

APPLICATION OF VERTICAL ELECTRICAL SOUNDING FOR GROUND WATER EXPLORATION AROUND BASEMENT COMPLEX TERRAIN. SOUTHWESTERN NIGERIA.



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ABSTRACT

Vertical Electrical Sounding was used for identification of potential groundwater zones in Akure, Ondo state and measurements were taken using Schlumberger Configuration along the four profiles at station intervals of 10 m. A total of 53 VES were conducted with half electrode spacing (AB/2) varying from 1-150 m. This geophysical work was carried out at around Federal housing estate Akure, South-western Nigeria known to be associated with the problems of groundwater aquifer. Many of the boreholes drilled in this area are either perched or later dried-up during the dry seasons including hand-dug wells. The geoelectric sections delineated a maximum of four subsurface geological layers consisting of the top soil, weathered layer, fractured basement and fresh basement. The top soil resistivity values vary from $30.9-257 \ \Omega m$ with thickness ranging from $0.3-5.1 \ m$. The weathered layer resistivity values range from $20.2-2832.3 \ \Omega m$. Its thickness varies from 1.1 and 10.5 m. The fractured basement resistivity range from $23.9 \ to 570 \ \Omega m$, the thickness varies from $2.6-65.6 \ m$. The weathered and the fractured basement constitute the main aquifer units in the study area. The fresh basement resistivity values ranges from $582-64167 \ \Omega m$. The groundwater map generated was used to classify the study area into high, medium and low groundwater potential zones. VES methods have been successfully used to evaluate the groundwater potential of the Federal Housing Estate Akure.

Keyword: VES, Geoelectric Section, Acquifer, Deep fracture and Ground Water Potential Map

INTRODUCTION

The use of electrical resistivity method plays a prominent role in the study of earth crust. This method is commonly used in getting detailed information about hydro-geological setting, geological mapping and foundation study. It is routinely employed in groundwater exploration to locate zones of relatively high conductivity corresponding to saturated strata, as well as providing structural and litho logical information (Olayinka and Olorunfemi, 1992). It may also provide indications of ground water quality. The method has been employed successfully in locating sites for boreholes development in Nigeria Basement Complex (Olorunfemi and Olorunniwo, 1985). Geophysical methods are required as predrilling test for groundwater before embarking on drilling to reduce the possibility of wild-cat search, thus resulting in financial losses through drilling of abortive wells. This geophysical work was carried out at around Federal housing estate Akure, South-western Nigeria known to be associated with the problems of groundwater aquifer. Many of the boreholes drilled in this area are either perched or later driedup during the dry seasons including hand-dug wells (Bayode, 2013; Olanrewaju et al., 2014). Therefore there is need to investigate the frequent causes of this aquifer failure in the area. The area is accessible through Owo-Ilesha express way and is located in the North-eastern part of Akure in Akure northeast local government of Ondo state. The area is relatively populated and can boast of internal road links and fairly distributed social amenities (Fig. 1).

The study area is bounded by Longitude $3^{\circ}56'$ 57" and Latitude $7^{\circ}26'$ 05". It lies within the tropical rain forest belt of hot, wet equatorial climate region characterized by wet and dry seasons with mean monthly temperature of about 27^{0} C. Some part of the layout has tick vegetation comprising of several evergreen leaves and trees. The area though exposed to

effect of erosion. The area is characterized by high reliefs and consists of undulating hills and ridges with isolated rock bodies. It has a tropical climate and the natural vegetation is rain forest. The evaporation in the area is high due to humidity, relatively high sunshine hours and low precipitation. The area is covered in most places by secondary vegetation due to intense cultivation, thereby making the road accessible. Mean annual rainfall is between 1000 to 1500 m. and mean annual temperature is between 24 and 27°C (Ileojo, 1980). The area has two seasons; wet and dry. The wet seasons begging from March to October, while dry season is characterized by hamattan which begging from November to February. The rainfall intensity usually has two peaks. The first peak is between June - July and the other is August -September. As a result of its low relief, the area tends to be sloppy. The erosional features of the area are mainly gully and sheets. It falls within the Precambrian Basement Complex terrain of the country (Rahaman, 1975). The main rock types found in the area include the undifferentiated granite gneiss, quartzite and porphyritic granite with schist impregnation. This consists of undulating hills and ridges. The Basement Complex rocks have nearly zero porosity for groundwater accumulation and movement. They have no pores and where few pores exist they are not interconnected. Due to this condition, their permeability is very low. However, due to tectonic activities that occur as a result of the movement of the physical disintegration and earth crust chemical decomposition of rocks; faults, joints and pores (secondary porosities) are produced. The above process enhances the aquifer characteristics of the crystalline rocks. The occurrence of groundwater within the project area is highly variable and discontinuous depending on the rainfall, permeability of geological formation from the process of weathering or fracturing and groundwater revival (Bayode, 2014).



Fig: 1 Map of the Study area. (NGSA 1976)...

MATERIALS AND METHODS

For this research work, R50 DC Resistivity meters was used for data acquisition along with the metal electrode, connecting cables, hammers, compound/clinometers, measuring tapes and ropes. A total number of 53 Vertical Electrical Sounding (VES) stations were explore.

RESULTS AND DISCUSSION.

The summary of the 53 Vertical Electrical Sounding (VES) interpretation results are presented as table, Depth sounding curves and Geoelectric sections.

Depth Sounding Curves

The observed depth sounding curves were classified into different resistivity curve types. The typical depth sounding curve obtained from the study area are presented (Figs. 3.1 to 3.4) Curves types identified ranges from A,K, H, KH, HK, HA to HKH and AKH curve (Keller and Friscknecht, 1996) with three to five geoelectric layers along the four traverses. The H curve type dominates, constituting 41% of the totals while the A-type constitutes 20.8%, HKH constitute 17%, KH and HK constitutes 7.5% each while HA, K and AKH constitute 2.3% each.

Geo-electric-Section

The interpretation of field resistivity data are in terms of resistivity's, depth to the bedrock and the interfaces across which a strong electrical contrast exists which can be interpreted as the geological strata. The electrical resistivity varies between different geological materials, depending mainly on variation in water contents and dissolved ions in the water. The analysis and interpretation of the survey data showed different geo-electric layers. The geo-electric sections generated across the study area are presented in (Figs. 3 and 4). Four subsurface geo-electric units were delineated. These are the topsoil, weathered layer, fractured basement and the fresh basement. The topsoil is the first layer with the resistivity values ranges from 73-267 Ωm. The thickness values ranges from 0.4-5.1 Ω m. The topsoil is made up of clay, sandy-clay, clayey-sand and laterite. The second layer is the weathered layer. The resistivity values ranges from 41-205 Ω m. The thickness varies from 1.1-8.4 Ω m. The weathered layer is composed of clay, sandy clay and clayey sand. The Third layer is the fractured basement. The resistivity values ranges from 85-570 Ω m. The thickness value varies from 23.9-54.9 Ω m. The fractured basement is made up of partly weathered/ fractured basement. The last layer is the fresh basement. The resistivity values ranges from 582-20614 Ω m. The weathered and the fractured basement constitute the aquifer units in the study area.



Fig 2a: Data acquisition map showing VES stations



Fig 2b: Data acquisition map showing VES stations



Fig. 3.a. Geoelectric Section Along Traverse 1





TOPSOIL

WEATHERED LAYER

FRESH BASEMENT

FRACTURED BASEMENT

TOPSOIL WEATHERED LAYER FRACTURED BASEMENT FRESH BASEMENT

Fig. 3.b. Geoelectric Section Along Traverse 2



Fig. 3.4: Geoelectric Section Along Traverse 4





Fig. 4.1: Bedrock Relief Map of the Study Area.



Fig 4.2: Groundwater Potential Map of the Study Area

CONCLUSION

The results of the interpretation of the data obtained from geoelectric exploration for favorable groundwater conditions in hard rock environment of Federal Housing Estate, Akure were deduced in this study and a maximum of five subsurface geologic layers were delineated from the 53 Vertical Electrical Sounding stations along the four traverses established These include the topsoil, clayey-sand or sandy-clay, weathered layer, fractured basement and fresh basement. Also, the Vertical Electrical Sounding carried out randomly is to have the basic knowledge of the lithologic characteristics of the environment under study. The topsoil resistivity values ranges from 32.0 Ω m to 4347 Ω m and overburden thickness values vary from 0.4m to 2.4 m. The Weathered layers resistivity values range from 57.6 Ωm to 783 Ωm and thickness values vary from 1.3 to 14.9 m. Some fractured zones were identified on VES 35, 47 and 50. The fresh basement has resistivity value ranging between 458 Ω m to 4743 Ω m. The electrical resistivity has been employed successfully in locating sites for borehole development in the south-western part of the Nigerian basement (Olorunfemi and Olorunmiro, 1985). Since the weathered basement and the fractured basement are considered to be the major aquifer units in the study area, and based on the final interpretation of the 53 vertical electrical sounding along the four traverses, VES locations 35, 47, and 50 may be suitable for borehole development as a result of their low resistivity value. In the bedrock relief map, topographic depressions and ridges identified. The bedrock relief gives the trend of topography (Fig 4.1). In ground water exploration, depression, zone is one the targets. The groundwater potentials of the study area now classified into high, medium and low potential zones (Fig.4.2).

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Table 1: Summar	y of Interpreted	VES Curve
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VES

RESISTIVITY	THICKNESS (m)	CURVE TYPE	NO OF	REMARK
(Ωm)			LAYERS	
96	1.4			TOPSOIL
74.9	2.7			WEATHERED LAYER
3079.1				FRESH BASEMENT
178.0	2.1			TOPSOIL
125.3	4.2			WEATHERED LAYER
588.6				FRESH BASEMENT
302.4	1.6			TOPSOIL
86.5	5.7			WEATHERED LAYER
820.9				FRESH BASEMENT
90.2	1.3			TOPSOIL
47.0	3.8			WEATHERED LAYER
749.7				FRESH BASEMENT
65.6	0.8			TOPSOIL
150.1	4.8			WEATHERED LAYER
1566.9				FRESH BASEMENT
124.5	0.5			TOPSOIL
58.0	4.2			WEATHERED LAYER
1002.4				FRESH BASEMENT
239.4	2.2			TOPSOIL
353.8	2.6			WEATHERED LAYER
2141.0				FRESH BASEMENT
144.4	1.3			TOPSOIL
200.1	9.1			WEATHERED LAYER
7598.8	2.0			FRESH BASEMENT
98.7	2.0			
58.5	4.6			
5066.1	1.6			FRESH BASEIVIENT
71.2	1.6			
37.4 6005 5	2.6			
1// 2	2.4			TOPSOIL
100.2	4 3			WEATHERED LAYER
1358.8	4.5			ERESH BASEMENT
51.9	11			TOPSOIL
86.2	5.1			WEATHERED LAYER
7271.7				FRESH BASEMENT
30.9	2.0			TOPSOIL
341.7	3.0			WEATHERED LAYER
2811.8				FRESH BASEMENT
69.1	0.9			TOPSOIL
46.7	2.8			WEATHERED LAYER
1200.9				FRESH BASEMENT
122.5	2.7			TOPSOIL
129.7	2.5			WEATHERED LAYER
7099.6				FRESH BASEMENT
68.4	1.6			TOPSOIL
2832.3	5.0			WEATHERED LAYER
984.9				FRESH BASEMENT
75.1	2.0			TOPSOIL
108.2	4.0			WEATHERED LAYER
3/42.4	0.5			FRESH BASEMENT
30.9	0.5			
214.2	1.3			
23.3	3.1			
2305.5	2.0			
67.1	2.0			WEATHEREDLAVER
1124 7	7.7			FRESH BASEMENT
80.2	3.2			TOPSOIL

36.1	67		
	017		WEATHERED LAYER
876.4			ERESH BASEMENT
404.0	3.4		TOPSON
181.8	2.4		TOPSOIL
33.8	8.3		WEATHERED LAYER
444.0			
444.8			FRESH BASEIVIEN I
234.5	1.0		TOPSOIL
52.2	1 0		
52.2	1.0		WEATHERED LATER
561.3			FRESH BASEMENT
100.0	2.7		TOPCOU
108.8	2.7		TOPSOIL
160.4	10 5		WEATHERED LAYER
100.4	10.5		WEATHERED EATER
828.4			FRESH BASEMENT
104.0	0.5		TODCOU
104.8	0.5		TOPSOIL
78.0	4.0		WEATHERED LAYER
471.8			FRESH BASEMENT
10/ 2	0.6		TOPSOIL
104.5	0.0		TUPSUIL
32.3	1.6		WEATHERED LAYER
2000.2			ERECU RACENTE
2800.3			FRESH BASEIVIEN I
38.8	19		TOPSOIL
56.6	1.5		1010012
319.5	1.1		WEATHERED LAYER
9501.6			EDECH DASEMENT
8301.0			FRESH DASLIVIENT
74.8	0.6		TOPSOIL
111 4	1.2		
111.4	1.2		WEATHERED LAYER
23.9	2.6		FRACTURED LAYER
23.5	2.0		
3802.7			FRESH BASEMENT
69.3	3 3		TOPSOIL
09.3	3.5		TOFJOIL
119.3	4.2		WEATHERED LAYER
2704.2			ERECU RACENTE
2784.2			FRESH BASEIVIEN I
4.65.0			
165.3	1.6		TOPSOIL
20.2	2.0		
20.2	5.0		WEATHERED LATER
3421.4			FRESH BASEMENT
400.0			
136.6	1.4		TOPSOIL
/1.2	11		WEATHERED LAVER
41.2	4.4		WLATTILKED LATER
1609.9			FRESH BASEMENT
04.4	2.4		TODGOU
84.4	2.1		TOPSOIL
75.0	3.8		WEATHERED LAYER
75.0	5.0		
2337.6			FRESH BASEMENT
02 5	1.0		TODCOU
62.5	1.0		TUPSUL
50.7	4.8		WEATHERED LAYER
1200 4			ERECU RACENTE
1389.1			FRESH BASEIVIEN I
114.4	0.9		TOPSOIL
	0.5		
75.8	6.2		WEATHERED LAYER
1602.2			EDECH DACEMENT
1005.5			FRESH DASEIVIENT
131.5	0.8		TOPSOIL
F0 7	F 1		
50.7	5.1		WEATHERED LATER
1329.4			FRESH BASEMENT
02			TODGOU
	1.1		5 IOPSOIL
92		HKH	
92 52	4 4	нкн	WEATHERED LAYER
52	4.4	НКН	WEATHERED LAYER
92 52 719	4.4 49.5	нкн	WEATHERED LAYER FRESH BASEMENT
92 52 719	4.4 49.5	нкн	WEATHERED LAYER FRESH BASEMENT
92 52 719 192	4.4 49.5 41.1	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT
92 52 719 192 2184	4.4 49.5 41.1	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT
92 52 719 192 2184	4.4 49.5 41.1	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT
92 52 719 192 2184 257	4.4 49.5 41.1 - 0.9	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL
92 52 719 192 2184 257 205	4.4 49.5 41.1 - 0.9 1.7	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER
92 52 719 192 2184 257 205	4.4 49.5 41.1 0.9 1.7	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER
92 52 719 192 2184 257 205 1110	4.4 49.5 41.1 - 0.9 1.7 28.6	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT
92 52 719 192 2184 257 205 1110	4.4 49.5 41.1 0.9 1.7 28.6	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT
92 52 719 192 2184 257 205 1110 500	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT
92 52 719 192 2184 257 205 1110 500 8152	4.4 49.5 41.1 0.9 1.7 28.6 54.9	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT ERSH BASEMENT
92 52 719 192 2184 257 205 1110 500 8152	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT
92 52 719 192 2184 257 205 1110 500 8152 42	4.4 49.5 41.1 0.9 1.7 28.6 54.9	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL
92 52 719 192 2184 257 205 1110 500 8152 42	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9 - 0.5	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT TRESH BASEMENT TOPSOIL
92 52 719 192 2184 257 205 1110 500 8152 42 263	4.4 49.5 41.1 0.9 1.7 28.6 54.9 0.5 6.4	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT TRESH BASEMENT TOPSOIL WEATHERED LAYER
92 52 719 192 2184 257 205 1110 500 8152 42 263 315	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9 - 0.5 6.4 3.5	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT TOPSOIL WEATHERED LAYER LATERITIC/WEATHERED LAYER
92 52 719 192 2184 257 205 1110 500 8152 42 263 315	4.4 49.5 41.1 0.9 1.7 28.6 54.9 0.5 6.4 3.5	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT TRESH BASEMENT TOPSOIL WEATHERED LAYER LATERITIC/WEATHERED LAYER
92 52 719 192 2184 257 205 1110 500 8152 42 263 315 1659	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9 - 0.5 6.4 3.5	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRESH BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER LATERITIC/WEATHERED LAYER FRESH BASEMENT
92 52 719 192 2184 257 205 1110 500 8152 42 263 315 1659 98	4.4 49.5 41.1 - 0.9 1.7 28.6 54.9 - 0.5 6.4 3.5 -	нкн	WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT FRESH BASEMENT TOPSOIL WEATHERED LAYER FRESH BASEMENT FRACTURED BASEMENT TOPSOIL WEATHERED LAYER LATERITIC/WEATHERED LAYER FRESH BASEMENT TOPSOIL
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570 - FRACTURED BASEMENT TOPSOIL 83 0.9 TOPSOIL 59 4.6 TOPSOIL 685 46.1 FRESH BASEMENT 1312 43.0 FRESH BASEMENT 1938 - FRESH BASEMENT 1938 - TOPSOIL 41 8.4 WEATHERD LAYER 284 48.0 FRESH BASEMENT 94 23.9 FRESH BASEMENT 2389 - FRESH BASEMENT 47 18 0.8 H 3 199 0.5 TOPSOIL 45 4.9 WEATHERD LAYER 109 0.5 TOPSOIL 76 4.3 WEATHERD LAYER 109 0.5 TOPSOIL 76 4.3 WEATHERD LAYER 406 - FRESH BASEMENT 64 - FRACTURED BASEMENT 76 3.1 TOPSOIL 48 4.7 WEATHERD LAYER 49 3 TOPSOIL 76 4.3 WEATHERD LAYER 77 - FRACTURED BASEMENT 78 3.6 FRESH BASEMENT 793 3.6 FRESH BASEMENT		1369	46.6			FRESH BASEMENT
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284 48.0 FRESH BASEMENT 94 23.9 FRESH BASEMENT 2389 - FRESH BASEMENT 47 138 0.8 H 3 TOPSOIL 45 4.9 WEATHERED LAYER Yeathered Layer 109 0.5 TOPSOIL 76 4.3 WEATHERED LAYER 406 - FRESH BASEMENT 406 - FRESH BASEMENT 436 56.1 TOPSOIL 131 1.4 TOPSOIL 48 4.7 Yeathered Layer 983 53.6 FRESH BASEMENT 75 3.7 FRESH BASEMENT 79 34.9 Yeathered Layer 78 7.0 FRESH BASEMENT 79 34.9 FRESH BASEMENT 75 3.7 Yeathered Layer 78 1.6 TOPSOIL 79 34.9 FRESH BASEMENT 719 34.9 FRESH BASEMENT 719 34.9 FRESH BASEMENT 723 7. FRESH BASEMENT 733 7.0 FRESH BASEMENT 740 7.0 FRESH BASEMENT 751 3.7 WEATHERED LAYER <t< td=""><td></td><td>41</td><td>8.4</td><td></td><td></td><td>WEATHERED LAYER</td></t<>		41	8.4			WEATHERED LAYER
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S82 27.5 FRESH BASEMENT 406 - FRACTURED BASEMENT 69 5.1 TOPSOIL/ WEATHERED LAYER 1436 56.1 FRESH BASEMENT 547 - FRACTURED BASEMENT 131 1.4 TOPSOIL 48 4.7 WEATHERED LAYER 983 53.6 FRESH BASEMENT 340 - FRACTURED BASEMENT 340 - TOPSOIL 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 233 52.7 FRESH BASEMENT 234 1.0 TOPSOIL 51 4.7 WEATHERED LAYER 133 2.9 TOPSOIL 545 - FRACTURED BASEMENT 238 52.7 FRESH BASEMENT 131 4.7 WEATHERED LAYER 133 2.9 FRESH BASEMENT 567 - FRACTURED BASEMENT 133 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12		76	4.3			WEATHERED LAYER
406-FRACTURED BASEMENT695.1TOPSOIL/ WEATHERED LAYER143656.1FRESH BASEMENT547-FRACTURED BASEMENT1311.4TOPSOIL484.7WEATHERED LAYER98353.6FRESH BASEMENT340-FRACTURED BASEMENT361.6TOPSOIL753.7WEATHERED LAYER71934.9FRESH BASEMENT23852.7FRESH BASEMENT235-FRESH BASEMENT235-FRESH BASEMENT5614.7WEATHERED LAYER1332.9FRESH BASEMENT1332.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRESH BASEMENT545545FRESH BASEMENT		582	27.5			FRESH BASEMENT
69 5.1 TOPSOIL/ WEATHERED LAYER 1436 56.1 FRESH BASEMENT 547 - FRACTURED BASEMENT 131 1.4 TOPSOIL 48 4.7 WEATHERED LAYER 983 53.6 FRESH BASEMENT 340 - FRACTURED BASEMENT 36 1.6 TOPSOIL 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 2335 - FRACTURED BASEMENT 2335 - FRESH BASEMENT 12335 - FRESH BASEMENT 131 4.7 WEATHERED LAYER 133 2.9 FRESH BASEMENT 134 2.9 FRESH BASEMENT 135 46.3 FRESH BASEMENT 143 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 138 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 138 2.9 TOPSOIL		406				FRACTURED BASEMENT
1436 56.1 FRESH BASEMENT 547 - FRACTURED BASEMENT 131 1.4 TOPSOIL 48 4.7 WEATHERED LAYER 983 53.6 FRACTURED BASEMENT 340 - FRACTURED BASEMENT 36 1.6 TOPSOIL 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 238 52.7 FRACTURED BASEMENT 2335 - FRESH BASEMENT 52 1.0 TOPSOIL 51 4.7 WEATHERED LAYER 1215 46.3 FRESH BASEMENT 567 - FRACTURED BASEMENT 133 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 2387 12.4 FRESH BASEMENT 224 20.4 FRESH BASEMENT		69	5.1			TOPSOIL/ WEATHERED LAYER
547-FRACTURED BASEMENT1311.4TOPSOIL484.7WEATHERED LAYER98353.6FRESH BASEMENT340-FRACTURED BASEMENT361.6TOPSOIL753.7WEATHERED LAYER71934.9FRESH BASEMENT23852.7FRACTURED BASEMENT235-FRESH BASEMENT235-FRESH BASEMENT567-FRESH BASEMENT1332.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT238712.4FRESH BASEMENT238712.4FRESH BASEMENT545545545		1436	56.1			FRESH BASEMENT
131 1.4 TOPSOIL 48 4.7 WEATHERED LAYER 983 53.6 FRESH BASEMENT 340 - FRACTURED BASEMENT 340 - FRACTURED BASEMENT 86 1.6 TOPSOIL 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 238 52.7 FRACTURED BASEMENT 2335 - FRESH BASEMENT 235 - FRESH BASEMENT 51 4.7 WEATHERED LAYER 1215 46.3 FRESH BASEMENT 567 - FRACTURED BASEMENT 133 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 2387 12.4 FRESH BASEMENT 5845 - EPSCH BASEMENT		547				FRACTURED BASEMENT
A8A.7WEATHERED LAYER98353.6FRESH BASEMENT340-FRACTURED BASEMENT361.6TOPSOIL753.7WEATHERED LAYER71934.9FRESH BASEMENT23852.7FRACTURED BASEMENT2335-FRESH BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRESH BASEMENT1332.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRESH BASEMENT545-FRESH BASEMENT		131	1.4			TOPSOIL
BitInterface98353.6FRESH BASEMENT340-FRACTURED BASEMENT861.6TOPSOIL753.7WEATHERED LAYER71934.9FRACTURED BASEMENT23852.7FRACTURED BASEMENT2335-FRACTURED BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRACTURED BASEMENT567-FRACTURED BASEMENT1432.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRACTURED BASEMENT545-FRACTURED BASEMENT		48	47			WEATHERED LAYER
340-FRACTURED BASEMENT861.6TOPSOIL753.7WEATHERED LAYER71934.9FRESH BASEMENT23852.7FRACTURED BASEMENT2335-FRESH BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRESH BASEMENT567-FRESH BASEMENT1332.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRESH BASEMENT545545FRESH BASEMENT		983	53.6			FRESH BASEMENT
86 1.6 TOPSOIL 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 238 52.7 FRACTURED BASEMENT 2335 - FRESH BASEMENT 234 1.0 TOPSOIL 51 4.7 WEATHERED LAYER 1215 46.3 FRESH BASEMENT 567 - FRACTURED BASEMENT 143 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 2387 20.4 FRESH BASEMENT 5425 - EPESH BASEMENT		340	-			FRACTURED BASEMENT
Total Total 75 3.7 WEATHERED LAYER 719 34.9 FRESH BASEMENT 238 52.7 FRACTURED BASEMENT 2335 - FRESH BASEMENT 82 1.0 TOPSOIL 51 4.7 WEATHERED LAYER 1215 46.3 FRESH BASEMENT 567 - FRACTURED BASEMENT 133 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 2387 20.4 FRESH BASEMENT 5845 EPESH BASEMENT		86	16			TOPSOIL
71934.9FRESH BASEMENT23852.7FRACTURED BASEMENT2335-FRESH BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRESH BASEMENT567-FRACTURED BASEMENT1432.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRESH BASEMENT5845FRACTURED BASEMENT		75	3.7			WEATHERED LAYER
13852.7FRACTURED BASEMENT23852.7FRACTURED BASEMENT2335-FRESH BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRESH BASEMENT567-FRACTURED BASEMENT1432.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRACTURED BASEMENT5845EPESH BASEMENT		719	34.9			FRESH BASEMENT
2335-FRESH BASEMENT821.0TOPSOIL514.7WEATHERED LAYER121546.3FRESH BASEMENT567-FRESH BASEMENT1432.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRESH BASEMENT5845EPESH BASEMENT		238	52.7			FRACTURED BASEMENT
82 1.0 TOPSOIL 51 4.7 WEATHERED LAYER 1215 46.3 FRESH BASEMENT 567 - FRACTURED BASEMENT 143 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 224 20.4 FRACTURED BASEMENT		2335				FRESH BASEMENT
14.7WEATHERD LAYER121546.3FRESH BASEMENT567-FRACTURED BASEMENT1432.9TOPSOIL90.43.8WEATHERD LAYER238712.4FRESH BASEMENT22420.4FRACTURED BASEMENT5845EPESH BASEMENT		82	1.0			TOPSOIL
121546.3FRESH BASEMENT567-FRACTURED BASEMENT1432.9TOPSOIL90.43.8WEATHERED LAYER238712.4FRESH BASEMENT22420.4FRACTURED BASEMENT5845EPESH BASEMENT		51	4.7			WEATHERED LAYER
567 - FRACTURED BASEMENT 143 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 224 20.4 FRACTURED BASEMENT 5845 EPESH BASEMENT		1215	46.3			FRESH BASEMENT
143 2.9 TOPSOIL 90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 224 20.4 FRACTURED BASEMENT 5845 EPESH BASEMENT		567	-			FRACTURED BASEMENT
90.4 3.8 WEATHERED LAYER 2387 12.4 FRESH BASEMENT 224 20.4 FRACTURED BASEMENT 5845 EPESH BASEMENT		143	2.9			TOPSOIL
238712.4FRESH BASEMENT22420.4FRACTURED BASEMENT5845EPECH BASEMENT		90.4	3.8			WEATHERED LAYER
224 20.4 FRACTURED BASEMENT		2387	12.4			FRESH BASEMENT
5845 EPISH EPISH EPISH		224	20.4			FRACTURED BASEMENT
ENT NU DA NUVU NU		5845	2011			FRESH BASEMENT