

August 9, 2010

Oliver Tolksdorf
Soil Scientist
Harnett County Health Department

Mr. Tolksdorf,

Enclosed is the information requested by Lorna Withrow for Antioch Baptist Church.
Please let me know if any additional information is needed. Thank you for your help.

Sincerely,
Lyle Hogue

Weekly Schedule

<u>Day</u>	<u>Event</u>	<u>Location</u>	<u>Time</u>	<u># Of People</u>
Sunday	Breakfast	Fellowship Hall	8:00 - 8:30 AM	75
	Early Service	Fellowship Hall	8:45 - 9:45 AM	150
	Sunday School	Church	9:45 - 10:45 AM	225
	Late Service	Sanctuary	10:50 - 12:00 AM	150
	AWANA	Church	5:00 - 7:00 PM	125
Monday	Meals On Wheels	Fellowship Hall	8:00 - 9:00 AM	3
	Bible Study	Fellowship Hall	10:00 - 12:00 AM	50
	Bible Study	Fellowship Hall	6:00 - 8:00 PM	12
Tuesday	Meals On Wheels	Fellowship Hall	8:00 - 9:00 AM	3
	Happy Travelers	Fellowship Hall	10:00 - 12:00 AM	75
	Bridge Builders	Fellowship Hall	7:00 - 9:00 PM	20
	Deacon's Meeting	Fellowship Hall	7:00 - 9:00 PM	15
Wednesday	Meals On Wheels	Fellowship Hall	8:00 - 9:00 AM	3
	Fellowship Meal	Fellowship Hall	5:00 - 6:30 PM	75
	Adult Bible Study	Fellowship Hall	6:30 - 7:30 PM	50
	Youth Bible Study	Basement	6:30 - 7:30 PM	50
	Children's Bible Study	Church	6:30 - 7:30 PM	50
	Adult Choir Practice	Church	7:30 - 8:30 PM	30
Thursday	Meals On Wheels	Fellowship Hall	8:00 - 9:00 AM	3
	Bible Study	Fellowship Hall	7:00 - 9:00 PM	20
	Praise Team Practice	Fellowship Hall	7:00 - 9:00 PM	10
Friday	Meals On Wheels	Fellowship Hall	8:00 - 9:00 AM	3
Saturday	Breakfast	Fellowship Hall	7:00 - 8:30 AM	25
	Youth Center	Basement	7:00 - 10:00 PM	35

Special Event Schedule

<u>Day</u>	<u>Event</u>	<u>Location</u>	<u>Time</u>	<u># Of People</u>
Sunday	Reunions	Fellowship Hall	12:30 - 2:30 PM	100
	Wedding/Baby Shower	Fellowship Hall	2:30 - 4:30 PM	150
Friday	Rehearsal Dinner	Fellowship Hall	6:00 - 8:30 PM	75
Saturday	Weddings	Church	2:00 - 4:00 PM	300
	Wedding Reception	Fellowship Hall	4:00 - 6:00 PM	150
Optional	Funerals	Church	1 Hour	250
	Bereavement Meal	Fellowship Hall	1½ Hours	100
Annual	Easter Eggstravaganza	Fellowship Hall	10:00 - 12:30 PM	150
	Vacation Bible School	Church	6:00 - 8:30 PM	200
	Back To School Blast	Fellowship Hall	10:00 - 2:00 PM	100
	Pumpkin Party	Fellowship Hall	6:00 - 8:00 PM	100
Twice/Year	Revival	Church	7:00 - 8:30 PM	150

Existing Facilities

Sanctuary/Educational Building (Sanctuary Capacity 360 People)
Choir Room
Classrooms Upper & Lower Level
Bathrooms

Fellowship Hall (Capacity 150 People)
Kitchen Area
Dining Area
Nursery
Secretary's Office
Upstairs Classroom
Upstairs Office
Bathrooms
Basement Youth Center

Proposed Multipurpose Building

Upper Level

Large Multipurpose Room for Early Morning Worship, Receptions, Meetings, Childrens' Programs and Etc.
Classrooms
Bathrooms

Lower Level

Gym with AWANA Squares, Basketball Goals and Walking Lane
Community Room
Classrooms
Kitchen Area
Small Multipurpose Room for Dining, Snacks, Bible Study and Etc.
Bathrooms

Connector Upper Level

Nursery
Classroom
Storage

Connector Lower Level

Youth Department
Classrooms
Office

Antioch Baptist Church

5-17-10

Life House

Flow rate data from First Baptist Church
Family Life Center Sanford N.C.

Sanford NC First Baptist Church
Family Life Center
Past 12mth Largest Demand

$$3430 \text{ cutt} \times 7.48 = 25,656 \text{ gallons}$$

30 Day use rate

$$\begin{aligned} 150460 - 148730 &= 1730 \text{ cutt} \times 7.48 \\ 30 \text{ Days} &= 12,940 \text{ gallons} \end{aligned}$$

Largest use month \div 30 Day Readings

$$25,656 \div 12,940 = 1.98$$

Greatest demand for 1090 of 30 day readings = 3 days

$$\frac{90 + 110 + 90}{3} = 96.66 \text{ cutt}$$

$$96.66 \times 7.48 = 723 \text{ gallons}$$

$$723 \times 1.98 = 1,431 \text{ gallons}$$

Sawford NE First Baptist Church

Cash per day

18730	148770	40	Thursday	4-15-10
	148830	60	Sat	4-17-10
	148910	80	Sun	4-18-10
	148960	50	Mon	4-19-10
	149120	50	Tues	4-20-10
	149210	(90)	Wed	4-21-10
	149270	60	Thu	4-22-10
	149340	70	Fri	4-23-10
	149360	20	Sat	4-24-10
	149410	50	Sun	4-25-10
	149440	30	Mon	4-26-10
	149490	50	Tues	4-27-10
	149570	80	Wed	4-28-10
	149610	40	Thu	4-29-10
	149660	50	Fri	4-30-10
	149720	60	Sat	5-1-10
	149770	50	Sun	5-2-10
	149810	40	Mon	5-3-10
	149860	50	Tue	5-4-10
	149970	(110)	Wed	5-5-10
	150020	50	Thu	5-6-10
	150080	60	Fri	5-7-10
	150080	0	Sat	5-8-10
	150110	30	Sun	5-9-10
	150170	60	Mon	5-10-10
	150240	70	Tue	5-11-10
	150330	(90)	Wed	5-12-10
	150370	40	Thu	5-13-10
	150420	50	Fri	5-14-10
	150460	40	Sat	5-15-10

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CITY OF SANFORD
U/B CONSUMPTION HISTORY REPORT

ACCOUNT #	CUSTOMER	NAME	PARCEL	LOCATION	STATUS
SERVICE	MAN METER #	CD READ DATE TIME	BY	USAGE REPL USAGE CHARGE AMT	BILLED AMT
122029	121434	FIRST BAPTIST CHURCH		205 GREEN ST	ACTIVE
102	-	1 WTR IN COM	BADG19745572	A 04/09/2010	583701 148,370 1,780 0 56.54 136.46
102	-	1 WTR IN COM	BADG19745572	A 03/11/2010	566709 146,590 3,430 0 96.80 250.81
102	-	1 WTR IN COM	BADG19745572	A 02/10/2010	549712 143,160 3,300 0 93.63 241.80
102	-	1 WTR IN COM	BADG19745572	A 01/08/2010	532696 139,860 2,620 0 77.04 194.68
102	-	1 WTR IN COM	BADG19745572	A 12/10/2009	515719 137,240 3,010 0 86.55 221.70
102	-	1 WTR IN COM	BADG19745572	A 11/09/2009	498741 134,230 2,860 0 82.89 211.30
102	-	1 WTR IN COM	BADG19745572	A 10/12/2009	481726 131,370 2,250 0 68.01 169.04
102	-	1 WTR IN COM	BADG19745572	A 09/09/2009	464739 129,120 1,480 0 49.22 115.67
102	-	1 WTR IN COM	BADG19745572	A 08/11/2009	447747 127,640 1,570 0 51.42 121.91
102	-	1 WTR IN COM	BADG19745572	A 07/09/2009	430720 126,070 1,400 0 44.71 102.94
102	-	1 WTR IN COM	BADG19745572	A 06/11/2009	413749 124,670 2,200 0 62.55 154.06
102	-	1 WTR IN COM	BADG19745572	A 05/12/2009	396662 122,470 2,140 0 61.21 150.22
102	-	1 WTR IN COM	BADG19745572	A 04/13/2009	379585 120,330 2,600 0 71.47 179.62
102	-	1 WTR IN COM	BADG19745572	A 03/12/2009	362544 117,730 3,290 0 86.86 223.71
102	-	1 WTR IN COM	BADG19745572	A 02/11/2009	345480 114,440 3,340 0 87.97 226.90
102	-	1 WTR IN COM	BADG19745572	A 01/12/2009	324136 111,100 2,320 0 65.23 161.73
102	-	1 WTR IN COM	BADG19745572	A 12/09/2008	306960 108,780 2,380 0 66.56 165.56
102	-	1 WTR IN COM	BADG19745572	A 11/07/2008	289906 106,400 2,400 0 67.01 166.84
102	-	1 WTR IN COM	BADG19745572	A 10/10/2008	272749 104,000 2,410 0 67.23 167.48
102	-	1 WTR IN COM	BADG19745572	A 09/11/2008	255639 101,590 1,940 0 56.75 137.44
102	-	1 WTR IN COM	BADG19745572	A 08/07/2008	238495 99,650 1,310 0 40.13 88.73
102	-	1 WTR IN COM	BADG19745572	A 07/09/2008	221405 98,340 1,580 0 45.59 104.21
102	-	1 WTR IN COM	BADG19745572	A 06/09/2008	204327 96,760 1,580 0 45.59 104.21
102	-	1 WTR IN COM	BADG19745572	A 05/09/2008	187221 95,180 1,690 0 47.81 110.51
102	-	1 WTR IN COM	BADG19745572	A 04/14/2008	170177 93,490 2,110 0 56.29 134.57
102	-	1 WTR IN COM	BADG19745572	A 03/13/2008	153145 91,380 2,790 0 70.03 173.54
102	-	1 WTR IN COM	BADG19745572	A 02/15/2008	136110 88,590 3,290 0 80.13 202.19
102	-	1 WTR IN COM	BADG19745572	A 01/16/2008	119127 85,300 2,790 0 70.03 173.54
102	-	1 WTR IN COM	BADG19745572	A 12/06/2007	105909 82,510 1,970 0 53.46 126.55
102	-	1 WTR IN COM	BADG19745572	A 11/07/2007	89096 80,540 2,240 0 58.92 142.02
102	-	1 WTR IN COM	BADG19745572	A 10/08/2007	72297 78,300 2,240 0 58.92 142.02
102	-	1 WTR IN COM	BADG19745572	A 09/05/2007	55542 76,060 1,460 0 43.16 97.33
102	-	1 WTR IN COM	BADG19745572	A 08/06/2007	38814 74,600 1,370 0 41.34 92.17
102	-	1 WTR IN COM	BADG19745572	A 07/03/2007	9475569 73,230 1,460 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 06/04/2007	9475568 71,770 1,590 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 05/02/2007	9475567 70,180 1,710 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 04/03/2007	9475566 68,470 2,270 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 03/02/2007	9475565 66,200 2,570 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 02/05/2007	9475564 63,630 3,040 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 01/04/2007	9475563 60,590 1,550 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 12/04/2006	9475562 59,040 1,840 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 11/02/2006	9475561 57,200 2,080 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 10/03/2006	9475560 55,120 1,540 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 09/06/2006	9475559 53,580 1,250 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 08/02/2006	9475558 52,330 1,110 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 07/04/2006	9475557 51,220 2,580 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 06/02/2006	9475556 48,640 1,280 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 05/02/2006	9475555 47,360 1,440 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 04/04/2006	9475554 45,920 2,170 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 03/02/2006	9475553 43,750 2,520 0 .00 .00
102	-	1 WTR IN COM	BADG19745572	A 02/02/2006	9475552 41,230 2,450 0 .00 .00

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CITY OF SANFORD
U/B CONSUMPTION HISTORY REPORT

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ACCOUNT #	SERVICE	CUSTOMER NAME	MAN METER #	CD	READ DATE	TIME	PARCEL BY	BILL #	CURR READ	LOCATION	USAGE	REPL	USAGE	CHARGE	AMT	STATUS	BILLED AMT
122029		121434	FIRST BAPTIST CHURCH							205 GREEN ST						ACTIVE	
102	-	1 WTR	IN COM	BADG19745572	A	01/04/2006		9475551	38,780		1,640		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	12/01/2005		9475550	37,140		1,870		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	11/02/2005		9475549	35,270		1,500		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	10/05/2005		9475548	33,770		1,360		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	09/07/2005		9475547	32,410		1,460		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	08/02/2005		9475546	30,950		1,190		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	07/05/2005		9475545	29,760		1,560		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	06/01/2005		9475544	28,200		1,190		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	05/03/2005		9475543	27,010		1,640		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	04/05/2005		9475542	25,370		1,940		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	03/02/2005		9475541	23,430		2,150		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	02/02/2005		9475540	21,280		2,230		0		.00		.00
102	-	1 WTR	IN COM	BADG19745572	A	01/04/2005		9475539	19,050		0		0		.00		.00

** END OF REPORT - Generated by Llinda Talley **

(1) Per 100 square feet of market floor space	50 gal
(2) Add per market employee	25 gal
Motels/Hotels	120 gal/room
With cooking facilities	175 gal/room
Offices (per shift)	25 gal/person
Residential Care Facilities	60 gal/person
Rest Homes and Nursing Homes	
With laundry	120 gal/bed
Without laundry	60 gal/bed
Schools	
Day Schools	
With cafeteria, gym, and showers	15 gal/student
With cafeteria only	12 gal/student
With neither cafeteria nor showers	10 gal/student
Boarding Schools	60 gal/person
Service Stations	250 gal/water closet or urinal
24-hour Service Stations	325 gal/water closet
Stores, Shopping Centers, and Malls (Exclusive of food service and meat markets)	120 gal/1000 ft ² of retail sales area
Stadium, Auditorium, Theater, Drive-in	5 gal/seat or space
Swimming Pools, Spas, and Bathhouses	10 gal/person

(c) An adjusted design daily sewage flow may be granted by the local health department upon a showing as specified in Subparagraphs (c)(1) through (c)(2) that a sewage system is adequate to meet actual daily water consumption from a facility included in Paragraph (b) of this Rule.

- (1) Documented data from that facility or a comparable facility justifying a flow rate reduction shall be submitted to the local health department and the State. The submitted data shall consist of at least 12 previous consecutive monthly total water consumption readings and at least 30 consecutive daily water consumption readings. The daily readings shall be taken during a projected normal or above normal sewage flow month. A peaking factor shall be derived by dividing the highest monthly flow as indicated from the 12 monthly readings by the sum of the 30 consecutive daily water consumption readings. The adjusted design daily sewage flow shall be determined by taking the numerical average of the greatest ten percent of the daily readings and multiplying by the peaking factor. Further adjustments shall be made in design sewage flow rate used for sizing nitrification fields and pretreatment systems when the sampled or projected wastewater characteristics exceed those of domestic sewage, such as wastewater from restaurants or meat markets.
- (2) An adjusted daily sewage flow rate may be granted contingent upon use of extreme water-conserving fixtures, such as toilets which use 1.6 gallons per flush or less, spring-loaded faucets with flow rates of one gallon per minute or less, and showerheads with flow rates of two gallons per minute or less. The amount of sewage flow rate reduction shall be determined by the local health department and the State based upon the type of fixtures and documentation of the amount of flow reduction to be expected from the proposed facility. Adjusted daily flow rates based upon use of water-conserving fixtures shall apply only to design capacity requirements of dosing and distribution systems and nitrification fields. Minimum pretreatment capacities shall be determined by the design flow rate of Table I of this Rule.

History Note: Authority G.S. 130A-335(e);
Eff. July 1, 1982;
Amended Eff. January 1, 1990; January 1, 1984.