OFFICIAL COPY

Mar 28 2024

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE & NECESSITY AND FOR APPROVAL OF RATES

INSTRUCTIONS

Notes or explanations place	d in the margins or the application are acceptable. If additional space is needed, supplementary	1
sheets may be attached.	If any section does not apply, write "not applicable" or cross out the section.	
	APPLICANT	

1.	Trade name used for utility business	ty business Old North State Water Company			
2.	Name of owner (if different from trade name) n/a				
3.	Business mailing address	PO Box 10127			
	City and state	Birmingham, AL		Zip Code	35202
4.	Business street address (if different from main	iling address)	3212 6th Ave S, Ste	200, Birmingham, A	L 35222
	······································	······			
5.	Business telephone number	205-326-3355			
6.	If corporation, list the following:				
	President Jol	nn McDonald	Vice President	none	·····
	Secretary Jol	n McDonald	Treasurer	none	
	Three (3) largest stockholders and percent of	f voting shares held by each			
_	John McDonald 100%				<u></u>
7.	If partnership, list the owners and percent of	ownership held by each			
	none				
		PROPOSED UTILITY S	ERVICE AREAS		
Q	Name of Subdivision or Service Area	The Reserve at Falls	oke Phose 4		
0. a	County (or Counties)	Wake County			
9. 10	Type of Service (Mater and/or Sewer)	Water			·····
10.	rype of dervice (water and/or dewer)				
		PROPOSED	ATES		
		(Amount Applicant Prop	oses to Charge)		
		(,			
11.	Metered Residential Service:				
	Water: \$	24.11 Base Rate	\$ 7.57 Usage (pe	r 1,000 gallons)	
	Sewer: \$	- Base Rate	\$ - Usage (pe	r 1,000 gallons)	
12.	Flat Rate Residential Service:				
	Water: \$	- per REU			
	Sewer: \$	- per REU			
13.	Nonresidential Service (explain):				
	Water:	per REU	Usage (pe	r 1,000 gallons)	
	Sewer: \$	- per REU	\$ - Usage (pe	r 1,000 gallons)	
14.	Tap-on fees:				
	Water: \$	500.00 per REU		_	
	Sewer: \$	- per REU			
15.	Finance charge for late payment	1%			
	(NCUC Rule R12-9 specifies not more than o	ne percent (1.0%) per month will	be applied to the unpaid bal	ance	
	of all bills still past due 25 days after billing da	ite.)			
16.	Reconnection charge if water service cut off b	by utility as specified in NCUC Ru	le R7-20:	\$	30.00
17.	Reconnection charge if water service cut off c	liscontinued at customer's reques	st:	\$	15.00
18.	Reconnection charge if sewer service cut off I	by utility as specified in NCUC Ru	ile R10-16:		<u>N/A</u>
19.	Other Charges: a. New account fee	\$ 20.00	b. Meter fe	e: \$	125.00

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-2-PUBLIC / REDACTED PROPOSED BILLING

Frequency of billing shall	be (monthly, quarterly, etc.)			
Billing shall be for service	e (in advance or arrears)		Arrears	
Bills past due	15 d	lavs after billing dates: (NCUC I	Rule R12-9 specifies that bills s	hall not be past due less
than fifteen (15)days afte	r billing date).		,	
Will regular billing be by	written statement? (ves or no)		Yes	
Will the billing statement	contain the following? (Indicate ves or	no for each item)		
(a) Meter reading at	beginning and end of billing period	,		Yes
(b) Date of meter rea	adinos			Yes
(c) Gallons used ba	sed on meter readings		· · · · ·	Ves
(d) Amount due for c	urrent hilling period listed as a separat	te amount		
(a) Amount due from	previous billing period listed as a separat	arate amount		Yes
(f) Amount due for e	ach special charge (i.e. deposite tap f	face anount foor ota Vistad as a concreto s		Vas
Show how the following w	will appear on the billing statement:	iees, elc.) iisleu as a separate c	aniount	
(a) Mailing address	appear on the bining statement.	DO Poy 10127	Dirmingham AL 25202	
(a) Maining address c	breompany	PO BOX 10127, 1	Birmingnam, AL 35202	····
(b) Address where bi	ill can be paid in person:	We do not have	e an option for paying bills in	person
(c) Name and phone	number of alternative persons to cont	act for emergency service after	business hours:	
1-877-511-291	1, caller will be directed to on-call c	operator		
Is service already metere	d? (yes or no)	No	······································	······
Does the Applicant under	stand the provisions for establishing c	redit and collecting customer de	eposits set forth	
in NCUC Rules and Regu	lations, Chapter 12? (yes or no)		Yes	
(Customer deposits must	be refunded to customers having not i	more than two (2) bills overdue	during a 12-month	
	en delinquent of their bills, per NCUC	R12-5.)		
period and who are not th		,		
period and who are not th Are you presently chargin	g for service? If so, describe the rates	PRESENT RATES		
period and who are not th Are you presently chargin No	g for service? If so, describe the rates	PRESENT RATES		
Are you presently chargin	g for service? If so, describe the rates	PRESENT RATES being charged.	n/a	
Period and who are not th Are you presently chargin No How long have these rate	g for service? If so, describe the rates	PRESENT RATES a being charged.	n/a	
period and who are not th Are you presently chargin No How long have these rate	g for service? If so, describe the rates s been in effect? <u>NAM</u>	PRESENT RATES being charged. PERSONS TO CONTAG	n/a CT ADDRESS	TELEPHONE
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Period and who are not th Are you presently chargin No How long have these rate	g for service? If so, describe the rates s been in effect? <u>NAM</u> John McDonald Dominic Whicher	PRESENT RATES s being charged. PERSONS TO CONTAG E 3212 6th Ave S, Ste 2	n/a <u>ADDRESS</u> 200. Birmingham, AL 35222 200. Birmingham, AL 35222	<u>TELEPHONE</u> 205-326-5355 205-326-6807
Period and who are not the Are you presently chargin No How long have these rate Utility Manager Complaints or Billing Engineering Operations	g for service? If so, describe the rates s been in effect? <u>NAM</u> John McDonald Dominic Whicher Date Boyette	PRESENT RATES is being charged. PERSONS TO CONTAG E 3212 6th Ave S, Ste 2 3212 6th Ave S, Ste 2 6309 Bran Pard Internet	n/a <u>CT</u> <u>ADDRESS</u> 200, Birmingham, AL 35222 200, Birmingham, AL 35222 200, Birmingham, AL 35222	<u>TELEPHONE</u> 205-326-3355 205-326-6807 252-30-8115
Period and who are not the Are you presently chargin No How long have these rate Utility Manager Complaints or Billing Engineering Operations	g for service? If so, describe the rates s been in effect? NAM John McDonald Dominic Whicher Dale Boyette Customer Service	PRESENT RATES is being charged. PERSONS TO CONTAG E 3212 6th Ave S, Ste 2 3212 6th Ave S, Ste 2 6302 Btyan Road Luc 2210 6th Ave S, Ste 2	n/a <u>CT</u> <u>ADDRESS</u> 200, Birmingham, AL 35222 200, Birmingham, AL 35222 cama, NC 27851 200, Birmingham, AL 35222	<u>TELEPHONE</u> 205-326-3355 205-326-6807 252-230-8115 877-511-2011 opt 1
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Are you presently chargin No How long have these rate Complaints or Billing Engineering Operations Emergency Service Accounting Are the names and phone (yes or no) Can customers make pho Yes Do persons designated to to provide the needed rep List the qualifications of th Alex Bass, C-Well, C-D List the date(s) and descri increase:	g for service? If so, describe the rates s been in effect? NAM John McDonald Dominic Whicher Dale Boyette Customer Service Joseph Mitchell numbers shown above listed in the pr No ne calls for service without being charge receive phone calls for emergency service sairs without first contacting owner? (ye e person in charge of the utility system istribution, Certification # 210029 be any DENR violation(s) since the las n/a	PRESENT RATES a being charged. PERSONS TO CONTAG E	n/a <u>ADDRESS</u> 200, Birmingham, AL 35222 200, Birmingham, AL 3522 200, Birmingham, AL 352	<u>TELEPHONE</u> <u>205-326-3355</u> <u>205-326-6807</u> <u>252-230-8115</u> <u>877-511-2911, opt 1</u> <u>205-588-6585</u> es

-3-PUBLIC / REDACTED <u>SERVICE AREA</u>

Fill in one column for each subdivision or service area.

ţ.

	*		(1)	(2)	(3)
1.	Name of subdivision or service area	The	Reserve at Falls Lake Ph	1.4	
2.	County (or Counties)		Wake		
3.	Type of service (water, sewer, etc.)		Water		
4.	If water is purchased, list from whom		NA		
5.	Source of water supply (wells, etc.)		Well	·····	
6.	Number of wells in service		1	·····	
7.	Pumping capacity of each pump in service		16 gpm		
8.	Elevated storage tank capacity (gals.)		NA		
9.	Pressure tank capacity (gals.)		5.000		
10.	Type of water treatment (chlorine, etc.)		Chlorine		
11.	Number of fire hydrants installed		NA	······	
12.	is sewage disposal by septic tank or by				
	sewer system?		Sentic tank		
13	If disposal is by sewer system is sewage			<u>,</u>	·
10.	treated by utility company or by others?		NΔ		
14	Canacity of Company's sawage treatment				
14,	plant (gallons nor day)		NΔ		
15	Is somice motored? (yes or no)			<u> </u>	
10.	Number of water meters in use				
10.	Number of water meters in use			<u> </u>	<u> </u>
17.	(list surplus of each size)	14/	0		
	(list number of each size)	water	U		
			·	<u> </u>	
			·		
		Sewer		·	
			·	·	
18.	Number of customers at the end of				
	test year	Water	16		
		Sewer	······································		
19.	Number of customers that can be				
	served by mains already installed				
	(including present customers,				
	vacant lots, etc.)	Water	16	<u> </u>	
		Sewer		······································	
20.	Number of customers that can be				
	served by pumping capacity	Water	16		
21.	Number of customers that can be				
	served by storage tank capacity	Water	16		
22.	Number of customers that can be				-
	served by treatment plant capacity	Sewer			
23.	Name of nearest water/sewer utility				
	system		City of Raleigh		
24.	Distance to nearest water/sewer		····		
	utility system		16 miles		
25.	Does any other person or utility		·····		<u> </u>
	seek to furnish the service(s)				
	proposed herein? (yes or no)		No		
26.	a, DENR System I.D. No.	Water	40-92-213	<u></u>	
	b. NPDES or Nondischarge			· · · · · · · · · · · · · · · · · · ·	
	Permit No.	Sewer			

-4-PUBLIC / REDACTED FINANCIAL STATEMENT

1.	Will a separate set of books be maintained for the utility	business?				
0	100					
2.	Will a separate bank account be maintained for the utilit	y business?				
3.	Are the revenues and expenses listed below based on past op	erations or are they estimated for futu	ure operations?			
	(actual or estimated) Estimated	·				
	Note: If the Applicant already holds a public utility franchise, t	the proposed service area is new (i.e	., there			
	are no customers being served), and the proposed rate	es herein are the same as those prev	iously			
	approved, then the financial information below (lines 4	through 35) may be omitted.				
	For 12 Months E	REVENUES AND EXPENSES inded December 31, 2024 (Date)	proiected for Year 1			
	Revenues		Water	Sewer		
4.	Residential service (flat rate)		4.506			
5.	Residential service (metered rate)		4.629	<u> </u>		
6.	Nonresidential service (flat rate)					
7.	Nonresidential service (metered rate)					
8.	Other revenues (described in remarks below)		320			
9.	Total Revenues (Lines 4 thru 8)		9,455			
	, , , , , , , , , , , , , , , , , , ,		<u>.</u>			
10.	Total salaries		4,544			
11.	Salaries paid to owner					
12.	Administrative and office expense (except salaries)	See Note A	257			
13.	Maintenance and repair expense (except salaries)		224	· · · · · · · · · · · ·		
14.	Transportation expenses		557			
15	Electric power for pumping		950			
16	Chemicals for treatment		450	· · · · · · · · · · · · · · · · · · ·		
17.	Testing fees		1,200			
18.	Permit fees		14			
19.	Purchase water/sewer treatment					
20.	Annual depreciation		-	• • • • • •		
21.	Taxes: State Income taxes					
22	Federal income taxes					
23.	Gross receipt taxes					
24.	Property taxes					
25.	Payroll taxes					
26.	Other taxes					
27.	Interest on debt during year		-			
28.	Other expenses (describe in remarks below)	See Note B	672			
9.	Total Expenses (lines 10 thru 28)		8,868			
30.	Net Income (Line 9 minus 29)		586			
Rem	arks					
31.	Line 8 - new account fee (\$20)					
32.	Line 12 - processing fees (Southdata, Stamik)					
3.	Line 28 - insurance expense, other operating expense, support	expense				
4 .	Test year revenue estimated at connections					
35.			. <u></u> .			

NUMBER OF CUSTOMERS SERVED

		Water		Sewe	r
		Flat Rate	Metered	Flat Rate	Metered
36.	Customers at beginning of year				
37.	Customers at end of year				
38.	Average gallons used per customer	3,100 /month			per month

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Is the cost of utility system listed below on past operation, or is it estimated for future operation? 1. (actual or estimated) Actual

2. Does the cost of utility system listed below represent the cost to the Applicant herein? (yes or no) No

If no, list cost (purchase price to Applicant).

\$8,000

ORIGINAL COST OF UTILITY SYSTEM As of Year Ended December 2024 (Date) proforma

Note: List the total original cost to construct and establish the system, whether or not paid for by the present owner.

Utility Property in Service

		Balance at End of	Year
		Water	Sewer
3.	Land and right-of-way	1.00	
4.	Structures and site improvement	34,000	
5.	Wells	25,600	
6.	Pumping equipment	9,900	
7.	Treatment equipment	800	
8.	Storage tanks	33,200	
9.	Mains (excluding service connections)	13,000	
10.	Service Connections	20,552	
11.	Meters (including spare meters)	750	
12.	Office furniture and equipment		
13.	Transportation equipment		
14.	Other utility property in service (describe in remarks below)	5,000	
15.	Total utility property in service (Lines 3 thru 14)	142,803	
16.	Less: accumulated depreciation		
17.	Less: accumulated tap fees and other contributions in aid of		
	construction	142,803	
18.	Less: customer advances		
19.	Net investment in utility property (Line15 minus16, 17, &18)		

Utility Property Not in Service

		Bal	ance at End of Year
		Water	Sewer
20.	Construction work in progress		
21.	Property held for future use	\$ -	\$ -
22.	Other (describe in remarks below)	\$ -	\$ -
		\$ -	\$ -

Remarks

23.	Line 14 - Cost for Engineering
24.	Line 19 - Company will receive \$500 tap fee per connection and pay Developer \$500 per connection therefore the net investment is zero.
25.	
26.	

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-6-PUBLIC / REDACTED RECOVERY OF PLANT COST

The utility proposes to recover the cost of the plant listed on Page 5, Line 15 as follows:

		Water	Sewer
1.	Amount to be contributed by developer	134,803	
2.	Amount to be recovered through tap fees	<u> </u>	
3.	Amount to be recovered through rates	<u></u>	
4.	Other (please describe below on Line 6)	8,000	
5.	Total cost of plant	142,803	\$-

6. Description of other:

Company will receive \$500 tap fee per connection and pay Developer \$500 per connection, therefore the net investment is zero. Tap fee activity is a pass thru/clearing transaction.

ANNUAL DEPRECIATION

7. If annual depreciation is claimed using a composite rate for the entire system show rate of depreciation used Water: When the system is actually recorded in the asset accounts, ONSWC will use account specific depreciation rates

8. If annual depreciation is claimed using individual rates for each type of equipment, show rates of depreciation used:

-7-PUBLIC / REDACTED OTHER FINANCIAL INFORMATION

Please provide the following capital structure information for the Company prior to the purchase of the new water 1. and/or sewer system(s)

a.	Capital structure as of	9/31/2023	2. Compared to a solution for constant and and and	
			Con	fidential
b.	Capital structure balances:		1	Doreont of
			Amount	Total Capital
			Amount	Total Capital
	Long-term debt/loans			
	Preferred stock (if any)			
	Common equity:			
	Capital Reserve			
	Retained earnings			
	Total common equity		-	
	Total Capital		-	
The p	ourchase price of the system will be	e financed as follows:		

- Long term debt a. Short term debt b. Capital Reserve C. Retained earnings d. Other (please describe below on Line g) e. Ś f. Total purchase price \$
- Description of other: g.

2.

Tap fees collected will be used to pay the per lot purchase price per the APA

- 3 Please provide the following for the improvements/additions to be made in the first year
 - Brief Description: a.

b.

No planned improvements for the first year

Financing: (1) Long-term debt (2) Short-term debt (3) Capital Reserve \$ (4) Retained earnings \$ (5) Other (please describe below on Line (7)) \$ Total improvements/additions (6) Ś (7) Description of other

Are there any major improvements/additions required in the next five years and the next ten years? Indicate the estimated cost of each improvement/addition, the year it will be made, and how it will be financed (long-term debt, short-term debt, common stock, retained earnings, and other (please explain)).

1.

None are planned			
		······································	
	···· <u>·</u> ·······		
		······································	
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2. Are there any major replacements required in the next five years and the next ten years? Indicate the estimated cost of each replacement, the year it will be made, and how it will be financed (long-term debt, short-term debt, common stock, retained earnings, and other (please explain)).

None are planned	 	
<u> </u>		
·······		
·····	······································	 · · · · · · · · · · · · · · · · · · ·
<u></u>		

- 3. Please fill out the attached addendum showing the projected cash flows and income statement for the first five years of operation of this system. This addendum should be for the utility system for which the subject application is being submitted, exclusively. Instructions are included on page 3 of the addendum. The following information may be provided instead of filing the addendum:
 - (1) Audited financial statements for the utility and/or parent company.
 - (2) Budgets, capital and operating, for the company's North Carolina utility operations for the next five years
 - (3) The most recent fiscal year budgets, capital and operating, and the actual amounts for that year for the utility's and/or parent company's North Carolina utility operations.

		DACTED
THE	FOLLOWING EXHIBITS SHALL BE ATTACHED TO THE APPLICATION	
Vi.	If the Applicant is a corporation, enclose a copy of the Articles of Incorporation on file	with the North Carolina Secretary
	of State. (Not required if previously filed wit the Commission.)	
2.	If the Applicants are doing business as a partnership, enclose a copy of the partnershi previously filed with the Commission.) n/a	ip agreement. (Not required if
v 8.	If the Applicant is conducting business under a trade name or d/b/a, enclose a copy of register of deeds in each county where the Applicant will be conducting business as re	the certificate filed with the equired by G.S. 65-68.
V 4.	Enclose a copy of a letter from the Department of Environment and Natural Resource: for each water system.	s granting approval of the plans
5.	Enclose a copy of a letter from the Department of Environment and Natural Resources for each sewer system.	a granting approval of the plans
6.	Enclose a copy of a Division of Environmental Health (DEH) report on an chemical an well. (This should not be confused with the monthly samples submitted to DEH for ba	alysis of unitreated water from each cteriological analysis. Contact
S.	DEH for instructions to obtain a sample for chemical analysis.)	
¥1.	Systems, including sites for wells or treatment plants.	o of control of the water of sewer
VX. - /	Enclose a copy of contracts or agreements, including all attachments, exhibits, and ap and any other party (land developers, customers, etc.) regarding the proposed utility so reporting tap loss construction and a presentation of units of any unit developers.	pendices, between the utility arvices, including contracts
12.	Enclose a vicinity map showing the location of the proposed subdivisions or service an	ess in sufficient detail for someone not familiar
~	with the county to locate the subdivisions. (A county roadmap with the subdivision ou	timed is suggested.) See Attachment
V.	hydrants, wells, pumping equipment, treatment facilities, storage facilities, etc. Attai	ched
M .	Enclose a copy of the workpapers supporting the estimate of the plant costs, including datail of how the estimated cost was determined, and indicating which plant times if a	a breakdown by type of plant item, showing the
Ve.	Enclose a copy of the most recent fiscal year financial statements, audited if available.	for the applicant.
13.	Enclose a copy of the most recent fiscal year financial statements, audited if available, Applicant.	for the parent company of the
14.	If the information requested in Exhibits 12 and 13 is not available, enclose a copy of the statements or statement of net worth for the principals of the utility and/or parent comp	e most recent fiscal year financial any,
	FILING INSTRU	ICTIONS
15.	Eight (8) copies of the application and exhibits shall be filed with the North Carolina U	tülties Commission, 4325 Maii
	Service Center, Rateigh, North Carolina 27599-4325. One of these copies must have (Applicants must also provide any copies to be returned to them.)	ve an original signature.
18.	Enclose a filing fee as required by G. S. §52-300. A Class A company (annual revenue	es of \$1,000,000 or more)
	requires a \$250 filing tee. A Class B company (annual revenues between \$200,000 an	nd \$1,000,000) requires a \$100
	filing fee. A Class C company (annual revenues less than \$200,000) requires a \$25 fil PAYABLE TO THE N.C. DEPARTMENT OF COMMERCE/UTILITIES COMMISSION	ing fee. MAKE CHECK I.
	SIGNATU	RE a
17	Analization shall be alread and unified by the Analizati	
17.	Abhicanoi anai na aituan and Astinad Dà ma Abhicant.	Signature:
18.	(Typed of Printed Name) John McDonald	Date: 4/26/24
	personally appearing before me and being first duly sworn, says that the information or in the exhibits attached hereto are true to the best of his/her knowledge and belief.	entained in this application and
		28th Flores
	s	day of the Drug of
	Jennifer Lynn Adams Notery Public, Alabama State at Large My Commission Evolution of Constants	Notary Public 3212 6th Ave S. Ste 200, Birmingham, AL 35222
		Address
		My Commission Expires: 7/1/2025 Date

Filename: The Reserve at Falls Lake CPCN application

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Project	ed Income Statement						
Line No	<u>ltem</u>		Year 1	Year 2	Year 3	Year 4	Year 5
	Connections		16	16	16	16	16
	Operating revenue						
1	Metered service revenue		4,506	4,506	4,506	4,506	4,506
2	Flat rate service revenue		4,629	4,629	4,629	4,629	4,629
3	EPA testing surcharge						
4	Re-connect fees						
5	Returned check charge						
6	Late payment charge						
7	Other operating revenue		320	-	-	-	-
8	Total operating revenue (Sum of Line 1 thru Line 7)		9,455	9,135	9,135	9,135	9,135
	Operating expenses						
9	Total salaries and wages (employees only)		4,544	4,617	4,690	4,765	4,841
10	Outside labor expenses (non-employees)				-		
11	Administrative and office expense		257	265	273	281	290
12	Maintenance and repair expense		224	231	238	245	252
13	Purchased water				-	-	-
14	Purchased sewage treatment		•	-	-	-	-
15	Electric power expense (exclude office)		950	979	1,008	1,038	1,069
16	Chemicals expense		450	464	477	492	506
17	Testing fees		1,200	1,236	1,273	1,311	1,351
18	Transportation expense		557	574	591	608	627
19	Other operating expense		672	692	713	734	756
20	Total operation and maintenance expenses (Sum of Line 9 thru Line 19)		8,854	9,056	9,263	9,475	9,692
21	Annual depreciation expense		•	-	-	-	-
22	Property taxes paid on utility property						
23	Payroll taxes					-	-
24	Franchise (gross receipts) tax						
25	Annual NCUC regulatory fee	0.1475%	14	13	13	13	13
26	Total operating expenses (Sum of Line 20 thru Line 25)		8,868	9,070	9,276	9,488	9,706
	Pre-tax operating income (loss):		586	65	(142)	(354)	(571)
	Income Taxes						
27	State income taxes		15	2	-	-	-
28	Federal income taxes		120	13	<u> </u>		-
29	Total Income taxes (Line 27 + Line 28)		135	15	-	-	-
30	Net operating income (loss) (Line 8 - Line 26 - Line 29)		452	50	(142)	(354)	(571)
31	Interest expense		139	138	137	135	134
32	Net income (loss) (Line 30 - Line 31)		312	(88)	(278)	(489)	(705)

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

Filename: The Reserve at Falls Lake CPCN application_v2

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Sheet name: Forecast

<u>Mar 28 2024</u>

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State	ment of Cash Flows					
<u>Line N</u>	<u>ltem</u>	Year 1	Year 2	Year 3	Year 4	Year 5
	Cash Flows From Operating Activities					
1	Pre-tax operating income (loss):					
2	Total operating revenue	9,455	9,135	9,135	9,135	9,135
3	Less: Operation and maintenance expenses	8,868	9,070	9,276	9,488	9,706
4	Less: Taxes other than income	14	13	13	13	13
5	Pre-tax operating income (loss)	572	52	(155)	(367)	(585)
6	Income tax calculation:					
7	Pre-tax operating income (loss)	572	52	(155)	(367)	(585)
8	Plus: Contributions in aid of construction	-	-	-	-	•
9	Less: Tax depreciation	-	-	•	-	-
10	Less: Interest expense	139	138	137	135	134
11	Taxable income (loss)	433	(86)	(292)	(502)	(719)
12	State income tax	11	-	-	-	-
13	Federal income tax	89	<u> </u>	-		-
14	Total income taxes to be paid	99	-		-	•
15	Net cash provided by (used in) operating activities	334	(86)	(292)	(502)	(719)
	Cash Flows From Investing Activities					
16	Purchases of utility plant	8,000	-	-	-	-
17	Plus: Cash bonds posted	-	-	-	-	-
18	Less: Contributions in aid of construction	8,000	-	-	-	•
19	Less: Proceeds from disposal of utility plant	•	-	-	-	-
20	Net cash used (provided) by investing activities	-	-	-	-	-
	Cash Flows From Financing Activities					
21	Proceeds from issuing short term debt	-	-	-	-	•
22	Less: Principal repayment of short term debt	-	-	-	-	-
23	Plus: Proceeds from issuing long term debt	-	-	-	-	-
24	Less: Principal repayment of long term debt	-	-	-	-	-
25	Less: Interest payment for short and long term debt	-	-	-	-	-
26	Plus: Proceeds from issuing stock	-	-	-	-	-
27	Less: Dividends paid	-	-	•	-	•
28	Plus: Funds provided by owner	•	-	-	-	•
29	Net cash provided (used) by financing activities	-	-	-	-	-
30	Net increase (decrease) in cash	334	(86)	(292)	(502)	(719)
31	Cash balance at beginning of year	-	334	247	(45)	(547)
32	Cash balance at end of year	334	247	(45)	(547)	(1,266)

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES

Filename: The Reserve at Falls Lake CPCN application_v2

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Sheet name: Forecast

W1300,Sub 83

ADDENDUM TO APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY AND FOR APPROVAL OF RATES Instructions

- 1 These schedules should reflect all revenues, costs, investment, etc. associated with or to be associated with the utility system for which the subject franchise application is being submitted, exclusively.
- 2 For purposes of forecasting future expenses, as a simplifying assumption, it may be assumed that increases in such costs due to increases in general price levels, (i.e., inflation) will on average be offset by concurrent rate increases. Thus, no provision(s) for such offsetting changes will need to be made in forecasting costs.
- A written detailed narrative explanation of all assumptions underlying the information and data contained in this addendum and five (5) copies of all workpapers developed in completing the addendum are to be filed with the Commission's Chief Clerk concurrent with the filing of the franchise application.
- 4 Computations for Statement of Cash Flows (Page 2 of Addendum)
 - (a) Line 2 should agree with Addendum Page 1 Projected Income Statement, Line 8.
 - (b) Line 3 should agree with Addendum Page 1 Projected Income Statement, Line 20.
 - (c) Line 4 should agree with Addendum Page 1 Projected Income Statement, Sum of Line 22 thru Line 25.
 - (d) Line 14 should equal Line 12 plus Line 13.
 - (e) Line 15 should equal Line 5 less Line 14.
 - (f) Line 30 should equal Line 15 less Line 20 plus Line 29.
 - (g) Line 31 should equal the cash balance at the end of the prior year, except for the beginning balance for Year 1, which should be zero.
 - (h) Line 32 should equal Line 30 plus Line 31.

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	Year 1	Year 2	Year 3	Year 4	Year 5
> Projected connections added each year	16	-	-	-	-
Projected connections cumulative	16	16	16	16	16
Projected monthly usage	3,000	3,000	3,000	3,000	3,000

> Other operating revenue is the application fee of \$20 multiplied by the number of connections per year.

> Annual inflationary factor of 3% is assumed for years 2 to 5. No rate increase is assumed in the projection.

>	Assumptions for salaries expense:	Year 1	Year 2	Year 3	Year 4	Year 5
	Projected ONSWC REU count	6,884	6,953	7,022	7,093	7,164
	Projected combined REU count (ONSWC and Integra) for indirect allocation	12,259	12,504	12,754	13,009	13,270
	Projected ONSWC annual payroll	1,196,000	1,231,880	1,268,836	1,306,901	1,346,109
	Projected shared services indirect payroll	1,352,000	1,392,560	1,434,337	1,477,367	1,521,688
	Prorata ONSWC payroll exp (connection count/ONSWC REU x ONSWC payroll)	2,780	2,835	2,891	2,948	3,007
	Shared services payroll exp (system count/combined REU x indirect payroll)	1,765	1,782	1,799	1,817	1,835
>	Admin and office expense includes processing fee (0.55/customer per month) and print/mail ser	1.34	1.38	1.42	1.46	1.51
>	Repairs & maintenance estimated at \$14 annual cost per connection/mo based on historical exp	1.17	1.20	1.24	1.27	1.31
>	Electric power cost based on pump and motor size and hours of operation					
>	Chemicals and Testing cost based on compliance sampling schedule					
>	Transportation cost (vehicle lease, fuel, repairs) per customer per month estimate	2.90	2.99	3.08	3.17	3.26
>	Other operating expense includes insurance expense and support expense allocation (IT, telecom,	office expense an	d other non-payoll sh	nared costs).		
	estimated monthly cost per customer	3.50	3.61	3.71	3.82	3.94

Filename: The Reserve at Falls Lake CPCN application_v2

ASSUMPTIONS

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W1300,Sub 83

> Assumptions for depreciation expense:	Cost	Est life (yrs)	annual depr		
Land and right-of-way	1	not applicable			
Structures and site improvement	34,000	25	1,360		
Wells	25,600	50	512		
Pumping equipment	9,900	10	990		
Treatment equipment	800	20	40		
Storage tanks	33,200	50	664		
Mains (excluding service connections)	13,000	50	260		
Service Connections	20,552	20	1,028		
Meters (including spare meters)	750	15	50		
Office furniture and equipment	-	5	-		
Transportation equipment	-	5	-		
Other utility property in service	5,000	40	125		
Total depreciable utility property in service from developer (exclude land)	142,802	28.40	5,029		
	Year 1	Year 2	Year 3	Year 4	Year 5
Annual depreciation expense for plant in service	5,029	5,029	5,029	5,029	5,029
Annual CIAC amortization expense for contributed plant in service	- (5,029)	(5,029)	(5,029)	(5,029)	(5,029)
Annual depreciation expense for tap fees paid by utility company	•	-	-	-	
Total annual net depreciation		<u> </u>	-	-	-
> Interest expense (allocated by REU) is bond interest cost of 6% on a \$1M letter of credit.	139	138	137	135	134

Filename: The Reserve at Falls Lake CPCN application_v2

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Sheet name: Forecast

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Mar 28 2024



NORTH CAROLINA W-13 PUBLIC / REDACTED Department of the Secretary of State

OFFICIAL COPY

Mar 28 2024

To all whom these presents shall come, Greetings:

I, ELAINE F. MARSHALL, Secretary of State of the State of North Carolina, do hereby certify the following and hereto attached to be a true copy of

ARTICLES OF INCORPORATION

OF

OLD NORTH STATE WATER COMPANY, INC.

the original of which was filed in this office on the 11th day of July, 2022.





Certification# C202215701617-1 Reference# C202215701617-1 Page: 1 of 3 Verify this certificate online at https://www.sosnc.gov/verification

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Raleigh, this 11th day of July, 2022.

Elaine I. Marshall

Secretary of State

State of North Carolina Department of the Secretary of State

ARTICLES OF INCORPORATION INCLUDING ARTICLES OF CONVERSION

SOSID: 1225035 Date Filed: 7/11/2022 8:14:00 AM Elaine F. Marshall North Carolina Secretary of State

C2022 157 01617

ITEM 1 ATTACHMENT W-1300 SUB 83

Pursuant to §55-2-02 and § 55-11A-03 of the General Statutes of North Carolina, the undersigned converting business entity does hereby submit these Articles of Incorporation Including Articles of Conversion for the purpose of forming a business corporation.

The name of the resulting corporation is Old North State Water Company, Inc. 1. The corporation is being formed pursuant to a conversion of another business entity.

The name of the converting business entity is Old North State Water Company, LLC

- 2. and the organization and internal affairs of the converting business entity are governed by the laws of the state or country of North Carolina _. A plan of conversion has been approved by the converting business entity as required by law.
- 3. The converting business entity is a (check one):
 - foreign corporation

7.

- domestic limited liability company
- foreign limited liability company
- domestic limited partnership
- foreign limited partnership
- domestic registered limited liability partnership
- foreign limited liability partnership
- other partnership as defined in G.S. 59-36, whether or not formed under the laws of North Carolina
- The number of shares the corporation is authorized to issue is: 10,000 4.

These shares shall be: (check either a or b)

- a. **I** all of one class, designated as common stock; or
- b. divided into classes or series within a class as provided in the attached schedule, with the information required by N.C.G.S. Section 55-6-01.
- The name of the initial registered agent is: Paracorp Incorporated 5.
- 6. The street address and county of the initial registered office of the corporation is:

Number and Street 17	<u>6 Mine Lake C</u>	<u>t. #100</u>	
city Raleigh	State NC	Zip Code 27615	County Wake
The mailing address, if di	ifferent from the street ad	dress, of the initial registered offic	ce is:

Number and Street			·····
City	State NC	Zip Code	County
BUSINESS REGISTRATION DIV (Revised July 2017)	ISION	P. O. BOX 29622	RALEIGH, NC 27626-0622 (Form B-01A)

	City		State	Zip Code	County
	b. 🗌 The	corporation does n	ot have a princi	pal office.	
	Any other p	rovisions, which the	corporation el	ects to include, are attached.	
0.	The name ar John Mc	nd address of each in Donald	ncorporator is a	s follows:	
	3212 6th	<u>Avenue S., S</u>	uite 200		
	Birmingh	am, AL 35222			
Ι.	Birmingh (Optional): I	Please provide a bus	iness e-mail ad	dres Privacy Redact	. <u>ion</u>
2.	Birmingh (Optional): I The Secretar document is is being offe These article	Please provide a bus y of State's Office filed. The e-mail pr red. please see the i s will be effective u	iness e-mail ad will e-mail the ovided will not nstructions for pon filing, unle	Idres Privacy Redact business automatically at the add to be viewable on the website. Fo this document.	tion dress provided at no charge when a r more information on why this serv d:
1. 2.	Birmingh (Optional): I The Secretar document is is being offe These article the 26th	Please provide a bus y of State's Office filed. The e-mail pr red. please see the i s will be effective u day of <u>May</u>	iness e-mail ad will e-mail the rovided will not nstructions for pon filing, unle 20 <u>22</u> .	dres <u>Privacy Redact</u> business automatically at the add to be viewable on the website. Fo this document. ess a date and/or time is specified	tion dress provided at no charge when a r more information on why this served d:
1. 2. ⁻ nis t	Birmingh (Optional): I The Secretar document is is being offe These article the 26th	Please provide a bus y of State's Office filed. The e-mail pr red. please see the i s will be effective u day of <u>May</u>	iness e-mail ad will e-mail the ovided will not nstructions for pon filing, unle 20 <u>22</u> .	Idres Privacy Redact business automatically at the add to be viewable on the website. Fo this document. ess a date and/or time is specified date and/or time is specified Signature	dress provided at no charge when a r more information on why this served.

Zip Code **35222**

NOTES:

8.

a.

City Birmingham

Principal office information: (Select either a or b.)

The corporation has a principal office.

The principal office telephone number: (877) 511-2911

Number and Street 3212 6th Avenue S., Suite 200

The street address and county of the principal office of the corporation is:

State AL

1. Filing fee is \$125. This document must be filed with the Secretary of State.

P. O. BOX 29622

RALEIGH. NC 27626-0622 (Form B-01.4) **Mar 28 2024**

W-1300 SUB 83

County Jefferson

OFFICIAL COPY

Mar 28 2024

W1300, Sub 83 PUBLIC / REDACTED

WAKE COUNTY, NC TAMMY L. BRUNNER REGISTER OF DEEDS PRESENTED & RECORDED ON 09-07-2023 AT 10:29:13

BOOK: 019427 PAGE: 02722 - 02727

ITEM 3 ATTACHMENT W-1300 SUB 83

DEED OF EASEMENT

PREPARED BY: Nikole B. Mariencheck, 7101 Creedmoor Road, Suite 142, Raleigh, NC 27613

MAIL TO: Grantee

STATE OF NORTH CAROLINA COUNTY OF WAKE

Real Estate ID No.: 0507682 Excise Tax: None

Brief Description for the Index: Falls Reserve Subdivision – Phase 4

THIS DEED of EASEMENT is made and entered into this 6th day of September, 2023, by and between FALLS LAKE DEVELOPERS, LLC, a North Carolina limited liability company, hereinafter referred to as "Grantor;" and OLD NORTH STATE WATER COMPANY, INC., a North Carolina corporation with its principal office and place of business at 3212 6th Avenue South, Suite 200, Birmingham, Alabama 35222, hereinafter referred to as "Grantee;"

The designation of the Grantor and the Grantee as used herein shall include said parties, their successors and assigns, and shall include the singular and plural as required and the masculine, feminine and neuter gender as appropriate.

WITNESSETH:

WHEREAS, it is the desire of Grantor and Grantee to convey to Grantee, its successors and assigns, by this deed of easement, a perpetual easement within, over, and across a well lot more particularly described on <u>Exhibit A</u> attached hereto and incorporated herein by reference (the "Well Lot") for the installation, construction, operation, interconnection, maintenance, repair, and replacement of a water production and treatment facility to furnish water utility service to Falls Reserve Subdivision –Phase 4, as shown on that certain plat recorded in Book of Maps 2023, Pages 1110-1111, Wake County Registry ("Falls Reserve – Phase 4"), and also a

Submitted electronically by Murphy Law PLLC in compliance with North Carolina statutes governing recordable documents and the terms of the submitter agreement with the Wake County Register of Deeds.

perpetual access and utility easement for ingress, regress, egress, and access to the Well Lot, which easement shall also be for the installation, construction, operation, interconnection, maintenance, repair, and replacement of a water main and all appurtenant equipment.

Well Lot Easement; Well Protective Easement

NOW THEREFORE, the Grantor for valuable consideration paid by the Grantee, the receipt and sufficiency of which are hereby acknowledged, has and by these presents does grant, bargain, sell, and convey unto Grantee, its successors and assigns, a perpetual easement of ingress, egress, regress, and access within, over, and across the Well Lot for the construction, reconstruction, inspection, interconnection, operation, maintenance, and repair of a well, well house, tank, and/or all related water production, treatment, and storage equipment.

This perpetual easement is also a protective non-contamination easement for the protection of the water well located within the Well Lot. This well protective easement prohibits Grantor, Grantor's successors and assigns, and/or any other person or entity from placing within the Well Lot or allowing to run into the Well Lot any pesticide, herbicide, insecticide, or any other contaminant which may violate the Safe Drinking Water Act, the rules and regulations for community water systems established by the North Carolina Department of Environmental Quality, and/or any other applicable regulatory body. This non-contamination easement also specifically prohibits Grantor and all other persons from parking or locating on the Well Lot any vehicles, equipment, boats, and/or any other type of equipment which may contain chemicals, fuels, and/or other fluids that may be a source of contamination to the water well. Grantee, its successors and assigns shall have the right to remove any source of contamination immediately and/or require the person or entity introducing the source of contamination to remove the contamination and the sources of contamination and also require such person or entity to pay all expenses associated with the removal. In connection with the foregoing, Grantor does hereby grant unto Grantee, its successors and assigns, the right to grade, ditch, or otherwise change the contour of the land within the Well Lot if the same becomes necessary in order to protect the well water from sources of contamination.

Well Lot Access and Utility Easement

Grantor, for valuable consideration paid by the Grantee, the receipt and sufficiency of which are hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto Grantee a perpetual easement of ingress, regress, egress, and access to the Well Lot from the 50' public right of way known as Summer Tanager Trail and also a perpetual easement for the installation, maintenance, repair, interconnection, operation, inspection, and replacement of a water main and all appurtenant equipment, including, but not limited to, electric utility lines, which easement is as more particularly described on <u>Exhibit B</u> attached hereto and incorporated herein by reference.

To have and to hold the aforesaid perpetual easements unto the Grantee, its successors and assigns, and all privileges and appurtenances, thereunto belonging to the Grantee. The

Grantor hereby, for itself, its successors and assigns, hereby warrants and covenants that it is the owner of the aforesaid premises, that it as the right to grant such easements and that the premises are free and clear of any encumbrances and will warrant and defend title to the same against lawful claims of all persons whomsoever.

[Signature page to follow.]

Mar 28 2024

IN WITNESS WHEREOF, the Grantor has caused this instrument to be executed on the day and year first above written.

FALLS LAKE DEVELOPERS, LLC

Curta K. (Seal) By: Andrew K. Sandmar

Title: Manager

STATE OF NORTH CAROLINA COUNTY OF WAKE

I, the undersigned, a Notary Public of the County and State aforesaid, certify that ANDREW K. SANDMAN, whose identity has been proven by satisfactory evidence, said evidence being:

I have personal knowledge of the identity of the principal(s)

I have seen satisfactory evidence of the principal's identity, by a current state or federal identification with the principal's photograph in the form of a ______

A credible witness has sworn to the identity of the principal(s);

personally came before me this day and acknowledged that he, in such capacity and being authorized to do so, voluntarily executed the foregoing on behalf of the corporation for the purpose stated therein and in the capacity indicated.

Witness my hand and official stamp or seal this 6th day of September, 2023.

Notary Public Signature

Print Name: Nikole B, Marjenchulc My Commission Expires: 10-9-202



EXHIBIT A

Well Lot

BEING all of that certain circular area shown as "7419 Well" with a radius of 100.00 feet located within that certain area described as "Open Space" containing 2.84 acres, more or less, as shown on that certain plat entitled "Cluster Subdivision Plat Phase 4 Cluster The Reserve at Falls Lake" prepared by Barry L. Scott Land Surveying dated August 4, 2022, as last revised on April 11, 2023, and recorded in Book of Maps 2023, Pages 1110 - 1111, Wake County, North Carolina Registry.

W1300, Sub 83

EXHIBIT B

Well Lot Access and Utility Easement

BEGINNING at a point on the western right of way of Summer Tanager Trail, said point having N.C. grid coordinates of N= 812,507.11' E 2,099,680.57' (NAD '83/2011); thence runs N 78-50'-01" W 77.54' to a point; thence runs S 11-04'-00" W 9.80' to a point; thence runs N 77-06'-38" W 25.65' to a point; Thence runs N 11-04'-00" E 33.58' to a point; thence runs S 79-21'-03" E 26.78' to a point; thence runs S 11-04'-00" W 10.48' to a point; thence runs S 78-50'-01" E 74.06' to a point on the western right of way of Summer Tanager Trail; thence running with said right of way S 01-47'-24" W 14.52' to the POINT AND PLACE OF BEGINNING.

W1300, Sub 83

Exhibit 3.2

STATE OF NORTH CAROLINA COUNTY OF WAKE

BILL OF SALE - WATER

KNOW ALL MEN BY THESE PRESENTS that FALLS LAKE DEVELOPERS (Seller), in return for valuable consideration received by the Seller from Old North State Water Company, LLC (Buyer), the sufficiency of which is hereby acknowledged, has bargained and sold and does by this instrument bargain, sell, and convey to the Buyer, its successors and assigns, the entire potable distribution system located in Falls Reserve Phase 4 Subdivision, Wake County, North Carolina, including, but not limited to distribution mains, valves, tees, ells, crosses, water main easements within publicly dedicated rights of way, and services, all property conveyed hereby being referred to as the Property.

To have and to hold the Property in fee simple.

IN TESTIMONY WHEREOF, the Seller has hereunto set his hand this the $\frac{13^{12}}{12021}$ day of $\frac{2022}{2021}$.

ANDREN SANDMAN MANAGER FALLS LAKE DLUZWPAS, LLC

<u>Mar 28 2024</u>

[Notary Page for Bill of Sale – Falls Reserve Phase 4 Subdivision Water System]

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, the undersigned, a Notary Public of the County and State aforesaid, certify that Andrew Sandman, whose identity has been proven by satisfactory evidence, said evidence being:

I have personal knowledge of the identity of the principal(s) I have seen satisfactory evidence of the principal's identity, by a current state or federal identification with the principal's photograph in the form of a <u>NC DEVIRS</u> License A credible witness has sworn to the identity of the principal(s);

personally came before me this day and acknowledged that he, in such capacity and being authorized to do so, voluntarily executed the foregoing on behalf of the corporation for the purpose stated therein and in the capacity indicated.

Witness my hand and official stamp or seal this	23d day of May	<u>2022.</u> 2021 .
Laura M. Johnson	Martin MA M.	
Notary Public Signature	PLZ	
Print Name: Lawra M. Johnson	s Š	
My Commission Expires: 11-2-22	AR BUIC	
[AFFIX NOTARY SEAL BELOW-NOTE THA	T SEAL QUEIT BE FULLY	LEGIBLE]

ITEM 3 ATTACHMENT

W , S u b -3

		TEM SATIACHMENT
	PUBLIC / REDACTED	W1300, Sub 83
	Exhibit 11.1.h.	
	List of Lot Numbers and Addresses F Subdivision Name: Falls Reserve Ph	orm
	Subdivision Mane, Pans Reserve Pha	
	7409 Summer Tanager Trail	
	7413 Summer Tanager Trail	
	7417 Summer Tanager Trail	
	7429 Summer Tanager Trail	
	7433 Summer Tanager Trail	
	7437 Summer Tanager Trail	
	7441 Summer Tanager Trail	
_	7445 Summer Tanager Trail	
_	7440 Summer langer Trail	
_	7436 Summer Tanager Trail	
	7432 Summer Tanager Trail	
-	7428 Summer Tanager Irall	
_	7420 Summer Janager Tras 1	
_	7416 Summer lanager Irail	
_	7412 Summer lanager Trail	
	7408 Summer lanager Trail	

WellSite - 7419 Summer Tanager Trail

ø

ITEM 4A ATTACHMENT

W1300, Sub 83

<u> Mar 28 2024</u>

ROY COOPER Governor ELIZABETH S. BISER Secretary S. DANIEL SMITH Director



NORTH CAROLINA Environmental Quality

February 3, 2022

Old North State Water Company Attention: John McDonald, Managing Member PO Box 10127 Birmingham, Alabama 35202

Re: Authorization to Construct (This is not a Final Approval) Issue Date: February 3, 2022 The Reserve at Falls Lake Subdivision - Phase 4 Serial No.: 21-01094 Wake County Water System No.: NC4092213 Water System Name: Reserve at Falls Lake (Phase 4)

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for The Reserve at Falls Lake Subdivision - Phase 4, Serial No.: 21-01094. This authorization to construct is granted with the following condition: Recorded well lot deed/easement documenting that Old North State Water Company owns or has control over 100 feet around the well head must be submitted to our office before Final Approval can be issued for this project.

The "Authorization to Construct" is valid for 36 months from the issue date. Authorization to construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed (see Rule .0305). The "Authorization to Construct" and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, and prior to placing the new construction or modification into service, the applicant must submit an Engineer's Certification and Applicant's Certification to the Public Water Supply Section.

- Engineer's Certification: in accordance with Rule .0303 (a), the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter.
- Applicant's Certification: in accordance with Rule .0303 (c), the applicant shall submit a signed certification statement
 indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied
 in accordance with Rule .0307 (d) and (e) and that the system has a certified operator in accordance with Rule .1300. The
 "Applicant's Certification" form is available at http://www.ncwater.org/ (click on Public Water Supply Section, Plan Review,
 Plan Review Forms).

Certifications can be sent by mail, fax (919-715-4374) or attachment to an e-mail message to PWSSection.PlanReview@ncdenr.gov.

Once the certifications are received and determined adequate, the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309 (a), no portion of this project shall be placed into service until the Department has issued Final Approval. Please contact us at (919) 707-9100 if you have any questions or need additional information.

Sincerely.

RW Ridgette

Robert W. Midgette, P.E. Chief, Public Water Supply Section

ee: Shawn Guyer, P.E., Regional Engineer FLM Engineering, Inc.



North Carolina Department of Environmental Quality -: Division of Water Resources 512 North Salisbury Street -: 1634 Mail Service Center -: Raleigh: North Carolina 27699-1634 919 7079100

ITEM 4A ATTACHMENT W1300, Sub 83

Var 28 2024

North Carolina Department of Environmental Quality Division of Water Resources

Authorization to Construct

Project Applicant:

OLD NORTH STATE WATER COMPANY

Public Water System Name And Water System No.:

RESERVE AT FALLS LAKE (PHASE 4) NC4092213

Project Name:

THE RESERVE AT FALLS LAKE SUBDIVISION - PHASE 4

Serial No.:

Issue Date:

Expiration Date:

21-01094

FEBRUARY 3, 2022

36 Months after Issue Date

In accordance with NCAC 18C .0305, this Authorization to Construct must be posted at the primary entrance to the job site during construction.

ITEM 4A ATTACHMENT W1300, Sub 83

PUBLIC / REDACTED North Carolina Department of Environmental Quality Division of Water Resources Public Water Supply Section

Application for Approval of Engineering Plans and Specifications For Water Supply Systems

Applicant	Design Engineer
S. i North Mater Mater	Christopher A. Lewis, FF
(Name of Board Council or Owner the Applicant)	(Name of Design Engineer of Record)
John McDonala	FIM Engineering, Inc.
(Name and fitle of Authorized Official or Representative of the Applicant)	(Name of Lingineering Lirm)
(Mailing Address)	E · · · · · · · · · · · · · · · · · · ·
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PUBLIC / REDACTED Application for Approval of Engineering Plans and Specifications for Water Supply Systems

Division of Water Resources. ľo Department of Environmental Quality

The Applicant applies under and in full accord with the provision of NCGS 130A-317, and such other statutes and rules as relate to public water systems. The Authorized Official or Representative of the Applicant represents that he is authorized to act for the Applicant The Authorized Official or Representative of the Applicant understands and agrees to the following:

- 1. The Applicant shall not award contracts or begin construction without first receiving "Authorization to Construct" from DEO
- 2 The Applicant shall make no change or deviation from the engineering plans and specifications approved by DEQ except as allowed by 15A NCAC 18C .0306 or with the written consent and approval of DEQ.
- The Applicant shall obtain Final Approval in accordance with 15A NCAC 18C .0306 prior to placing the project (or 3 any portion thereof) into service.
- 4 Digital (PDF) submittals are true image copy of the original sealed signed documents.

An authorized representative of the Public Water System (not always the same as the Applicant) is to complete and sign the following WSMP section.

Status of Water System Management Plan (WSMP)

Check one of the following, and if applicable, provide the required information:

П The WSMP for the project, as defined in the attached engineering plans and specifications, has not been submitted.

- Three copies of the WSMP for the project, as defined in the attached engineering plans and specifications, are submitted with this application.
- \square The WSMP that includes this project, as defined in the attached engineering plans and specifications, was previously submitted.

Provide the following:

Serial

Public Water System Name.	The Freezys at Fails Lare Logicizzation Phase J
Owner Name:	N.B. North State Water Sumpany
Water System No.	NC 4092213
Number of Deemed Complete WSMP:	<u>. 1-01001</u>

By my signature below. I certify that the previously submitted WSMP contains the information required by 15A NCAC 18C .0307(c) for the project defined in the attached engineering plans and specifications

ype or print name of authorized representative of Public Wal	ter System)
Managana Memori	
(Title of aothorized representative of Public Water Syst	(cm)
(Title of apphorized representative of Public Water Syst	iem) 12 - 472 321

Application for Approval of Engineering Plans and Specifications for Water Supply Systems

In accordance with NCGS 130A-328, the Public Water Supply Section charges a fee for plan review Any documents submitted for review must be accompanied by a check payable to *DEQ-Public Water Supply*. *Section* before the review will begin.

There is a \$25 fee for returned checks.

The charges for review of plans are shown below. Check one of the following

Distrib	ution System fees	
П	Construction of water lines, less than 5000 linear feet	\$150
Π	Construction of water lines, 5000 linear feet or more	5200
Ō	Other construction or alteration to a distribution system	\$ 75
Ground	I Water System fees	
\boxtimes	Construction of a new ground water system or adding a new well	\$200
	Alteration to an existing ground water system	\$100
Surface	water system fees	
	Construction of a new surface water intake or treatment facility	\$250
	Alteration to existing surface water intake or treatment facility	\$150
Other f	ees	
	Water System Management Plan review	\$ 75
	Miscellaneous changes or maintenance not covered above	\$ 50

Notes.

- 1 Projects for Tank Rehabilitation use separate "Application for Water Tank Reconditioning Plan Approval "
- 2 The fee is not refundable if the plans are not approved
- 3 Revisions to plans to address the Public Water Supply Section's or other state agency's comments do not incur an additional fee.
- 4 If one set of plans has multiple related items (such as a new well with construction of water lines) only one fee must be submitted for highest price item. The amounts are not cumulative, except for fees for Water System Management Plans.
- 5. If the appropriate plan review fee is not received within ten days after the receipt of plans, specifications, and reports for approval, then <u>all</u> plan documents will be recycled. A new set of documents must then be submitted with the appropriate fee for approval.

This approval does not address all applicable laws, rules, standards and criteria, and other approvals and licenses that may be required by the local, state or federal government.

The Public Water Supply Section has stamped and sealed the official copies of plans and specifications accompanying this application with the serial number of this application $2\left[-0\right] c \left[9\right] 4 c$ Any erasures, additions or alterations of the proposed improvements except those permitted in 15A NCAC 18C .0306 make this approval null and void.

This approval does not constitute a warranty of the design, construction or future operation of the water system.

Signed:

Wingst

Robert W. Midgette, P.E. Chief, Public Water Supply Section Division of Water Resources

lar 28 2024

ITEM 4A ATTACHMENT W1300, Sub 83

PUBLIC / REDACTED Application for Approval of Engineering Plans and Specifications for Water Supply Systems

Other Information and Checklist Page and second a company of the second second

 \boxtimes Attached is a check for the proper plan review fee amount, in accordance with NCGS 130A-328. See note 4 on page 3.

This-submittal includes one paper original with two digital (PDF) CDs of the following items, each item in separate folders:

- \boxtimes This completed "Application for Approval of Engineering Plans and Specifications for Water Supply Systems
- \boxtimes The sealed plan drawings, separate file in PDF format for each drawing. Cover sheet must include drawings index:
- The project-specific Engineering Report (ER) describing the scope and purpose of the project and \boxtimes addressing each of the items listed in 15A NCAC 18C 0307(b), including the design basis of the project. [15A NCAC [8C .0307(b) (12)];
- \boxtimes Specifications for this project, OR
- Π The project will use the following system's previously approved standard specifications for waterline extensions:

Name of System:

Serial Number:				
	the second water the stress of the second second	and the state was a second second	And the second second second second	 a company comments of

The Serial Numbers for previously approved standard specifications can be found at the following website:

http://www.ncwater.org/?page=424

One of the following:

Attached is a letter signed by an authorized representative of the Public Water System agreeing to serve the project and stating that the system has adequate supply:

many or companying of a local community of a spectrum memory and the second second second second second second

OR	
\boxtimes	

П

The Applicant is the Public Water System.

If the project has sought funding (for example, DWSRF loan) list the program and (if available) the application or funding number below:

Program Name	Application or Funding Number. if available

No Yes \square \square

Project will be completed with significant expenditure of state moneys, greater than ten million dollars (\$10,000,000) in accordance with G.S. 113A-9 (7a).

Project will cause substantial, permanent land-disturbing activity of an area greater than 10 acres of public lands in accordance with G.S. 113A-9 (11).
ITEM 4A.1 ATTACHMENT W1300, Sub 83

PUBLIC / REDACTED

ENGINEER'S REPORT

FOR

THE RESERVE AT FALLS LAKE PHASE 4

WAKE COUNTY, NC

DECEMBER 2021

PUBLIC WATER SUPPLY SYSTEM

PREPARED BY:



FLM Engineering, Inc. PO Box 91727 Raleigh, NC 27675 919.802.7146



W1300, Sub 83

Table of Contents

Engineers Report Appendices (See Below)

Appendices

- A Hydraulic Model Overview
- B Daily Demand Calculations
- C TDH Calculations
- D Pump Data and Curve
- E Well Site Approval Letter
- F Well Const. Verification & Drillers Log and Engineer's Well Const. Verification
- G Well Yield and Drawdown
- H Well Site Deed
- I Construction Plans and Details
- J Sampling and Lab Data
- K Old North State Water Company Utility Specifications
- L Hydro-pneumatic Tank Calculations

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W1300, Sub 83

Engineer's Report for <u>The Reserve at Falls Lake Phase 4</u>

Franklin County, North Carolina

I. Description of any existing water system related to the project.

The Reserve at Falls Lake Phase 4 is a proposed 16-lot expansion of the existing Reserve at Falls Lake subdivision development along Durham Road (NC 98), approximately 1.1 miles east of the intersection of Creedmoor Road (NC 50) and Durham Road (NC 98), in Wake County, North Carolina.

Proposed phase 4 will consist of a standalone well system with a single well (well "TW2") to provide service for the proposed 16 lots. Based on the pump test data, well "TW2" can produce 12 GPM for the development, which is 8,640 gallons in a 12-hour pumping day. Utilizing 16 additional connections at 400 GPD per connection, 6,400 gallons per day are required, which is 8.8 GPM in a 12-hour pumping day.

II. Identification of the municipality, community, area, or facility to be served by the proposed water system.

Phase 4 of the Reserve at Falls Lake Subdivision has 16 planned lots to complete the subdivision. There are currently no plans for future expansions of the Reserve at Falls Lake beyond those 16 additional lots.

III. Name and address of the owner.

The developer of the project is:

Falls Lake Developers, LLC 7101 Creedmoor Road Raleigh, NC 27613

The owner and operator of the completed project is:

Old North State Water Company, LLC PO Box 10127 Birmingham, AL 35202-0127

IV. A description of the nature of the establishment and of the area to be served by the proposed water system.

Phase 4 of the Reserve at Falls Lake Subdivision is a single-family detached dwelling development designed in accordance with the Wake County subdivision ordinance. The area surrounding the project is residential or vacant. The proposed water system, well "TW2", will service an additional 16 homes within the development.

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V. Provisions for future expansion or expansion of the water system.

Proposed Phase 4 completes the Reserve at Falls Lake Subdivision as planned, adding 16-lots.

VI. Projection of future water demand or requirements for service.

As mentioned above, there are currently no future expansion plans for the Reserve at Falls Lake Subdivision past proposed Phase 4.

VII. Any alternate plans for meeting the water supply requirements of the area.

Currently there are no alternate plans for meeting the water supply requirements of the area. Water demands are expected to be normal residential demands of 400 GPD per connection.

VIII. Financial considerations of the project include:

The project is a private development project. All of the water mains and appurtenances will be purchased and installed by the developer.

- a. Any alternate plans Not applicable
- b. Cost of integral units Not applicable
- c. Total cost Not applicable
- **d.** Operating expenses and Operating expenses will be accepted by Old North State Water Company, LLC. following construction and acceptance of the system.
- e. Methods of financing costs of construction, operation and maintenance. Not applicable

IX. Population records and trends, present and anticipated future water demands, present and future yield of sources of water supply?

Wake County will continue to develop in the future as the Triangle area expands to this area, and as such water demands will continue to increase accordingly. Phase 4 of the Reserve at Falls Lake Subdivision will meet the demand of its customers.

X. Character of source or sources of water supply, including:

a. Hydrological data

Not available.

b. Stream flow rates

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ITEM 4A.1 ATTACHMENT

Not applicable

- c. Chemical, mineral, bacteriological and physical quantities, and Not applicable
- d. Location and nature of sources of pollution.

Not applicable

XI. Proposed water treatment processes including:

a. Criteria and basis of design of units

No Treatments are anticipated. PH is 7.5 units, which is within the normal limits of 6.5 to 8.5, and therefore PH adjustment is not anticipated, thus a caustic feed is not specified.

No SOCs or asbestos were detected within the sampling and lab data tests as indicated in Appendix J.

0.0085 mg/L of the VOC Toluene was identified; however, the amount is within the allowable limits of 1 mg/L. No other VOCs were detected within the sampling and lab data tests as indicated in Appendix J.

Two different radiological analysis were performed. One test identified 4.2 pCl/L of Gross Beta while the other test identified 1.9 pCi/L of Uranium. Both of the identified amounts are within the allowable limits (50 pCl/L for Gross Beta and 20 pCi/L for Uranium). No further radiological contaminants were identified as indicated in Appendix J.

- **b.** Methods or procedures used in arriving at recommendations See attached information
- c. Reasons or justification for any deviations from conventional or indicated process or method. Not applicable.
- XII. The agreement with the supplier of purchased water and a hydraulic analysis showing the capability for supplying the purchased water.

Not applicable

XIII. A description of the basis of the sources, treatment, and distribution system, and the useful life of all sources, treatment, and transmission facilities including pipes, pumping stations and storage facilities.

Phase 4 of the Reserve at Falls Lake Subdivision will add 1,446 LF of 6" C900 DR18 PVC water distribution lines.

A submersible pump for Well "TW2" was selected based on data supplied through the yield test for flow rate, and through head requirements. Calculations for the pump selected are

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attached in Appendix A. The well was chlorinated with 2lbs of granular High Test Hypochlorite (HTH) as identified by Kidd Well Drilling, LLC. in Appendices F & G.

A hydro-pneumatic tank was selected based on data supplied through the yield test for flow rate, and through lot calculations for required storage. Phase 4 of the Reserve at Falls Lake Subdivision will install a 5,000 gallon hydro-pneumatic tank to meet this requirement. The tank calculations are included as Appendix M.

Aside from standard chlorine disinfection (See Old North State Water Company Utility Specifications in Appendix K), no further water treatment is expected and no additional tanks shall be required as no wastewater shall be generated from the system.

XIV. A statement of maximum daily treated water supply and maximum daily demand for existing systems altering or expanding a distribution system.

The maximum well yield for existing well "TW2" is 8,640 gallons in a 12-hour pumping day. This should be more than adequate for 16 connections at a demand of 400 gallons per day, which is a total of 6,400 gallons per day for the system.

XV. A prioritized list of infrastructure improvements for existing systems.

Not applicable.

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Appendix A – Hydraulic Model Overview



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W1300, Sub 83

Appendix B – Daily Demand Calculations

W1300, Sub 83



PEAK DEMAND FOR RESIDENTIAL COMMUNITY WATER SYSTEMS (Number of Connections vs Gallons per Minute)

Number of Connections

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W1300, Sub 83

Appendix C – TDH Calculations

W1300, Sub 83

FLMENGINEERING

Calculation of Total Dynamic Head (TDH)

 $TDH = Static Lift + H_{Lf}$, where $H_{Lf} = Head loss due to fruction from various piping componets$

Static Lift & Tank Pressure:

Depth to Pump: Tank Pressure (85 psi at 2.31 ft/psi):

Friction Head Loss (H_{1f}):

Friction Loss, H_{Lf} , is calculated as follows:

 $\frac{H_{Lf}}{100'} = \frac{0.2083 \times \frac{100^{1.852}}{C} \times Q^{1.85}}{D^{4.865}}$

Where:

C = Friction Coefficient (C = 140 selected for all pipe) Q = Pumping Rate in GPM D = Inside Diameter of Pipe in Inches

$$\frac{1 \ \text{$^{1.852}$}}{H_{Lf}} = \frac{0.2083 \times \left(\frac{100}{C}\right)^{1.852} \times Q^{1.85}}{D^{4.865}} = \frac{0.2083 \times \left(\frac{100}{140}\right)^{1.852} \times 12^{1.85}}{1.25^{4.865}} = 3.74178$$
$$\frac{H_{Lf}}{100} = \frac{3.741785}{100} = 0.03741$$

$$\frac{2 - Inch \ Well \ House \ Piping @ \ 12 \ GPM:}{H_{Lf}} = \frac{0.2083 \times \left(\frac{100}{C}\right)^{1.852} \times Q^{1.85}}{D^{4.865}} = \frac{0.2083 \times \left(\frac{100}{140}\right)^{1.852} \times 12^{1.85}}{2^{4.865}} = .3802196$$

Total $H_{Lf} = \frac{H_{Lf}}{100} \times L$ (Equivalent Pipe Length per 100 ft)

L = 192 (192 LF of 1 $\frac{1}{2}$ " Drop Pipe) L = 20 (20 LF of 2" Well House Piping)

 $Total H_{Lf} = (190' \times .03740) + (20' \times 0.0038022) = 7.76026'$

 $TDH = Static Lift \& Tank Pressure + H_{Lf} = 388.35' + 7.76026' = 395.6103'$ Select Pump with at least 12 GPM at 395.6103' TDH

Use: Grundfos 15SQ15-290, 2.5HP Submersible Pump

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Mar 28 2024

192.00' <u>196.35</u> Total = 388.35

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W1300, Sub 83

Appendix D – Pump Data and Curve

ITEM 4A.1 ATTACHMENT

W1300, Sub 83

C		s X	Company r Created by Phone:	name: ':							
			Date:	1/14/2020	<u> </u>						
Count	Description										
1	15 SQ15-290										
		Product photo co	ould vary from the a	ctual product							
	Product No.: 96160152	an deciment for									
	3" multi-stage, submersible pump designed for domestic water supply, liquid transfer in tanks, irrigation and environmental applications. The pump has "floating" impellers, each with its own tungsten carbide/ceramic bearing.										
	The nume features soft starting and protection										
	The pump features soft starting and protection against dry-running, upthrust, overvoltage, undervoltage, overload and overtemperature.										
	The motor is a one-phase moto magnet rotor type ensuring optin within a wide load range. The motor is fitted with a replace cable plug.	r of the permanent mum efficiency eable									
	Liquid:										
	Pumped liquid:	Water									
	Maximum liquid temperature:	95 F									
:	i Max liquid temperature at 0.15 r	n/sec: 95 F									
	Technical:										
	Pump speed on which pump da	ta is based: 1070	0 rpm								
	Actual calculated flow:	13.5 US gpm									
	Approvals on nameplate:	UL, CUL									
	Approvals on motor nameplate:	UL,CUL									
	Curve tolerance:	ISO9906:2012 3E	3								
	Materials:										
	Pump:	Polyethylene / St	ainless steel								
	Matar	DIN WNr. 1.430	1								
		DIN WNr. 1.430 AISI 304	1								
	Installation:										
	Pump outlet:	1 1/4"NPT									
	Minimum borehole diameter:	2.99 in									
	Electrical data:										
	Motor type:	MS3									
1	Power input - P1:	2.54 kW									
	Rated power - P2: Main frequency:	2.5 HP 60 Hz									
	Rated voltage:	1 x 200-240 V									

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Printed from Grundfos Product Center [2019.08.002]

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W1300, Sub 83



Company name:

		Date:	1/14/2020		
Description	Valua	H #	15	SQ15-290, 60Hz	eta
General information:	Value		Q 1	3.5 US gpm	
Product name:	15 SQ15-290		Es 2	24 π 2.7321 Wh/gai	
Product No.:	96160152	500 -	Pump	ed liquid Water	- 100
EAN:	5700398694397	450	Denai	y 02.28 ib/it	- 90
	5700398694397				
Technical:		400 -			- 80
Pump speed on which pump data is	10700 mm	350	Q		70
Dased:		000-			
Actual calculated flow:	13.5 US gpm	300 -		$\Delta = -$	- 60
Resulting head of the pump:	364 π				50
Stages:	8	250 -			- 50
Approvals on nameplate:		200 -	tan in state and the state of the	$\sim 10^{-1}$	- 40
Approvals on motor namepiate.				•	
Pump Number:	06307381	150 -			- 30
Model:	B	100			- 20
inodel.	pump with built-in non-return	[°`]		ļ	
Valve:	valve	50-		ł	- 10
Materials:			EI	f pump 57.4	
Pumo	Polyethylene / Stainless	0 1 2	2 4 6 8 10 12 14	16 Q US gpm	-0
Fump.	steel	P2			NPSH
	DIN WNr. 1.4301	·"	-		
Motor:	Stainless steel	2.0			- 80
	DIN WNr. 1.4301				
	AISI 304	1.5			- 60
Installation:					
Pump outlet:	1 1/4"NPT	1.0-			- 40
Minimum borehole diameter:	2.99 in				
		0.5 -	~		- 20
Pumped liquid:	Water .			P2 2.17 HP	
Maximum liquid temperature:	95 F	0.0			-0
max liquid temperature at 0.15	95 F				
Electrical data:					
Motor type:	MS3				
Power input - P1:	2.54 kW				
Rated power - P2	2.5 HP				
Main frequency:	60 Hz				
Rated voltage:	1 x 200-240 V				
Service factor:	1.65				
Rated current:	12.3 A				
Power factor:	1.00				
Rated speed:	10700 rpm				
Start. method:	direct-on-line				
Enclosure class (IEC 34-5):	IP68				
nsulation class (IEC 85):	F				
Motor protection:	Y				
Thermal protec:	internal				
ength of cable:	4.92 ft				
vlotor Number:	96160538				
Controls:					
CU 300/CU 301:	no communication possible				
Others:					
Sales region:	Namreg				
Country of origin:	мх				

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Appendix E – Well Site Approval Letter

ITEM 4A.1 ATTACHMENT

W1300, Sub 83

lar 28 2024

ROY COOPER Governor MICHAEL S. REGAN Secretary S. DANIEL SMITH Director



February 3, 2021

Alicia H. Bartholomew, Land Owner Marcia Ann Harrison, Land Owner 13009 Powell Rd Wake Forest, NC 27587

Re: Preliminary Well Site Approval Bayleaf Master – The Reserve Water System No.: NC0392373 Wake County

Dear Ms. Bartholomew and Ms. Harrison:

On February 2, 2021 I met with Richard J. Grote, Manager of Greenpointe Development Corporation and conducted a preliminary investigation of the proposed well site listed below. The proposed well has been assigned a Water System Facility (WSF) Identification Number and Sampling Point Code as indicated below.

WSF	Sampling	Description of Well Site	Preliminary Latitude and
ID No.	Point Code		Longitude
TR4	R131	100' radius around the proposed well location at the preliminary coordinates	35° 58' 55.31" -78° 39' 48.40"

This letter is provided by the Public Water Supply (PWS) Section, in accordance with Rule .0305(b) of the *Rules Governing Public Water Systems* (15A NCAC 18C), to provide permission to drill a well at the listed site in order to establish the quality and quantity of water and the suitability of the well as a source for a public water system.

In addition, this "preliminary well site approval" is to acknowledge that according to the information and documentation provided, we understand that the proposed well is located on a lot so that the area within 100 feet of the well is owned or controlled by the person supplying the water and that the supplier of water will protect the well lot from potential sources of pollution and construct landscape features for drainage and diversion of pollution as required in 15A NCAC 18C .0203(a)(1). In addition, we understand that you have determined that the proposed well location satisfies the minimum horizontal separation distances specified in 15A NCAC 18C .0203(a)(2) and summarized in the following table:



North Carolina Department of Environmental Quality | Division of Water Resources Raleigh Regional Office | 3800 Barrett Drive | Raleigh, North Carolina 27609 919.791.4200

Distance (in feet)	Potential Source of Pollution
100	 From any sanitary sewage disposal system, sewer, or sewer pipe (unless sewer is constructed of water main materials and joints, in which the sewer pipe shall be at least 50 feet from the well. From buildings, mobile homes, permanent structures, animal houses or lots, cultivated areas to which chemicals are applied. From surface water. From a chemical or petroleum fuel underground storage tank with secondary containment. From any other potential source of pollution not listed in this table.
200	 From a subsurface sanitary sewage treatment and disposal system designed for 3,000 or more gallons of wastewater a day, unless your well water source is a confined aquifer.
300	From any cemetery or burial ground.
500	 From a septage disposal site. From a chemical or petroleum fuel underground storage tank without secondary containment. From the boundary of a ground water contamination area. From a sanitary landfill or non-permitted non-hazardous solid waste disposal site.
1, 0 00	• From a hazardous waste disposal site or in any location which conflicts with the North Carolina Hazardous Waste Management Rules cited in NCAC 13A.

We also understand that the owner will ensure that the lot is graded or sloped so that surface water is diverted away from the wellhead and that the well shall not have greater than a 1 percent chance of flooding in accordance with 15A NCAC 18C.0203(a)(4). Several natural drainage paths were observed to the southeast of the well site. Therefore, grading or diversions may be needed at the 100-foot radius to direct all offsite drainage around the well lot. Additionally, there is a mapped surface water feature approximately 120 feet northwest of the well site. The 100-foot setback from the well to the surface water must be maintained.

PWS Section "Authorization to Construct" and "Final Approval"

Subsequent to well drilling and evaluating water quality and quantity (e.g., collecting and analyzing samples and performing a 24-hour well drawdown test) the owner must submit an "Application for Approval of Engineering Plans and Specifications For Water Supply Systems" to document proposed well completion (e.g., selected pump, wellhead and well house details) and associated transmission lines, treatment and/or storage facilities and other critical information about the public water system. In accordance with 15A NCAC 18C .0305(a) no construction shall be undertaken until the PWS Section issues an "Authorization to Construct" letter. In addition, in accordance with 15A NCAC 18C .0309(a) the new well and all associated treatment, storage or transmission/distributions lines shall not be placed into service until the PWS Section has issued a "Final Approval." These steps are described in the Engineering Planning and Development Guidance Document available at

https://files.nc.gov/ncdeq/Water%20Resources/files/pws/planreview/EPD Guidance Jul y2019.pdf

Be aware that plans, specifications and reports for the new well must be certified by a Professional Engineer. Therefore, it is recommended that a Professional Engineer or Licensed Geologist (or their designated representative) experienced in the construction of

ITEM 4A.1 ATTACHMENT

water supply wells, conduct on-site monitoring of well construction. At a minimum, certain critical phases of well construction such as installation and grouting of casing should be monitored. In many situations it may be necessary to go beyond the minimum requirements in order to protect the public health and ground water resources.

Other Agency Approvals Required

This PWS Section "preliminary well site approval" letter does not address other agency applicable rules and requirements pertaining to well construction and registration.

Local county well construction rules and ordinances may include additional requirements.

Well construction must meet the standards specified in the *Well Construction Standards* (15A NCAC 2C). Be aware that these rules require a permit to be obtained from the Water Quality Regional Operations Section of the Division of Water Resources before the well is constructed if it is anticipated that the new well will be part of a water system with a design capacity of 100,000 gallons per day or greater. In addition, these rules require that wells be constructed by a properly certified well driller. For more information, call 919-707-3668 or go to:

https://deq.nc.gov/about/divisions/water-resources/water-resourcespermits/wastewater-branch/ground-water-protection/well-program#largecapwell

Sincerely,

Sally Castle, EI Environmental Engineer Public Water Supply Section Raleigh Regional Office

Cc: Central Files – Public Water Supply Section Regional Files – Public Water Supply Section Jon D. Frazier, PE, LEED AP, FLM Engineering – Electronic Copy Richard J. Grote, Manager, Greenpointe Development Corporation – Electronic Copy Wake County Health Department

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Appendix F – Well Construction Verification & Drillers Log and Engineers Well Construction Verification

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FLMENGINEERING

August 12, 2021

Plan Review Unit Division of Water Resources, Public Water Supply Section

Reference: Falls Reserve Phase 4 Subdivision Engineer's Well Construction Verification

To Whom It May Concern:

On March , 2031 Kidd Well Drilling certified on Form GW-1 that Wells #TW2, at Falls Reserve Phase 4 Subdivision was constructed in accordance with the 15A.NCAC 2C. Well Construction Standards. Thus, I hereby certify that the subject wells were constructed in accordance with the 15A.NCAC 2C. Well Construction Standards.

Please let me know if you have any questions or need any additional information.

Sincerely,

or 299

Jon D. Frazier, PE Principal 919.610.1051 jfrazier@flmengineering.com



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North Carolina Department of Environment and D WELL CONTRACTOR CERTIFICA	WELL CONSTRUCTION RECORD Natural Resources- Division of Water Quality TION # 2/43-1-
1. WELL CONTRACTOR: LJAYNE KIDD Well Contractor (Individual) Name KIDD DIZI DRILLING LLC Well Contractor Company Name STREET ADDRESS 13408 OKD CREEDMOOM LJAKE FOR KST NC 27587 City or Town State Zip Code 9/9 848 8602 Area code Phone number 2. WELL INFORMATION: SITE WELL ID #(if applicable) DWQ or OTHER PERMIT #(if applicable) DWQ or OTHER PERMIT #(if applicable) WELL USE (Check Applicable Box) Monitoring □ Municipal/Public P Industrial/Commercial □ Agricultural □ Recovery □ Injection □ Irrigation □ Other □ (list use) DATE DRILLED Size AM□ PM □	d. TOP OF CASING is <u>T</u> FT. Above Land Surface* Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C 0118. e. YIELD (gpm): <u>/S</u> METHOD OF TEST <u>ATK 15TFT</u> f. DISINFECTION: Type <u>6 Kithoul Manount</u> <u>2 L 85</u> g. WATER ZONES (depth): From <u>/O GPM 2205 From</u> To From <u>_To</u>
3. WELL LOCATION: CITY: KALEIGH COUNTY LAKE FAILS RECERVE PHASE 4 (Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code) TOPOGRAPHIC / LAND SETTING: PSIOPE Valley Fiel Ridge Other (check appropriate box) LATITUDE 3 5.9981952 LATITUDE 3 5.9981952 May be in degrees, minutes, seconds or in a decimal format Latitude/longitude source: FAGPS Topographic map (location of well must be shown on a USGS topo map and, attached to this form if not using GPS) 4. FACILITY is the name of the business where the well is located. FACILITY is the name of the business where the well is located. FACILITY ID #(if applicable) NAME OF FACILITY STREET ADDRESS City or Town State Zip Code MAILING ADDRESS 7/OI CRIED moof Row State City or Town State Zip Code	From To Ft in. in. From To Ft in. in. 9. SAND/GRAVEL PACK: Depth Size Material From To Ft
City or Town State Lip Lode Area code - Phone number 5. WELL DETAILS: a. TOTAL DEPTH: <u>BOS</u> b. DOES WELL REPLACE EXISTING WELL? YES [] NO E c. WATER LEVEL Below Top of Casing: <u>20</u> FT. (Use "+" if Above Top of Casing)	BOTH WATEN BEARING ZONES FEIL OR SHARPIN I DO HEREBY CERRIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH ISA NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER. SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE DATE PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: information Mgt., 1617 Mail Service Center - Rateigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

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Appendix G – Well Yield and Drawdown

CASING GROUTED? ; ; STATIC W	ATER LEVEL: 21ft
TEST PUMP: MAKE: Goulds MODEL: 40GS50	HP: <u>5</u> PH: <u>1</u>
PIPE SIZE: 2 WIRE SIZE: 6-3 WIRE LENGTH:	370ft INTAKE DEPTH: 210 FT
FLOW MEASURING DEVICE: Sensus W160 Turbine	CHLORINATION TYPE: HTH AMOUNT: 2lbs
TEST STARTED: DATE: 3/21/2021 TIME: 9:00 AM	PUMPING WATER LEVEL: 192 FT
TEST STOPPED: DATE: 3/22/2021 TIME: 9:00 AM	WELL YIELD: 12 GPM

TIME		WATER	LEVEL		PUMPIN	G RATE	HEAD	TURBIDITY	COMMENTS
9:00 AM	82	PSI	21	FT	69	GPM	24	dingy	Throttled before starting
9:05 AM	52	PSI	89.9	FT	67	GPM			
9:10 AM	36	PSI	127	FT	64	GPM			
9:15 AM	30	PSI	141	FT	62	GPM			
9:20 AM	23	PSI	157	FT	61	GPM			
9:25 AM	20	PSI	164	FT	59	GPM			
9:30 AM	17	PSI	171	FΤ	58	GPM	18	clear	
9:35 AM	14	PSI	178	FT	58	GPM			
9:40 AM	12	PSI	182	FT	58	GPM			
9:45 AM	11	PSI	185	FT	58	GPM			
9:50 AM	7	PSI	194	FT	57	GPM			Throttled to 28gpm @ 80psi head
9:55 AM	7	PSI	194	FT	28	GPM	80	milky	·
10:00 AM	7	PSI	194	FT	28	GPM			Field Samples
10:10 AM	7	PSI	194	FT	28	GPM			

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KIDD WELL DRILLING

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TIME	—	WATER	LEVEL	PUMPIN	GRATE	HEAD	TURBIDITY	COMMENTS
10:20 AM	6	PSI	196 FT	28	GPM	78	milky	Throttled to 15gpm @ 96psi head
10:30 AM	7	PSI	194 FT	15	GPM	96	clear	
10:40 AM	8	PSI	192 FT	15	GPM			
10:50 AM	8	PSI	192 FT	15	GPM			· · · · · · · · · · · · · · · · · · ·
11:00 AM	9	PSI	189 FT	15	GPM			· · · · · · · · · · · · · · · · · · ·
11:15 AM	9	PSI	189 FT	15	GPM			
11:30 AM	9	PSI	189 FT	15	GPM			
11:45 AM	10	PSI	187 FT	15	GPM			
12:00 PM	10	PSI	187 FT	15	GPM		•	
12:30 PM	10	PSI	187 FT	15	GPM			
1:00 PM	10	PSI	187 FT	15	GPM		clear	Field samples
2:00 PM	9	PSI	189 FT	15	GPM			· · · · · · · · · · · · · · · · · · ·
3:00 PM	9	PSI	189 FT	15	GPM	94		
4:00 PM	8	PSI	192 FT	15	GPM	93	clear .	Throttled to 14gpm @ 97psi head
5:00 PM	8	PS	192 FT	14	GPM	96	·	
6:00 PM	8	PSI	192 FT	14	GPM			
7:00 PM	7	PSI	194 FT	14	GPM	94		Throttled to 12gpm @ 99psi head
8:00 PM	7	PSI	194 FT	12	GPM	99		8:30 PM pull field samples
9:00 PM	8	PSI	192 FT	12	GPM	99		Pull Lab samples
10:00 PM	8	PSI	192 FT	12	GPM			
11:00 PM	8	PSI	192 FT	12	GPM	99		
12:00 AM	8	PS!	192 FT	12	GPM			×
1:00 AM	8	PSI	192 FT	12	GPM			Field samples
2:00 AM	8	PSI	192 FT	12	GPM			
3:00 AM	8	PSI	192 FT	12	GPM			
4:00 AM	8	PSI	192 FT	12	GPM			
5:00 AM	8	PSI	192 FT	12	GPM			
6:00 AM	8	PSI	192 FT	12	GPM	99		Field samples
7:00 AM	8	PSI	192 FT	12	GPM			
8:00 AM	8	PSI	192 FT	12	GPM			Field samples
9: 0 0 AM	8	PSI	192 FT	12	GPM	99		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;-
		PSI	FT		GPM			
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		PSI	۲۱۱ اجب ۲		GPM			
		PSI			IGPM	Ļ	L	

SUBDIVISION NAME: Falls Reserve Ph4 TW2

PAGE # 2

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CASING GROUTED? ; ; STATIC W	/ATER LEVEL: 21ft
TEST PUMP: MAKE: Goulds MODEL: 40GS50	HP: <u>5</u> PH: <u>1</u>
PIPE SIZE: 2 WIRE SIZE: 6-3 WIRE LENGTH:	370ft INTAKE DEPTH: 210 FT
FLOW MEASURING DEVICE: Sensus W160 Turbine	CHLORINATION TYPE: HTH AMOUNT: 2lbs
TEST STARTED: DATE: 3/21/2021 TIME: 9:00 AM	PUMPING WATER LEVEL: 192 FT
TEST STOPPED: DATE: 3/22/2021 TIME: 9:00 AM	WELL YIELD: 12 GPM

TIME		WATER	LEVEL		PUMPIN	G RATE	HEAD	TURBIDITY	COMMENTS
9:00 AM	82	PSI	21	FT	69	GPM	24	dingy	Throttled before starting
9:05 AM	52	PSI	89.9	FT	67	GPM			
9:10 AM	36	PSI	127	FT	64	GPM			
9:15 AM	30	PSI	141	FT	62	GPM			
9:20 AM	23	PSI	157	FT	61	GPM			
9:25 AM	20	PSI	164	FT	59	GPM			
9:30 AM	17	PSI	171	FΤ	58	GPM	18	clear	
9:35 AM	14	PSI	178	FT	58	GPM			
9:40 AM	12	PSI	182	FT	58	GPM			
9:45 AM	11	PSI	185	FT	58	GPM			
9:50 AM	7	PSI	194	FT	57	GPM			Throttled to 28gpm @ 80psi head
9:55 AM	7	PSI	194	FT	28	GPM	80	milky	
10:00 AM	7	PSI	194	FT	28	GPM			Field Samples
10:10 AM	7	PSI	194	FT	28	GPM			
10:10 AM	7	PSI	194	FT	28	GPM			

PSI	FT	
PSI	FT	
PSI	FT	
PSI	FT	

Blitter 3-22-21

COMMENTS:

.

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Appendix H – Well Site Deed

Appendix I – Construction Plans & Details

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Appendix J – Sampling and Lab Data

292102683

KDWD25

EMSL Order ID:

Customer ID:



EMSL Analytical, Inc. PUBLIC / REDACTED

2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560 Phone/Eax: (919) 465-3900 / (919) 465-3950

	http://www.EMSL.com / raleighlab@emsl.com		Project ID:	
Attn:	Wayne Kidd	Phone:	(919) 818-8224	
	Kidd Well Drilling, LLC	Fax:		
	13408 Old Creedmoor Road	Received:	03/22/2021	
	Wake Forest, NC 27587	Analyzed:	04/05/2021	

Proj: Falls Reserve Phase 4, TW#2

Test Report: Determination of Asbestos Structures >10um in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

		Original Sample Vol. e Filtered				SBESTOS			
Sample ID Client / EMSL	Sample Filtration Date/Time		Effective Filter Area (mm²)	– Area Analyzed	Asbestos Fibers Types Detected		Analytical Sensitivity	Concentration	Confidence Limits
		(ml)		(mm²)	MFL (million fibers				ber liter)
1 292102683-0001	3/22/2021 01:21 PM	100	1263	0.0780	None Detected	ND	0.16	<0.16	0.00 - 0.60
Collection Date/Time:	03/21/2021 20:5	56 PM							

Analyst(s)		Dillio Davis
Billy Barnes	(1)	1200 Jam
		Billy Barnes, Asbestos Lab Manager or Other Approved Signatory
Any questions please of	contact Billy Barnes.	
Initial report from: 04/0	5/2021 11:02:21	

EMSL maintains liability limited to cost of analysis, Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may Encompany animeter to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty is available on request. Sample collection performed by the client, Pre-cleaned sample containers are available for purchase from EMSL. Note if sample containers are provided by the client, acceptable bottle blank level is defined as 0.01MFL for >=10um fibers. ND=None Detected. No Fibers Detected: the value will be reported as less than 369% of the concentration equivalent to one fiber, 1 to 4 fibers: The result will be reported as less than the corresponding upper 95% confidence limit (Poisson),5 to 30 fibers: Mean and 95% confidence intervals will be reported on the basis of the Poisson assumption. When more than 30 fibers are counted, both the Gaussian 95% confidence interval and the Poisson 95% confidence interval will be calculated. The large of these two intervals will be selected for data reporting When the Gaussian 95% confidence interval is selected for data reporting, the Poisson will also be noted.

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Chart: Mark Wein Dalling, LLC Test: TEM EPA 100.2 (+100m) #Sumplex: 1 STE 600 Code: 202102683 Project: Filla Reserve Phase 4, TW/Z 465-3300 Company: Code: 2710 EMSL half to: Stame ID 100000000 Streetin: Discard after \$721721 EMSL half to: Stame ID 100000000 Company: Code: 2710 EMSL half to: Stame ID 100000000 Streetin: Code: 2759 Codimity: Finder Party Billing requires within authorization from third party. City: Code: 2759 Codimity: Finder Party Billing requires within authorization from third party. City: Code: 2759 Codimity: Finder Charks: Codimity: Project Name/Munthaber: 21170 Emsl: Autorization for third party. Emsl: Autorization for third party. Project Name/Munthaber: 21170 Emsl: Autorization for third party. Emsl: Autorization for third party. Project Name/Munthaber: 21170 Emsl: Finder Autoriz	erID: 292102683	· As	bestos Chair	of Custody	EMS	L ANALYTICAL, INC.
Barry Disposition: Descent after 521/221 Finds: Find		mt: Kidd Well Drilling LL		TOT Custouy	2500 GATE	WAY CENTRE BLVD
Exercise Disposition: Discord after 52:1221	Orc	ler. 292102683	Project: Falls I	EPA 100.2 (>10µm) #S	amples: 1	VC 27560
465-3950 Company: Same United Not Units on Comments Street: (340.2) or CREP. ProCR. R.D. Third Party Efficient role Instructions In Comments Third Party And Party Efficient Role Instructions In Comments Th	EMSL ANALYTICA	position: Discard after 5/21	/2021			465-3900
Company: Kall CTI DKDLITM EMSL-Bill for: State Product with the instance in Commentative in Commentatin Commentative in Commentative in Commenta		-				465-3950
Street: 1340 StateProvince: NC Third Party Billing magines witten autorization from third party City: DAKE CAREST StateProvince: NC ZipPostal Code: 2758 Z Country: Report To (Name): DAY/60 E K:3d Fax #: Country: Project NameNumber: FAX #: Enall Address: K:3d /// DAY Enall Address: K:3d /// DAY Project NameNumber: FAX Email Purchase Order: U.S. State Samples Taken: ''Por Tex Ark about hours, place and ender to associate of the tor associa	Company : Kitle	FIL DRTILTA	JG	EMS	L-Bill to: Same I	Different Comments**
City: L. JAKR. C. REST State/Province: N.L. Zip/Postal Code: 22587 Country: Report To (Name): CM-NNE Kt.d. Fax #: Email Address: Email Address: Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Email Address: Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Toma Monthans: Toma Monthans: Email Address: Lul Coll Doc No. 1 Lul Coll Doc No. 1 Toma Monthans: Email Address: Lul Coll Doc No. 1 Email Address: Lul Coll Doc No. 1 Lul Coll Doc No. 1 Email Address: L	Street: 13409	D CREEDMOO	RR	Third Party Billir	na mauires written authoriza	tion from third party
Report To (Name): Dite J Di	City: 1 JAKG	REST State/P		Zin/Postal Code: '	97587	intro:
Indeptone # 1/1 BUB 8224 Enail Address: Kstwolkobells. Ah.met Project Name/Number: TA(15, RESEAUE, PH/BE 4/, Tu 04+2 U.S. State Samples Taken: Project Name/Number: TA(15, RESEAUE, PH/BE 4/, Tu 04+2 U.S. State Samples Taken: Turnarund Time (TAT) Options" - Please Check U.S. State Samples Taken: Two: B Hour 2 Week 2 Week Two: B Hour 108 Hour 108 Hour 108 Hour Two: Attemption B Hour 108 Hour 108 Hour 108 Hour Two: Attemption B Hour 108 Ho	Banart To (Nama)	DALANG Kid		Eav #		
Teleponde #. IT DID OL TALE Email Purchase Order: U.S. State Samples Taken: Project Name/Number: FAILS RESENCE Pithol (TAI) Options* - Piease Check Piease Provide Results: Fax Email Purchase Order: U.S. State Samples Taken: "Turnorund Time (TAI) Options* - Piease Check I Nock Week Week "A HEAR AND ROLE (TAI) Options* - Piease Check I Nock Week Week "A HEAR AN OC PR, Pair 763 Microvac - ASTM D 5755 Microvac - ASTM D 5755 W 05HA 24h: I MAL AO CPR, Pair 763 Microvac - ASTM D 5755 W 05HA 24h: I MAL AO CPR, Pair 763 Microvac - ASTM D 5755 W 05HA 24h: I State Samples Taken: I Meek Week PLM - Sult (negoriting limit) EPA Level II Carpet Sonkaton (EPA 600/L-93/167 PLM - Sult (negoriting limit) I EPA NOB PLM CAR8 435 - 8 (0.1% sensitivity) Point Count I TEM - BUR PLM CAR8 435 - 8 (0.1% sensitivity) Point Count (Take Take) I EPA NOB PLM CAR8 435 - 8 (0.1% sensitivity) Point Count (Take) I EPA NOB EPA Protocol (Semi-Quantitative) I TEM CAR8 435 - B (0.1% sensitivity) I EPA Protocol (Semi-Quantitative)	Telenhand, C	9 212 2171	4		hille allala lla	
Project Name/Number: PAR Desce Provide Results: Image: Display the		FAIR DECKI	5 PURCH	Email Address:	Kag Others	outhire T
Turnaround Time (TAT) Options" - Please Check 3 Hour 24 Hour 48 Hour 59 Hour 96 Hour 96 Hour 12 Week *** TEM 43 Shause Bouse, please call elvest to short EM Level 10 340: TAM HERA or EPA Level 11 77. You will be acked to sign and horization from for this service. Analysic completed in accordines with EAS(3 Forms and Conditions Eacled in the Analyted Price Guide. PCML Alt IEM -Aut 164 - Asht TA (AHERA on CPA) Level 11 164 - Dasht TA (AHERA on CPA) DINOSH 7400 AHERA 40 CR, Párt 763 Microvac - ASTM D 5755 W OSHA 8hr. TWA INIOSH 7402 Wie - ASTM D 64800 PLM. Buk (reporting limit) EPA Level 11 Carpet Sonication (EPA 600/L-93/167 PLM EPA NOB (<1%)	Project Name/Numbe		Purchase Order	"	U.S. State Samples Ta	ken'
□ 3 Hour □ 24 Hour □ 48 Hour □ 12 Hour □ 96 Hour □ 14 Week 2 Week **** *** *** <td< td=""><td></td><td></td><td>around Time (TAT)</td><td>Options* – Please C</td><td>heck</td><td>Non.</td></td<>			around Time (TAT)	Options* – Please C	heck	Non.
"Por TEM Air 3 hours: floese call sheed to schedule: There is a pentium charge for 3 hour TEM AHERA or EPA Level II TAT. You will be asked to signed to signed conditions located in the Analytical Price Guide. PCMAir IEMAir IEMAir IEM.2 hours: floese call signed to sign	3 Hour 6	Hour 🗌 24 Hour	48 Hour	72 Hour	96 Hour 1 Wee	ek 🔄 2 Week
PCM. Air TEM Air I = 4-4.5 hr TAT (AHERA 40 CFR, Párt 763 W10SH 7400 AHERA 40 CFR, Párt 763 Microvac - ASTM D 5755 W10SH 7400 NIOSH 7402 Wipe - ASTM D 5755 PLM. Buik (reporting limit) EPA Level II Carpet Sonication (EPA 600/J-93/157) PLM EPA 600/R-93/116 (<1%)	*For TEM Air 3 hours/6 ho	urs, please call ahead to sche	dule.*There is a premiu	m charge for 3 Hour TEM	AHERA or EPA Level II TAT.	You will be asked to sign
□ NIOSH 7400 □ AHERA 40 CFR, Párt 763 □ Microvac - ASTM D 5755 □ w OSHA 8hr. TWA □ NIOSH 7402 □ Wipe - ASTM D6480 PLM - Bulk (reporting limit) □ EPA Level II □ Carpet Sonication (EPA 600/J-93/167 □ PLM EPA NOB (<1%)	PCM - Air	An ior and dervice, Andrysis (TEM - Air 1 4-4.	5hr TAT (AHERA only)	TEM- Dust	
□ w/ OSHA 8hr. TWA □ NIOSH 7402 □ Wipe - ASTM D6480 □ PLM_Burk (reporting limit) □ PFA Level II □ Carpet Sonication (EPA 600/L-93/167 □ PLM EPA NOB (<1%)	NIOSH 7400		AHERA 40 CFI	R, Párt 763	Microvac - ASTA	A D 5755
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□ PLM EPA 600/R-93/116 (<1%)	PLM - Bulk (reporting	limit)	EPA Level II		Carpet Sonicatio	on (EPA 600/J-93/167)
□ PLM EPA NOB (<1%)	PLM EPA 600/R-93	/116 (<1%)	SO 10312		Soil/Rock/Vermicu	lite
Point Count Image: TEM EPA NOB Image: PLM CARB 435 - B (0.1% sensitivity) Image: Point Count WGravimetric. Image: NYS NOB 198.4 (non-friable-NY) Image: TEM CARB 435 - B (0.1% sensitivity) Image: Point Count WGravimetric. Image: PLM CARB 435 - B (0.1% sensitivity) Image: PLM CARB 435 - B (0.1% sensitivity) Image: Plant WGravimetric. Image: PLM CARB 435 - B (0.1% sensitivity) Image: PLM CARB 435 - B (0.1% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CARB 435 - C (0.01% sensitivity) Image: PLM CarB 436 - D (0.01%) Image: PLM CarB 436 - D (0.01% sensitivity) Image: PLM CarB 436 - D (0.01% sensitivity) Image: PLM CarB 436 - D (0.01%) Image: PLM CarB 436 - D (0.01% sensitivity) Image: PLM CarB 436 - D (0.01% sensitivity) Image: PLM CarB 436 - D (0.01%) Image: PLM CarB 436 - D (0.01% sensitivity) Image: PLM CarB 436 - D (0.01% sensitivity) Sam	D PLM EPA NOB (<19	%)	TEM - Bulk		PLM CARB 435	- A (0.25% sensitivity)
□ 000 (<0.25%)	Point Count		TEM EPA NOB		PLM CARB 435	- B (0.1% sensitivity)
Point Count w/Gravimetric.	🗌 400 (<0.25%) 🗍 10	00 (<0.1%)	NYS NOB 198.4	(non-friable-NY)	TEM CARB 435	- B (0.1% sensitivity)
□ 400 (<0.25%)	Point Count w/Gravime	tric.	Chatfield SOP		TEM CARB 435	- C (0.01% sensitivity)
□ NYS 198.1 (friable in NY) TEM - Water: EPA 100.2 □ EPA Protocol (Quantitative) □ NYS 198.5 (NOB (non-friable-NY). □ NIOSH 9002 (<1%)	400 (<0.25%) [] 10	00 (<0.1%)	TEM Mass Anal	ysis-EPA 600 sec. 2.6	5 EPA Protocol (Se	emi-Quantitative)
□ NYS 1965 NOB (non-frigble-NY)	NYS 198.1 (friable	in NY)	TEM - Water: EPA	100.2		uantitative)
Image: Sizes Invasite Durinking III Image: Sizes Invasite Internation Samplers Name: JAMES BLALCUL Samplers Name: JAMES BLALCUL Samplers Name: JAMES BLALCUL Sample # Sample Description HA # (Bulk) Batt Asststs70.5 Current Assts70.5	NYS 198.6 NOB (N			Waste- Prorinking	<u>Otner</u>	
Client K ror rositive Stop - Oreany identity Homogenous Group Samplers Name: JAMES BLALCAL Sample # Sample Description HA # (Bulk) Date/Time Sampled Sample # Sample Description HA # (Bulk) Sampled Ame: All (Bulk) Sample # Sample Description HA # (Bulk) Sampled Ame: All (Bulk) Sample # Sample Bescription HA # (Bulk) Sampled Ame: Sample # (Bulk) Client Sample # (s): Total # of Samples: Relinquished (Client): Date: Time: Time: Received (Lab): Date: S]T []: CS	<u> </u>		All Fiber Sizes	arly Identify Homo		
Samplers Name: JAMES BLAUCH Sample Description Summer Signature: Summer Signature: Sample # Sample Description HA # (Bulk) Sampled ABBL ASBESTOS 3-21-21 / 85% Relinquished (Client): Date: Total # of Samples: Received (Lab): Date: Slow			Sallive Glop - Ole			
Sample # Sample Description Volume/Area (Air) HA # (Bulk) Date/Time Sampled ABLE ASBESTOS 3-21-21 / 856 AUD P 2.8 Ć AUD P 2.8 Ć Image: Stample # (s): Total # of Samples: Relinquished (Client): Date: Time: Received (Lab): Image: State Time:	Samplers Name: J	AMES BLALOCK		Samplers' Signatur	F. D.Bul	
ABER ASBESTOS 3-21-21 / 856 Image: Contrast of the system of t	Sample #		Sample Description		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
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Received (Lab): Date: 3/22/21 Time: 11.25	Relinquished (Client):		Date:	·····	Tim	e:
	Received (Lab):		Date:	3/22/21	Time	e: 11,25
Comments/Special Instructions:	Comments/Special Ins	tructions:				

Controlled	Document -	Asbestos	COC ~ RZ -	1/12/2010
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Page 1 of _____ pages

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Florida Radiochemistry Services, Inc.

5456 Hoffner Ave., Suite 201 Orlando, FL 32812 Phone: (407) 382-7733 Fax: (407-382-7744

RADIOLOGICAL ANALYSIS

Note: All information must be supplied for compliance credit.

WATER SYSTEM ID #: N/A

County: x

Name of Water System: Falls Preserve Phase 4 -

Sample Type: [] Entry Point - Single Sample

[] Entry Point - Composite

[X] Special/Non-compliance

Mail Results to (system representative):			C	ollection Data		
Kidd Well Company	Period	Date (MM/DD/YY)	Time (Specify AM or PM)	Loc Code	Sample Location	Collected By
13408 Old Creedmoor Road	Single or 1st Qtr	03/21/21	08:59 PM	TW2-D01	Well - Test Well 2	James Blalock
Wake Forest NC, 27587	2nd Qtr					
Phone: (919) 848-8602	3rd Qtr					
Fax:	4th Qtr					

LABORATORY ID #: 12709

METHOD REQUIRED REPORTING NOT DETECTED QUANTIFIED COUNTING ALLOWABLE CONTAM CONTAMINANT ERROR CODE CODE LIMIT (RRL) (i.e. < RRL) RESULTS* (pCi/L) LIMIT 3 pCi/L 1.0 15 pCi/L 4002 Gross Alpha 900.0 х 100 pCi/L 4004 Radon -----N/A 2 pCi/L 20.1 pCi/L 4006 Uranium ------4010 **Combined Radium** N/A N/A N/A 5 pCi/L 4020 Radium 226 903.1 1 pCi/L Х 0.1 3 pCi/L Radium 228 Х 0.6 4030 1 pCi/L 2 pCi/L Ra-05 4100 Gross Beta 4 pCi/L 4.2 1.0 900.0 50 pCi/L

Note: If result exceeds allowable limit, the laboratory must fax anaytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	04/05/21	08:40 AM
ANALYSES COMPLETED:	04/12/21	11:52 AM

Laboratory Log #: 2104005-03

COMMENTS:

W1300,

Sub 83

[] SAMPLE UNSATISFACTORY

[] RESAMPLE REQUIRED

Certified By: Mike Naumann

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Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court Cary, NC 27511 Ph: (919) 467-3090 Fax: (919) 467-3515

	R	ADIOLOGICAL	ANAL	YSIS		
Water Systems ID #:	N/A		County	x		
Name of Water System: J Sample Type: X Single S	Falls Preserve Phase 4 ample - Entry Point	-	- Entry Po	int	X Special/No	n Compliance
Facility ID No.: Sample Point:	D01 TW2					
Mail Results to:					Collection Dat	la
Kidd Well Company (KI011)		P	Period	Date (MM/DD/YY)	Time (AM or PM)	Collected By
Attn: Wayne Kidd		Sin	ngle or	03/21/21	8:59 pm	James Blalock
13408 Old Creedmoor Road Wake Forest, NC 27587		1	IndQtr			
Phone #: (919) 848-8602		31	BrdQtr			
Fax #:		41	lthQtr			

LABORATORY ID #: 37724			SAMPLE UNSATISFACTORY			RESAMPLE REQUIRED	
CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT R.R.L.	NOT DETECTED (i.e. <r.r.l.) (X)</r.r.l.) 	QUANTIFIED RESULTS*	COUNTING ERROR	ALLOWABLE LIMIT
4002	Gross Alpha		3 pCi/L		pCi/L		15 pCi/L
4004	Radon		100 pCi/L		pCi/L		N/A
4006	Uranium	200.8	0.67 pCi/L		1.90 pCi/L	0.0	20.1 pCi/L
4010	Combined Radium		N/A	N/A	pCi/L		5 pCi/L
4020	Radium 226		1 pCi/L		pCi/L		3 pCi/L
4030	Radium 228		1 pCi/L		pCi/L		2 pCi/L
4044	Potassium 40 (Total)		4 pCi/L		pCi/L		N/A
4100	Gross Beta		4 pCi/L		pCi/L		50 pCi/L
4102	Tritium		1000 pCi/L		pCi/L		20000 pCi/L
4172	Strontium 89		10 pCi/L		pCi/L		N/A
4174	Strontium 90		2 pCi/L		pCi/L		8 pCi/L
4264	Iodine 131		1 pCi/L		pCi/L		N/A
4270	Cesium 134		10 pCi/L		pCi/L		N/A

*Note: If result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	03/23/2021	11:31 am
ANALYSES COMPLETED:	03/23/2021	1:28 pm

Laboratory Log #: CE04299-01 COMMENTS:

Certified By: Bill Scatt Bill Scott

W1300, Sub 83



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Environmental Conservation Laboratories, Inc. 102-A Woodwinds Industrial Court Cary, NC 27511 Ph: (919) 467-3090 Fax: (919) 467-3515

PESTICIDES AND SYNTHETIC ORGANIC CHEMICALS (SOCs) ANALYSIS

WATER SYSTEM ID #:	N/A	County: x
Name of Water System:	Falls Preserve Phase 4	
Sample Type:	Entry Point	X Special/Non-compliance
Location Where Collected:	Well: Test Well 2(SOC)	
Facility ID No.:	D01	
Sample Point:	TW2	
Collected By:	James Blalock	Collection Date Collection Time
Mail Results to:		03/21/21 09:08 pm
Kidd Well Company (KI011)		
Attn: Wayne Kidd		
13408 Old Creedmoor Road		Phone #: (919) 848-8602
Wake Forest, NC 27587		Fax #:
LABORATORY ID #: 37724		SAMPLE UNSATISFACTORY RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REPORTING LIMIT (R.R.L.)	(i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
2005	Endrin	505	0.00001 mg/L	X	mg/L	0.002 mg/L
2010	gamma-BHC	505	0.00002 mg/L	X	mg/L	0.0002 mg/L
2015	Methoxychlor	505	0.0001 mg/L	X	mg/L	0.04 mg/L
2020	Toxaphene	505	0.001 mg/L	X	mg/L	0.003 mg/L
2031	Dalapon	515.4	0.001 mg/L	X	mg/L	0.2 mg/L
2035	Bis(2-ethylhexyl) adipate	525.2	0.0006 mg/L	X	mg/L	0.4 mg/L
2036	Oxamyl	531.1	0.002 mg/L	X	mg/L	0.2 mg/L
2037	Simazine	525.2	0.00007 mg/L	X	mg/L	0.004 mg/L
2039	Bis(2-ethylhexyl)phthalate	525.2	0.00132 mg/L	X	mg/L	0.006 mg/L
2040	Picloram	515.4	0.0001 mg/L	X	mg/L	0.5 mg/L
2041	Dinoseb	515.4	0.0002 mg/L	X	mg/L	0.007 mg/L
2042	Hexachlorocyclopentadiene	505	0.0001 mg/L	X	mg/L	0.05 mg/L

W1300, Sub 83

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Mar 28 2024
W1300, Sub 83

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Aar 28 2024

PESTICIDES AND SYNTHETIC ORGANIC CHEMICALS (SOCs) ANALYSIS

(continued)

WATER SYSTEM ID #:	N/A	Collection Date	Collection Time
Name of Water System:	Falls Preserve Phase 4	03/21/21	09:08 pm
Facility ID No.:	D01		
Sample Point:	TW2		

LABORATORY ID #: 37724

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
2046	Carbofuran	531.1	0.0009 mg/L	X	mg/L	0.04 mg/L
2050	Atrazine	525.2	0.0001 mg/L	Х	mg/L	0.003 mg/L
2051	Alachlor	505	0.0002 mg/L	X	mg/L	0.002 mg/L
2065	Heptachlor	505	0.00004 mg/L	Х	mg/L	0.0004 mg/L
2067	Heptachlor epoxide	505	0.00002 mg/L	X	mg/L	0.0002 mg/L
2105	2,4-D	515.4	0.0001 mg/L	Х	mg/L	0.07 mg/L
2110	2,4,5-TP (Silvex)	515.4	0.0002 mg/L	X	mg/L	0.05 mg/L
2274	Hexachlorobenzene	505	0.0001 mg/L	X	mg/L	0.001 mg/L
2306	Benzo(a)pyrene	525.2	0.00002 mg/L	Х	mg/L	0.0002 mg/L
2326	Pentachlorophenol	515.4	0.00004 mg/L	Х	mg/L	0.001 mg/L
2383	PCBs	505	0.0001** mg/L	X	mg/L	0.0005 mg/L
2931	1,2-Dibromo-3-chloropropane	504.1	0.00002 mg/L	Х	mg/L	0.0002 mg/L
2946	1,2-Dibromoethane	504.1	0.00001 mg/L	X	mg/L	0.00005 mg/L
2959	Chlordane (tech)	505	0.0002 mg/L	Х	mg/L	0.002 mg/L

*Note: If result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

**Note: R.R.L. (mg/L) for PCB screening are as follows: Aroclor 1016 - 0.00008, Aroclor 1221 - 0.02, Aroclor 1232 - 0.0005, Aroclor 1242 - 0.0003,

Aroclor 1248 & 1254 - 0.0001, Aroclor 1260 - 0.0002

	DATE:	TIME:
ANALYSES BEGUN:	03/22/2021	9:14 pm
ANALYSES COMPLETED:	03/26/2021	3:28 am

Laboratory Log #: COMMENTS:

Certified By: Bill Scatt Bill Scott

W1300, Sub 83

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VOLATILE ORGANIC CHEMICAL ANALYSIS (VOCs)

Environmental Conservation Laboratories, Inc. 102-A Woodwinds Industrial Court Cary, NC 27511 Ph: (919) 467-3090 Fax: (919) 467-3515

N/A

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Mar 28 2024

N/A	County:	х		
Falls Preserve Phase 4				
Entry Point	X Special/Non-compliar	nce		
Well: Test Well 2(VOC)				
D01				
TW2				
James Blalock	[[
		Collection Date	Collection Time	
		03/21/21	09:10 pm	

Kidd Well Company (KI011) Attn: Wayne Kidd 13408 Old Creedmoor Road Wake Forest, NC 27587

WATER SYSTEM ID #:

Name of Water System:

Location Where Collected:

Sample Type:

Facility ID No:

Sample Point:

Collected By: Mail Results to:

> Phone #: (919) 848-8602 Fax #:

LABORATORY ID #: 37724			SAMPLE UNSAT	ISFACTORY	RESAMPLE REQUIRED		
CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT	
2378	1,2,4-Trichlorobenzene	524.2	0.0005 mg/L	X	mg/L	0.07 mg/L	
2380	cis-1,2-Dichloroethene	524.2	0.0005 mg/L	X	mg/L	0.07 mg/L	
2955	Xylenes (total)	524.2	0.0005 mg/L	X	mg/L	10 mg/L	
2964	Methylene chloride	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2968	1,2-Dichlorobenzene	524.2	0.0005 mg/L	X	mg/L	0.6 mg/L	
2969	1,4-Dichlorobenzene	524.2	0.0005 mg/L	X	mg/L	0.075 mg/L	
2976	Vinyl chloride	524.2	0.0005 mg/L	Х	mg/L	0.002 mg/L	
2977	1,1-Dichloroethene	524.2	0.0005 mg/L	X	mg/L	0.007 mg/L	
2979	trans-1,2-Dichloroethene	524.2	0.0005 mg/L	Х	mg/L	0.1 mg/L	
2980	1,2-Dichloroethane	524.2	0.0005 mg/L	Х	mg/L	0.005 mg/L	
2981	1,1,1-Trichloroethane	524.2	0.0005 mg/L	X	mg/L	0.2 mg/L	
2982	Carbon tetrachloride	524.2	0.0005 mg/L	Х	mg/L	0.005 mg/L	
2983	1,2-Dichloropropane	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2984	Trichloroethene	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2985	1,1,2-Trichloroethane	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2987	Tetrachloroethene	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2989	Chlorobenzene	524.2	0.0005 mg/L	X	mg/L	0.1 mg/L	
2990	Benzene	524.2	0.0005 mg/L	X	mg/L	0.005 mg/L	
2991	Toluene	524.2	0.0005 mg/L		0.0085 mg/L	l mg/L	
2992	Ethylbenzene	524.2	0.0005 mg/L	X	mg/L	0.7 mg/L	
2996	Styrene	524.2	0.0005 mg/L	X	mg/L	0.1 mg/L	

*Note: If result exceeds allowable limit, the laboratory must fax analytical results to the State within 48 hours.

	DATE:	TIME:
ANALYSES BEGUN:	03/23/2021	9:30 am
ANALYSES COMPLETED:	03/23/2021	3:31 pm

Laboratory Log #: COMMENTS:

CE04301-01

Certified By: Bill Scatt Bill Scott

W1300, Sub 83

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court Cary, NC 27511

Ph: (919) 467-3090 Fax: (919) 467-3515

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<u> Mar 28 2024</u>

		•							
······································			BACTE Note: <u>All</u> app		CALANA be supplied for compli	LYSIS ance credit.			
WATER S	SYSTEM ID #: N/A		na sena na porta de la compañía de l	n, ran one rafe ar far er far er far er far far far er far far far far far far far far far fa	and de lander ann a de l		County: x	is definition of the constant of the second	
Name of V	Water System: Falls P	reserve Pha	se 4		Syster	n Type:	Wa	ter Source:	
X Distr	ibution System - Total Colife	rm Rule (TC	R)						
Sam	ple Type: Routine (RT		at (RP)	X Special/N	on-compliand	e (SP)			
🖌 🖉 Facil					ion Where C	ollected:	Test Well 2(Boot)		
O Luch	nle Point: Routine Origi	nal (RTOR)	Repeat-	Original Tan (RI		Repeat-Unstre	am (RPIIP) Rei	peat-Downstream (RPDN)	
		••••••							
Sourc	ce Water - Ground Water Rule	e (GWR)					—		
Samp	ble Type: Triggered (RT)	Addi	tional/Confin	mation (CO)	Assessn	nent (RT)	Triggered/Distribu	tion Repeat (RT) *	
Facili	ity ID: Sa	mple Point:	work and the set of the set of the set		and the state of the		tor systems with a pop		
Collected	- <u>BY:</u> James Blalock					<u>DA</u> J	E: 03/21/21	<u>TIME:</u> 08:55 pm	
Mail Resu	lts to (water system represent	ative):	<u></u>		Complete for	Repeat, Trigg	ered, or Additional/Con	firmation Samples:	
Kidd We	ell Company (KI011)				Previous Pos	itive Laborato	ry ID Number:		
Attn: W	ayne Kidd			-	Previous Pos	itive Laborato	ry Log Number:		
13408 C	Id Creedmoor Road				Previous Positive Location Code:				
Wake Fo	orest, NC 27587				Previous Pos	itive Collectio	n Date:		
Phone #	: (919) 848-8602				<u>na kontenten</u>				
Fax #:					Disinfectar	nt Used: [-	_	·····	
Respons	sible persons email:				Total Ch	lorine Residu	1al (chloramines):	mg/L	
kiddwell	l@bellsouth.net				Free Chl	orine Residu	al (chlorine):	mg/L	
ABORAT	FORY ID #: 37724		Repeat Samp	les Required fro	m Client	L	Resample Require	d from Client	
ABORAT	FORY ID #: 37724		Repeat Samp	les Required fro	m Client		Resample Required	from Client	
ABORAT	TORY ID #: 37724 CONTAMINANT	METHOD	Repeat Samp RULE	les Required fro	m Client RESULTS	INVALID	Resample Required	d from Client S: h / No Coliform Growth Found	
ABORAT	CONTAMINANT	METHOD CODE	Repeat Samp	PRESENT ^{1,2}	m Client RESULTS ABSENT	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 1	d from Client S: h / No Coliform Growth Found orm Growth Found No Coliform Growth Found	
ABORAT	CONTAMINANT	METHOD CODE COLISURE	Repeat Samp RULE TCR/GWR	PRESENT	m Client RESULTS ABSENT X	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 1 4 Over 30 Hours O	d from Client S: h / No Coliform Growth Found form Growth Found No Coliform Growth Found Id	
ABORAT CONTAM CODE 3100 3014	CONTAMINANT Coliform, Total Escherichia coli	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR	PRESENT	RESULTS ABSENT X X	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 4 Over 30 Hours O 5 Improper Sample	d from Client S: h / No Coliform Growth Found orm Growth Found No Coliform Growth Found Id or Analysis 4	
ABORA1 CONTAM CODE 3100 3014 3002 3028	TORY ID #: 37724 CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR	PRESENT	RESULTS ABSENT X X	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 1 4 Over 30 Hours O 5 Improper Sample	d from Client S: h / No Coliform Growth Found orm Growth Found No Coliform Growth Found Id or Analysis 4	
ABORAT CONTAM CODE 3100 3014 3002 3028 3013	FORY ID #: 37724 CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage Coliform, Fecal	METHOD CODE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR TCR	PRESENT	m Client RESULTS ABSENT X X X	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 1 4 Over 30 Hours O 5 Improper Sample	d from Client S: h / No Coliform Growth Found form Growth Found No Coliform Growth Found Id or Analysis 4	
ABORAT CONTAM CODE 3100 3014 3002 3028 3013 3001	CONTAMINANT CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage Coliform, Fecal Heterotrophic Plate Count	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR GWR TCR	PRESENT 1,2	RESULTS ABSENT X X	INVALID CODE	Resample Required INVALID CODE I Confluent Growti Z TNTC / No Colif J Turbid Culture / I Over 30 Hours O Improper Sample	d from Client S: h / No Coliform Growth Found orm Growth Found No Coliform Growth Found Id or Analysis 4	
ABORAT CONTAM CODE 3100 3014 3002 3028 3013 3001 èccal, <i>E. coli</i> , ; within <u>24</u> h	CONTAMINANT CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage Coliform, Fecal Heterotrophic Plate Count enterococci or coliphage is present, nours. If HPC is absent, enter a "0"	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR GWR TCR Ults to the State L or MPN" uni	PRESENT 1,2 PRESENT 0,2 PRESENT 0,2 PRESEN	RESULTS ABSENT X X L L L L L L L L L L L L L L L L L	INVALID CODE	Resample Required INVALID CODE I Confluent Growt Z TNTC / No Colif J Turbid Culture / I Over 30 Hours O S Improper Sample is present, lab must fax re lid ⁴ code below in commen	d from Client S: h / No Coliform Growth Found No Coliform Growth Found Id or Analysis 4 sults to the ts.	
ABORAT CONTAM CODE 3100 3014 3002 3028 3013 3001 *ecal, <i>E. coli</i> , 9 within 24 h	TORY ID #: 37724 CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage Coliform, Fecal Heterotrophic Plate Count enterococci or coliphage is present, nours. If HPC is absent, enter a "0" alyses Begun - <u>DATE</u> : 03/22	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR GWR TCR Its to the State L or MPN" uni	PRESENT ^{1,2} PRESENT ^{1,2} on day test is comp ts; if present, enter 12:56 pm	m Client RESULTS ABSENT X X Sleted. If total of a whole number	INVALID CODE	Resample Required INVALID CODE 1 Confluent Growth 2 TNTC / No Colif 3 Turbid Culture / 1 4 Over 30 Hours O 5 Improper Sample 1 is present, lab must fax re lid ⁴ code below in commen dd/yy	d from Client S: // No Coliform Growth Found form Growth Found No Coliform Growth Found Id or Analysis 4 sults to the ts.	
ABORA1 CONTAM CODE 3100 3014 3002 3028 3013 3001 Secal, <i>E. coli</i> , within <u>24</u> h Analyse	CONTAMINANT CONTAMINANT Coliform, Total Escherichia coli Enterococci Coliphage Coliform, Fecal Heterotrophic Plate Count enterococci or coliphage is present, nours. If HPC is absent, enter a "0" alyses Begun - <u>DATE</u> : 03/22 os Completed - <u>DATE</u> : 03/23	METHOD CODE COLISURE COLISURE	Repeat Samp RULE TCR/GWR TCR/GWR GWR TCR Its to the State L or MPN" uni TIME TIME	PRESENT ^{1,2} PRESENT ^{1,2} on day test is comp ts; if present, enter 12:56 pm 12:56 pm	M Client RESULTS ABSENT X X X oleted. If total of a whole number (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	INVALID CODE CODE COLIFORIN bacteria Coliforin bacteria Explain inva Date as: mm//	Resample Required INVALID CODE 1 Confluent Growt 2 TNTC / No Colif 3 Turbid Culture / 1 4 Over 30 Hours O 5 Improper Sample a is present, lab must fax re lid ⁴ code below in commen dd/yy m am/pm)	d from Client S: h / No Coliform Growth Found form Growth Found No Coliform Growth Found Id or Analysis 4 sults to the ts.	

Bill Scott

COMMENTS:



102-A Woodwinds Industrial Court Cary NC, 27511 Phone: 919.467.3090 FAX: 919.467.3515

Monday, April 5, 2021 Kidd Well Company (KI011) Attn: Wayne Kidd 13408 Old Creedmoor Road Wake Forest, NC 27587

RE: Laboratory Results for Project Number: [none], Project Name/Desc: New Well Scan- Falls Reserve Phase 4 ENCO Workorder(s): CE04303

Dear Wayne Kidd,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, March 22, 2021.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Sill Scatt

Bill Scott Project Manager Enclosure(s)

FINAL

Page 1 of 8



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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Dissolved Test Well 2(IOC)		Lab ID: CE04303-02	Sampled: 03/21/21 21:02	Received: 03/22/21 11:30
Parameter	Preparation	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 200.7	EPA 3005A	09/17/21	03/23/21 15:58	03/24/21 12:01

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ITEM 4A.1 ATTACHMENT W1300, Sub 83

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SAMPLE DETECTION SUMMARY

No positive results detected.

TEST PUMP: M	IAKE: Goulds	MODEL: 40GS50	HP: 5	PH:
PIPE SIZE: 2	WIRE SIZE: 6-3	WIRE LENGTH:	370ft INTAKE DEPTH:	210 FT
FLOW MEASURING	G DEVICE: Sensus W160) Turbine	CHLORINATION TYPE: HTH	AMOUNT: 2lbs
TEST STARTED: D/	ATE: 3/21/2021	TIME: 9:00 AM	PUMPING WATER LEVEL: 192	FT GPM
TEST STOPPED: DA	ATE: 3/22/2021	TIME: 9:00 AM	WELL YIELD: 12	GPM

TIME		WATER	LEVEL		PUMPIN	G RATE	HEAD	TURBIDITY	COMMENTS
9:00 AM	82	PSI	21	FT	69	GPM	24	dingy	Throttled before starting
9:05 AM	52	PSI	89.9	FT	67	GPM			
9:10 AM	36	PSI	127	FT	64	GPM			
9:15 AM	30	PSI	141	FT	62	GPM			
9:20 AM	23	PSI	157	FT	61	GPM			
9:25 AM	20	PSI	164	FT	59	GPM			
9:30 AM	17	PSI	171	FT	58	GPM	18	clear	
9:35 AM	14	PSI	178	FT	58	GPM			
9:40 AM	12	PSI	182	FT	58	GPM			
9:45 AM	11	PSI	185	FT	58	GPM			
9:50 AM	7	PSI	194	FT	57	GPM			Throttled to 28gpm @ 80psi head
9:55 AM	7	PSI	194	FT	28	GPM	80	milky	
10:00 AM	7	PSI	194	FT	28	GPM			Field Samples
10:10 AM	7	PSI	194	FT	28	GPM			

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QUALITY CONTROL DATA

Metals (Dissolved) by EPA 200 Series Methods - Quality Control

Batch 1C22044 - EPA 3005A Blank (1C22044-BLK1) Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 10:42 Spike Source %REC RPD Analyte <u>Result</u> Flag POL Units Level %REC <u>Limits</u> RPD <u>Limit</u> Notes **Result** mg/L Iron 0.0220 U 0.0500 Manganese 0.00150 U 0.0100 mg/L Blank (1C22044-BLK2) Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 10:45 Spike %REC RPD Source Flag POL Units RPD Analyte Result Level %REC Limits Limit <u>Notes</u> <u>Result</u> Iron 0.0220 υ 0.0500 mg/L υ 0.00150 0.0100 mg/L Manganese Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 10:52 LCS (1C22044-BS1) %REC RPD Spike Source Analyte Result Flag POL <u>Units</u> %REC RPD **Notes** Limits Limit Level Result 1.02 0.0500 1.00 102 85-115 Iron mg/L 101 Manganese 0.202 0.0100 mg/L 0.200 85-115 Matrix Spike (1C22044-MS1) Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 10:57 Source: CD19986-01 Spike Source %REC RPD Analyte Result Flag POL <u>Units</u> Level %REC <u>Limits</u> RPD <u>Limit</u> Notes_ Result 103 70-130 Iron 2.07 0.0500 mg/L 1.00 1.04 0.513 0.0100 mg/L 0.200 0.313 100 70-130 Manganese Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 11:00 Matrix Spike Dup (1C22044-MSD1) Source: CD19986-01 RPD %REC Spike Source Analyte Result Flag POL Units Level <u>Result</u> %REC <u>Limits</u> RPD <u>Limit</u> Notes_ Iron 2.05 0.0500 mg/L 1.00 1.04 101 70-130 1 30 0.0100 mg/L 0.200 0.313 98 70-130 0.9 30 Manganese 0.509 Prepared: 03/23/2021 15:58 Analyzed: 03/24/2021 11:09 Post Spike (1C22044-PS1) Source: CD19986-01 %REC RPD Spike Source Analyte POL Units RPD Notes Result Flag Level **Result** %REC <u>Limits</u> <u>Limit</u> Iron 2.09 0.0500 mg/L 1.00 1.04 105 80-120 mg/L Manganese 0.513 0.0100 0.200 0.313 100 80-120



FLAGS/NOTES AND DEFINITIONS

- **B** The analyte was detected in the associated method blank.
- **D** The sample was analyzed at dilution.
- **J** The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- **U** The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- **E** The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- **MRL** Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- **PQL** PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
- **N** The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
- **P** Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
- [CALC] Calculated analyte MDL/MRL reported to the highest reporting limit of the component analyses.
- **LG-01** Sample filtered in laboratory.

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Environmental Conservation Labs, Inc. 102-A Woodwinds Industrial Ct, Cary, NC 27511 Tel: 919-467-3090 Fax: 919-467-3515

Kidd Well Company (KI011) Printed: 3/16/2021 10:00:03 SAMPLE KIT SUMMARY **NEW WELL INORGANIC CHEMICAL ANALYSIS (IOCs)** Water System : **Falls Preserve Phase 4** County: x Water System ID : N/A NEW WELL · 报行11 Facility ID No. : D01 Well ID : Test Well 2(IOC) Sample Point: TW2 Collected By: UEB Entry Point Sample Type : Collection Date/Time: 3-21-21 X Special/Non-compliance Analyses Lab Number: CE04303 Acidity NCDW144 Alkalinity NCDW142 Antimony Total NCDW170 Arsenic Total NCDW170 Barium Total NCDW170 Beryllium Total NCDW170 Cadmium Total NCDW170 Calcium Total NCDW169 Chromium Total NCDW170 Color NCDW129 Copper Total NCDW170 Cyanide Total NCDW150 Fluoride NCDW120 Iron Total NCDW169 Hardness NCDW169 Lead Total NCDW170 Magnesium Total NCDW169 Manganese Total NCDW170 Mercury Total NCDW119 Nickel Total NCDW170 Nitrite NCDW163 NOX NCDW163 Nitrite NCDW163 NOX NCDW163 pH NCDW135 Selenium Total NCDW170 Silver Total NCDW170 Sodium Total NCDW169 Sulfate NCDW120 **TDS NCDW139** Turbidity NCDW001 Thallium Total NCDW170 Zinc Total NCDW170 Containers 250mLP+AscAcid+NaOH 1 -250mLP+HNO3 1 40mLV 40mLV+H2SO4 2 -500mLP Sampling Instructions: Preparing to Sample - Reference the provided Chain-of-Custody or Bottle Summary for a list of bottles provided.

- Unpack the bottles to prepare for sampling. If you have more than one sampling point, the bottles needed for each discrete sampling point are segregated into individual bags. Do not mix bottles between samples.
- If shipping back to the lab, plan to collect samples in the late afternoon just prior to the pick-up time for your overnight carrier. This will allow the laboratory to complete all tests within specified holding times. All samples should be submitted to the lab ASAP within 24 hours after collection. Check with the laboratory in advance if you plan to submit samples on a Saturday.

Filling the Sample Bottles

- If you are sampling from a faucet with an aerator, it must be removed prior to collection.
- Flush the coldwater sampling line for a minimum of 10 minutes. Slow the stream prior to sampling.
- Do NOT open the bottles until you are ready to fill them. Avoid debris/dust touching in the cap or bottle.
- Record the sampling date, time, site, and name of sampler on both the bottle labels and the enclosed Chain-of-Custody. Provide your PWSID # and State reporting requirements for compliance samples.
- Follow any required test-specific sampling instructions as follows:

Preservation

Cyanide: Fill 250mL bottle with sample to within 1/2 inch of top; add entire contents of provided 1:1 NaOH vial

Comments:

Samples Collected By (Print and Sign)

Relinquish Date / Time

Please review the above information related to your sample This information will be used it generate your state compliant forms. In the event that correction nn. Page 7 of 8 accordingly and we will update our sys

Received By (Lab)

Receipt Date / Time

W1300, Sub 83



Sample Preservation Verification ENCO Cary

Work Order:	CE04303	Project: New Well Scan- Falls Reserve Phase 4
Client:	Kidd Well Company (KI011)	Project #: [none]
Logged In:	22-Mar-21 12:03	Logged By: John C King 👝 🔪 💦
Preservation (Check Performed By: \underline{CB}	Date/Time: <u>5 22 2/ / 2.7</u>

CE04303-01

Çont,	Туре	Pres (pH) i Requirement	pH Checked /	pH Adjusted Date/Time Reagent Used/Comments	2
A	250mLP+AscAcid+NaOH	>12	J/N/NA	Y N / NA	2
В	250mLP+HNO3	<2	TY / N / NA	Y INI NA	8
D	40mLV+H2SO4	<2	Y/N/NA	YIONINA	



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Mar 28 2024

	NEW WELL IN	ORGANIC CHEM	ICAL A	NALYSIS	
WATER SYSTEM ID #:	N/A	Coi	unty: x		
Name of Water System:	Falls Preserve Phase 4				
Sample Type:	Entry Point	Special/	Non-compli	iance	
Location Where Collected:	Well: Test Well 2(IOC)				
Facility ID No.:	D01				
Sample Point:	TW2			allestian Data	Callestian Time
Collected By:	James Blalock			Shection Date	Collection Time
Mail Results to:		l		03/21/21	09:02 pm
Attn: Wayne Kidd					
13408 Old Creedmoor Road		I	Phone #:	(919) 848-8602	
Wake Forest, NC 27587		J	Fax #:		
LABORATORY ID #: 37724		SAMPLE UNSATIS	SFACTORY	,	RESAMPLE REQUIRED

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
0100	Turbidity	180.1	0.1 ntu		0.12 ntu	N/A
1005	Arsenic	200.8	0.005 mg/L	Х	mg/L	0.01 mg/L
1010	Barium	200.8	0.4 mg/L	X	mg/L	2 mg/L
1015	Cadmium	200.8	0.001 mg/L	X	mg/L	0.005 mg/L
1016	Calcium	200.7	1 mg/L		15.3 mg/L	N/A
1017	Chloride	300.0	5 mg/L	Х	mg/L	250 mg/L
1020	Chromium	200.8	0.02 mg/L	X	mg/L	0.1 mg/L
1022	Copper	200.8	0.05 mg/L	X	mg/L	1.3 mg/L
1024	Cyanide (total)	335.4	0.05 mg/L	Х	mg/L	0.2 mg/L
1025	Fluoride	300.0	0.1 mg/L	X	mg/L	4 mg/L
1028	Iron	200.7	0.06 mg/L	Х	mg/L	0.3 mg/L
1030	Lead	200.8	0.003 mg/L	X	mg/L	0.015 mg/L
1031	Magnesium	200.7	l mg/L		6.52 mg/L	N/A
1032	Manganese	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1035	Mercury	245.1	0.0004 mg/L	X	mg/L	0.002 mg/L
1036	Nickel	200.8	0.1 mg/L	X	mg/L	N/A
1040	Nitrate as N	4500NO3-F	l mg/L	Х	mg/L	10 mg/L
1041	Nitrite as N	4500NO3-F	0.1 mg/L	X	mg/L	l mg/L
1045	Selenium	200.8	0.01 mg/L	X	mg/L	0.05 mg/L
1050	Silver	200.7	0.05 mg/L	Х	mg/L	0.1 mg/L
1052	Sodium	200.7	l mg/L		10.4 mg/L	N/A
1055	Sulfate as SO4	300.0	5 mg/L	X	mg/L	250 mg/L
1068	Acidity (as CaCO3)	2310 B	l mg/L	X	mg/L	N/A
1074	Antimony	200.8	0.003 mg/L	X	mg/L	0.006 mg/L
1075	Beryllium	200.8	0.002 mg/L	X	mg/L	0.004 mg/L
1085	Thallium	200.8	0.001 mg/L	X	mg/L	0.002 mg/L
1095	Zinc	200.8	l mg/L	X	mg/L	5 mg/L
1905	Color	2120B	5 units	X	units	15 units
1915	Hardness	2340B	l mg/L		65 mg/L	N/A
1925	рН	4500H-B	N/A	N/A	7.5 units	Page 1 of 3

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NEW WELL INORGANIC CHEMICAL ANALYSIS

(continued)

Sample Point:	TW2		
	DOI	03/21/21	09:02 pm
Facility ID No :	D01	Collection Date	Collection Time
Name of Water System:	Falls Preserve Phase 4		
WATER SYSTEM ID #:	N/A		

Sample Point:

LABORATORY ID #: 37724

CONTAM CODE	CONTAMINANT	METHOD CODE	REQUIRED REPORTING LIMIT (R.R.L.)	NOT DETECTED (i.e < R.R.L.) (X)	QUANTIFIED RESULTS	ALLOWABLE LIMIT*
1927	Total Alkalinity as CaCO3	2320B	l mg/L		77 mg/L	N/A
1930	Total Dissolved Solids	2540C	10 mg/L		36 mg/L	500 mg/L

*Note: Concentrations for Lead and Copper are action levels not MCLs.

	DATE:	TIME:
ANALYSES BEGUN:	03/22/2021	1:58 pm
ANALYSES COMPLETED:	04/02/2021	1:00 pm

Laboratory Log #: COMMENTS:

CE04303-01

Certified By: Bill Scatt Bill Scott

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Environmental Conservation Laboratories, Inc. 102-A Woodwinds Industrial Court Cary, NC 27511 Ph: (919) 467-3090 Fax: (919) 467-3515

	CO	ORROSIVITY ANA	ALYSIS		
WATER SYSTEM ID #: Name of Water System: Sample Type: Location Where Collected:	N/A Falls Preserve Phase 4 Entry Point Well: Test Well 2(IOC) -	C Specia	ounty: x I/Non-compliance		
Location Code: Collected By: Mail Results to:	TW2 James Blalock		Collection E 03/21/21	Date Colle	ction Time :02 pm
Kidd Well Company (KI011) Attn: Wayne Kidd 13408 Old Creedmoor Road Wake Forest, NC 27587			Phone #: (919) ; Fax #:	848-8602	
LABORATORY ID #: 37724		SAMPLE UNSAT	ISFACTORY	RESAMPL	E REQUIRED
CONTAM	METHOD	REQUIRED	NOT DETECTED	OUANTIFIED	ALLOWABLE

CONTAM CODE	CONTAMINANT	METHOD CODE	REPORTING LIMIT (R.R.L.)	(i.e < R.R.L.) (X)	QUANTIFIED RESULTS*	ALLOWABLE LIMIT
1910	Langelier Index		N/A	N/A	-0.78	N/A
1919	Calcium Hardness	2340B	N/A	N/A	38 mg/L	N/A
1925	pH	4500H-B	N/A	N/A_	7.5 units	6.5-8.5 units
1927	Total Alkalinity as CaCO3	2320B	1 mg/L		77 mg/L	N/A
1930	Total Dissolved Solids	2540C	10 mg/L		36 mg/L	500 mg/L
1996	Water Temperature	2550	N/A	N/A	16 deg C	N/A

*Note: Concentrations for Lead and Copper are action levels not MCLs.

	DATE:	TIME:
ANALYSES BEGUN:	03/21/2021	9:02 pm
ANALYSES COMPLETED:	03/31/2021	10:27 am

Laboratory Log #:

Certified By: Bill Scatt Bill Scott

COMMENTS:

CE04303-01

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Page 3 of 3

Appendix K – Old North State Water Company Utility Specifications

ITEM 4A.1 ATTACHMENT PUBLIC / REDACTED

Mar 28 2024

WATER SPECIFICATIONS

OLD NORTH STATE WATER COMPANY LLC

1620 CHALK ROAD WAKE FOREST, NC 27587 (919) 971-1926

Revised December 4, 2019



GROUNDWATER WELL

GW.1 General

The well shall be constructed in accordance with section 15A NCAC18C.0402, 15A NCAC 2C, all other State, County regulations, AWWA standards and Utility specifications.

The well drilling contractor shall obtain any and all required permits needed to drill a well. Penalties assessed for not obtaining the required permits shall be the sole responsibility of the contractor and/or developer. Utility shall not be liable if the required permits are not obtained.

A completed copy of the State and/or County required well drilling record/log shall be copied to Utility showing the name of the Subdivision, well number, coordinates of well, well drilling company, date drilled, depth of well, depth of casing, drive shoe, depth of the grouting and placement method used, static water level, depth and yield at each water zone (including those zones cut off by the installation of the casing), total yield, etc. Well records without the above data will not be accepted by Utility.

GW.2 Well Site

Well site shall be approved by NCDEQ and a Utility Representative prior to drilling.

Developer shall provide Utility with an appropriate recorded deed of easement and/or general warranty deed which shall include well protective non-contamination provisions to ensure the required 100' radius is pollution-free. A sealed survey of the well lot shall be provided prior to submittal for NCDEQ plan approval. The survey shall include topographic information, the coordinates of the well, easements, 100' radius, other distances to property lines, and county pin numbers.

Said deed must be in the Utility's name and shall be recorded at the county's register of deed office prior to submittal for NCDEQ plan approval and Utility accepting the well. A 20' Utility and access easement shall also be granted to Utility.

GW.3 Well Construction

An on-site meeting with a Utility Representative shall be held prior to drilling. Utility must be notified one (1) week in advance prior to beginning drilling, setting the Casing, and beginning grouting.

Well shall be drilled at the specified well stake put in the ground by the surveyor, as approved by NCDEQ. If the well is not drilled in accordance with the NCDEQ predrill letter, the Utility shall not accept the well.

All drilling fluids and additives used shall comply with recognized industry standards and practices and be applied and used as prescribed by the manufacturer. Toxic and/or unapproved substances shall not be added to drilling fluid.

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Wells shall be drilled straight and plumb the entire depth of the well. Crooked wells will not be accepted. The well driller shall attempt to drill to a depth at least thirty (30) feet beyond the last water-bearing fracture. The well shall be thoroughly cleaned of all drill cuttings prior to the removal of the drilling equipment.

At the completion of drilling, the well drilling contractor shall chlorinate to a tested level of 100 ppm for 24-hours in accordance with AWWA rule C654 and 15A NCAC18C.1002.

GW.4 Well Casing

Casing length- Where firm bedrock is encountered shallower than 55 feet, a minimum casing length of 55 feet below ground level is preferred. Unless otherwise specified by the on-site Utility Representative, the well must be drilled a minimum of 5' into competent bedrock where the drive shoe and casing must be secured.

Method of joining - Casing lengths shall be joined in alignment and water tight by a method appropriate to the material used so that the resulting joint shall have the same structural integrity and protection as the casing itself. Threaded and coupled joints shall be API or equivalent and made up tight. Welding is acceptable.

Drive shoe - A drive shoe must be installed on the end of casing. The drive shoe shall be made of forged, high carbon, tempered seamless steel and shall have a beveled, hardened cutting edge. This shoe shall be firmly driven into the rock at least 5' into competent bedrock to make a seal with 10' being preferred.

Sanitary protection of the well - The well site shall be protected at all times during the drilling. The casing shall be sealed with a suitable flanged, threaded, welded cap, or compression seal upon completion. The top of the outside casing shall extend at least 12" above the grade level.

There shall be no openings in the casing wall below its top except for water level measurement access ports, vents, or grout nipples. Such openings shall be sealed water tight prior to leaving the well site.

An identification plate shall be attached to each public well immediately after drilling is completed. The well drilling contractor shall furnish a completed well identification plate as outlined below prior to leaving the job site. The well will not be accepted without this tag.

The identification plate shall be constructed of a durable, weatherproof, rustproof metal or equivalent material and stamped with permanent markings to show:

- Drilling contractor and registration number.
- Date well completed.

.

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- Total depth of well.
- Casing: Depth (feet), Inside Diameter (inches).
- Yield in gallons per minute (gpm),
- Static water level and date measured.

GW.5 Well Grouting

Water or other drilling fluid shall be circulated in the annular space sufficiently to clear all obstructions including rock chips before grouting. The entire length of the well casing shall be grouted completely in one pour, no construction joints are allowed.

Tremie grouting is the preferred method, and the Utility may specify grouting to the end of the casing within the annular space using two tremie pipes to ensure good distribution around the casing.

Grouting will be started from the bottom and raised slowly, the pipe shall be kept full continuously from start to finish. The grout must be properly cured for at least 24 hours before construction may be resumed.

Special care must be taken to set casing and grout into Piedmont crystalline rock and not just too overlying isolated boulders or iron hardpan. Additional length of grout may be necessary in some cases to support the weight of the casing.

Alternative grouting techniques must be preapproved by the Utility and Engineer.

GW.6 Well Development

All water supply wells shall be properly developed by the well driller. Development shall include removal of formation materials, mud, drilling fluids and additives such that the water contains no more than:

- Five (5) milliliters per liter of settleable solids
- Ten (10) NTUs of turbidity as suspended solids.

GW.7 Sanitary Seal

The well site shall be protected at all times during the drilling. The casing shall be sealed with a suitable flanged, threaded, or welded cap upon completion. The top of the outside casing shall extend at least 12" above the grade level.

There shall be no openings in the casing wall below its top except for water level measurement access ports, vents, or grout nipples. Such openings shall be sealed water tight prior to leaving the well site.

<u>GW.8 Storage</u>

Unless approved by the utility a minimum of 5,000 gallons of hydro-pneumatic storage will be required. Storage calculations need to consider the following items: lot size, lot count, water main size, air:water ratio, and water quality. Flushing volume will require a velocity of 5 ft/sec, and 20 minutes of flow.

GW.9 Well Building

The well building shall be $10^{\circ}-4^{\circ} \times 9^{\circ}-4^{\circ}$ wood framed with R-15 BATT insulation and double doors. Roof shall be golden brown asphalt shingled with a pitch of 4/12. The floor shall be a 6"-thick, 3000 psi concrete slab with 12"-thick footings and shall slope towards a center floor drain. See Standard Details for additional information.

GW.10 Pump

The well pump shall be 15SQ15-290 Grundfos submersible with 2.5 HP Motor capable of pumping 12 GPM at a head of 395.6 feet.

GW.11 Chemical Feed Equipment

A chemical feeder shall be installed in the well building according to Old North State specifications. A "PULSAtron Series A Plus" feeder, model LB03 shall be installed per manufacturers specifications.

Based on 16 connections at 400 GPD, the required demand is 6,400 GPD. The chlorination dosage rate for continuous disinfection shall be between 1.0 mg/L and 1.2 mg/L.

Based on the calculations below, in order to achieve a 1.0 mg/L dosage, the chlorinator should be set to 0.077 lbs/day

(x mg/L Chlorine) (MGD of Flow) (8.34 lbs/gallon) = x lbs/day of Chlorine

(1.0 mg/L Chlorine) (MGD of Flow) (8.34 lbs/gallon) = 0.0534 lbs/day of Chlorine

The chlorine shall be in liquid form.

WATER DISTRIBUTION SYSTEM

W.1 Water Distribution Pipe

PVC pipe shall be PVC 1120, in accordance with AWWA C-900. All 2" water main pipe shall be PVC 1120 in accordance with ASTM D- 2241. The pipe shall be minimum Pressure Class 200 with a SDR of 14 or less for C-900 pipe and a SDR of 21 or less for ASTM 2241 pipe. All PVC Water Pipe must bear National Sanitation Foundation logo. PVC pipe will require saddles for service taps and the installation of a tracer wire as shown in the standard details herein. All installation of PVC pipe shall be in accordance with AWWA C605.

Ductile Iron Pipe shall be designed as per ANSI A21.50 for a working pressure of 200 psi, laying condition B. Pipe shall be minimum Class SO, and manufactured as per AWWA C141 in 18 ft. lengths. Pipe joints shall be of the push-on type as per AWWA C151, Paragraph 51-2.6. Pipe lining shall be cement mortar with a seal coat of bituminous material, all in accordance with AWWA C104. Dip shall only be used where noted on the plans. All installation of DIP pipe shall be in accordance with AWWA C600.

W.2 Valves

Gate valves greater than 2 inches shall meet all requirements of AWWA C500 (latest revision), for a working pressure of 200 psi. All shall be mechanical joint (except for use on blow off assemblies or backflow preventers) with iron body, bronze mounting double disc parallel seat type with a non-rising stem with a double "0" ring seal, 2" square operating nut, and open-left as furnished by Mueller, American Valve and Hydrant or Clow.

Valves shall be properly located, operable and at the correct elevation. The valve box shall be centered over the wrench nut and seated on concrete block without touching the valve assembly.

All valve boxes shall be cast iron of the screw or telescopic type, with a 5 inch opening with "water" cast in the cover. Refer to standard detail WD-3.

W.3 Blow-Off Assemblies

The assembly shall be constructed as shown on Standard Drawing W-4 for Blowoff Assemblies. The gate valves shall meet all requirements of AWWA CSOO and shall have a non-rising stem, "O"-ring seals and screwed ends, 2" operating nut, and <u>open-left</u> as furnished by Mueller or American Valve and Hydrant.

All Blow Off Assemblies shall have a valve box installed at the valve and discharge. Boxes shall be cast iron of the screw or telescopic type, with a 5 inch opening with "water" cast in the cover. Refer to standard detail WD-9, Mar 28 2024

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W.4 Water Pipe Fittings

Pipe fittings shall be compact or ductile iron mechanical joint fittings designed and manufactured as per AWWA C153 and rated at a working pressure of 350 psi. Fitting shall be lined with cement mortar with a seal coat of bituminous materials, all in accordance with AWWA C104.

Reaction Blocking for all fittings of components subject to hydrostatic thrust shall be securely anchored by the use of concrete blocks poured in place. Refer to standard drawings for details. Wrap fittings in 6 mil plastic before pouring blocking concrete. Material for reaction blocking shall be 3000 psi concrete.

W.5 Services

Refer to standard drawings W-1 and W-3 for all details regarding services. **Piedmont and Coastal Areas**: Use 3/4" polyethylene "black roll pipe" only from corporation stop to meter box. **Mountain Areas**: Use 3/4" type "K" copper.

W.6 Installation

The trench shall be excavated to the proper depth to permit installation of the pipe along the lines and grades shown on the construction drawings. Pipe shall have a minimum cover of 36" at the top of the pipe and minimum trench width shall be at least 18" greater than the outside diameter of the pipe. Where excavation is in rock, the rock shall be removed to a depth of at least 6" below grade and shall be backfilled with suitable material. Wet trenches shall be stabilized with #78M stone or with a base layer of #57 stone. Shoring or bracing of pits, trenches and other excavations shall be in accordance with the requirements of the North Carolina Department of Transportation and the Federal Occupational Safety and Health Act.

All pipe shall be laid to its manufacturer's recommendations. The subgrade at the bottom of the trench shall be shaped to secure uniform support throughout the length of the pipe. A space shall be excavated under the bell of each pipe to provide space to relieve bearing pressure on the bell and to provide room to adequately made the joint.

Open ends of pipe shall be plugged with a standard plug or cap at all times when pipe laying is not in progress. Trench water shall not be permitted to enter pipe.

Backfill material shall be free from stones greater than 4 inches in diameter, construction materials debris, frozen material, organic matter, or unstable material. Compact to a density of no less than 95 percent maximum dry density as measured

by AASHO Method T99. Backfill material shall be placed in lifts of 8 inches or less of the uncompacted soil. All trenches shall be properly backfilled at the end of each working day.

Sanitary sewers shall be laid at least 10 feet laterally from existing or proposed water mains unless the elevation of the top of the sewer is at least 18 inches below the bottom of the water main with a horizontal separation of at least 3 feet.

Where a sanitary, or storm sewer and a water main cross, and the vertical separation is less than 18 inches or the water line passes under the sewer, both the sewer and the water main shall be ductile iron pipe for a distance of 10 feet on each side of the point of crossing. The water line pipe section shall be centered at the point of crossing.

W. 7 Hydrostatic Tests

No valve in the existing water system shall be operated without giving a minimum of 24 hours' notice to Old North State Water Company LLC. Water mains shall be subjected to pressure and leakage tests in accordance with A.W.W.A. Standard C600 (latest revision). Hydrostatic tests for a section of line to be tested shall be slowly filled with water at a rate which will allow complete evacuation of air from the line.

The line shall be tested to a pressure of 200 psi as measured at the lowest elevation of the line for a minimum duration of 2 hours. The pressure gauge used in the hydrostatic test shall be calibrated in increments of 10 psi or less. At the end of the test period, the leakage shall be measured with an accurate water meter.

Pipe Size (Inches)	Allowable Leakage (Gal./Hr./1000 ft. of pipe)
2	0.19
3	0.29
4	0.38
6	0.57
8	0.76
12	1.15
16	1.53
20	1.91
24	2.29

All visible leaks are to be repaired regardless of the amount of leakage.

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W.8 Chlorination

- A. Upon completion of testing, all water lines shall be disinfected to meet the requirements of the State and the most recent revision of AWWA Standard 651. Use the Continuous Feed method of chlorination or obtain Engineer approval of a different, approved method.
- B. Potable water may be supplied from a temporary, backflow-protected connection to the existing distribution system or other supply source approved by ONSWC. The flow shall be at a constant, measured rate into the newly installed water main.
- C. Before the line is chlorinated, it shall be filled with potable water to eliminate air pockets and flushed to remove particulates. The flushing velocity in the line shall not be less than 3.0 ft/sec unless conditions do not permit the required flow to be discharge to waste. Where such flow rates are not possible, flushing at the maximum expected flow rate for the line for 2-3 volumes may be acceptable, or pigging may be required.
- D. Before being placed in service, all new lines, repaired portions of, or extensions to existing lines, shall be filled with water that received a dose of chlorine fed at a constant rate such that the water will have not less than 50 mg/L free chlorine. Chlorine application will continue until the entire main is filled with chlorinated water. The chlorinated water shall be retained in the main for at least 24 hours during which time valves and hydrants in the treated section shall be operated to ensure disinfection of the appurtenances. At the end of the 24-hour period, the treated water in all portions of the main shall have a residual of not less than 10 mg/L of free chlorine.
- E. Heavily chlorinated water shall be flushed from the line until chlorine measurements show that the concentration in the water leaving the main is no higher than that generally prevailing in the distribution system.
- F. If there is any possibility that the chlorinated discharge will cause damage to the environment, a neutralizing chemical shall be applied to the water to be wasted to thoroughly neutralize the residual chlorine. Where necessary, regulatory agencies should be contacted to determine special provisions for the disposal of heavily chlorinated water.

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W.9 Bacteriological Sampling

Samples for bacteriological analysis shall be collected by the Contractor 24 hours after flushing is completed. If test results are unsatisfactory, the Contractor shall immediately re-chlorinate lines and proceed with such measures as are necessary to secure properly disinfected lines. All bacteriological analysis must be performed by a laboratory certified by the State of North Carolina.

W.10 Testing and Inspection

NOTIFY OLD NORTH STATE WATER COMPANY LLC BEFORE BEGINNING CONSTRUCTION, and prior to testing any completed section. A 24-hour notice may be required.

All materials used on the project must have a preliminary inspection by Old North State Water Company LLC and Engineer before materials are used for construction purposes. Rejection of materials not meeting specifications will be ordered by Old North State Water Company LLC or Engineer, and such materials shall be immediately removed from the job site.

The Contractor shall furnish all materials, labor, and equipment to necessary to perform all testing to the satisfaction of Old North State Water Company LLC and the Engineer. Fees for water sample testing shall be paid by the Contractor. Water for testing purposes will be provided by Old North State Water Company LLC upon notifying Old North State Water Company LLC of the testing water requirement.

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Appendix L – Hydro-pneumatic Tank Calculations

FLMENGINEERING

The Reserve at Fails Lake Phase 4 - Tank Calculation

Total Connections =	16	
Peak Demand =	50 GPM	
Pumping Capacity =	12 GPM	
Required Effective Volume =	(Peak Demand - Pumping Capacity (50 GPM - 12 GPM) x 20 min. =	r) x 20 min. 760 Gallons
Total Tank Volume =	Required Effective Volume / 0.25 760 gallons / 0.25 =	3,040 Gallons Required

The proposed 5,000 gallon tank is sufficient

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Mar 28 2024

State of North Carolina Department of Environmental Quality

Applicant Certification Form

In accordance with 15A NCAC 18C .0303 (c), a signed applicant certification must be submitted to the Department, stating that the Operation and Maintenance (O&M) Plan and the Emergency Management Plan requirements have been satisfied and that the system will have a certified operator as required by Section .1300. No construction, alteration, or expansion of a community or non-transient, non-community public water system shall be placed into final service or made available for human consumption until the applicant has submitted the certification and has received Final Approval from the Department.

Certification must be provided by the following individual or their duly authorized representative:

- 1. For a corporation, limited liability company, home owner association or non-profit organization: a president, vice president, secretary, or treasurer.
- 2. For a partnership or sole proprietorship: by a general partner or the proprietor.
- 3. For a municipality, State, Federal or other agency: by either a principal executive officer or ranking elected official.

By the signature below I certify, under penalty of law:

- 1. The following actions have been completed for the construction, alteration, or expansion of the water system, as defined in the project documents:
 - I, or personnel under my direct supervision, have completed an O&M Plan and an Emergency Management Plan in accordance with 15A NCAC 18C .0307(d) and (e). Based on my evaluation of the plans, or my inquiry of the person or persons directly responsible for preparing the O&M Plan and Emergency Management Plan, the information contained in the plans is, to the best of my knowledge and belief, true, accurate, and complete.
- 2. The following actions will be completed before the construction, alteration, or expansion of the water system, as defined in the project documents, is placed into final service or made available for human consumption:
 - In accordance with 15A NCAC 18C .0307(d), the O&M Plan will be made accessible to the operator on duty at all times and available to the Department upon request.
 - In accordance with 15A NCAC 18C .0307(e), the Emergency Management Plan will be made accessible to the system operator on duty at all times and available to the Department upon request.
 - In accordance with 15A NCAC 18C .0303(c), the system will have a certified operator as required by 15A NCAC 18 C. 1300.

<pre> Signature: </pre>	Frighter	Name(Print):	Erica Cochran
Title:	Development & Construction	Ngr Date:	8/17/2023
Project Name:	The Reserve at Falls Lake S/D Ph 4	System Name:	Reserve at Falls Lake (Phase 4)
Serial	No: 21-01094	Water Sys. ID: N	C4092213

Certifications can be sent by mail, fax (919-715-4374), or attachment to an e-mail message to PWSSection.PlanReview@ncdenr.gov



























ITEM 4C ATTACHMENT

W1300, Sub 83

ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director

NORTH CAROLINA Environmental Quality

October 16, 2023

OLD NORTH STATE WATER CO ATTN: JOHN MCDONALD PO BOX 10127 BIRMINGHAM, AL 35202

Re: Final Approval

Final Approval Date: October 16, 2023 THE RESERVE AT FALLS LAKE SUBDIVISION - PH 4 Serial No.: 21-01094 Water System Name: RESERVE AT FALLS LAKE (PHASE 4) Water System No.: NC4092213 Wake County

Dear Sir/Madam:

The Department received an Engineer's Certification statement and an Applicant's Certification concerning the above referenced project. The Engineer's Certification verifies that the construction of the referenced project has been completed in accordance with the engineering plans and specifications approved under Department Serial Number 21-01094. The Applicant's Certification verifies that an Operation and Maintenance Plan and Emergency Management Plan have been completed and are accessible to the operator at all times and available to the department upon request and that the system will have a certified operator as required by 15A NCAC 18C .1300.

The Department has determined that the requirements specified in 15A NCAC 18C .0303(a) and (c) have been met, and therefore, issues this **Final Approval** in accordance with Rule .0309(a).

Please contact us at (919) 707-9100 if you have any questions or need additional information.

Sincerely, Badosky

Rebecca Sadosky, Ph.D., Chief Public Water Supply Section Division of Water Resources, NCDEQ

cc: TRESHA PRICE, Regional Engineer Wake County Health Department FLM ENGINEERING, INC



North Carolina Department of Environmental Quality | Division of Water Resources 512 North Salisbury Street | 1634 Mail Service Center | Raleigh, North Carolina 27699-1634 919.707.9100 Aar 28 2024

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CHRISTOPHER A LEWIS, PE FLM ENGINEERING, INC PO BOX 91727 RALEIGH, NC 27675

W1300, Sub 83

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Mar 28 2024

AGREEMENT

STATE OF NORTH CAROLINA COUNTY OF FRANKLIN

This agreement for the installation, conveyance, and operation of the Falls Reserve Phase 4 Subdivision Water Utility System (hereinafter referred to as the "Agreement") is made and entered into on this the $\underline{9^{+h}}$ day of ______ 2021, by and between FALLS LAKE DEVELOPER'S, LLC hereinafter referred to as the "Developer"), and OLD NORTH STATE WATER COMPANY, LLC (hereinafter referred to as the "Utility or ONSWC") (individually referred to as a "Party" and collectively referred to as the "Parties").

WITNESSETH:

THAT WHEREAS, the Developer is the owner of certain real property to be known as Falls Reserve Phase 4 Subdivision (hereinafter referred to as the "Subdivision"); and

WHEREAS, the Developer plans to design, construct, and install in the Subdivision a community water utility system to provide water utility service to all proposed 16 lots in the Subdivision (hereinafter referred to as "Water Utility System"); and

WHEREAS, the Utility is engaged in the business of owning and operating water utility systems in the State of North Carolina; and

WHEREAS, the Developer has requested that the Utility purchase, own, and operate the Water Utility System; and

WHEREAS, the Utility is agreeable to purchasing, owning, and operating the completed Water Utility System; and

WHEREAS, the Parties have agreed that upon the construction and installation of the Water Utility System, the Developer shall transfer and assign the Water Utility System to the Utility in accordance with the terms and conditions of this Agreement; and

WHEREAS, after the Utility acquires the Water Utility System from the Developer, the Utility shall operate the Water Utility System in accordance with the terms and conditions of this Agreement.

NOW, THEREFORE, for and in consideration of the promises and of the rights, powers and duties hereinafter set forth to be performed by each Party, the Developer and the Utility mutually do agree as follows:

1. Definitions

1.1. "<u>Agreement</u>" shall mean this Agreement for the Installation, Conveyance, and Operation of the Water Utility System serving the Subdivision, including any and all exhibits and schedules, if any, as amended from time to time.

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1.2. "<u>Certificate Extension</u>" shall mean the Certificate of Public Convenience and Necessity for water utility service at the Subdivision to be issued by the Commission (defined below).

1.3. "CIAC" shall mean a Contribution in Aid of Construction as defined in 26 CFR § 1.118-2, including: (i) mains and appurtenances, plants, equipment, and other property constructed by Developer and contributed to Utility pursuant to this Agreement; (ii) Deeded Property contributed to Utility pursuant to this Agreement; (iii) services performed by Developer (including its subcontractors) for constructing or transferring property contributed to Utility; and (iv) cash contributions (water capacity payments, wastewater capacity payments, and/or capital recovery charges) owed or paid to Utility for expansion of the plant or equipment.

1.4. "CIAC Gross Up Payment" shall mean the income tax collected by Utility on CIAC received from Developer, using the full gross-up method, relating to the Water Utility System.

1.3. "<u>Closing</u>" shall mean the transfer of the Water Utility System from the Developer to the Utility.

1.4. "<u>Closing Date</u>" shall mean the date of the Closing.

1.5. "<u>Commission</u>" shall mean the North Carolina Utilities Commission.

"Deeded Property" shall mean the real property that will be part of the Water Utility System that is owned by the Developer and will be used in connection with the Water Utility System, including, but not limited to, well lots, storage tank site, treatment facility sites, treatment disposal sites (if any), access and utility easements, and other real property that is needed for the construction, operation, maintenance, repair, and replacement of the Water Utility System.

1.6. "*DWR*" shall mean the North Carolina Department of Environment and Natural Resources, Division of Water Resources.

1.7. "<u>Developer</u>" shall mean Falls Lake Developer's, LLC, whose mailing address is: 7101 Creedmoor Rd., Ste 122, Raleigh, NC 27613.

1.8. "*Permit*" shall mean the Water Utility System Permit and/or the Authorization to Construct to be issued by DWR.

1.9 "<u>Service Line</u>" shall mean that portion of the individual household water line for which the Utility <u>will not</u> assume maintenance responsibility. The Service Line shall include only that portion of the individual household water line that extends from the Utility's water meter at or near the property line to the home. The portion of the line extending from the water meter to the water main at or near the street shall not be included in the term "Service Line."

1.10. "<u>REU</u>" shall mean one Residential Equivalent Unit, as defined as follows:

Meter Size	REU
Less than 1"	1.0
["	2.5

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1.12. "<u>Utility</u>" shall mean Old North State Water Company LLC, a North Carolina limited liability company, its successors and assigns, whose business address is: 3212 6th Ave S, Ste 200, Birmingham, AL 35222.

1.13. "<u>Water Plans</u>" shall mean all plans and specifications, as may be amended from time to time, for the Water Utility System approved by the Utility and DWR and engineered by Developer's engineer.

1.14. "<u>Water Utility System</u>" shall mean the water distribution system and other facilities used in the distribution of the water utility service necessary to provide service to the lots of the Subdivision, including, but not limited to, the distribution mains, services, meter boxes, meter yokes, backflow preventors, valves, and other additional components of the Water Utility System necessary to serve water to the lots in the Subdivision.

1.15. "<u>Water Utility System Service Line</u>" shall mean the portion of the water line for which the Utility will assume maintenance responsibility. The Water Utility System Service Line shall include only that portion of the individual water line that extends from the water meter, at or near the property line or street, to the Water Utility System's water main at or near the street, unless the water meter is not on the individual lot owner's property in which case, the Utility shall assume maintenance responsibility up to the property line. The portion of the line extending from the water meter at or near the street to the house shall not be included in the term "Water Utility System Service Line."

2. Design and Installation Requirements

2.1. The Developer, at its cost, shall cause to be designed, constructed, and installed in the Subdivision the Water Utility System, in accordance with plans and specifications to be approved by the Utility and DWR and engineered by Developer's engineer. The Water Utility System shall be designed, constructed, and installed pursuant to the Utility's specifications, a copy of which has been delivered to the Developer or the Developer's engineer.

2.3. As required by North Carolina General Statute § 130A-317 and the Rules Governing Public Water Supply Systems, North Carolina Administrative Code 15A NCAC 18 C. 0305(a), neither the Developer nor the Utility shall construct or begin construction of any portion of the Water Utility System prior to approval of the Water Utility System plans and specifications by DWR or prior to the issuance of an Authorization to Construct by DWR.

2.4. Any penalties assessed against the Utility (as the applicant for the Water Utility System), the Developer's engineer, or the Developer by DWR as a result of the Developer installing all or a portion of the Water Utility System without DWR approval (i.e., construction beginning prior to DWR issuing its Authorization to Construct) shall be paid by Developer prior to meters being installed or water service being provided in the Subdivision.

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2.5. The Developer shall pay for the engineering, design, permitting, construction, and installation costs related to the Water Utility System, including the engineer's certification of completion, and all costs associated with the construction and installation of the necessary water distribution to provide water service to the 16 lots in the Subdivision.

3. Conveyance of Water Utility System

3.1. The Developer agrees to convey to the Utility, upon completion of the Water Utility System, by bill of sale, the entire Water Utility System, constructed and installed in accordance with the plans approved by DWR and the Utility.

3.2. The Developer agrees to convey to the Utility by Bill of Sale the distribution mains, services, meter boxes, meter yokes, backflow preventors, valves, and additional components of the Water Utility System necessary and proper to serve water to all connections and lots in the Subdivision. *The Bill of Sale is attached hereto as <u>EXHIBIT 3.2.</u>*

3.3. If any water mains are not within publicly dedicated rights of way, the Developer shall convey to the Utility a perpetual easement 10 feet on each side of the water main, which easement shall be for ingress, egress, regress and access to operate, maintain, repair, and replace the water main and appurtenant equipment.

4. <u>Certificate of Public Convenience and Necessity</u>

4.1. Upon execution of this Agreement and issuance of the Authorization to Construct by DWR, the Utility will apply to the Commission, as soon as may be practicable, for a Certificate to provide water service to the Subdivision. Upon the granting of the Certificate by the Commission, the conveyance of the completed Water Utility System to the Utility, and the Closing occurring, the Utility will supply water service to the residents of the Subdivision

4.2. It is mutually understood and agreed that the sale and conveyance of the Water Utility System shall become effective only upon the granting of the Certificate by the Commission and approval of the Water Utility System by DWR.

5. Engineering Certification of Completion and Record Drawings

5.1. The Developer shall have its engineer furnish the Utility with a signed and sealed copy of the DWR required letter, certifying that the Water Utility System is installed in compliance with the approved plans.

5.2. The Developer shall have its engineer supply the Utility with an electronic copy of an accurate comprehensive map and engineering record drawings in plan and profile of the Water Utility System as constructed ("as-builts") and also a hard copy of the as-builts and map. The electronic version of the as-builts shall be submitted to the Utility in ".dwg" format and shall also include at the very least, pipe size, pipe material, pipe location, flow direction, date of install, service locations, meter box locations, and the longitude and latitude of each valve. Said record drawings shall depict the seal of the professional

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engineer responsible for issuing the record drawings.

6. <u>Subdivision Plats</u>

The Developer shall provide the Utility with a recorded plat showing each lot being served or to be served by the Water Utility System. Said plat shall include utility and access easements in favor of the Utility for ingress, egress, regress and access to operate, maintain, repair, and replace the water mains and appurtenant equipment related to the water system.

7. <u>Fees</u>

\$125

7.1. <u>Meter Installation Fee</u>. The Meter Installation Fee for a 5/8" x 3/4" service shall be **Serv** and. This is a one-time fee and shall be paid by the person or builder requesting service to that location for the first time only. For meters greater than 5/8" x 3/4", the person or builder requesting service to that location for the first time shall be charged actual costs for the meter installation.

7.2. <u>New Customer Fee</u>. The New Customer Fee shall be \$20.00 and shall be charged each time the name on account is changed.

7.3. <u>Connection Fee</u>. The Connection Fee shall be \$500. This is a one-time fee and shall be paid by the person or builder requesting service to that location for the first time only.

8. Purchase Price Owed to Developer by the Utility

8.1 Utility is purchasing from Developer the completed Water Utility System. The Purchase Price paid by Utility shall be \$500/REU. Said Purchase Price payment shall be payable quarterly based on the number of meters installed during the previous quarter. Payments shall be made on or about each January 30, April 30, July 30, and October 30.

8.2 Prior to the first purchase price payment being made by Utility to the Developer, the Developer shall execute and deliver to Utility an Internal Revenue Service Form W-9.

9. Written Certification of Costs

Developer, at the Closing, shall deliver to the Utility a written certification of the Developer's cost in the Water Utility System showing the cost of the entire Water Utility System, including distribution facilities and engineering fees for the Water Utility System. The cost certification shall include a breakdown between the various components showing the vendors and the applicable amounts. This written certification shall be delivered to the Utility at the Closing Date. Said Written Certification of Costs Form is attached hereto as <u>Exhibit</u> 11

10. <u>Water Utility System Contractor's and Contractor's Warranty</u>

10.1. The Utility must approve, in writing, prior to the commencement of any work, all contractors and subcontractors who will perform work on the installation of the water mains, services, and all other Water Utility System construction in the Subdivision.

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10.2. The Developer's contractors shall provide to the Utility a one-year warranty on all Water Utility System components and workmanship. This warranty shall begin from the date of issuance of the final engineering certification. Should the Closing not occur within 90 days of the final engineering certification, the Developer shall provide an extended warranty on the Water Utility System for each month not closed beginning 90 days from the date of the engineer's final certification. A sample warranty is

11. **CIAC Gross Up Payment**

attached hereto as EXHIBIT 10.2.

11.1. Prior to Closing, the Developer shall pay to Utility the Gross Up Payment attributable to all CIAC. Such amount shall be the product of multiplying the total amount of certification of costs pursuant to Section 9 of this Agreement by 29.65% (Certified Costs x 0.2965 = CIAC Gross Up Payment to Utility). The Parties acknowledge and agree that the formula utilized in this paragraph to determine the amount of CIAC tax due to Utility is based upon the Tax Cuts and Jobs Act of 2017 ("TCJA"). In the event that the TCJA is amended to provide a different formula, the new formula shall be applicable hereunder on the effective date of the new formula. The Closing shall not occur until the Developer pays the CIAC Gross Up Payment to Utility. If the Developer is constructing the Water Utility System in phases, then the requirements of this paragraph shall apply to the Closing for each phase.

11. **Date of Closing**

11.1. The Utility shall not provide water service to Subdivision until the date of the Closing when all the following events shall have occurred:

DWR has approved the Water Utility System plans. a.

The Developer has installed the Water Utility System pursuant to the DWR and the Utility approved b. plans.

The Commission has issued the Certificate as set forth in Paragraph 4. C.

As referenced in paragraph 5.2, Developer's engineer shall supply the Utility with an electronic copy of g, an accurate, comprehensive map and engineering record drawings in plan and profile as constructed ("asbuilts") and also a hard copy of the as-builts. The electronic version of the as-builts shall be submitted to the Utility in ".dwg" format and shall include pipe size, pipe material, pipe location, flow direction, date of install, service locations, meter box locations, and the longitude and latitude of each valve as set forth in paragraph 5.2.

h. The Developer shall furnish the Utility with a list of physical addresses and lot numbers for each lot in Subdivision. Said Address and Lot Number form is attached hereto as Exhibit 11.1.h.

i. The Developer shall furnish Utility with a recorded plat with such water utility service related covenants and restrictions acceptable to the Utility for all lots in the Subdivision as set forth in Paragraph

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j. The Developer's contractor has provided the Utility with a one year contractor's warranty on all water utility system components and workmanship pursuant to Paragraph 10.2.

k. The Developer has conveyed to the Utility by bill of sale and easements the water system as set forth in paragraph 3.2.

1. As referenced in Exhibit 11, the Developer delivers to the Utility a written certification of Developer's cost in the system pursuant to Paragraph 11.

m. As referenced in Paragraph 8.2, the Developer delivers to the Utility the W-9 form.

12. Binding Agreement

This Agreement shall be binding upon and shall inure to the benefit of the Developer and the Utility and the successors and assigns of each.

13. <u>Representations and Warranties of the Developer</u>

Developer hereby represents and warrants as follows:

13.1. <u>Organization: Good Standing: Power</u>. Developer is a corporation duly organized, validly existing, and in good standing under the laws of the State of North Carolina, and has all the requisite power and authority to own, lease and operate its properties, to carry on its business as now being conducted, and to enter into this Agreement and perform its obligations hereunder.

13.2. <u>Authority Relative to Agreement</u>. The execution, delivery and performance of this Agreement by the Developer have been duly and effectively authorized by all necessary action. This Agreement has been duly executed by Developer and is a valid and legally binding obligation of Developer enforceable in accordance with its terms except (i) as limited by (a) applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance, or other laws of general application relating to or affecting the enforcement of creditors' rights generally, (b) laws relating to the availability of specific performance, injunctive relief, or other equitable remedies, or (ii) to the extent the indemnification provisions may be limited by applicable federal or state securities laws.

13.3. <u>Effect of Agreement</u>. The execution, delivery and performance of this Agreement by the Developer and the consummation of the transactions contemplated hereby will not (i) require the consent, approval or authorization of any person, corporation, partnership, joint venture or other business association or public authority other than the Commission, DWR, or Wake County, (ii) violate, with or without the giving of notice or the passage of time or both, any provisions of law now applicable to Developer, or (iii) result in a violation of Developer's charter or bylaws.

14. <u>Representations and Warranties of the Utility</u>

The Utility hereby represents and warrants as follows:

14.1. Organization: Good Standing: Power. The Utility is a corporation duly organized, validly

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existing and in good standing under the laws of the State of North Carolina, is authorized to do business in North Carolina, and has all requisite corporate power and authority to own, lease and operate its properties, to carry on its business as now being conducted and to enter into this Agreement and perform its obligations hereunder.

14.2. <u>Authority Relative to Agreement</u>. The execution, delivery and performance of this Agreement by the Utility have been duly and effectively authorized by all necessary corporate action. This Agreement has been duly executed by the Utility and is a valid and legally binding obligation of the Utility enforceable in accordance with its terms except (i) as limited by (a) applicable bankruptcy, insolvency, reorganization, moratorium, fraudulent conveyance, or other laws of general application relating to or affecting the enforcement of creditors' rights generally, (b) laws relating to the availability of specific performance, injunctive relief, or other equitable remedies, or (ii) to the extent the indemnification provisions may be limited by applicable federal or state securities laws.

14.3. <u>Effect of Agreement</u>. The execution, delivery and performance of this Agreement by the Utility and the consummation of the transactions contemplated hereby will not (i) require the consent, approval or authorization of any person, corporation, partnership, joint venture or other business association or public authority other than the Commission, DWR, or Wake County, (ii) violate, with or without the giving of notice or the passage of time or both, any provisions of law now applicable to the Utility, or (iii) result in a violation of the Utility's charter or bylaws.

15. General Provisions

15.1. This writing embodies the entire agreement and understanding between the parties hereto and there are no other agreements or understandings, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby.

15.2. <u>Modification in Writing</u>. This Agreement shall not be modified, amended or changed in any respect except in writing, duly signed by the Parties hereto, and each Party hereby waives any right to amend this Agreement in any other way.

15.3. <u>No Assignment</u>, Neither Party hereto may assign their rights under this Agreement without the prior written consent of the other Party.

15.4. <u>No Third Party Beneficiary Rights</u>. Nothing expressed or referred to in this Agreement will be construed to give any person other than the Parties any legal of equitable right, remedy or claim under or with respect to this Agreement or any provision of this Agreement.

15.5. Force Majeure. Except as provided for in this Agreement, neither Party to this Agreement shall be liable to the other for failure, default or delay in performing any of its obligation hereunder, if such failure, default or delay is caused by strikes or other labor problems, by forces of nature, unavoidable accident, fire, acts of the public enemy, interference by civil authorities, acts or failure to act, decisions or orders or regulations of any governmental or military body or agency, office or commission, delays in

receipt of materials, or any other cause, whether of similar or dissimilar nature, not within the control of the Party affected and which, by the exercise of due diligence such Party is unable to prevent or overcome, except as otherwise provided for herein. Should any of the foregoing events occur, the Parties hereto agree to proceed with diligence to do what is reasonable and necessary so that each Party may perform its obligations under this Agreement.

15.6. <u>Enforcement of Agreement</u>. The failure of either Party hereto to enforce any of the provisions of this Agreement or the waiver thereof in any instance by either Party shall not be construed as a general waiver or relinquishment on its part of any such provisions, but the same shall, nevertheless, be and remain in full force and effect.

15.7. <u>Notices</u>. All notices, requests and other communications under this Agreement shall be in writing and shall be delivered (i) in person if a written receipt of delivery is obtained, (ii) by registered or certified mail, return receipt requested, (iii) by recognized overnight delivery service providing positive tracking of items (for example, Federal Express), (iv) by electronic mail, or (v) by facsimile, provided if notice is given pursuant to (iv) or (v) that a copy is sent concurrently by one of the methods described in (i), (ii) or (iii) above, addressed as follows or at such other address of which the Developer orf the Utility shall have given notice as herein provided:

If to Utility:	Old North State Water Company, LLC 3212 6 th Avenue South, Suite 200 Birmingham, AL 35222 Attn: John McDonald, Managing Member
Copy to:	Karen Kemerait. Fox Rothschild LLP
	434 Fayetteville Street, Suite 2800
	Raleigh, NC 27601
If to Developer:	Falls Lake Developers, LLC
-	7101 Creedmoor Rd, Ste 122
	Raleigh, NC 27613

17.8. <u>Incorporation of Exhibits</u>. The Exhibits to this Agreement are made a part hereof and are hereby incorporated in full by reference.

ITEMS 7 & 8 ATTACHMENT

17.9. <u>Governing Law</u>. This Agreement shall be governed by the laws of the State of North Carolina.

17.10. <u>Representations</u>, Warranties and <u>Obligations Survive Closing</u>. Except as may be expressly provided otherwise herein, the representations, warranties, and obligations contained herein shall merge with the documents delivered at Closing and not survive thereafter.

17.11. <u>Entire Agreement</u>. This Agreement sets forth the complete understanding between the Developer and the Utility, and any amendments hereto, to be effective, must be made in writing.

17.12. <u>Counterparts</u>. This Agreement may be executed in any number of counterparts, each of which will be deemed an original, but all of which together will constitute one and the same instrument.

17.13. <u>Consent to Jurisdiction</u>. The Parties agree that the state and federal courts of North Carolina shall have exclusive jurisdiction over this Agreement and any controversies arising out of, relating to, or referring to this Agreement, the formation of this Agreement, and actions undertaken by the Parties hereto as a result of this Agreement. Each of the Parties hereto expressly and irrevocably consents to the personal jurisdiction of such state and federal courts, agrees to accept service of process by mail, and expressly waives any jurisdictional or venue defenses otherwise available.

IN TESTIMONY WHEREOF, the Developer has caused this instrument to be executed by its manager authorized to execute contracts on behalf of the Developer, and the Utility has caused this instrument to be executed by its corporate officers authorized to execute and seal this contract on behalf of the corporation, the day and year first above written.

FALLS LAKE DEVELOPERS LLC

OLD NORTH-STATE WATER COMPANY, LLC John McDonald, Member

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Exhibit 3.2

STATE OF NORTH CAROLINA COUNTY OF WAKE

BILL OF SALE - WATER

KNOW ALL MEN BY THESE PRESENTS that FALLS LAKE DEVELOPERS (Seller), in return for valuable consideration received by the Seller from Old North State Water Company, LLC (Buyer), the sufficiency of which is hereby acknowledged, has bargained and sold and does by this instrument bargain, sell, and convey to the Buyer, its successors and assigns, the entire potable distribution system located in Falls Reserve Phase 4 Subdivision, Wake County, North Carolina, including, but not limited to distribution mains, valves, tees, ells, crosses, water main easements within publicly dedicated rights of way, and services, all property conveyed hereby being referred to as the Property.

To have and to hold the Property in fee simple.

IN TESTIMONY WHEREOF, the Seller has hereunto set his hand this the _____ day of _____ 2021.

[Notary Page for Bill of Sale – Falls Reserve Phase 4 Subdivision Water System]

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, the undersigned, a Notary Public of the County and State aforesaid, certify that Andrew Sandman, whose identity has been proven by satisfactory evidence, said evidence being:



I have personal knowledge of the identity of the principal(s)

I have seen satisfactory evidence of the principal's identity, by a current state or federal identification with the principal's photograph in the form of a _

A credible witness has sworn to the identity of the principal(s):

personally came before me this day and acknowledged that he, in such capacity and being authorized to do so, voluntarily executed the foregoing on behalf of the corporation for the purpose stated therein and in the capacity indicated.

		and	ر ما		
Witness my hand and	official stamp or seal this	22 0	day of	June	2021.
	`		•		

Notary Public Signature

Print Name: Laura M. My Commission Expires: 11-

[AFFIX NOTARY SEAL BELOW-NOTE THAT SEAL MUST BE FULLY LEGIBLE]







Civil Engineering | Construction Management | Land Planning

ITEMS 9 & 10 ATTACHMENT W-1300 SUB 83

> 221 N. SALEM ST, SUITE 200 PO BOX 1062 APEX, NC 27502 Office: 919-387-1174 Fax: 919-387-3375 www.jonescnossen.com

October 16, 2023

Jon Frazier, PE FLM Engineering PO Box 91727 Raleigh, North Carolina 27675

RE: Falls Reserve – Phase 4 Water Main Certification

Dear Mr. Frazier,

As the Engineer of Record for Falls Reserve-Phase 4, I hereby state that construction of the water main has been completed in general accordance with the approved Construction Drawings dated November 30, 2021. The certification is based on periodic inspection of the constructed improvements including review of the as-built survey data for the water main. If you have any questions or if we may be of further assistance, please feel free to contact our office at any time.

Regards

Peter D. Cnossen, PE Jones & Cnossen Engineering, PLLC



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[Notary Page for Bill of Sale - Falls Reserve Phase 4 Subdivision Water System]

STATE OF NORTH CAROLINA

COUNTY OF WAKE

I, the undersigned, a Notary Public of the County and State aforesaid, certify that Andrew Sandman, whose identity has been proven by satisfactory evidence, said evidence being:

I have personal knowledge of the identity of the principal(s)

I have seen satisfactory evidence of the principal's identity, by a current state or federal identification with the principal's photograph in the form of a ______

A credible witness has sworn to the identity of the principal(s);

personally came before me this day and acknowledged that he, in such capacity and being authorized to do so, voluntarily executed the foregoing on behalf of the corporation for the purpose stated therein and in the capacity indicated.

	and	
Witness my hand and official stamp or seal this	22 day of June 2	2021.

Notary Public Signature

Print Name: Laura M. My Commission Expires: 11

[AFFIX NOTARY SEAL BELOW-NOTE THAT SEAL MUST BE FULLY LEGIBLE]



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RE: DEVELOPER'S WRITTEN CERTIFICATION OF COSTS - WATER

Following is the information you requested for Falls Reserve Phase 4 Subdivision Water System which consist of 16 Lots.

- (1) Engineering
- (2) Water Mains & Services
- (3) Well Drilling & 24-hr Test
- (4) Well Houses
- (5) Meter
- (6) Supply Main
- (7) Air Compressor
- (8) Pump & Motor
- (9) Chemical Pumps
- (10) Tank and Installation
- (11) Filter System (if any)
- (12) Value of Well Lot
- (13) **TOTAL**

۰.

I certify the above represents the actual cost for installation of the water system for Falls Reserve Phase 4 Subdivision Water System.

Concerpont cr Crnor ٦. Printed Name Signature



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<u>Exhibit 11.1.h.</u>

List of Lot Numbers and Addresses Form Subdivision Name: Falls Lake Reserve Phase 4

Lot #	Address
73	7409 Summer Tanager Trail
74	7413 Summer Tanager Trail
75	7417 Summer Tanager Trail
76	7429 Summer Tanager Trail
77	7433 Summer Tanager Trail
78	7437 Summer Tanager Trail
79	7441 Summer Tanager Trail
80	7445 Summer Tanager Trail
81	7440 Summer Tanager Trail
82	7436 Summer Tanager Trail
83	7432 Summer Tanager Trail
84	7428 Summer Tanager Trail
85	7420 Summer Tanager Trail
86	7416 Summer Tanager Trail
87	7412 Summer Tanager Trail
88	7408 Summer Tanager Trail
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9/30/2023

ITEM 12 ATTACHMENT W-1300 SUB 83

<u> Vlar 28 2024</u>

Due from CN and CNH

Old North State Water Company, Inc. Balance Sheet September 2023 Internal use

Property, Plant and Equipment Accumulated Depreciation Property, Plant and Equipment, net

Current Assets

Cash Accounts receivable, net Prepaid expenses Total current assets

Other assets

Work in process Intangible assets Security deposits Deferred rate case Other assets Due from affiliates Total other assets

Total Assets

Paid in capital Retained earnings Current year loss Shareholder's Equity

Current Liabilities

Accounts payable Other current liabilities Total Current Liabilities

Long-Term Liabilities Due to affiliates Total Long-Term Liabilities

Contributions in Aid of Construction Cost of Assets Accumulated amortization Prepaid CIAC (utility) Total Contriutions in Aid of Construction

Total Shareholder's Equity and Liabilities

Old North State Water Company, Inc. Statement of Operations September 2023 Internal use

Operating Revenue

Operating Expense Operation and maintenance Taxes and licenses Depreciation Amortization Total Operating Expense

Operating Loss

Other Income (Expense) G&A expense Interest income Interest expense Total Other Income (Expense)

Net Loss

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2023 YTD

ITEM 12 ATTACHMENT W-1300 SUB 83

Legal expense reclassed from Operating to G&A

Interest on Bond LOC and Carolina Plantations note

Old North State Water Company, Inc. Statement of Cash Flows September 2023 Internal use

Cash Flows from Operating Activities

Net Loss Adjustments to reconcile change in net assets to net cash provided by operating activities: Depreciation Amortization-CIAC Changes in assets and liabilities that provided cash: Accounts receivable Prepaid expenses Security deposits Deferred rate case Due from affiliates Accounts payable Other current liabilites

Net cash provided by operating activities

Cash Flows from Investing Activities

Purchases of Property & Equipment Net cash provided by investing activities

Cash Flows from Financing Activities

Receipt of contributions in aid of construction Paid in capital Principal payment Advances for construction Net cash provided by financing activities

Net Increase in Cash and Cash Equivalents

Cash and cash equivalents, beginning of year

Cash and cash equivalents, end of year

ITEM 12 ATTACHMENT W-1300 SUB 83

2023 YTD

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