BLDR-2023-21721

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625

PERMIT # OSWP-2023-40513

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4664-88-7300

APPLICANT / OWNER: Michael Athanas & Assoc. APPLICANT ADDRESS: 2630 Statesville Blvd Salisbury, NC 28147

SITE ADDRESS: 126 RIVERSTONE DR, DAVIDSON, NC 28036 PHONE: 704-310-1832 ALT. PHONE:

SITE DIRECTIONS: E NC3 -> R Kistler Farm -> R Rocky River -> L Shearers -> L Anniston -> R Burnell -> L Walking Horse -> L Riverstone SAP CONTROLLED: YES ☑ NO ☐

SUBDIVISION: Riverstone at Anniston SECTION: N/A LOT #: 21 LOT AREA: 1.624 DESIGN FLOW: 480 L.T.A.R.: 0.325

Septic Tank: 1000 (gal)	STB: 2152	Date:	☒ New System ☐ Repair ☐ Expansion	System Type: IV	☑ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: 1000 (gal)	PT: 2149	Date:	System Description: LPVPPBPS		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: LPVPPBPS		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 5	Linear Ft.: 250	Maintenance Agreement Required: ☑ YES ☐ NO		☐ Slab	☑ Crawl Space	
Trench Width: 24	Trench Bottom Depth (Low side): 36		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield area. Install according to attached specifications by Michael Athanas & Assoc.

INITIAL SITE SKETCH

See attached site plan & design by Michael Athanas & Assoc. approved 11/13/23

AS BUILT SKETCH

Tanks 9/25/23 BLW
Lines 11/30/23 CW
CUB

PH, alarm, electrical
MA

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: D. Weber Date: 11/13/23

AUTHORIZATION TO CONSTRUCT by: D. Weber Date: 11/13/23

Installed By: Alan Hoke

OPERATION PERMIT by: D. Weber Date: 12/20/23

Existing System Inspected By: Date:

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625

PERMIT # OSWP-2023-40513

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4664-88-7300

APPLICANT / OWNER: Michael Athanas & Assoc. APPLICANT ADDRESS: 2630 Statesville Blvd, Salisbury, NC 28147

SITE ADDRESS: 126 RIVERSTONE DR, DAVIDSON, NC 28036 PHONE: 704-310-1832 ALT. PHONE:

SITE DIRECTIONS: E NC3 -> R Kistler Farm -> R Rocky River -> L Shearers -> L Anniston -> R Burnell -> L Walking Horse -> L Riverstone SAP CONTROLLED: YES ☑ NO ☐

SUBDIVISION: Riverstone at Anniston SECTION: N/A LOT #: 21 LOT AREA: 1.624 DESIGN FLOW: 480 L.T.A.R.: 0.325

Septic Tank: 1000 (gal)	STB: 2152	Date:	☑ New System ☐ Repair ☐ Expansion	System Type: IV	☑ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: 1000 (gal)	PT: 2149	Date:	System Description: LPVPPBPS		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: LPVPPBPS		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 5	Linear Ft.: 250	Maintenance Agreement Required: ☑ YES ☐ NO		☐ Slab	☑ Crawl Space	
Trench Width: 24	Trench Bottom Depth (Low side): 36		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield area. Install according to attached specifications by Michael Athanas & Assoc.

INITIAL SITE SKETCH

See attached site plan & design by Michael Athanas & Assoc. approved 11/13/23

AS BUILT SKETCH

Tanks 9/25/23 BLW

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ **IMPROVEMENT PERMIT with plat** valid without expiration. ☑ **IMPROVEMENT PERMIT with site plan** valid for 60 mos. ☑ **AUTHORIZATION TO CONSTRUCT** valid for period equal to **IMPROVEMENT PERMIT**--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: D. Ineben Date: 11/13/23

AUTHORIZATION TO CONSTRUCT by: D. Ineben Date: 11/13/23

Installed By: Alan Hoke

OPERATION PERMIT by: Date:

Existing System Inspected By: Date:

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

APPROVED NOV 1 3 2023

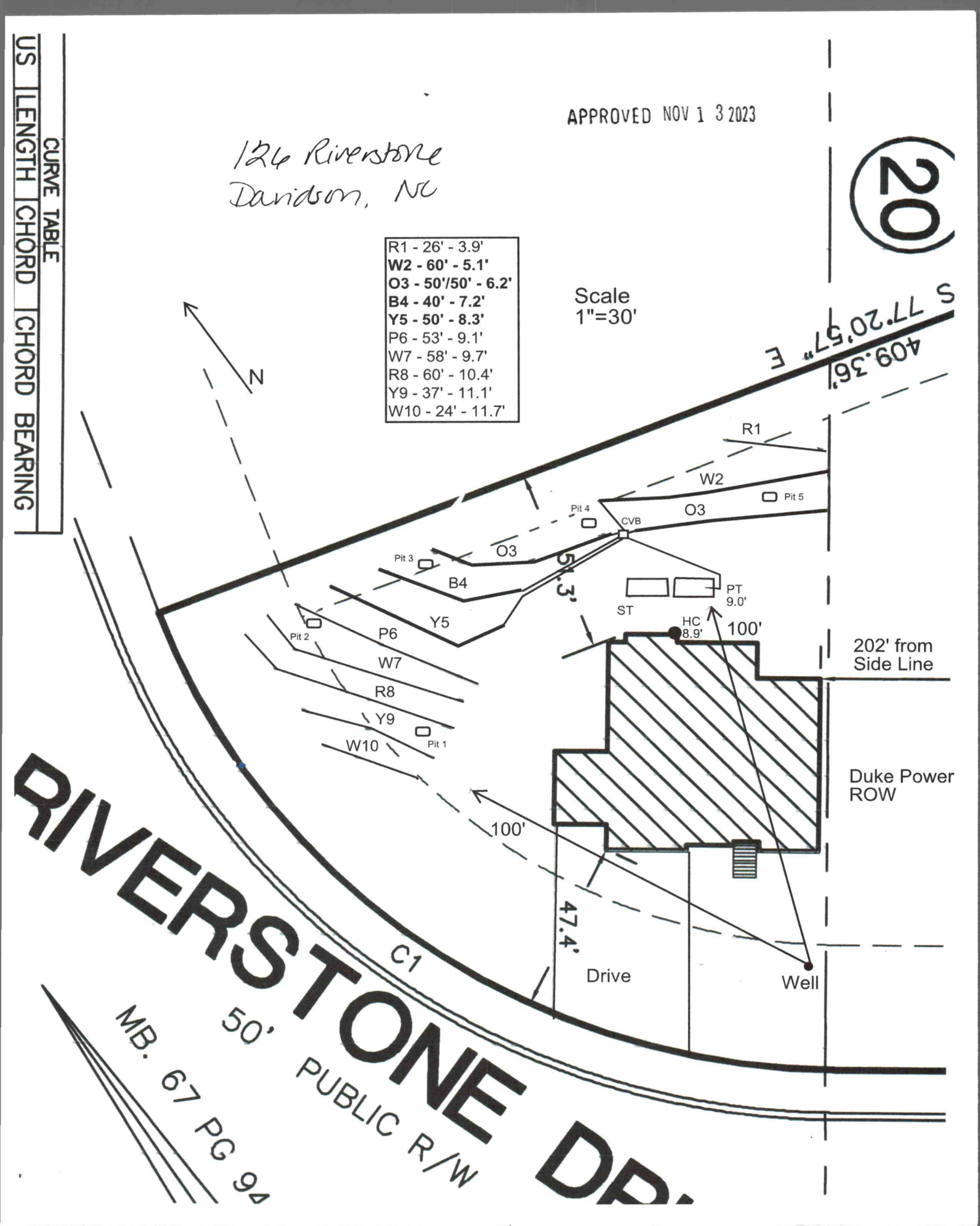
126 Riverstone
Davidson, NC

20

CURVE TABLE			
US	LENGTH	CHORD	CHORD BEARING

R1 - 26' - 3.9'
W2 - 60' - 5.1'
O3 - 50'/50' - 6.2'
B4 - 40' - 7.2'
Y5 - 50' - 8.3'
P6 - 53' - 9.1'
W7 - 58' - 9.7'
R8 - 60' - 10.4'
Y9 - 37' - 11.1'
W10 - 24' - 11.7'

Scale
1"=30'



APPROVED NOV 1 3 2023

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 126 Riverstone Drive; PID#4664887300.000; Lot 21 Riverstone at Anniston Iredell County, NC

House Box: 70' x 60'
Building Setback: 35' Front; 15'Side; 35' Rear
Water Source: Private well
Number of bedrooms/GPD: 4/480
Suggested Initial System Type: PPBPS; Vertical Configuration
Repair System LTAR: 0.325 gpd/ft2
Repair System Type: PPBPS; Vertical Configuration
Distribution: LP-CVB
Flow per Orifice: ~~0.59~~ gpm 0.41
Hole Size & Material: 5/32"
Number of Panels: 59
System Flow: 34.8 gal/min
Dosing Volume: 212.4 gal/dose
Pump Run Time: 6.1 min
Total Linear Footage: 250'
Trench Bottom Square Footage: 500 sq.ft
Elevation Head: 8.9'
Friction Head: 0.7'
Pressure Head: 2'
Total Dynamic Head: 11.6'
Supply Line Length: 30'
Septic/ Pump tank size: 1000 ST, 1000 PT
Proposed Trench Bottom Depth: 36"



Line	Design Length	# of Panels	Actual Length	Elevation
Red 1			26'	3.9'
White 2	**60'**	**14**	**65'**	**5.1'**
Orange 3	**50'/50'**	**12/12**	**107'**	**6.2'**
Blue 4	**40'**	**9**	**42'**	**7.2'**
Yellow 5	**50'**	**12**	**54'**	**8.3'**
Pink 6			53'	9.1'
White 7			58'	9.7'

Red 8	60'	10.4'
Yellow 9	37'	11.1'
White 10	24'	11.7'

APPROVED NOV 1 3 2023

Initial System: 250' PPBPS; Vertical Configuration
Repair System: 259' PPBPS; Horizontal Configuration
House Corner: 8.9' **Pump Tank:** 9.0' **Benchmark:** 1.3' See site plan

Comments: The purpose of the evaluation is to permit this site for a 4-bedroom residence.

- **The septic area should be fenced off and the fence maintained during construction. Failure to do so will result in the permit being voided.**
- No additional grading should take place in or near the septic area.
- Keep the system out of the power line right of way.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet __1__ *of* __1__
PROPERTY ID #: 126 Riverstone Dr; Lot 21 Riverstone at Anniston; PID# 4664887300.000
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED NOV 1 3 2023

OWNER: Iredell Anniston Holdings LLC APPLICATION DATE:
ADDRESS: 11220 Elm Lane Suite 107 Charlotte, NC 28277 DATE EVALUATED: 3/2023
PROPOSED FACILITY: 4-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 3.30 Acres
LOCATION OF SITE: 126 Riverstone Drive Davidson, NC PROPERTY RECORDED: 01/09/2018
WATER SUPPLY: ☐ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS / COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
AB 1	L 9-10%	0"-3"	R C SBK	SS SP FR SEXP		37"	Few to common saprolite inclusions 3"-37". PS		0.3+
		3"-37"	R CL WSBK	SS SP FR SEXP					
		37"-48"	V L Saprolite M	SS SP FR SEXP					
AB 2	L 9-10%	0"-18"	R C SBK	S P FR SEXP		48"	Few to common saprolite inclusions 18"-48".		0.3+
		18"-48"	R CL WSBK	SS SP FR SEXP					
AB 3	L 9-10%	0"-20"	R C SBK	SS SP FR SEXP		48"	Few to common saprolite inclusions 20"-48".		0.3
		20"-48"	R CL WSBK	SS SP FR SEXP					
Pit 1	L 9-10%	0"-32"	R CL WSBK	SS SP FR SEXP		32"	Few to common saprolite inclusions 0"-32". PS		0.3+
		32"-61"	V L Saprolite M	SS SP FR SEXP					
Pit 2	L 9-10%	0"-14"	R C SBK	SS SP FR SEXP		42"	Few to common saprolite inclusions 14"-42". PS		0.3+
		14"-42"	R CL WSBK	SS SP FR SEXP					
		42"-62"	V L Saprolite M	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	500 FT2	518 ft2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.325	0.325

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 126 Riverstone Dr; Lot 21 Riverstone at Anniston; PID# 4664887300.000
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM cont.

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS / COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
Pit 3	L 9-10%	0"-30"	R C SBK	SS SP FR SEXP		55"	Few to common saprolite inclusions 30"-55". PS		0.3+
		30"-55"	R CL WSBK	SS SP FR SEXP					
		55"-66"	V L Saprolite M	SS SP FR SEXP					
Pit 4	L 9-10%	0"-9"	RBr CL WSBK	S P FR SEXP		32"	Few to common saprolite inclusions 30"-55". PS		0.3+
		9"-18"	R C SBK	SS SP FR SEXP					
		18"-32"	R CL WSBK	SS SP FR SEXP					
		32"-62"	V L Saprolite M	SS SP FR SEXP					
Pit 5	L 9-10%	0"-17"	R C SBK	SS SP FR SEXP		39"			0.3+
		17"-39"	R CL WSBK	SS SP FR SEXP					
		39"-64"	V L Saprolite M	SS SP FR SEXP					