IREDELL COUNTY HEALTH DEPARTMENT

STATESVILLE 704-878-5305 MOORESVILLE 704-664-5281

IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM INSPECTION

PERMIT# 135878 PIN# 4730-51-1078 4698 2083 DATE 5-23-06

OWNER OR CONTRACTOR ROBERT & JACQUELYN ELLIOTT PHONE: Business 704-746-5046 Home

ADDRESS C/O ASHLEY ROLLANS, 2120 GRAHAM ROAD, MT. ULLA NC 28125

LOCATION STATE PARK ROAD TO HONEYCUTT ROAD. DRIVEWAY STRAIGHT AHEAD AT BEE FOX TRAIL INTERSECTION

SUBDIVISION LOUISE TROUTMAN BLOCK / SECTION LOT 6 LOT AREA 1.276 ACRES SITE CLASS. PS DESIGN FLOW 480 L.T.A.R. 0.25 GPD/FT2

Septic Tank: 1000 Gallons; STB 1007 Date 7-10-06
Pump Tank: 1000 Gallons; PT 274 Date 6-15-06
Pump Make: ZOELLER Model 11-7534 Serial No.
Nitrification Field: No Fields 1 Square Feet 1920 Linear Feet 347
No Lines SEVEN Trench Width 24" Max Trench Bottom Depth 36" ~~Gravel~~ Depth SAND 24"

☑ New System ☐ Repair System Type: I, II, III, IV, V, VI
System Description: 50% REDUCTION, LOW-PRESS.
Repair System Description: 50% REDUCTION, LOW-PRESS
Maintenance Agreement Required: ☑ Yes ☐ No

☐ House/Mod. Home No. Bedrooms 4
☐ Mobile Home No. Bathrooms
☐ Business No. Employees
☐ Other
☐ Slab ☐ Crawl Space ☑ Basement w/plumbing ☐ Basement wo/plumbing

Water Supply: ☑ Individual ☐ Public ☐ Community WELL

Comments/Conditions: ① REMOVE EXISTING FIELD TERRACE
② REMOVE EXISTING CULVERTS & INSTALL NEW CULVERT DIVERTING WATER ACROSS DRIVEWAY AS SHOWN
③ INSTALL 80 PPBPS PANELS AS SHOWN.

Comments/Conditions: A CONTRACT SHALL BE EXECUTED BETWEEN THE SYSTEM OWNER & A MANAGEMENT ENTITY PRIOR TO ISSUANCE of OPERATION PERMIT

INITIAL SITE SKETCH

SETTLING TANK FOR GRINDER PT 274 6-21-06 1000

SEE ATTACHED "FAST TRACK" PLAN PROPOSED BY "ROLLANS SOIL & ENVIRONMENTAL SERVICES" PROJECT NO. 01-1210

Site Address: 369 Honeycutt Rd - Iotn

AS BUILT SKETCH

TUFFY II RT F.Th. + MARKER

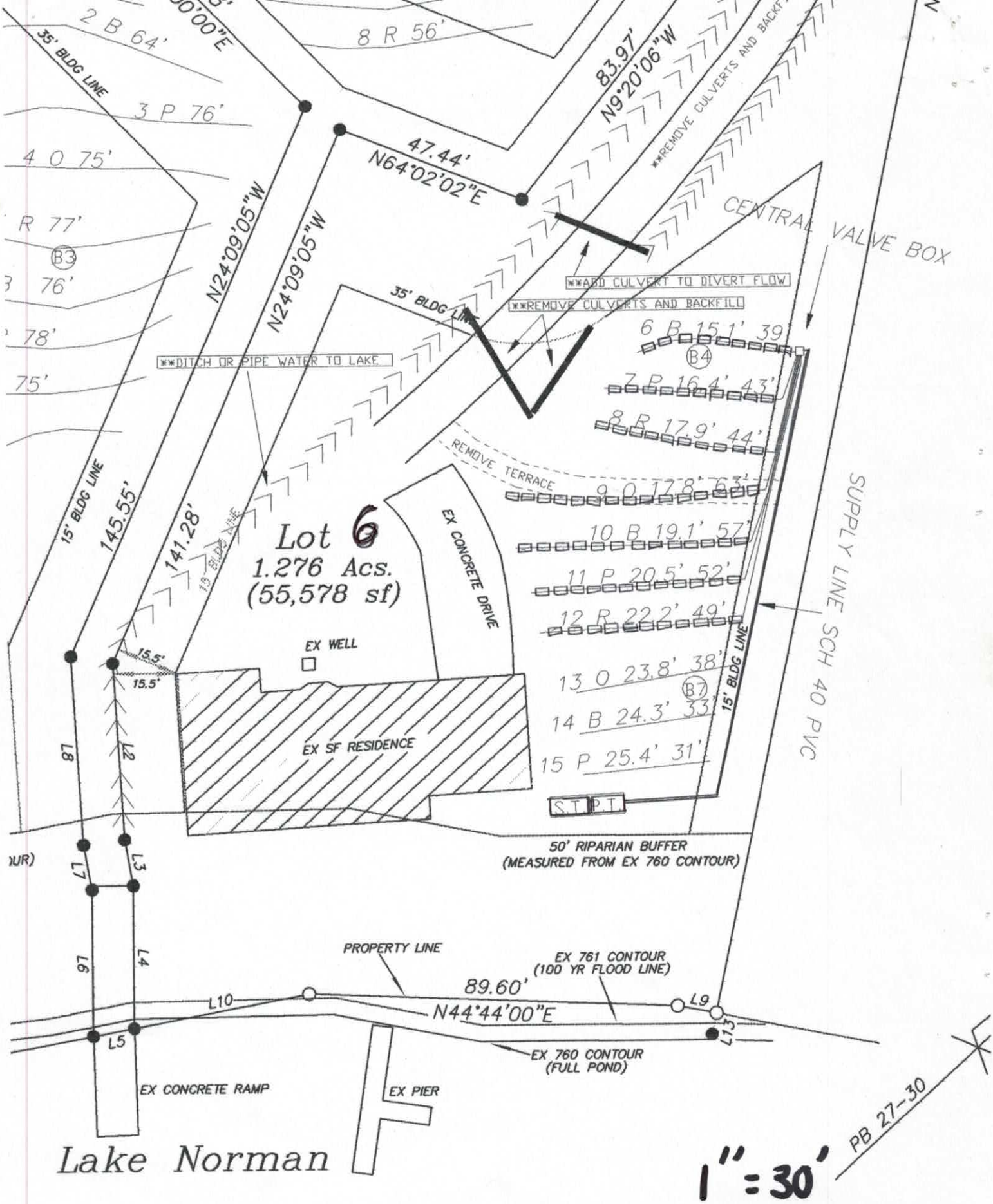
Permit can be suspended or revoked if any false information is supplied toward securing the permit/any unauthorized changes are made to the site/any unauthorized changes are made in the installation of the system. Improvement Permit with plat valid without expiration. Improvement Permit with site plan valid for sixty months. Authorization to Construct is valid for a period equal to that of Improvement Permit – not to exceed sixty months.

Signed: [signature] date 5/25/06 Installed by: TOMMY LOTHIN

Improvement Permit by: STEVE HEDRICK date 5-23-06 Operation Permit by: [signature] date 8-25-06

Authorization to Construct by: STEVE HEDRICK date 5-23-06 Existing System Inspection by: date

HEALTH DEPT. COPY: WHITE OWNER COPY (FINAL): YELLOW OWNER COPY (INITIAL): PINK


35' BLDG LINE
2 B 64'
8 R 56'
83.97'
N9°20'06"W
**REMOVE CULVERTS AND BACKFILL
3 P 76'
4 O 75'
47.44'
N64°02'02"E
R 77'
B3
76'
78'
75'
N24°09'05"W
N24°09'05"W
CENTRAL VALVE BOX
**ADD CULVERT TO DIVERT FLOW
35' BLDG LINE
**REMOVE CULVERTS AND BACKFILL
6 R 15.1' 39'
B4
7 P 16.4' 43'
8 R 17.9' 44'
**DITCH OR PIPE WATER TO LAKE
REMOVE TERRACE
9 O 17.8' 63'
15' BLDG LINE
145.55'
141.28'
15' BLDG LINE
Lot 6
1.276 Acs.
(55,578 sf)
EX CONCRETE DRIVE
10 B 19.1' 57'
11 P 20.5' 52'
12 R 22.2' 49'
EX WELL
15.5'
15.5'
13 O 23.8' 38'
B7
14 B 24.3' 33'
15' BLDG LINE
SUPPLY LINE SCH 40 PVC
EX SF RESIDENCE
15 P 25.4' 31'
S T P I
87
12
50' RIPARIAN BUFFER
(MEASURED FROM EX 760 CONTOUR)
L7
L3
97
44
PROPERTY LINE
EX 761 CONTOUR
(100 YR FLOOD LINE)
89.60'
L10
N44°44'00"E
L9
L13
L5
EX 760 CONTOUR
(FULL POND)
EX CONCRETE RAMP
EX PIER
Lake Norman
PB 27-30
1" = 30'

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Robert Elliott
Address:	20326 Bethelwood Lane Cornelius, NC 28031
Phone:	704-896-9751
County:	Iredell
Location:	Honeycutt Road Subdivision Lot #6
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	32.83153846

Design Specifications

Drainfield Size:	347
Loading Rate:	0.275 gpd/ft.^{2}
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:	1000
Estimated Supply Line Length:	135
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	23.49
Dosing Volume:	193.15
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	3.20
Elevation Head:	16.20
Total Dynamic Head:	24.61
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral (7)
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

Honeycutt Road Lot 6
LP PPBPS

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3 gpd/ft²
TOTAL AREA TRENCH BOTTOM:	480
TOTAL LATERAL LENGTH:	347
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	290.9090909
SUPPLY LINE LENGTH:	135
TOTAL DYNAMIC HEAD:	24.61
MANIFOLD SIZE:	N/A
DOSING VOLUME:	193.15
PUMP TANK DRAW DOWN*:	9.2
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

LP PPBPS TAPSHEET - Honeycutt Road Lot 6

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
6	*BLUE*	88.9	*39*	0.156	**0.41**	117	9
7	*PINK*	87.6	*43*	0.156	**0.41**	129	10
8	*RED*	86.1	*44*	0.156	**0.41**	132	10
9	*ORANGE*	86.2	*63*	0.156	**0.41**	189	15
10	*BLUE*	84.9	*57*	0.156	**0.41**	171	13
11	*PINK*	83.5	*52*	0.156	**0.41**	156	12
12	*PINK*	81.8	*49*	0.156	**0.41**	147	11
	total	**feet =**	347 ~~308~~	**gal/min =**	**32.831538**		

Des. Flow	**480**
Pump Run=	**5.88**
soil LTAR	**0.275**
LTAR +5%	**0.28875**
LTAR with mod.	**0.55**
LTAR with mod.. + 5%	**0.5775**

.156 equals 5/32 inch hole

CALCULATIONS

Location Honecutt Road

Project Number 01-1210

Lot No: Lot 6

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.275	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	135	ft.
Supply Line Volume	23.49	gal.
Required Feet of Line	290.9091	ft.
Amount of Line from Layout	347	ft.
Gallons per Minute	32.83154	$^{gal}/_{min}$

Note: Flow/hole (.41gpm) x # of panels (65)

Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	80	
Dosing Volume	193	gal.

Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel

Tank Draw Down	9.2	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.88	minutes
Elevation Head	16.2	ft.
Pressure Head	2	ft.
Friction Factor	2.37	ft./100 ft. *(From the interpolater.)*
Friction Head	3.20	ft.
Total Dynamic Head (+15%)	24.61	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Robert Elliott APPLICATION DATE
ADDRESS: 20326 Bethelwood Lane Cornelius, NC 28031 DATE EVALUATED: April 06
PROPOSED FACILITY: Existing 4BR Residence PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: 1.276Ac.
LOCATION OF SITE: Corner of Honeycutt and Brer Fox PROPERTY RECORDED:
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	
4	L / 10 – 15%	0-34	RC MFSBK	FR SS SP SEXP	N/A	46"	N/A	N/A	PS 0.3 GPD/FT2
		34-46	RCL WFSBK	FR SS SP SEXP					
5	R / 0 – 5%	0-34	RC MFSBK	FR SS SP SEXP	N/A	48"	N/A	N/A	PS 0.3 GPD/FT2
		34-48	RCL WFSBK	FR SS SP SEXP					
6	H / 0 – 5%	0-8	BSCL WSBK	FR SS SP SEXP	COMM [Mn]	48"	N/A	N/A	PS 0.25 GPD/FT2
		8-34	RBC WFSBK	FR SS SP SEXP					
		34-44	RC WFABK	FR SS SP SEXP	FEW YB, COMM [Mn] & COMM SAP				
		44-48	RCL WFSBK	FR SS SP SEXP					
7	L / 10 – 15%	0-24	RBSCL WSBK	FR SS SP SEXP	FEW [Mn]	48"	N/A	N/A	PS 0.275 GPD/FT2
		24-40	RC MFSBK/ABK	FR SS SP SEXP	FEW [Mn], FEW YB'S				
		40-48	RCL WFSBK	FR SS SP SEXP	FEW YB'S & COMM SAP				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	924 SF	1611 SF
System Type(s)	PPBPS	PPBPS
Site LTAR	0.275 GPD/FT2	0.25 GPD/FT2

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Samuel A. Rollans & Adrian Pruett
OTHER(S) PRESENT:

COMMENTS:

IREDELL COUNTY HEALTH DEPARTMENT

Application For Improvement Permit and/or Authorization To Construct, Existing System Inspection

(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)

1. APPLICATION FOR: X Improvement Permit X Authorization To Construct ___BOTH ___Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
   The following optional attachments may also be submitted: X Survey Plat, Scaled no more than 1 Inch = 60 Feet
   Place check ( ) beside whichever is submitted if applicable X Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Applicant Name	Mailing Address	Home Phone	Work Phone
RS & ES	2120 Graham Rd Mt. Ulla NC 28125	704 746 5046	
Owner Name	**Mailing Address**	**Home Phone**	**Work Phone**
Robert Elliott	20326 Bethelwood Ln Cornelius 28031	704 896-9751	

4. **Property Information:**

Street Address	Subdivision Name	Section/Phase and Lot Number
369 Honeycutt Rd Troutman NC 28166	N/A	Lot 6

Driving Directions: Perth, Rt on State Park, Lt on Honeycutt, Driveway on Lt @ curve.

****

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

( ) New, Single Family Residence
( ) New, Multi-Family Residence
(X) Expansion of Existing Septic System
( ) Repair To Failing Septic System

Maximum Number of Bedrooms 4
Maximum Number of Occupants 8
If Expansion, Current Number of Bedrooms 4
New System for Existing Home.

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
(X) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non- Residential Site Development:
Type of Business _____
Square Footage of Building _____
Maximum Number of Employees _____
Maximum Number of Seats _____

****

6. **Proposed Water Supply:**

( ) New Well (X) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

****

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)*

( ) Alternative ( ) Conventional ( ) Innovative (X) Modified Conventional ( ) Other_____ ( ) No Preference

****

8. **Please Answer The Following To The Best of Your Ability:**

( ) Yes (X) No Does the site contain any jurisdictional wetlands?
( ) Yes (X) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (X) No Is the site subject to approval by any other public agency?

****

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: _____ 5/12/06
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Iredell County
ZONING PERMIT

227 South Center St. PO Box 788 Statesville, NC 28687 Phone 704-878-3118

Call Sanitarian between 8 a.m. & 9 a.m. Statesville 704-878-5305 Mooresville 704-664-5281

Permit #: 135878ZO
Proposed Use: Single Family
Location of Property: 369 HONEYCUTT RD Troutman NC 28166
Parcel #: 4730511078.000
Lot #: 6 Size: ~~2.768~~ 1.276
Applicant: Ashley Rollans
Address: 2120 Graham Rd
Mt Ulla NC 28125
Phone:
Property Recorded: No Site Plan Reviewed:

Subdivision:
Township: 1500 Fallstown
Zoning: R20 CUD
Flood Plain: No Watershed: WSIV-CA
Owner: Robert & Jacquelyn Elliott
Address: 20326 Bethelwood Ln
Cornelius , NC 28031
Phone:
Community Water: No Community Sewer:

If permitted the following minimum requirements must be met, unless Health Department requires more land area, or other qualifications are indicated in the comments.

Min. Lot Area: 25000 Min. Front Yard: 35 ft Min. Left Side Yard: 15 ft
Min. Lot Width: 90 Min: Rear Yard: 50 ft Min: Right Side Yard: 15 ft
Min. Number Parking Spaces: Max. Built Upon Area:

Comments:
Hold building permit until plat is recorded

Directions:
Perth Road, fork right onto State Park Road, turn left onto Honeycutt Road, the house is at the end before the curve

FEES

Zoning Permit/Inspection Fee	☑	$45.00
Site Plan Review Fee	☐	$0.00
Environmental Health New System	☑	$200.00
Environmental Health Existing System	☐	$0.00
Total Fees:		$245.00

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Planning & Enforcement Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant:_____ Date: _____

A non-refundable fee of $45.00 is charged on all permit applications.

STEPHANIE WHITLOCK

Printed: 5/11/2006