| Permit #: | |
|-----------|--|
| | |



ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

| IMPROVEMENT PERMIT FOR G.S. 130A-335(a2) |
|--|
| 'ounty. |
| County: |
| PIN/Lot Identifier: |
| ssued To: |
| Property Location: |
| subdivision (if applicable) Lot #: Block: Section: |
| SS Report Provided: Yes No No |
| f yes, name and license number of LSS: |
| New |
| Proposed Structure: |
| Number of bedrooms: Number of Occupants: Other: |
| Design Wastewater Strength: domestic high strength industrial process |
| Proposed Design Daily Flow: GPD Proposed LTAR (Initial): Proposed LTAR (Repair): |
| Proposed Wastewater System Type*:(Initial) Pump Required: 🗌 Yes 🗍 No 🗍 May be required |
| Proposed Wastewater System Type*: (Repair) Pump Required: 🗌 Yes 🗍 No 🗎 May be required |
| Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a) |
| aprolite System (initial): Yes No Saprolite System (repair): Yes No |
| ill System (Initial): 🗌 Yes 🔲 No If yes, specify: 🔲 New 🔲 Existing (when adding more than 6 inches of fill to system area provide a fill plan) |
| ill System (repair): 🗌 Yes 🔲 No If yes, specify: 🔲 New 🔝 Existing (when adding more than 6 inches of fill to system area provide a fill plan) |
| Jsable Soil Depth (Initial): Usable Soil Depth (Repair): |
| Max. Trench Depth (Initial) [‡] : Max. Trench Depth (Repair) [‡] : [‡] Measured on the downhill side of the trench |
| Artificial Drainage Required: Yes No If yes, please specify details: |
| ype of Water Supply: Private well Public well Shared well Municipal Supply Spring Other: |
| Orainfield location meets requirements of Rule .1945: Yes 🔲 No 🔲 Drainfield location meets requirements of Rule .1950: Yes 🔲 No 🗍 |
| Permit valid for: 🗌 Five years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-334(7a) |
| Permit conditions: |
| |
| |
| |
| icensed Soil Scientist Print Name: |

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH



| Permit #: |
|-----------|
|-----------|

This Section for Local Health Department Use Only

| Initial subn | nittal received: | | by | | |
|--|---|--|--|---|--|
| | | Date | Initials | 5 | |
| G.S. 130A-335(a3) states the following: | | | | | |
| When an applicant for an Improvement Permit submits to department, the common form developed by the Departm within five business days of receiving the application, condepermit includes all of the required components. If the local shall notify the applicant of the components needed to condepartment to cure the deficiencies in the Improvement Persis complete within five business days after the local health act within any period set out in this subsection, the applications form for use as the Improvement Permit. | ent, and a soil evaluati duct a completeness rev I health department de mplete the Improvemer ermit. The local health o department receives ti | on pursuant to su view of the submit termines that the nt Permit. The app department shall he additional info | bsection (a2) of thi tal. A determinatic Improvement Pern Ilicant may submit make a final detern rmation from the a | is section, the local hea on of completeness me nit is incomplete, the lo additional information mination as to whether applicant. If the local he | Ith department shall, ans that the Improvement cal health department to the local health the Improvement Permit ealth department fails to |
| The review for completeness of this Improvem Permit is determined to be: | ient Permit was co | onducted in ac | cordance with (| G.S. 130A-335(a3) | . This Improvement |
| ☐ Incomplete (If box is checked, information | ı in this section is r | equired.) | | | |
| The following items are missing: | | | | | |
| | | | | | |
| Copies of this were sent to the LSS and the Ap | | Date | | | |
| State Authorized Agent: | | | | Date: | |
| ☐ Complete | 3//0 | | | 121 | |
| State Authorized Agent: | | | | Date: | |
| This Improvement Permit is issued pursuant to attached here. The issuance of this permit by permit holder is responsible for checking with to revocation if the site plan, plat, or the interownership of the site. This permit is subject to Disposal and to the conditions of this permit. | y the Health Depar n appropriate gove nded use changes. to compliance witl | rtment in no we erning bodies . The Improve | ay guarantees in meeting the ement Permit s | the issuance of o ir requirements. T shall not be affecte | ther permits. The his permit is subject ed by a change in |
| The Department, the Department's authorize any liabilities, duties, and responsibilities imp evaluations, submittals, or actions from a lice | osed by statute o | r in common l | aw from any cl | laim arising out of | or attributed to |
| Improvement Permit Expiration Date: | | | | | |
| | | | | | |
| | | | | | |

See attached site sketch



| Permit #: | |
|-----------|--|
|-----------|--|

Re-submittal of Improvement Permit

| Г | | | | \neg |
|-------------------|---|---------------------------------------|--|-----------------|
| | LHD USE ONLY: This IP resubmittal received: | | by | |
| | | Date | Initials | |
| The following it | ems are being resubmitted pursuant to G.S. 130A-335(| (a3) for issuance | of the Improvement Permit: | |
| | | | | |
| | STA | The | A. | |
| | A THE SH | THE OF | | |
| is accurate and o | hereby attest that cientist (Print Name) complete to the best of my knowledge and that the prolams, regulations, rules, and ordinances. | | required to be included with ement Permit meets all appli | |
| Signature | e of Licensed Soil Scientist | | Date | |
| | The section below is for Local Health Department use o | after submittal of | items noted as missing above. | |
| LHD Follow-u | p Completeness Review of Improvement Pe | ermit | | |
| | ompleteness of this Improvement Permit re-submitta ermit is determined to be: | l was conducted | in accordance with G.S. 130 | A-335(a3). This |
| ☐ Incomplete | (If box is checked, information in this section is requir | red.) | | |
| The following ite | ems are missing: | | | |
| | The second | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | |
| Copies of this we | ere sent to the LSS and the Applicant on | | | |
| State Authorized | d Agent: | | Date: | |
| ☐ Complete | | | | |
| State Authorized | d Agent: | | Date: | |



| Permit #: | |
|-----------|--|
|-----------|--|

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

| County: | |
|--|------|
| PIN/Lot Identifier: | |
| Issued To: | |
| Property Location: | |
| AOWE/PE Plans/Evaluations Provided: Yes 🔲 No 🔲 If yes, name and license number of AOWE/PE: | |
| Facility Type: | |
| ☐ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use | |
| Basement? Yes No Basement Fixtures? Yes No | |
| Type of Wastewater System*(Initial)(Repare) | air) |
| *Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a) | |
| Design Daily Flow: GPD Wastewater Strength: domestic high strength industrial process | |
| Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? | |
| Installation Requirements/Conditions | |
| Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center | |
| Trench/Bed Width: inches LTAR: gpd/ft² | |
| Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches [‡] Measured on the downhill side of the trench | |
| Aggregate Depth:inches above pipeinches below pipeinches total | |
| Pump Tank Size (if applicable): gallons Requires more than 1 pump? 🔲 Yes 🔲 No | |
| Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons | |
| Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other: | |
| Artificial Drainage Required: Yes 🗌 No 🔲 If yes, please specify details: | |
| Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.) | |
| Multi-party Agreement Required [.1937(h)]: Yes No | |
| Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🔲 Yes 🔲 No | |
| Declaration of Restrictive Covenants: Yes No | |
| Pre-Construction Conference Required: Yes 🔲 No 🗌 | |
| Conditions: | |
| ACCOUNT TO THE PERSON OF THE P | |
| | |
| The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference | |
| into this permit and shall be met. Systems shall be installed in accordance with the attached system layout. | |
| AOWE/PE Print Name: Expiration Date: | |
| AOWE/PE Signature: Date: | |

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



| Permit #: |
|-----------|
|-----------|

This Section for Local Health Department Use Only

| | Initial submittal received: | by | |
|--|--|--|---|
| | | Date | Initials |
| G.S. 130A-335(a5) states the follo | _ | | |
| mprovement Permit and Construction All Department, and any necessary signed and any necessary signed and angineer or a person certified pursuant to department shall, within five business dath the Construction Authorization or Improvements needed to conditional information to the local health Authorization. The local health department fails to act within any period apply for the building permit for the project the project of the project o | uthorization application together, the pend sealed plans or evaluations conducted of Article 5 of Chapter 90A of the General ys of receiving the application, conduct a green Permit and Construction Authorizization or Improvement Permit and Construction or Improvement Permit and Construction or Improvement Permit and Construction Authorization of the Construction Authorization of the Sall make a final determination as to interest and sall make a final determination as to interest and the subsection, the applicant sect upon the decision of completeness of the point or if the local health department fair in pursuant to this subsection may requited Construction Authorization for cause. Let | rmit fee charged by the lood by a person licensed purson licensed purson licensed purson licensed purson licensed purson licensed purson licensed l | ntion together, submits a Construction Authorization, or an cal health department, the common form developed by the suant to Chapter 89C of the General Statutes as a licensed of On-Site Wastewater Evaluator, the local health the submittal. A determination of completeness means that required components. If the local health department the complete, the local health department shall notify the add Construction Authorization. The applicant may submit the tonor Improvement Permit and Construction on Authorization or Improvement Permit and Construction and information from the applicant. If the local health that as a determination of completeness. The applicant may ration or Improvement Permit and Construction ass days. The Authorized On-Site Wastewater Evaluator or the partment revoke or suspend the Construction as Authorized On-Site Wastewater Evaluator or licensed and Construction Authorization pursuant to G.S. |
| The review for completeness of t | this Construction Authorization v | was conducted in acc | ordance with G.S. 130A-335(a5). This |
| Construction Authorization is de | termined to be: | | |
| ☐ Incomplete (If box is checked | d, information in this section is re | equired.) | |
| The following items are missing: | | | |
| Copies of this were sent to the A | OWE/PE and the Applicant on _ | Date | W 76 // |
| State Authorized Agent: | | | Date: |
| Complete | 1 Land | | 15/8 |
| State Authorized Agent: | J. PRIL | 12 1776 | Date of Issuance: |
| attached here. This Construction Construction Authorization shall to compliance with the provision of the Department, the Department in liabilities, duties, and respondans, evaluations, preconstruct the General Statutes as a license Authorized On-Site Wastewater agents, and the local health dep | n Authorization is subject to rev I not be affected by a change in ns of the Laws and Rules for Sev nt's authorized agents, and the nsibilities imposed by statute or cion conference findings, submit ed engineer or a person certified Evaluator in GS 130A-335(a2), (| ocation if the site plan ownership of the site wage Treatment and local health department in common law from tals, or actions from a pursuant to Article (a5), and (a7). The Dend bear liability for the | ing the signed and sealed plans or evaluations an, plat, or the intended use changes. The ite. This Construction Authorization is subject Disposal and to the conditions of this permit. In ents shall be discharged and released from many claim arising out of or attributed to a person licensed pursuant to Chapter 89C of 5 of Chapter 90A of the General Statutes as an epartment, the Department's authorized their actions and evaluations and other pursuant to GS 130A-337. |
| Construction Authorization Expi | ration Date: | | |
| · | | <u></u> | |
| | dia . | | |

See attached site sketch



| Permit #: | |
|-----------|--|
|-----------|--|

Re-submittal of Construction Authorization

| | THE USE ONLY: | This CA resubmittal received: | | by | | |
|------------------|--|---|------------------------|---------------------|------------------|-------------|
| | END OSE ONET. | Tills CA resubilittal received | Date | by | als | |
| The following i | tems are being resul | omitted pursuant to G.S. 130A-33 | 35(a5) for issuance of | of the Construction | n Authorization: | |
| | | | | | | |
| | | | | | | |
| 1 | | harahy attact the | at the information r | roquired to be incl | udad with this r | o submittal |
| is accurate and | | | at the information r | | | |
| Signatur | re of Authorized On-Site \ | Nastewater Evaluator | | Date | T) | |
| LHD Follow-ւ | | w is for Local Health Department us s Review of Construction A | | tems noted as missi | ng above. | |
| | completeness of thi on Authorization is o | s Construction Authorization re-s determined to be: | submittal was cond | ucted in accordan | ce with G.S. 130 | A-335(a5). |
| ☐ Incomplete | (If box is checked, ir | formation in this section is requi | ired.) | | | |
| The following it | ems are missing: | | | | | |
| | | IANO 302 MIL | M VIDER | 19 | | |
| Copies of this w | vere sent to the AOV | VE/PE and the Applicant on | Date | - | | |
| State Authorize | ed Agent: | | | Date: _ | | |
| Complete | | | | | | |
| State Authorize | ed Agent: | | | Date: _ | | |

6

Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

November 8, 2023 Project #1803

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

"This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)."

RE: 1701 Neill's Creek Road – Lillington, NC (Harnett County) for New Home Inc., LLC (PIN# 0661-72-4104)

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, ASC is providing the attached 360/day septic design. This permit will utilized a separately submitted "Engineered Flow Reduction".

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be placed into the initial or repair septic areas. Installation must meet all state and local county regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

Sincerely,

Alex Adams

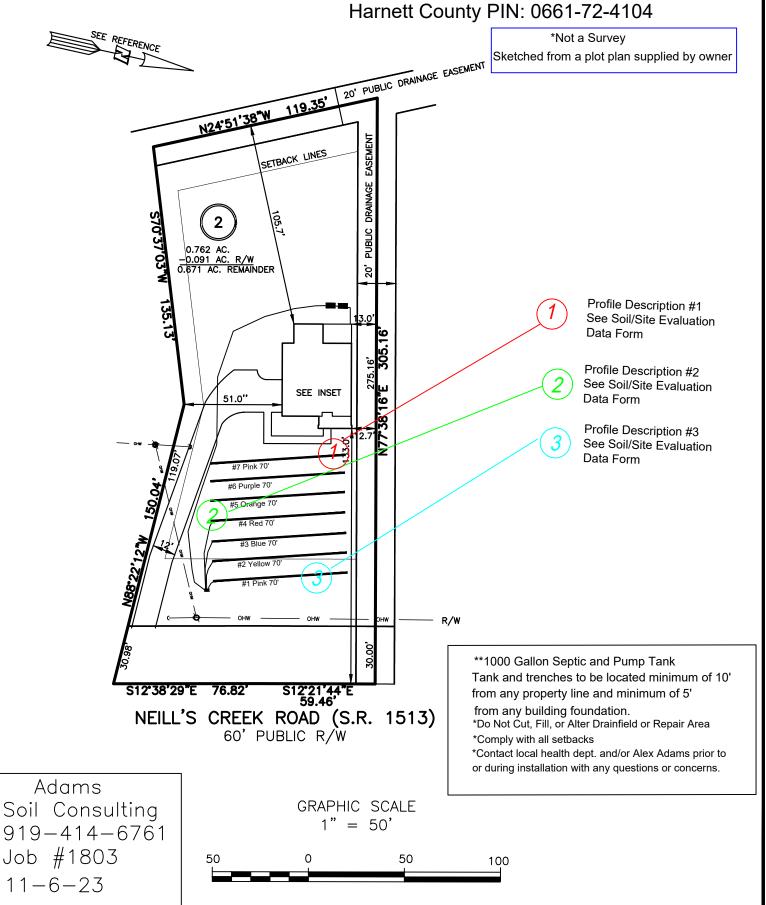
NC Licensed Soil Scientist #1247 AOWE Certification: 10021E





New Home, Inc 360 Gallon/day - Septic Design 1723 Neill's Creek Road SEE REFERENCE Harnett County PIN: 0661-72-4439 20' PUBLIC DRAINAGE EASEMENT 118.56 *Not a Survey Sketched from a plot plan supplied by owner PUBLIC DRAINAGE EASEMENT PUBLIC DRAINAGE EASEMENT 20 , 20, System: Pressure Manifold Lines: 2-4 (315') 0.35 LTAR 21" Max Trench Bottom Accepted Status System Repair: Pressure Manifold SETBACK INFO Lines: 1, 5-6 (180') FRONT: 35' REAR: 25' SIDES: 10' CORNER SIDE: 20' 0.35 LTAR 20" Max Trench Bottom PPBS - T&J Panel Block - 50% reductoin **1000 Gallon Septic and Pump Tank Tank and trenches to be located minimum of 10' NEILL'S CREEK ROAD (S.R. 1513) from any property line and minimum of 5' 60' PUBLIC R/W from any building foundation. *Do Not Cut, Fill, or Alter Drainfield or Repair Area *Comply with all setbacks *Contact local health dept. and/or Alex Adams prior to SCALE: 1" = 40' or during installation with any questions or concerns. Adams GRAPHIC SCALE Soil Consulting 1" = 50'919-414-6761 Job #1803 50 100 11 - 6 - 23

New Home, Inc Soil Boring Location Map 1701 Neill's Creek Road



PLOT PLAN FOR NEW HOME, INC. 1701 NEILL'S CREEK ROAD LOT 2B, HERITAGE AT NEILL'S CREEK SUBDIVISION (NOTE 3) NEILL'S CREEK TOWNSHIP, HARNETT COUNTY, NORTH CAROLINA 119.35' 20' PUBLIC DRAINAGE EASEMENT SEE REFERENCE HERITAGE AT NEILL'S CREEK B.M. 2023, PG. 520-521 SETBACK LINES LEGEND AIR CONDITIONER BACK of CURB BACK FLOW PREVENTER CLEANOUT CURB INLET DRILL HOLE SET EXISTING CONCRETE MONUMENT EXISTING DRILL HOLE EXISTING IRON STAKE EXISTING IRON STAKE EXISTING IRON PIPE ELECTRIC METER EXISTING PK NAIL ELECTRIC STUB FLARED END SECTION FIRE HYDRANT FIBER OPTIC PEDESTAL GAS METER GUY INVERT IRON PIPE SET MANHOLE SANITARY SEWER MACHETIC NAIL SET MANHOLE STORM SEWER OVERHEAD WIRES PK NAIL SET POINT NOT SET RAIL ROAD SPIKE TELEPHONE PEDESTAL UTILITY POLE WATER METER TELLD MEASUREMENT 2 હિ PUBLIC 0.762 AC. -0.091 AC. R/W 0.671 AC. REMAINDER 20, B.M. 2022, PG. 601 SEE INSET 51.0" 12.7 N/F RICHARD V. MCCALISTER D.B. 3145, PG. 376 33.0 IMPERVIOUS SURFACES HOUSE WALK & DRIVE PORCH TOTAL R/W 30.00 CENTERLINE S12°21'44 59.46' S12°38'29"E 76.82 SETBACK INFO NEILL'S CREEK ROAD (S.R. 1513) FRONT: 35' REAR: 25' SIDES: 10' R SIDE: 20' 60' PUBLIC R/W CORNER 14.8 COVERED PORCH 6.00 14.83 HOLLY EC SLAB FOUNDATION **REFERENCES:** B.M. 2022, PG. 601 WALK & DRIVE SCALE: 1" = 50'**NOTES** 1.67 1. THIS SURVEY SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH. 2. THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS. 5. RECORDED AS LOT 1 OF "LOT RECOMBINATION FOR 0.33 INSET SCALE: 1" = 30'OF "LOT RECOMBINATION FOR RSHIP, LLC." B.M. 2022, PG. 60 ENGINEERING ~ SURVEYING PLOT PLAN PRELIMINARY PLAT- NOT FOR RECORDATION, DATE: NOV. 2, 2023 CORPORATE LICENSE: C-17 Corporate License: C-1//1 101 W. Main St., Suite 202 Garner, NC 27529 PHONE (919) 779-4854 FAX (919) 779-4056 dicheritage at neill's greek/beritage neill's greek 28\hr CONVEYANCE OR SALES REV CODE: 1.FLIP, 2.PLAN, 3.ROTATE, 4.MOVE, 5.SS 6.SEVERAL OF ABOVE, 7.LAND FEATURE, 8. OTHER F.B. _

APPLICATION DATE:

DATE EVALUATED: 11-6-23

PROPERTY SIZE: 0.67 Acres

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: New Home Inc. LLC

ADDRESS: 1701 Neills Creek Road – Lillington

PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 360gpd

LOCATION OF SITE: 1701 Neills Creek Road – Lillington

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

| P R O F I L E | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | S MORP | SOIL PHOLOGY 1941) | PE OF WASTEV | | | | |
|---------------------------------|--|---------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|-------------------------|-------------------------|----------------------------|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
| | Linear Slope/2% | 0-12 | GR/SL | FR/SEXP/NS | 35 | N/A | N/A | N/A | PS/.35 |
| | | 12-36 | SBK/CL | FI/SEXP/SS | | | | | |
| 1 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Linear Slope/2% | 0-12 | GR/SL | FR/SEXP/NS | N/A | N/A | N/A | N/A | PS/.35 |
| | | 12-36 | SBK/CL | FI/SEXP/SS | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | Linear Slope/2% | 0-16 | GR/SL | FR/SEXP/NS | N/A | N/A | N/A | N/A | PS/.35 |
| | | 16-36 | SBK/CL | FI/SEXP/SS | | | | | |
| | | | | | | | | | |
| | _ | | | | | | | | |
| | | | | | | | | | |
| 4 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM | OTHER FACTORS (.1946): | | | | |
|-------------------------|---------------------------|---------------|---|--|--|--|--|
| Available Space (.1945) | S | s | SITE CLASSIFICATION (.1948): U/PS | | | | |
| System Type(s) | Type III (b) Type III (b) | | EVALUATED BY:A. Adams OTHER(S) PRESENT: | | | | |
| Site LTAR | 0.35 | 0.35 | | | | | |

COMMENTS:

RESIDENTIAL PRESSURE MANIFOLD DESIGN

1701 Neills Creek Road - Lillington, NC

of BDR: 4 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 840 System Type: Accepted

Number of Taps: $\underline{4}$ Length of Trenches: $\underline{280}$ ft(See Tap Chart for Details)

Depth of Trenches: <u>24</u> in Manifold Length: <u>42</u> in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: $\underline{100}$ ft Diameter: $\underline{2}$ in sch 40pvc

Friction Loss + Fitting Loss: 3.22 ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{6}$ ft

Total Head: 11.22 ft Pump to Deliver: 28.44 gals/min at 11.22 ft head

Dosing Volume: <u>127</u> gals,

Drawdown: 127 gals divided by $\underline{21.4}$ gals/in = $\underline{6.0}$ inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

| Benchmark | 0 | is = 100.00 | set at | | | | Design Head: | 2 | | | |
|---------------------------|-------|-------------|-----------------|-------------|--------------|----------|----------------|------------------|-----------|------------------------|---------------------------|
| Pump tank elev. | | 2 | 98.00 | Pump elev. | 93.00 | | Manifold elev. | 93.00 | | | |
| line | color | rod read | Elevation | length | hole size | flow/tap | gal/day | trench area | LINE LTAR | # of Panels (PPBPS) | Spacing of Panels (in) |
| 1 | | 8.00 | 92.00 | 70 | 3/4in SCH 40 | 7.11 | 90.00 | 210 | 0.4286 | | |
| 2 | | 8.50 | 91.50 | 70 | 3/4in SCH 40 | 7.11 | 90.00 | 210 | 0.4286 | | |
| 3 | | 9.00 | 91.00 | 70 | 1/2in SCH 40 | 7.11 | 90.00 | 210 | 0.4286 | | |
| 4 | | 9.50 | 90.50 | 70 | 1/2in SCH 40 | 7.11 | 90.00 | 210 | 0.4286 | | |
| | | | Total Feet = | 280 | gal/min = | 28.44 | | <u> </u> | 0.3500 | | |
| | | | Feet Required = | 257 | Velocity = | 2.72 | | (Itar + 5%) | 0.3675 | | |
| Total # of Panels (PPBPS) | | | | Des. Flow | 360 | | | (Itar w/25% red) | 0.4667 | | |
| % of Dose Vol. | | 70 | | Pump Run= | 12.66 | | | (Itar + 5%) | 0.4900 | | |
| Dose Volume | | 127 | | Tank Gal/IN | 21.4 | | | | | | |
| Dose Pump Time | | 4.48 | | Elev. Head | 6 | | | | | | |
| Drawdown in Inches | | 6.0 | | | | | | | | | |
| Comments: | | | | | | | | | | | |