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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IREDELL GROUP
ADDRESS: 109-C WILLIAMSON ROAD MOORESVILLE — APPLICATION DATE 3/06
PROPOSED FACILITY: RES — PROPOSED DESIGN FLOW (.1949): 480 — DATE EVALUATED: 3/06
LOCATION OF SITE: Walden Ridge Lot 63 — PROPERTY SIZE: ___ AC
WATER SUPPLY: X Private ☐ Public ☐ Well ☐ Spring ☐ Other — PROPERTY RECORDED: Y
EVALUATION METHOD: ☐ Auger Boring X Pit ☐ Cut — TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
63A	LSS 8 10-15%?	0-8	BSCL WSSK	fri SSSP SMP	N/A	48"	N/A	N/A	PS .275 gpd/ft²
		8-32	RC MASK	fri SSSP SMP					
		32-48	RCL WFSSK	fri SSSP SMP					
3B	CSS 10-15%? Doesn't look that to me	0-12	BSCL GR	fri SSSP SMP	N/A	53"	N/A	N/A	PS .275 gpd/ft²
		12-53	RC ABK	Fi SP SMP - few YB's					
)	5%	0-13	WK SBK BRNSL	fr SSSP					.25-.3
		13-51	MOIST RED C	fr SP SMP					
		0-6	DK BRNSL	fr SSSP					.25-.3
		6-53	MOIST RED C FEW	fr SP SMP few pores to 38" common SAP to 53"					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
ilable Space (.1945)	900 ft²	900 ft²
:m Type(s)	PPBPS	PPBPS
.TAR	.275	.275

IENTS: ___

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ROLLANS SOIL & ENVIRONMENTAL SERVICES
OTHER(S) PRESENT: ___

WALDEN RIDGE LOT #63

LAYOUT FOR 4 BEDROOM HOME

Project #: 01-1069

March 27, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK		N/A	N/A				
HOUSE		N/A	N/A				
INSTR. 1			N/A				
1	ORANGE			N/A	N/A	65	65
2	PINK			N/A	N/A	35	35
3	***RED***			***N/A***	***N/A***	***70***	***50***
4	***GREEN***			***N/A***	***N/A***	***50***	***50***
5	***BLUE***			***N/A***	***N/A***	***50***	***50***
6	***BLUE***			***N/A***	***N/A***	***50***	***50***
7	***RED***			***N/A***	***N/A***	***50***	***50***
8	***RED***			***N/A***	***N/A***	***50***	***50***
9	BLUE			N/A	N/A	65	65
10	PINK			N/A	N/A	80	80
11	ORANGE			N/A	N/A	60	60
					Total	**625**	**605**

* *System*	LINE LENGTH *300*	LTAR GPD/FT² *0.275*	SYSTEM TYPE *MOD.*	SOIL LTAR GPD/FT² 0.275	TRENCH SYSTEM *PPBPS*	DISTRIBUTION GRAVITY DISTRIBUTION
Repair	305	***0.275***	*MOD.*	0.275	PPBPS	LOW PRESSURE

Notes:

** TBM NOT REQUIRED

**All measures in feet

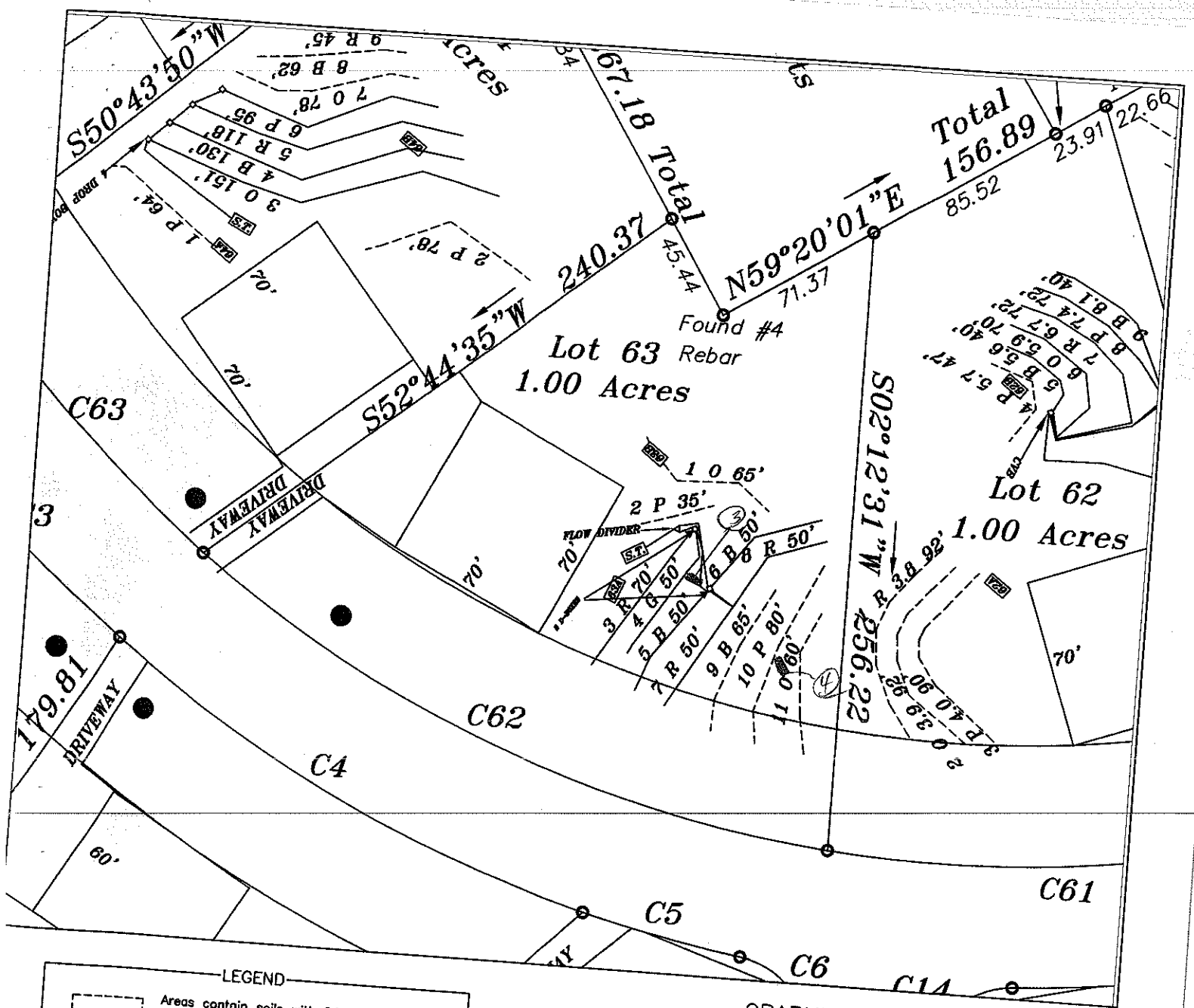
**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings

TAPSHEET - LAKEWOOD CROSSING LOT#63

SYSTEM

Line #	Color	Elevation	Length	Hole Size	# of Panels	gpd	Trench Area
3	RED	N/A	50	N/A	11	N/A	150
4	GREEN	N/A	50	N/A	11	N/A	150
5	BLUE	N/A	50	N/A	11	N/A	150
6	BLUE	N/A	50	N/A	11	N/A	150
7	RED	N/A	50	N/A	11	N/A	150
8	RED	N/A	50	N/A	11	N/A	150
	total	feet =	300	gal/min =	N/A		
			Des. Flow	N/A			
			Pump Run=	N/A			
			soil LTAR	0.275			
			LTAR +5%	0.28875			
			LTAR with ACCEPTED	0.366666667			
			LTAR with ACCEPTED + 5%	0.385			



LEGEND

- Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems.
- Unsuitable areas.
- System lines.
- Repair lines.
- Temporary Bench Mark (TBM)
- Well Location.

GRAPHIC SCALE
1" = 60'

60 0 60 120

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

OLLANS SOIL & ENVIRONMENTAL SERVICES
GRAHAM ROAD
INT ULLA, NC 28125
NE/FAX: (704) 278 - 0389
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746 - 5046
EMAIL: ROLLANSFORTCJ@AOL.COM

MAP TITLE: SITE PLAN & DRAINFIELD AREAS

PROJECT NAME: IREDELL GROUP LLC/WILDEN RIDGE SUBDIVISION

LOCATION/DATE: TEETER ROAD, IREDELL COUNTY, NORTH CAROLINA, DECEMBER 2005

JOB # : 01-1069
FILE: C:\JOBS\01-1069
PROJECT MGR.: CBF
FIELD WORK: CBF AND AP
DRAWN BY: CBP AND AP

Gravity PPBPS
FOR WASTEWATER TREATMENT

Owner: IREDELL GROUP

Address: 109-C Williamson Road
Mooresville, NC 28115

Phone: 704-663-4050

County: Iredell

Location: Walden Ridge Subdivision Lot #63

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Daily Wastewater Production: 480 gpd

System Flow: NA

Design Specifications

Drainfield Size: 300

Loading Rate: 0.275

Depth of Gravel in Trench: NA (PPBPS)

Gravel Size: NA (PPBPS)

Trench Depth: 36 in.

Trench Width: 36 in.

Septic Tank Size: 1000

Pump Tank Size: NA

Estimated Supply Line Length: 15

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 2.61

Dosing Volume: NA

Supply Manifold: D-BOX

Supply Manifold Length: NA

Supply Manifold Volume: N/A

Recommended Float Controls: NA

Recommended Control Panel: NA

Pressure Head: NA

Friction Head: NA

Elevation Head: NA

Total Dynamic Head: NA

Threaded Union: NA

Gate Valves: NA

NA

Check Valves: NA

Anti-Siphon Hole: NA

Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services.

WALDEN RIDGE SUBDIVISION LOT 63

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.275
TOTAL AREA TRENCH BOTTOM:	900
TOTAL LATERAL LENGTH:	300
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	290
SUPPLY LINE LENGTH:	15
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA