fine grain Qz, Pl ( $\phi < 2\text{mm}$ ) Bi ( $\phi < 1\text{mm}$ )	Sm, Mc	
		Granite	light gray	Fresh, equigranular coarse grain grain size ( $\phi < 3\text{mm}$ )		
20		Saprolitic weathered Granite	yellowish brown	including Qz, Pl, Bi, Mc grain coarse grain Qz, Pl ( $\phi < 3\text{mm}$ ), Bi, Mc ( $\phi < 2\text{mm}$ ) including Qz fragments	Sm, Mc	
		Granite	light gray	Fresh equigranular including Qz, Pl, Ho, Bi Qz ( $\phi < 3\text{mm}$ ) Pl ( $\phi < 4\text{mm}$ ) Ho ( $\phi < 2\text{mm}$ ) Bi ( $\phi < 1\text{mm}$ )		
30		Granite	light gray			
40		Metasandstone	dark gray ~ greenish gray	fine grain, no sulfide	Ch?	
		Granite	light gray	Fresh equigranular including Qz, Pl, Ho, Bi grain Qz ( $\phi < 5\text{mm}$ ) Pl ( $\phi < 5\text{mm}$ ) Ho ( $\phi < 4\text{mm}$ ) Bi ( $\phi < 2\text{mm}$ )		
50		Basic Inclusion	dark gray	Ho, Bi rich		
		Granite	light gray			

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-29



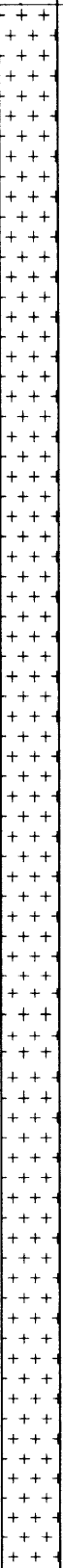
Position : N1500 E200 depth : 60m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	yelloish brown	laterite crust with many Fe-nodules (50-60%), clay minerals quartz.5%	Hematization	
		Saprolite	greyish brown	5-8m : saprolite with many clay minerals (montmorillorite, illite, lap.omote), quartz (5-10%) 6-7m : white quartz	Kao Chl	
		Weathered Granite	greyish brown	weathered granite, micas (biotite), quartz (15-20%), fedspaths		
20		Granodiorite	greyish brown	greyish rock with 60% of white minerals (45% of feldspath, 15% of quartz) and 40% of dark minerals (20% of biotite, 20% of hornblende)  granodiorite with some sulfieds (cp, py<1%) and chlorite	Chl	py, cp<1%
30		Meta-andesite	dark brown	meta-andesite, sulfieds (py, cp = 1-3%)	Chl	py, cp =1-3%
40		Granodiorite	dark brown			
50		Meta-andesite	dark brown	meta-andesite, sulfieds (py, cp = 1-3%)	Chl	py, cp =1-3%
		Granodiorite	dark brown			
		Meta-andesite	dark brown	meta-andesite, sulfieds (py, cp = 1-3%)		
		Granodiorite	dark brown			
		Meta-andesite	dark brown	meta-andesite, sulfieds (py, cp = 1-3%)		
		Granodiorite	dark brown			



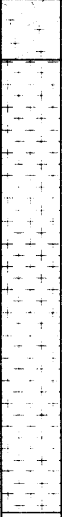
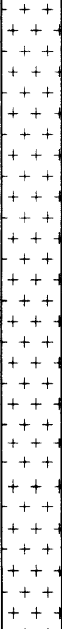
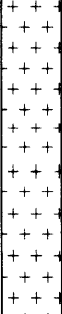
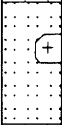
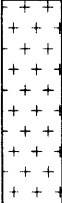
SRC-30						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Soil and Laterite crust	dark reddish brown	including Fe nodule ( $\phi < 5\text{mm}$ )	Lateritization	
		Laterite (clay carapace)	reddish brown	including Qz grain ( $< 2\text{mm}$ ) and clay mineral (Ko?)	Ko	
		Transitional zone	yellowish reddish brown	including granite fragments		
20		Saproritic weathered Granite	yellow gray	including Qz ( $< 2\text{mm}$ ), Pl ( $< 2\text{mm}$ ), Bi ( $< 2\text{mm}$ ), Mc grain	Sm and Mc	
		Granite		Fresh Granite including Qz ( $< 3\text{mm}$ ), Pl ( $< 4\text{mm}$ ), Ho ( $< 3\text{mm}$ ), Bi ( $< 1\text{mm}$ ), equigranular		
30		Granite	light gray			
		Metasediment		including samitic schist		
40		Granite		Fresh Granite including Qz ( $< 3\text{mm}$ ), Pl ( $< 4\text{mm}$ ), Ho ( $< 3\text{mm}$ ), Bi ( $< 1\text{mm}$ ), equigranular		
		Metasediments	dark greenish gray	schisticity samitic schist	Ch	very little Py very rare
50		Granite	light gray ~ reddish gray	including red colored Pl grain size : Qz ( $< 3\text{mm}$ ), Pl ( $< 3\text{mm}$ ), Ho ( $< 3\text{mm}$ ), Bi ( $< 3\text{mm}$ ) equigranular		
		Strongly silicified rock	reddish gray	Granite origin? including Ch (Ho) no sulfide	Ch	

SRC-31						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite (hard carapace to soft carapace)	reddish brown	Laterite crust including Fe rich nodule ( $\phi < 10\text{mm}$ ) and containing sand (20%), matrix (<40%)	Lateritization	
		Laterite (clay carapace)		including sand (10%) no Fe nodule matrix (>80%)		
		Saprorite to transitional zone	yellowish brown	including clay mineral with weak Ko alteration, otherwise including Qz, Mc, Pl ( $\phi < 1\text{mm}$ )	Ko, Sm	
20		Fresh Granite	light gray	including Qz ( $\phi < 1.5\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ), Hb ( $\phi < 1\text{mm}$ ), Mc		
30						
40						
50						

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-32						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite	reddish brown			
		Clay Laterite	yellowish brown			
10		Granite	light gray			
20						
30						
40						
50						

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-33						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	including Fe nodule	Lateritization	
		Clay Laterite (clay carapace)	yellowish reddish brown	including clay mineral (Ko?) and Qz grain (φ <2mm)	Ko	
		Transitional zone	light yellowish reddish brown	including Qz, Pl grain	Ko or Sm?	
			Saproritic weathered Granite	yellowish gray	including Qz, Pl, Bi, Mc grain and clay mineral	Sm
			including Granite fragment			
30				Fresh Granite equigranular texture including Qz (φ <3mm), Pl (φ <4mm), Ho (φ <3mm), Bi (φ <2mm)		
40		Granite	light gray			
50		Metasediment Granite	light greenish gray	fine grain greenish metasandstone	Ch	
		Meta sediment				
		Granite	light gray	Fresh Granite equigranular texture		

SRC-34						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	yellowish brown ~ reddish brown	including Qz, Mc grain and clay mineral (Ko?) all grain ( $\phi < 1\text{mm}$ )	Ko	
		Transitional zone	reddish brown ~ light reddish brown	including weathered Granite fragment and clay mineral	Ko, Sm, Mc	
20		weathered Granite	yellowish gray	including Qz ( $\phi = 1 \sim 2\text{mm}$ ), Pl ( $\phi = 1 \sim 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ), Mc ( $\phi < 1\text{mm}$ ) grain	Sm, Mc	
gradually bigger grain size ( $\phi < 3\text{mm}$ )						
30		Granite	light gray	Fresh Granite including Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ ) very rarely including very fine Py		
Basic inclusion				including Basic inclusion (gabbroic) Pl, Ho		
40				Granite		
	50	Granite				



SRC-35						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	yellowish reddish brown ~ light reddish brown	including clay mineral (kaolinite?) Qz, Mc (vermiculite?) grain ( $\phi < 2\text{mm}$ )	Ko, Mc?	
20		Transitional zone (mottled zone)	light reddish brown	including clay mineral (Ka, Sm) and Qz, Mc ( $\phi < 3\text{mm}$ )	Ka, Sm	
30		Saprolitic weathered Granite	yellowish gray	including Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 3\text{mm}$ ), Bi ( $\phi < 3\text{mm}$ ) and clay mineral (smectite?)	Sm	
40		Granite	light gray	Fresh Granite equigranular including Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
50						


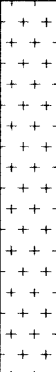
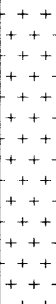
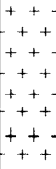
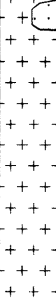
Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-37									
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation			
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization				
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (kaolinite?) Qz grain ( $\phi < 3\text{mm}$ )	Ko				
		Transitional zone (mottled zone)	yellowish reddish brown	including clay mineral, Qz, Pl, Bi grain ( $\phi < 1\text{mm}$ )	Ko, Sm				
		Saprolitic weathered Granite	yellowish gray	including clay mineral, Qz, Pl, Bi, Mc grain ( $\phi < 1\text{mm}$ )	Sm, Mc				
20		Granite	greenish gray	Fresh Granite equigranular including Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )					
30									
40									
50									
					Metavolcanics		Metavolcanics? (xenolith?) with littel pyrite dissemination	Py disseminated	
					Metavolcanics		Metavolcanics? (xenolith?) with littel pyrite dissemination	Py disseminated	



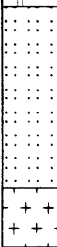
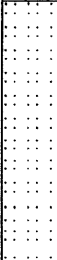
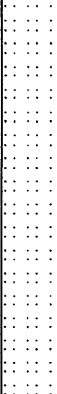
Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-39

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (kaolinite?) Qz grain ( $\phi < 3\text{mm}$ )	Ko	
20		Transitional zone (mottled zone)	yellowish reddish brown			
		Saprolitic weathered Granite	yellowish brown	including clay mineral (smectite?) Qz, Pl, Bi, Mc grain ( $\phi < 4\text{mm}$ )	Sm?	
		Saprolitic weathered Metavolcanics	yellowish grey	including metavolcanics fragments, metagabbro with little pyrite		Py
		Granite	light gray	Fresh Granite		
30		Metavolcanics?	greenish dark grey	weakly silicified metavolcanics with Py disseminated	Ch?	Py disseminated
		Granite	light gray	Fresh Granite equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )		
weakly altered Pl, light green (Ch?)	Ch?					
Fresh Granite equigranular Qz ( $\phi < 3\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Ho ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 1\text{mm}$ )						
50		Metavolcanics	greenish dark grey	weakly silicified metavolcanics with Py dissemination	Ch?	Py disseminated
		Granite	light gray	Fresh Granite		

SRC-40						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe crust ( $\phi < 10\text{mm}$ )		
		Clay Laterite (clay carapace)	reddish yellow	including clay mineral (kaolinite?)	Ko	
	Transitional zone (mottled zone)	light reddish yellow	including clay mineral and Qz grain			
	Saprolitic weathered Granite	yellowish gray	including clay mineral (smectite?) Qz, Pl, Bi, Mc grain	Sm		
20		Granite	light greenish gray ~ light gray	equigranular including Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 4\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ), Ho ( $\phi < 3\text{mm}$ ) grain partly (mafic and Pl) chloritized	weakly Ch	Py
30		Granite	light greenish gray ~ light gray		weakly Ch	Py
40		Granite	light greenish gray ~ light gray		weakly Ch	Py
50		metasediments	dark gray	with Py dissemination, fine grain, xenolith	weakly Ch	Py
		Granite	light greenish gray ~ light gray			
	metasediments	dark gray	xenolith		weakly Ch	Py
	Granite	light greenish gray ~ light gray				

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-41						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe crust ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish yellow	including clay mineral (Ko?) and Fe nodule	Ko	
		Transitional zone (mottled zone)	yellowish reddish brown	including Sm? and Mc	Sm,Ko,Mc	
20		Saprolite	yellow brown	including rock fragments and clay mineral (Sm?) and rarely Qz grains.	Sm, Mc	
				including rock fragments of metasediments or metavolcanics (<30mm)		
30		Metasediments (metasandstone)	greenish dark gray	including Bi weakly silicified, Py disseminated (maybe Hornfels)	Ch?	Py disseminated
		Granite	dark gray	fresh, mafic rich		
40		Metasediments (metasandstone)	greenish dark gray	including Bi with very little pyrite disseminated (maybe Hornfels)	Ch?	Py disseminated
50		Metasediments (metasandstone)	greenish dark gray		Ch?	Py disseminated

SRC-42						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust (carapace)	reddish brown	including Fe crust ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Mc	Ko	
		Transitional zone (mottled zone)	yellowish reddish brown			
10		Saprolite	yellow brown ~ yellowish gray	including clay mineral (Sm?) and Mc grain samitic schist origin	Sm	
20						
30		Transitional zone weathered Mc schist		including rock fragments of Mc schist		
40				partly chloritized with Py dissemination		
50		Samitic schist			Ch?	Py disseminated

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-43						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Mc	Ko, Mc	
20		Saproelite	yellowish brown	including clay mineral (Sm?) and Mc	Sm, Mc	
			yellowish gray	including rock fragments, clay mineral and Mc	Sm, Mc	
30		Saproilitic weathered Metasediments	yellowish gray	including rock fragments of metasediments	Sm, Mc	Py
40		Metasediments	dark gray	samitic schist weakly silicified with secondary Qz (φ 1~2mm) film pyrite partly chloritization		
50						
						Py

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-44						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
10		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko?) and Mc mica schist origin	Ko?	
	yellowish brown					
20	light reddish brown					
30		Saprolite	light yellowish brown	very fine, mica schist origin including clay mineral (Sm) and Mc	Sm	
				including rock fragments of Mc schist ( $\phi < 20\text{mm}$ )		
40		Samitic schist ~ Mica schist	dark gray	partly silicified Py disseminated	silicified	
					silicified	Py disseminated
50						strongly Py disseminated

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala



SRC-45						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
10		Saprolite	yellowish brown	including clay mineral (Sm?) and Mc metasediments origin (samitic schist, mica schist)	Sm, Mc	
30	increase rock fragments of metasediments, mica schist			Py		
40		Metagabbro or metavolcanics	dark	porphyritic texture with few pyrite dissemination	Ch	Py disseminated
50		Qz vein				

Apc.24 Diaggraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-46						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)		including Fe nodule ( $\phi < 10\text{mm}$ ) including clay mineral and Qz grain	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown		Ko	
20		Saprolitic weathered Granite	yellowish brown ~ yellowish gray	including clay mineral (Sm?), Qz, Pl, Bi grain	Sm	
30		Granite	light gray	Fresh		
		Metavolcanics	dark gray	including Pl phenocryst		
		Granite	light gray	Fresh		
40		Metagabbro	dark gray	weakly silicified, fine grain with Py dissemination	silicified	Py disseminated
50		Granite	light gray	Fresh equigranular		

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-48						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite Crust (carapace)	reddish brown	including Fe nodule	Lateritization	
10		Clay Laterite (clay carapace)	light reddish ~ yellowish brown	including clay mineral (Ko?), Qz grain (φ <2mm)	Ko	
20		Transitional zone	yellow brown			
		Saprolitic weathered Granite	yellowish gray	including clay mineral, Qz, Pl, Bi grains	Sm	
30		Metagabbro	yellowish gray	fine, equigranular (φ <1mm) basic inclusion?		Py
		Granite basic inclusion		Granite ; equigranular, Qz (φ <4mm), Pl (φ <4mm) Ho (φ <3mm), Bi (φ <1mm)		
		Granite basic inclusion				
40		Granite basic inclusion	light gray			
		Granite basic inclusion				
		Granite				
50		Metavolcanic	greenish gray		Ch	Py disseminated
		Granite	light gray			

Apc.24 Diagrapie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-49		Position : N3250 E500 depth : 60m				
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-9m hard-soft carapace a lot of Fe-nodules $\phi < 1\text{cm}$		
			brown ~ yellowish brown	9-21m clay carapace, no Fe nodule Qz grain (<5mm) including		
20		Weathered Otrandio	brown	qz, Pl<2mm		
30		Granodiorite	gray	ho, bio granodiorite, Pl<4mm, bio, ho<2mm partly including microdiorite-xenolith, some chl film along the fracture		↓ py stam <1%
40				40-41m : chl, cal, and py dism		↓ py<1%
50				46-47m : micro diorite (xono lith)		↓ py

SRC-50						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (hard carapace to soft carapace)	reddish brown	including Fe rich nodule ( $5 < \phi < 20\text{mm}$ ) matrix < 40%	Lateritization	
		Clay Laterite (clay carapace)	yellowish brown	including a few sand and more matrix clay mineral with weak Ko alteration	Ko, Sm	
20			reddish brown	including granitic sand with hematite	Sm, Hm	
		Transitional zone	brown	including granitic sand with a few pink patch		
30		Sapolite to weathered Granite	yellowish brown to gray	unclear texture, partly including fine granitic sand and clay mineral, a few Pl, Qt, Bi		
		weathered Granite	brownish dark gray to green	with hematite alteration		
40			yellowish to greenish gray	including Qz, Pl, Bi and clay mineral	Sm, Mc	
		Fine Granite	light gray	equigranular including Qz ( $\phi < 1\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ) and Ho ( $\phi < 1\text{mm}$ )		
50		basic inclusion				
		Fine Granite	black light gray			
		Metasediments and Metavolcanics	black	including Py (veinlet, disseminated) and arsenopyrite	Ch	Py (veinlet, disseminated) and arsenopyrite
		Granite	light gray			

Apc.24 Diagrapie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-51		Position ;		depth :		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-9m hard carapace Fe-nodule < 1mm rich		
			yellowish brown	9-13m clay carapace no Fe-nodule		
20		Saportite	brown	all phenocryst altered small qz grain (< 1mm) including		
30		weathered Gt.	gru green	many pl and bio fragment (why altered)		
		Granodiorite	gray	ho bio granodiorite, coarse, Pl < 5m, bio, ho < 2mm 53-54m silicification		
40		Meta Andesite				↓ py Asp (< 1%)
50		Grandiorite				↓ chl, cal

Apc.24 Diagrapie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-52						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (hard carapace to soft carapace)	reddish brown	including many Fe rich nodule ( $5 < \phi < 20\text{mm}$ ) matrix ; 30-50%	Lateritization	
		Clay Carapace (mottled texture)	yellowish ~ reddish brown	including a few Fe nodule ( $\phi < 1.5\text{mm}$ ) partly mottled texture with two colored clay nodule matrix > 80% weak Ko alteration	Ko	
		Transitional zone	yellowish brown to green	including fine to coarse grain of Qz, Pl, Bi	Ko	
20		weathered Granite	yellow to green		Sm, Mc?	
		Fresh Granite	light gray	equigranular Qz ( $\phi < 1\text{mm}$ ), Pl ( $\phi < 2\text{mm}$ ), Bi ( $\phi < 2\text{mm}$ ), Ho ( $\phi < 1\text{mm}$ )		
30		Basic inclusion	black	volcanics		
		Granite	light gray	Fresh		
40		basic inclusion	dark gray to black	basic rock (metavolcanics) with a few light gray granite fragment including CC, Ch, Py	CC, Ch	Py disseminated
			light gray to black	including Py in contact between volcanics and granite		Py disseminated
50		Granite		Fresh		

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-53		Position : depth : 60m						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation		
10		Carapace	reddish	0-5m (soft~hard) carapace a lot of Fe-nodule				
			brown	5~16m, clay carapace Fe-nodule rare including clay mineral (rich)				
20		Saporite ~ Weathard Gr.	yellowish brown	weathered granito~saporite Pl<2mm (altered), bio including				
			gray	biho granodiorite, Pl<4mm ho, bio<2cm				
30		Metasediment	gray	metasediment, finegrained, wky dismeel by Py			↓ Chl Cal	↓ Py (<1%)
		Granodiorite	gray	ho bio granodiorite, Pl<4mm, ho, bio,2cm				
		Metasediment	dk gray	dk gray, finegrained, qz vem wky dismeel by Py Asp?				
50		Granodiorite	gray	ho bio granodiorite, Pl<4mm bi ho<3mm, qz<2mm	↓ Chl Cal	Py(<1%)		
		(Metasediment)						



SRC-54						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust	reddish brown	including many Fe rich nodule ( $\phi < 10\text{mm}$ )		
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko) and Mc	Lateritization	
		Transitional zone	yellowish reddish brown			
20		Saproelite		including clay mineral (Sm) and Qz, Pl, Bi, Mc metasediment origin	Sm	
		Saproilitic weathered granite and weathered Mc schist	yellowish gray	including clay mineral (Sm) and Qz, Pl, Bi, Mc	Sm	
		Metasediment Mc schist	dark gray	including rock fragment of Mc schist		
30		Granite	light ~ dark gray	including zenolith (rich) Qz, Pl, Ho, Bi dark inclusion rich (Bi?) metasediment origin?		
		Mc schist		including Bi, schistosity		Py disseminated
40		Silicified zone	dark gray			
		Mc schist				
50		Granite	light ~ dark gray	including zenolith (Bi rich) Qz, Pl, Ho, Bi with Py dissemination		
		Mc schist				Py disseminated
		Mc schist	dark gray	Bi rich		
		Granite	light ~ dark gray	including zenolith Qz ( $\phi < 4\text{mm}$ ), Pl ( $\phi < 5\text{mm}$ )		

Apc.24 Diagrapie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-55							
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation	
		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization		
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko) and Mc	Ko		
		Transitional zone					
10		Saprolite	yellowish brown	including clay mineral (Sm) and Mc ( $\phi < 10\text{mm}$ ) Mc schist origin with Qz vein (16-17m)	Sm		
20		Transitional zone weathered mica schist	yellowish brown	including rock fragments of mica schist	Sm		
30		mica schist	dark gray	weakly silicified partly Py disseminated partly chloritized	weak silicified	Py disseminated	
40						Ch weak silicified	Py disseminated
							Py disseminated
50						weak silicified	Py disseminated

SRC-56						
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite Crust (carapace)	reddish brown	including Fe nodule ( $\phi < 10\text{mm}$ )	Lateritization	
		Clay Laterite (clay carapace)	light reddish brown	including clay mineral (Ko) metasediments origin	Ko?	
20		Saprolite	yellowish gray	including clay mineral (Sm?) and Mc metasediments origin including Qz vein and grain ( $\phi < 3\text{mm}$ )	Sm, Mc	
				including rock fragments of metasediments		
30		metasediments (mica schist samitic schist)	dark gray	partly silicified including Qz vein (28-29m) and silicified zone (30-31, 39-41, 58-59m) Py disseminated	Ch, Ep	
					silicified zone	
					Ch, Ep	
40		metasediments (mica schist samitic schist)	dark gray	partly silicified including Qz vein (28-29m) and silicified zone (30-31, 39-41, 58-59m) Py disseminated	silicified zone	Py disseminated
50		metasediments (mica schist samitic schist)	dark gray	partly silicified including Qz vein (28-29m) and silicified zone (30-31, 39-41, 58-59m) Py disseminated	Ch, Ep	
					silicified zone	Ch, Ep

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-57		Position : N3000		depth : 72m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Laterite	reddish brown	laterite chest, small qz grain including		
		Carapace	reddish brown	carapace, including small Fe-nodule and clay		
10		Clay (Mottled zone)	reddish brown yellowish brown	Motteled Zone, small fragments of metasediment (psamitic schist) are rich in 9-10 and 12-13m depth		
20		Sapornite	grn. brown	Sapornite, kaolinite and mica fragment rich		
30		Weathered Granite	grn. gray	Weathered Granite, Qz, plagioclase, and mica fragment 35-37m		↓ Py dism (1-2%)
40		Granodiorite	gray (bk, wht)	ho bio granodiorite (fresh) qz, pl, bio, ho ; 2-4m		
50				63-65m wky dismed by Py (<1%) fracture with Chl and Cal film	↓ Chl	↓ Py dism <1%


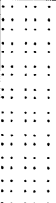

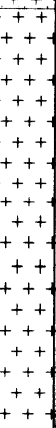
Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-58

Position : N3000, E700 depth : 48m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterite crest hard carapace	reddish brown	Laterite crest-hard carapace Qz fragments including	↓ Chl	py-cp <1%
		Carapace	reddish brown	Carapace, including clay		
		Saprorite	brown	Saprorite, including many wht clay (kao, smac)		
20		Weathered Granite	brownish gray ~ gn gray	Weathered granodiorite Pl, Qz, bio fragment, wky chlitized		
		Granodiorite	greenish gray ~ gn gray	ho bio granodiorite, cp-py dism <1% 18-39, bk metasedment (xenolith) Chl, Cal, film along fracture		
40		Gabbro-diorite	dk gray	gabbro-diorite, trefine-xenolith, ho <1mm		
		Granodiorite	gray	ho bio granodiorite bio, ho, Pl <4mm, cp-pydis, Chl, Cal <1%		
50						

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-59		Position : N3000, E800 depth : 51m				
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Carapace	reddish brown	hard~clay carapace, including qz fragments (<5mm), Fe-nodule (2-10m) and clay		
10		Psamitic Schist	yellowish brown	m-f grained psamitic schist including clay (kao,ser)		
20		Weathered Granite	reddish brown	strongly weathered granite, a lot of mica and qz fragments		
30			yellowish brown			
40		Granodiorite	gray	ho bio Granodiorite		↓ dismed by Py-Cp <1%
50				43-45m meta S.S. xenolith, dismed by Py-Cp (1-2%)		
				45-51m partly including meta S.S.		

SRC-60		Position :		depth : 42m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-7m hard-soft carapace Fe-nodule<1cm	↓ Chl	
			yellowish brown	7-19m Clay carapace, wht clay (kaoline) including		
20		Saprolite	"			
30		Weathered Granite	grn gray	pl, bio, and few qz fragment		
			Granodiorite	gray	ho bio granodiorite Pl<4mm, partly Cal, Chl fiom	
40						
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-61		Position :		depth : 42m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-3m hard carapace Fe-nodule<1m		
				3-6m soft "		
				6-9m clay "		
20		Saprolite	brown ~ yellowish brown	Saprolite, some qz grain including clay mineral (kao, ser)		
30		Weathered Granite	greenish gray	strongly altered granodiorite, Pl, mica, qz<2mm	↓ Chl Ser	
40		Granodiorite	gray			↓ sulfied dism
50						



SRC-62

Position :

depth : 42m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	Carapace 0-1m : Fe-nodule rich 1-3m : Fe-nodule and clay rich 3-9m : clay carapace, kaoline		
		mottled zone	yellowish brown	Fe oxide, clay (kaoline), mica, qz fragment		
		Saprolite	yellowish brown	Saprolite, Fe oxide, qz, mica, clay mineral		
20		Weathered Granodiorite	gray	Weathered Granodiorite, Pl<2mm, a lot of qz and mica fragments		
30		Granodiorite	gray	ho bio granodiorite Pl<4mm, ho<1mm, bio<2mm Qz<2mm		
40						
50						

SRC-63		Position :		depth : 57m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-10m : soft carapace including a lot of Fe-nodule<4mm  10-17m : clay carapace Fe-nodule poor		
20		Saprolite	brown	strongly altered		
30		Weathered Granite	gn brown	weathered granite pl, biotite fragment<2mm	↓ Chl	
40		Granodiorite	dk gray ~ gray			
50		Dolerite	dk gray		↓ Cal Chl	↓ Py, Asp dism

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-64		Position :		depth : 84m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Carapace	reddish brown	laterite crest ~ carapace Fe nodules rare		
10		Saporolite	reddish brown	Saporolite, including clay mineral (kaorine, sericite, smea) small, mica fragment		
30		Weathered Granite	pale brown	weathered granite, ho, bio, Qz<1mm		
40		Granodiorite	gray	ho bio granodiorite partly Aprite ho, bio<1mm Qz<4mm, dismed by sulfide and Chl Alt along the fracture Cal a little	↓ Chl	dismed by py-cp<1%
50		Gabbro? →meta snd	bk-dk gn gray	Gabbro? very fine Pl<0.3mm ho?<0.3mm dismed by py-cp<1%	↓ Chl	py-cp<1-5%
		Granodiorite	gray	ho bio granodiorite, wky chl alt ho, bio<2mm, Pl<4mm, Py-cp<1%	↓ Chl	<1%
		Dolerite	dk, gr gray	Gabbro? ho?<0.3 Pl?<0.3 dismed by py-cp<1%~5%		
		Granodiorite	gray	ho bio granodiorite, ho<2mm, bio<1mm, Pl<mm 76-78m : including dolerite?		

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-65		Position :		depth : 60m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-3m : hard carapace Fe-nodule<4mm		
				3-9m : soft carapace		
			brownish yellow	9-15m : clay carapace including wht clay(kaorinite)		
20		Saprolite	pinkish brown	saprolite, very soft, kaolinite		
		Weathered granite	gm brown ~ gm gray	weathered granite, altered pl and mica fragments<2m		
30						
		Granodiorite	gray	ho bio granodiorite bio<2mm ho<2-3mm Chl and cal along fracture	Chl	
40						
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-66		Position :		depth : 45m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-3m : hard carapace Fe-nodule rich		
				3-12m : clay carapace		
20		Saprolite	yellowish brown ~ brown	saprolite, no texture including a lot of clay mineral		
30		Weathered Granite	greenish gray	strongly weathered granitoid roke, many mica fragment and clay		
40		Granodiorite	gray	ho bio granodiorite : Pl, ho, bio<3m	↓ Cal Chl	↓ Py dism
		Metasediment	dk gray	metasediment, wky dismed by Py		
50		Granodiorite	gray	bio ho granodiorite Pl<3m		

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala




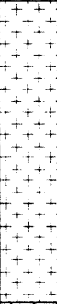

SRC-67		Position :		depth : 39m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown ~ yellowish brown	0-3m : hard carapace ( Fe-nodule rich)		
				3-5m : soft " ( " )		
				5-10m : clay, no Fe-nodule, clay mineral		
20		Saprolite	brown	saprolite, texture is not clear, some kaolinite		
30		Weathered Granodiorite	granish brown	strongly altered, weathered granodiorite, most of phenocrist (pl, ho) are altered by chl, smec, kaolinite	chl	
40		Granodiorite	gray	ho bio granodiorite (fresh) pl<4mm, vio<3mm, ho<2mm		
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-68

Position :

depth : 36m


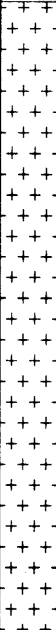
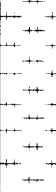
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Carapace	reddish brown	soft carapace, Fe-nodule slam (20%)		
10		Carapace	reddish brown ~ yel brown wht			
		Transition zone	brown	altered and weathered granitic rock, Qz<1mm, kaolinite		
20		Weathered Granodiorite	gn gray	weathered granodiorite Pl<2mm, fine grained mica kaolinite	↓ Chl	
30		Granodiorite	gray	ho bio diorite (fresh) Pl<4mm, bio<3mm, ho<1mm Qz 2-3mm		
40						
50						

SRC-101		Position : N2000 E300 depth : 60m				
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	brown	0-3m : hard carapace with many Fe-nodules (20-40%), clay minerals, oxides of Fe, Mn. quartz < 10% 3-6m : soft carapace with many clay minerals (kaolinite, illite, montmorillonite), quartz (5-10%)	Lateritization Hematization	
		Granitoid Sapolite	yellowish brown	argillous rock with kaolinite (feldspath presence), quartz (5-10%), micas (<5%), granitoid sapolite	Limonitization Hematization	
20		Weathered Granodiorite	yellowish brown ~ greenish brown	altered rock with kaolinite (feldspath), quartz (15-20%), micas (15-20%) 11-19m : more altered granodiorite (yellowish brown) with limonite, kaolinite, montmorillonite 19-28m : less altered granodiorite (greenish brown) with kaolinite		
30		Granodiorite	greyish brown	28-37m : greyish granular rock with 60% of clear minerals (feldspath = 40%, quartz = 15-20%), 40% of dark minerals (hornblende = 20-25%, biotite = 15-20%) disseminations of sulfides (cp, py < 1%), zenoliths 37-51m : granodiorite with high humidity (70-90% of water) = zone of faults ? 52-54m : potassic alteration	Chl	cp, py < 1%
40		Granodiorite	greyish brown			
50		Granodiorite	greyish brown		Chl Cal	
		Meta-sediment		Meta-sediment with more sulfides (cp, py = 2-5%)	Chl Silicification	cp, py = 2-5%
		Granodiorite				



SRC-102		Position :		depth : 42m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	reddish brown	0-4m : reddish brown color, altered oxide (Fe) Fe-nodules $\phi$ 9mm, some quartz matrix>30%		
			brown	4-6m : clay carapace, brown color, no Fe-nodule, altered oxide (Fe) matrix>60%, coarse quartz grain weakly oxidized		
		Saprolite	brown ~ yellowish brown	some kaolinite fine texture, some coarse quartz grain		
			Transition zone Saprolite ~ Weathered Granite	brown white pink		
20		Weathered Granite	greyish green	bio, Pl, quartz grain, chl, Pl<4mm bio<2mm qtz<3mm	Chl, oxid, smectite	
			Weathered Meta-andesite	greyish green		biotite, chloritized, porphyritic texture weakly weathered
30		Weathered Granite	greyish green	Pl, biotite, quartz grain, chloritized, smectite, grain size 2-4mm, including pink Pl grain		
			Weathered Meta-Greywacke	greyish green		altered, chloritized, medium grained Pl, quartz grain
			Weathered Granite	greyish green		Pl, biotite, quartz grain, chloritized, smectite, grain size 2-4mm, including pink Pl grain
40		Granite	greyish green	greyish color, fresh rock, coarse grained Pl<4mm, biotite<2mm, quartz<3mm, ho<4-8.5mm		
			50			

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-103		Position : N2000 W100 depth : 60m				
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Carapace	brown	0-3m : laterite crest, hard carapace with Fe-nodules (40-50%), clay minerals, quartz fragments (2-5%)	Lateritization Hematization	
			yellowish red	3-6m : soft carapace with montmorilliorite, limonite, kaolinite, les ferrice nodules, quartz fragments (5%)	Argilization	
			yellow	6-12m : clay carapace with many clay minerals, quartz fragments (5-10%), kaolinized (feldspath presence) = sciprolite of granitoid	Limonitization Kaolinitization	
	Weathered Granodiorite	greenish gray	weathered granodiorite with kaolinite black mica (biotite), automorph quartz (10-15%)	Kao Chl		
20		Granodiorite	gray	greyish rock with 60% of white minerals (45% of feldspath and 15% of quartz),  40% of dark minerals (20% of biotite, 20% of hornblende)	Chl	Py, Cp<1%
sulfied as calcopyrite, pyrite<1% chlorite, porphyritic, coarse crestals of feldspath and mafic minerals						
50		Meta-andesite	gray	quartz, pl, augite meta-andesite with sulfied dissemination	Chl	Cp, Py (1-2%)
		Granodiorite Meta-andesite	gray	mixing of two rocks : granodiorite (70%) meta-andesite (30%)		
	Granodiorite	gray				
	Meta-andesite	gray	meta-andesite with high chloritization	Chl	Cp, Py (1%)	
	Granodiorite	gray				

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-104

Position : N2000 E000 depth : 60m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Laterie Crust	reddish brown	0-6m : hard carapace rich in Fe-nodules, less quartz fragments (1-2%), the matrix is argillo-fervigeneous	oxides of Mn, Fe hematite, goethite	
		Soft Carapace		6-8m : soft carapace with less Fe-nodules, montmorilliorite, kaolinite, quartz (1-2%)	Hematization	
		Clay	reddish yellow	8-12m : clay carapace, limonite, montmorilliorite, lenses of kaolinite, quartz fragments (1-2%)	Montmorilliorite Kaolinite	
20		Saprolite	brown	argillous rock, Fe-nodules (2-5%), quartz (1-2%), kaolinization, kaolinitization = meta-andesite?	Argillization Kaolinization	
		Weathered Meta-andesite	green	quartz (<5%) altered fragments with fathspathand and chlorite = weathered meta-andesite	Chl Kao	
30		Meta-andesite	gray	feldspath (40-60%) mafic minerals (30-40%) quartz (<5%) sufieds : association of chalcopyrite, pyrite, pyrorite? (0.5-3%)	Chl	Cp, Py, Po? 0.5-3%
40						
50						

SRC-105		Position : N1250 E100 depth : 60m				
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Soft Carapace	yellowish brown	silt and Fe-nodules (10-20%) quartz<5%	Lateritization Hematization	
		Saprolite of Granitoid	reddish brown	silt-clay column with kaolinite (feldspath), quartz (5-15%), micas	Lateritization Argillization	
20		Weathered Granodiorite	yellowish brown ~ green	altered faces, micas, quartz (10-20%), feldspath, kaolinization, 9-12m : more altered granodiorite (yellowish brown) 12-15m : less altered granodiorite (green)	Chl Kao	Cp, Py, Po<1%
		Granodiorite	gray	60% of clear minerals (45% of feldspath, 15% of quartz), 40% of dark minerals (15% of biotite, 25% of hornblende), sulfides (Cp, Py, Po<1%)  16-17m : smoky white quartz (3cm), sulfides (Cp, Py, Po =1-2%), quartz veinlets  19-23m :sulfides (Cp, Py =1-2%)  23-24m : assimilation of mafic rock	Chl	
		Meta-andesite	gray	argite, feldspath, dissemination of sulfides (Cp, Py, Po =1-2%)	Chl, Cal	
30		Granodiorite	gray	39-40m : including meta-andesite		Cp, Py, Po =1-2%
		Meta-sediment	gray	schistosity structures =meta-sediment with sulfides (Cp, Py, Po =2-5%)	Chl, Silicification Cal	
40		Granodiorite	gray			Cp, Py, Po =2-5%
50		Granodiorite	gray			

SRC-106

Position : N1250 E200

depth : 45m

Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Soft Carapace	reddish brown	0-2m : soft carapace, Fe-nodules<3%, quartz (5-10%), illite, montmorilliorite	Laterization Kao Argillization Hematization	
		Granitoid Saprolite	brown	2-8m : argilleous rock, kaolinite (feldspath), illite, montmorilliorite, quartz (10%)		
10		Weathered Granodiorite	brown ~ green	weathered granodiorite, biotite, quartz, feldspath in kaolinization	Chl Kao	
				8-13m : more altered granodiorite, many clay minerals (brown)		
20				13-29.3m : less altered granodiorite, less clay minerals (green)		
				28-29m : smoky white quartz, sulfides disseminations (Cp, Py =1-2%) = presence of quartz veinlets		
30		Granodiorite	gray	felds path (40-50%), quartz (15-20%), biotite (10-15%), hornblende (15-20%)	Chl	Cp, Py = 1-2%
		Pink Granite	pinkish gray	orthose, Pl (45-50%), quartz (25-35%), mafic minerals (15-25%)		
		Granodiorite				
		Meta-greywacke	gray	meta-greywacke, sulfides (Cp, Py = 2-5%)		
		Granodiorite	gray			
40		Pink Granite	pinkish gray	orthose, Pl (45-50%), quartz (25-35%), mafic minerals (15-25%)		Cp, Py =1-2%
		Granodiorite	gray	42-45m : zone of water flow		
50						

SRC-107		Position : N1250 E300		depth : 60m		
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
		Soft Carapace	brown	0-3m : soft carapace, Fe-nodules (10-20%), limonite, kaolinite, montmorillorite, quartz (5=10%)	Limonitization Kaolinization	
		Saprolite	reddish brown	clay with kaolinite (feldspath), quartz (10-15%), micas	Kaolinization	
10		Weathered Granodiorite	brown	6-19m : weathered granodiorite, micas (biotite), quartz (15-20%), feldspath in kaolinitization, high chloritization 6-9m : more altered granodiorite 9-19m : less altered granodiorite (greenn) 8-10m, 20m : many centimetric fragments of milk white quartz = presence of quartz veinlets with sulfides (Cp, Py, Po = 1-2%) 16-17m : presence of milk white quartz fragments = quartz veinlet	Chl Kao	Cp, Py, Po =1-2%
20		Granodiorite	brown	granodiorite with milk white quartz fragments (cm) = presence of quartz veinlets with sulfied disseminations	Chl	Cp, Py, Po =1-3%
		Meta-sediment	gray	20-22.8m : schistosity structure 20-21m : smoky white quartz veinlets with sulfied disseminations (Cp, Py =1-2%)		Cp, Py = 1-2%
30		Granodiorite	black ~ gray ~ dark gray	granodiorite with sulfied disseminations and xenolites	Chl	Cp, Py, Po<1%
40						
50						

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-108						
		Position : N500 W200			depth : 75m	
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation
10		Soft Carapace	reddish brown	soft carapace, many Fe-nodules (10-30% of gravels), quartz (5-10%), clay minerals (matrix)	Lasteritization Hematization	
		Saprolite	brown	limonite, kaolinite, montmorillorite, quartz (10015%), micas (2-5%)	Kao Limonitization	
20		Weathered Granodiorite	yellowish brown	weathered granodiorite, micas (10-20%), kaolinite (feldspath), quartz (15-20%), chloritized 12-15m : more altered granodiorite, limonite, montmorillorite 15-21.4m : less altered granodiorite, high chloritization	Chl Kao	
		Granodiorite	green	60-65% of clear minerals : feldspath (40-45%), quartz (15-20%) 35-40% of mafic minerals: biotite, hornblende sulfieds (Cp, Py, Po<1%) granodiorite with xenoliths	Chl	Cp, Py, Po<1%
30		Weathered Granodiorite	greenish gray	weathered granodiorite with high humidity, many clay minerals = zone of faults?		Cp, Py, Po<1%
		Granodiorite	gray			
40		Meta-sediment	gray	many fragments of xenoliths = meta-sediment column?	Chl	
		Granodiorite	gray	52-53m : granodiorite, quartz (veinlets), xenoliths (sulfieds Cp = 1-3%) 55-56m : granodiorite, xenoliths (Cp disseminations)		Cp = 1-3m
		Granodiorite	gray	65-66m : granodiorite, xenoliths (Cp, Py = 1%) 70-71m : granodiorite, xenoliths, sulfieds (Cp, Py, Po = 1-2%)		Cp, Py = 1% Cp, Py, Po = 1-2%

Apc.24 Diagramme géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala

SRC-109						Position : N3250 E1840	depth : 60m
Depth (m)	Column	Lithology	Color	Description	Alteration	Sulfidation	
10		Carapace	brown ~ yellowish brown	0-1m : hard carapace, Fe-nodules (40-50%), quartz (5-10%), clay minerals (matrix)  1-9m : soft carapace, illite, montmorillonite, kaolinite, limonite, quartz >5% 2-3m : granodiorite fragments (2-5%)	Lateritization Hematization		
		Saprolite	yellow	illite, montmorillonite, kaolinite, limonite, quartz fragments (10-15%), kaolinite (feldspath) and sericite = granodiorite saprolite  10-12m : smoky white quartz fragments = quartz veinlets?			
20		Clay	yellow	13-29m : clay rich in sericite, limonite, illite, montmorillonite, quartz fragments (white-greyish quartz veinlets)  14-20m : quartz veinlets, sulfides	Limonitization Sericitization	Cp, Py	
30		Meta-sediment	gray	34-36m : smoky white quartz fragments (veinlets), sulfid disseminations	Limonitization Chl	Cp, Py	
40				36-38m : rock fragments, quartz veinlets  41-52m : chloritized, sericitized fragments, meta-sediment increasing with depth, sulfides, Cp, Py			
50		Meta-greywacke	gray	sericite, chlorite, sulfide disseminations (Cp, Py, Po = 2-5%) : meta-greywacke 52-53m : smoky white translucent quartz veinlet in meta-greywacke, pyrite, carbonate 57-60m : quartzified metagreywacke, less sulfide (Py, Cp < 1%)	Silicification Chl  Cal Chl	Cp, Py, Po = 2-5%  Cp, Py < 1%	

Apc.24 Diagraphie géologique des trous de forages à circulation inverse(RC) dans le Secteur de Sagala