

ORIGINAL

**Grand Terrace**

Docket No. 060368-WS

Application to Increase Rates and Charges  
For a "Class A" Utility  
In

Florida

**VOLUME 6**

**Book 7**

**Set 10 of 57**

Containing  
Additional Engineering Requirements

Monthly Operating Reports

Aqua Utilities Florida, Inc.

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COM \_\_\_\_\_

CTR \_\_\_\_\_

ECR 1 \_\_\_\_\_

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FPSC-COMMISSION CLERK

# Aqua Utilities Florida, Inc. Monthly Operating Reports

## Grand Terrace

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## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** January, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C: Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>	Temp of Water, °C if Applicable		
1	X	24.0	21,300		1.6							1.2	
2	X	24.0	35,100		1.5							1.0	
3	X	24.0	31,400		1.5								
4		24.0	28,250										
5	X	24.0	28,250		1.5							1.0	
6	X	24.0	29,800		1.5							1.0	
7	X	24.0	17,000		1.5							1.0	
8	X	24.0	23,400		1.7							1.2	
9	X	24.0	25,000		1.6							1.2	
10	X	24.0	27,900		1.7								
11		24.0	26,950										
12	X	24.0	26,950		1.7							1.3	
13	X	24.0	29,400		1.4							1.0	
14	X	24.0	23,500		1.6							1.1	
15	X	24.0	37,000		1.4							1.0	
16	X	24.0	29,100		1.8							1.4	
17		24.0	36,200										
18	X	24.0	36,200		1.6								
19	X	24.0	25,700		1.5							1.0	
20	X	24.0	29,500		1.4							0.8	
21	X	24.0	18,500		1.7							1.2	
22	X	24.0	32,800		1.5							1.0	
23	X	24.0	27,100		1.8							1.4	
24	X	24.0	25,800		1.6								
25		24.0	28,750										
26	X	24.0	28,750		1.8							1.4	
27	X	24.0	36,100		1.5							1.0	
28	X	24.0	24,200		1.5							1.0	
29	X	24.0	30,600		2.2							1.8	
30	X	24.0	20,900		2.0							1.7	
31		24.0	30,650										
<b>Total</b>			872,050										
<b>Average</b>			28,131										
<b>Maximum</b>			37,000										

\* Refer to the instructions for this report to determine which plants must provide this information.

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** February, 2004

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Florida Water Services		
Contact Person:	Craig Anderson	Contact Person's Title:	VP Environmental Services
Contact Person's Mailing Address:	P.O. Box 609520	City:	Orlando
		State:	Florida
		Zip Code:	32860-9520
Contact Person's Telephone Number:	(407) 598-4199	Contact Person's Fax Number:	(407) 598-4217
Contact Person's E-Mail Address:	craig@florida-water.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Brian Heath	C	5825	Days 1st Shift
	John Worell	C	6597	Days 1st Shift
	Gary Kissick	C	7846	Days 1st Shift
	Mike Ponticelli	C	8450	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

3/9/2004 0:00	Will Fontaine	C-6813
Signature and Date	Printed or Typed Name	License Number





## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** March, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>		
1	X	24.0	22,033		1.9							1.4	
2	X	24.0	30,900		1.8							1.4	
3	X	24.0	31,000		1.7							1.3	
4	X	24.0	36,900		1.7							1.3	
5	X	24.0	31,100		1.7							1.2	
6		24.0	37,600										
7	X	24.0	37,600		1.5								
8	X	24.0	41,100		1.5							1.0	
9	X	24.0	36,700		1.5							1.0	
10	X	24.0	44,400		1.5							1.0	
11	X	24.0	33,000		1.3							0.8	
12	X	24.0	40,500		1.3							0.8	
13	X	24.0	61,200		1.5								
14		24.0	77,450										
15	X	24.0	77,450		1.5							1.0	
16	X	24.0	37,900		2.1							1.7	
17	X	24.0	33,600		1.9							1.5	
18	X	24.0	45,100		1.7							1.3	
19	X	24.0	37,200		2.1							1.8	
20	X	24.0	53,500		1.7								
21		24.0	58,350										
22	X	24.0	58,350		1.5							1.0	
23	X	24.0	38,800		1.9							1.5	
24	X	24.0	49,600		2.2							1.8	
25	X	24.0	40,400		2.1							1.6	
26	X	24.0	47,100		1.5							1.0	
27	X	24.0	35,500		1.5								
28		24.0	63,700										
29	X	24.0	63,700		1.4							0.8	
30	X	24.0	45,200		1.4							0.8	
31	X	24.0	58,200		1.6							1.1	
<b>Total</b>			1,405,133										
<b>Average</b>			45,327										
<b>Maximum</b>			77,450										

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** April, 2004

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	112	Total Population Served at End of Month:	262
PWS Owner:	Florida Water Services		
Contact Person:	Craig Anderson	Contact Person's Title:	VP Environmental Services
Contact Person's Mailing Address:	P.O. Box 609520	City:	Orlando
		State:	Florida
		Zip Code:	32860-9520
Contact Person's Telephone Number:	(407) 598-4199	Contact Person's Fax Number:	(407) 598-4217
Contact Person's E-Mail Address:	craig@florida-water.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Brian Heath	C	5825	Days 1st Shift
	John Worell	C	6597	Days 1st Shift
	Gary Kissick	C	7846	Days 1st Shift
	Adam Michaelsen		Trainee	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	<u>5/7/2004 0:00</u>	Printed or Typed Name	<u>Will Fontaine</u>	License Number	<u>C-6813</u>
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**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identification Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** April, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*										Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations					UV Dose							
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Minimum CT Required, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>				
1	X	24.0	53,800		1.4										1.0	
2	X	24.0	65,000		1.4										1.1	
3	X	24.0	47,400		1.5											
4		24.0	64,150													
5	X	24.0	64,150		1.4										0.8	
6	X	24.0	92,100		1.4										0.8	
7	X	24.0	67,200		1.4										0.9	
8	X	24.0	46,000		1.4										0.8	
9	X	24.0	47,300		1.3										0.8	
10	X	24.0	64,000		1.6											
11		24.0	49,300													
12	X	24.0	49,300		1.6										1.1	
13	X	24.0	37,700		1.6										1.1	
14	X	24.0	36,600		2.0										1.6	
15	X	24.0	30,100		2.0										1.6	
16	X	24.0	53,100		1.4										0.8	
17	X	24.0	64,100		1.6											
18		24.0	67,450													
19	X	24.0	67,450		1.4										0.8	
20	X	24.0	70,300		1.3										0.8	
21	X	24.0	70,400		1.3										0.8	
22	X	24.0	62,900		1.4										0.9	
23	X	24.0	61,000		1.7										1.2	
24	X	24.0	73,700		1.7											
25		24.0	69,450													
26	X	24.0	69,450		1.7										1.2	
27	X	24.0	57,300		1.6										1.1	
28	X	24.0	62,600		1.7										1.1	
29	X	24.0	75,100		1.7										1.2	
30	X	24.0	63,300		1.6										1.0	
<b>Total</b>			1,801,700													
<b>Average</b>			60,057													
<b>Maximum</b>			92,100													

\* Refer to the instructions for this report to determine which plants must provide this information.

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** May, 2004

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	111	Total Population Served at End of Month:	260
PWS Owner:	Florida Water Services		
Contact Person:	Craig Anderson	Contact Person's Title:	VP Environmental Services
Contact Person's Mailing Address:	P.O. Box 609520	City:	Orlando
		State:	Florida
		Zip Code:	32860-9520
Contact Person's Telephone Number:	(407) 598-4199	Contact Person's Fax Number:	(407) 598-4217
Contact Person's E-Mail Address:	craig@florida-water.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C
<b>Licensed Operators</b>	<b>Name</b>	<b>License Class</b>	<b>License Number</b>
<b>Lead/Chief Operator:</b>	Will Fontaine	C	6813
			Days 1st Shift
<b>Other Operators:</b>	Brian Heath	C	5825
	John Worcell	C	6597
	Gary Kissick	C	7846
	Adam Michaelsen		Trainee
			Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date: 6/8/2004 0:00 Printed or Typed Name: Will Fontaine License Number: C-6813

## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/Year of: May, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations				UV Dose						
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>			Minimum UV Dose Required, mW-sec/cm <sup>2</sup>
1	X	24.0	52,100		1.5									
2		24.0	41,800											
3	X	24.0	41,800		1.5								1.0	
4	X	24.0	44,200		1.7								1.2	
5	X	24.0	49,000		2.0								1.5	
6	X	24.0	42,100		1.5								1.0	
7	X	24.0	50,700		1.5								1.0	
8	X	24.0	26,700		1.6									
9		24.0	77,350											
10	X	24.0	77,350		1.3								0.8	
11	X	24.0	55,300		1.7								1.2	
12	X	24.0	46,900		1.6								1.0	
13	X	24.0	35,200		1.7								1.3	
14	X	24.0	65,400		1.5								1.0	
15	X	24.0	56,300		1.4									
16		24.0	54,750											
17	X	24.0	54,750		1.4								0.8	
18	X	24.0	33,700		1.3								0.8	
19	X	24.0	43,800		1.4								0.9	
20	X	24.0	39,000		1.7								1.2	
21	X	24.0	50,200		1.4								0.9	
22	X	24.0	52,700		1.5									
23		24.0	55,000											
24	X	24.0	55,000		1.7								1.2	
25	X	24.0	57,800		1.5								1.0	
26	X	24.0	59,400		1.8								1.4	
27	X	24.0	76,600		1.6								1.1	
28	X	24.0	68,800		1.6								1.1	
29	X	24.0	84,300		1.5									
30		24.0	62,500											
31	X	24.0	62,500		1.5								1.0	
<b>Total</b>			1,673,000											
<b>Average</b>			53,968											
<b>Maximum</b>			84,300											

\* Refer to the instructions for this report to determine which plants must provide this information.

# MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** June, 2004

**A. Public Water System (PWS) Information**

PWS Name: Grand Terrace		PWS Identification Number: 3354697	
PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community		<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month: 110		Total Population Served at End of Month: 257	
PWS Owner: Florida Water Services			
Contact Person: Craig Anderson		Contact Person's Title: VP Environmental Services	
Contact Person's Mailing Address: P.O. Box 609520		City: Orlando	State: Florida
Contact Person's Telephone Number: (407) 598-4199		Contact Person's Fax Number: (407) 598-4217	
Contact Person's E-Mail Address: craiga@florida-water.com			

**B. Water Treatment Plant Information**

Plant Name: Grand Terrace		Plant Telephone Number: 352-787-0980		
Plant Address: 36345 Terra Court		City: Eustis	State: Florida	
Type of Water Treatment by Plant: <input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water				
Permitted Maximum Day Operating Capacity of Plant, gallons per day: 432,000				
Plant Category (per subsection 62-699.310(4), F.A.C.): V		Plant Class (per subsection 62-699.310(4), F.A.C.): C		
Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Brian Heath	C	5825	Days 1st Shift
	John Worell	C	6597	Days 1st Shift
	Gary Kissick	C	7846	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

	Will Fontaine	C-6813
Signature and Date	Printed or Typed Name	License Number

MONTHLY OPERATION REPORT FOR PW'SS TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/Year of: June, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal	Peak Flow Rate, gpd	Lowest Residual Disinfectant Concentration (C) During Peak Flow, mg/L	Disinfectant Contact Time Before or at Customer First	Disinfectant Provided Before or at Customer First	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Operating UV Dose, mW-sec/cm <sup>2</sup>	Lowest UV Dose Required, mW-sec/cm <sup>2</sup>	Emergency or Abnormal Operating Conditions, Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*			CT Calculations			
													UV Dose	UV Dose	UV Dose	Peak Flow, mg/L	Customer During Peak Flow, minutes	Point During Peak Flow, mg-min/L	Temp of Water, °C
1	X	24.0	104,100	1.4								0.8							
2	X	24.0	69,000	1.4								0.8							
3	X	24.0	57,700	1.4								0.8							
4	X	24.0	36,200	1.4								0.9							
5	X	24.0	22,800	1.3															
6		24.0	44,550																
7	X	24.0	44,550	1.3								0.8							
8	X	24.0	29,000	1.3								0.8							
9	X	24.0	26,000	1.7								1.2							
10	X	24.0	38,300	1.5								1.2							
11	X	24.0	33,000	1.5								1.2							
12	X	24.0	49,200	1.5															
13		24.0	39,100																
14	X	24.0	39,100	1.5								1.0							
15	X	24.0	29,500	1.9								1.5							
16	X	24.0	30,400	1.7								1.2							
17	X	24.0	42,900	1.7								1.2							
18	X	24.0	38,900	1.5								1.0							
19		24.0	48,750																
20	X	24.0	48,750	1.5															
21	X	24.0	34,200	1.5								1.0							
22	X	24.0	38,600	1.5								1.0							
23	X	24.0	41,700	1.5								1.0							
24	X	24.0	38,200	1.7								1.2							
25	X	24.0	41,100	1.5								1.1							
26	X	24.0	47,500	1.3															
27		24.0	38,550																
28	X	24.0	38,550	1.3								0.8							
29	X	24.0	30,400	1.3								0.8							
30	X	24.0	66,700	1.4								1.1							
Total		1,287,300																	
Average		42,910																	
Maximum		104,100																	

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** July, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*										Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation		
				CT Calculations					UV Dose								
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L.	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L.	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L.	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>					
1	X	24.0	28,900		1.3										1.0		
2	X	24.0	61,600		1.3										1.0		
3		24.0	30,800														
4	X	24.0	30,800		1.2												
5	X	24.0	44,600		1.3										1.0		
6	X	24.0	48,400		1.3										1.0		
7	X	24.0	40,200		1.2										0.9		
8	X	24.0	39,600		1.3										1.0		
9	X	24.0	44,700		1.2										0.8		
10	X	24.0	31,400		1.4												
11		24.0	45,350														
12	X	24.0	45,350		1.1										0.8		
13	X	24.0	42,700		1.1										0.9		
14	X	24.0	38,500		1.4										1.1		
15	X	24.0	42,700		1.4										1.1		
16	X	24.0	62,600		1.6										1.2		
17	X	24.0	46,800		1.5												
18		24.0	48,950														
19	X	24.0	48,950		1.3										1.0		
20	X	24.0	26,400		1.3										1.1		
21	X	24.0	34,000		1.2										0.9		
22	X	24.0	34,200		1.4										1.1		
23	X	24.0	38,500		1.4										1.0		
24	X	24.0	37,400		1.3												
25		24.0	40,400														
26	X	24.0	40,400		1.0										0.8		
27	X	24.0	28,200		1.6										1.2		
28	X	24.0	32,100		2.2										1.8		
29	X	24.0	28,100		2.2										1.9		
30	X	24.0	28,700		0.8										0.6		
31	X	24.0	34,300		1.0												
<b>Total</b>			1,191,300														
<b>Average</b>			39,710														
<b>Maximum</b>			62,600														

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** August, 2004

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	2315 Griffin Road	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aquaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Brian Heath	C	5825	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

\_\_\_\_\_  
Signature and Date

Will Fontaine  
\_\_\_\_\_  
Printed or Typed Name

C-6813  
\_\_\_\_\_  
License Number

## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** August, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*							Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out-of-Operation	
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C if Applicable	pH of Water, if Applicable	Minimum CT Required, mg-min/L			Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>
1		24.0	29,700										
2	X	24.0	29,700		0.8							0.6	
3	X	24.0	37,100		1.0							0.7	
4	X	24.0	26,600		1.1							0.8	
5	X	24.0	34,700		0.9							0.7	
6	X	24.0	31,700		1.4							1.1	
7	X	24.0	25,400		1.4								
8		24.0	33,850										
9	X	24.0	33,850		0.7							0.5	
10	X	24.0	30,900		1.4							0.5	
11	X	24.0	35,200		1.8							1.4	
12	X	24.0	25,000		1.6							1.4	
13	X	24.0	26,100		1.6							1.3	
14	X	24.0	29,400		1.7							1.3	
15		24.0	27,500										
16	X	24.0	27,500		1.6							1.2	
17	X	24.0	27,200		1.6							1.4	
18	X	24.0	32,000		1.7							1.5	
19	X	24.0	21,500		1.8							1.5	
20	X	24.0	22,400		1.2							1.0	
21	X	24.0	23,400		0.7							0.7	
22		24.0	34,700										
23	X	24.0	34,700		1.3							0.9	
24	X	24.0	33,000		1.6							1.4	
25	X	24.0	28,300		0.9							0.7	
26	X	24.0	20,800		1.0							0.6	
27	X	24.0	25,100		1.0							0.7	
28	X	24.0	23,300		1.0								
29		24.0	34,500										
30	X	24.0	34,500		1.1							0.8	
31	X	24.0	28,200		1.0							0.8	
<b>Total</b>			879,600										
<b>Average</b>			29,320										
<b>Maximum</b>			37,100										

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identificaion Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** September, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*										Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations					UV Dose						
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>	Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L		
1	X	24.0	32,200		1.0									0.6	
2	X	24.0	23,800		1.0									0.7	
3	X	24.0	35,500		1.2									0.9	
4	X	24.0	27,900		1.5										
5		24.0	16,650												
6	X	24.0	16,650		1.1									0.8	
7	X	24.0	29,600		2.0									1.8	
8	X	24.0	37,000		1.6									1.4	
9	X	24.0	34,400		0.8									0.6	
10	X	24.0	29,100		1.5									1.0	
11	X	24.0	24,900		1.2										
12		24.0	29,450												
13	X	24.0	29,450		1.0									0.6	
14	X	24.0	23,200		0.9									0.5	
15	X	24.0	26,100		1.0									0.6	
16	X	24.0	23,200		1.0									0.7	
17	X	24.0	27,900		1.0									1.0	
18	X	24.0	19,600		1.4										
19		24.0	34,300												
20	X	24.0	34,300		1.5									1.1	
21	X	24.0	25,200		1.4									1.1	
22	X	24.0	22,500		1.6									1.3	
23	X	24.0	27,900		2.0									1.6	
24	X	24.0	23,500		1.6									1.5	
25	X	24.0	32,000		1.7										
26		24.0	33,350												
27	X	24.0	33,350		2.1									1.7	
28	X	24.0	24,500		2.2									2.2	
29	X	24.0	34,400		1.6									1.5	
30	X	24.0	26,800		1.4									1.2	
31		24.0													

Total	838,700
Average	27,957
Maximum	37,000

\* Refer to the instructions for this report to determine which plants must provide this information.

# MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** October, 2004

**A. Public Water System (PWS) Information**

PWS Name: Grand Terrace		PWS Identification Number: 3354697	
PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community		<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month: 110		Total Population Served at End of Month: 257	
PWS Owner: Aqua Utilities Florida			
Contact Person: Brian Heath		Contact Person's Title: Area Manager	
Contact Person's Mailing Address: 2315 Griffin Road		City: Leesburg	State: Florida
		Zip Code: 34748	
Contact Person's Telephone Number: (352) 787-0980		Contact Person's Fax Number: (352) 787-6333	
Contact Person's E-Mail Address: <a href="mailto:beheath@aquaaamerica.com">beheath@aquaaamerica.com</a>			

**B. Water Treatment Plant Information**

Plant Name: Grand Terrace		Plant Telephone Number: 352-787-0980	
Plant Address: 36345 Terra Court		City: Eustis	State: Florida
		Zip Code: 32726	
Type of Water Treatment by Plant: <input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water			
Permitted Maximum Day Operating Capacity of Plant, gallons per day: 432,000			
Plant Category (per subsection 62-699.310(4), F.A.C.): V		Plant Class (per subsection 62-699.310(4), F.A.C.): C	
Licensed Operators	Name	License Class	License Number / Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813 / Days 1st Shift
Other Operators:	Marty Neal	C	10027 / Days 1st Shift
	John Worell	C	6597 / Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	Will Fontaine Printed or Typed Name	C-6813 License Number
--------------------	--	--------------------------

## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/Year of: October, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>		
1	X	24.0	27,500		1.1							0.8	
2	X	24.0	21,600		1.3								
3		24.0	34,950										
4	X	24.0	34,950		1.1							0.6	
5	X	24.0	32,300		1.4							8.0	
6	X	24.0	28,100		0.7							0.6	
7	X	24.0	22,500		1.5							1.1	
8	X	24.0	30,900		1.2							1.1	
9	X	24.0	33,500		1.3								
10		24.0	36,050										
11	X	24.0	36,050		1.1							0.7	
12	X	24.0	25,700		1.3							0.6	
13	X	24.0	21,800		1.4							0.9	
14	X	24.0	24,600		1.3							0.8	
15	X	24.0	32,200		1.2							0.8	
16	X	24.0	16,100		1.2								
17		24.0	29,250										
18	X	24.0	29,250		1.3							0.9	
19	X	24.0	29,900		1.4							0.9	
20	X	24.0	25,000		1.5							1.0	
21	X	24.0	20,800		1.3							0.9	
22	X	24.0	20,100		1.2							0.7	
23		24.0	26,500										
24	X	24.0	26,500		1.3								
25	X	24.0	26,200		1.4							1.0	
26	X	24.0	25,700		1.4							0.8	
27	X	24.0	22,700		1.4							0.8	
28	X	24.0	8,300		1.1							1.2	
29	X	24.0	102,200		0.9							1.0	
30	X	24.0	32,900		1.3								
31	X	24.0	36,300										
<b>Total</b>			920,400										
<b>Average</b>			29,690										
<b>Maximum</b>			102,200										

\* Refer to the instructions for this report to determine which plants must provide this information.



## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** November, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations				UV Dose						
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>			Minimum UV Dose Required, mW-sec/cm <sup>2</sup>
1	X	24.0	36,300		1.4								0.9	
2	X	24.0	31,800		0.8								1.0	
3	X	24.0	25,200		1.2								0.5	
4	X	24.0	36,700		1.4								1.3	
5	X	24.0	29,900		1.2								0.8	
6	X	24.0	33,300		1.3									
7		24.0	30,700											
8	X	24.0	30,700		1.3								0.8	
9	X	24.0	28,500		1.7								1.2	
10	X	24.0	26,200		1.8								1.2	
11	X	24.0	24,700		1.8								1.3	
12	X	24.0	32,400		1.5								1.3	
13	X	24.0	21,600		1.6									
14		24.0	66,850											
15	X	24.0	66,850		0.8								1.0	
16	X	24.0	20,700		2.0								1.5	
17	X	24.0	33,000		1.9								1.5	
18	X	24.0	20,100		1.7								1.2	
19	X	24.0	29,500		1.6								1.3	
20	X	24.0	20,000		1.7									
21		24.0	37,300											
22	X	24.0	37,300		1.6								1.0	
23	X	24.0	27,000		1.6								1.1	
24	X	24.0	26,300		1.5								1.1	
25	X	24.0	27,700		1.6								1.0	
26	X	24.0	29,300		1.6								1.2	
27	X	24.0	30,700		1.6									
28		24.0	23,150											
29	X	24.0	23,150		1.4								1.0	
30	X	24.0	26,100		1.4								0.9	
31		24.0												
<b>Total</b>			933,000											
<b>Average</b>			30,097											
<b>Maximum</b>			66,850											

\* Refer to the instructions for this report to determine which plants must provide this information.





## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/Year of: December, 2004

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>			
1	X	24.0	24,700		1.4							0.8	
2	X	24.0	29,100		1.5							0.8	
3	X	24.0	25,800		1.5							1.0	
4	X	24.0	20,700		1.5								
5		24.0	33,050										
6	X	24.0	33,050		1.5							1.0	
7	X	24.0	23,400		1.4							0.9	
8	X	24.0	27,000		1.5							0.9	
9	X	24.0	27,900		1.7							1.1	
10	X	24.0	26,000		1.5							1.0	
11	X	24.0	23,300		1.5								
12		24.0	30,500										
13	X	24.0	30,500		1.5							1.0	
14	X	24.0	28,000		1.4							1.0	
15	X	24.0	25,300		1.6							1.1	
16	X	24.0	25,000		1.4							1.0	
17	X	24.0	24,200		1.1							0.9	
18	X	24.0	21,000		1.3								
19		24.0	30,050										
20	X	24.0	30,050		1.2							0.9	
21	X	24.0	28,600		1.7							1.0	
22	X	24.0	25,900		1.3							0.8	
23	X	24.0	26,400		1.5							0.9	
24	X	24.0	21,800		1.4							0.9	
25		24.0	23,600										
26	X	24.0	23,600		1.4								
27	X	24.0	28,200		1.3							0.8	
28	X	24.0	29,900		1.3							0.9	
29	X	24.0	26,500		1.4							0.9	
30	X	24.0	26,500		1.2							0.8	
31	X	24.0	25,100		1.2							0.9	
Total			824,700										
Average			26,603										
Maximum			33,050										

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PW'SS TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/Year of: January, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  Ultraviolet Radiation

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Days Plant Started or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal	Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at first Measurement Point During Peak Flow, mg/L	Disinfectant Contact Time (T) at C	Lowest CT Before or at First Customer Point During Peak Flow, mg-minutes	Temp of Water, °C if Applicable	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest UV Dose, mW-sec/cm <sup>2</sup>	UV Dose Required, mW-sec/cm <sup>2</sup>	Remote Point in Distribution System, mg/L	CT Calculations, if Applicable*	
													UV Dose	UV Dose
1	X	24.0	31,600	1.3										
2	X	24.0	30,500	1.4										
3	X	24.0	30,500	1.4										
4	X	24.0	28,000	1.4										
5	X	24.0	25,200	1.4										
6	X	24.0	20,700	1.5										
7	X	24.0	31,800	1.5										
8	X	24.0	35,400	1.5										
9		24.0	29,850											
10	X	24.0	29,850	1.4										
11	X	24.0	29,850	1.4										
12	X	24.0	23,000	1.3										
13	X	24.0	28,200	1.4										
14	X	24.0	20,100	1.4										
15	X	24.0	21,400	1.3										
16		24.0	24,800											
17	X	24.0	24,800	1.1										
18	X	24.0	41,100	1.3										
19	X	24.0	27,600	2.1										
20	X	24.0	22,500	1.7										
21	X	24.0	27,200	1.4										
22	X	24.0	33,800	1.6										
23		24.0	22,750											
24	X	24.0	22,750	1.6										
25	X	24.0	25,000	1.5										
26	X	24.0	23,200	1.5										
27	X	24.0	24,600	1.4										
28	X	24.0	24,000	1.2										
29	X	24.0	30,700	1.3										
30		24.0	32,150											
31	X	24.0	32,150	1.3										
Total		850,100												
Average		27.423												
Maximum		41.100												

\* Refer to the instructions for this report to determine which plants must provide this information.

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** February, 2005

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community <input type="checkbox"/> Consecutive		
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	385
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	PO Box 490310	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aquaaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	Will Fontaine Printed or Typed Name	C-6813 License Number
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## MONTHLY OPERATION REPORT FOR PW"Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** February, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*							Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions, Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L			Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>
1	X	24.0	24,800		1.3							0.9	
2	X	24.0	24,000		1.2							0.7	
3	X	24.0	18,500		1.7							1.3	
4	X	24.0	25,200		1.5							1.2	
5	X	24.0	24,700		1.5								
6		24.0	27,950										
7	X	24.0	27,950		1.7							1.2	
8	X	24.0	23,500		1.5							1.1	
9	X	24.0	24,700		1.5							1.2	
10	X	24.0	26,200		1.3							1.0	
11	X	24.0	25,200		1.4							1.0	
12	X	24.0	26,700		1.3								
13		24.0	33,300										
14	X	24.0	33,300		1.4							1.0	
15	X	24.0	24,100		1.4							1.0	
16	X	24.0	28,700		1.6							1.1	
17	X	24.0	31,500		1.6							1.2	
18	X	24.0	29,600		1.5							1.3	
19	X	24.0	26,600		1.5								
20		24.0	46,150										
21	X	24.0	46,150		1.6							1.2	
22	X	24.0	39,700		1.5							1.2	
23	X	24.0	28,500		1.5							1.0	
24	X	24.0	26,900		1.4							1.0	
25	X	24.0	30,700		1.3							0.8	
26		24.0	30,000										
27	X	24.0	30,000		1.3								
28	X	24.0	31,500		1.3							0.9	
29		24.0											
30		24.0											
31		24.0											
<b>Total</b>			816,100										
<b>Average</b>			26,326										
<b>Maximum</b>			46,150										

\* Refer to the instructions for this report to determine which plants must provide this information.

# MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** March, 2005

**A. Public Water System (PWS) Information**

PWS Name: Grand Terrace		PWS Identification Number: 3354697	
PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community		<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month: 110		Total Population Served at End of Month: 385	
PWS Owner: Aqua Utilities Florida			
Contact Person: Brian Heath		Contact Person's Title: Area Manager	
Contact Person's Mailing Address: PO Box 490310		City: Leesburg	State: Florida
Contact Person's Telephone Number: (352) 787-0980		Zip Code: 34748	
Contact Person's E-Mail Address: beheath@aquaaamerica.com		Contact Person's Fax Number: (352) 787-6333	

**B. Water Treatment Plant Information**

Plant Name: Grand Terrace		Plant Telephone Number: 352-787-0980		
Plant Address: 36345 Terra Court		City: Eustis	State: Florida	
Type of Water Treatment by Plant: <input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		Zip Code: 32726		
Permitted Maximum Day Operating Capacity of Plant, gallons per day: 432,000				
Plant Category (per subsection 62-699.310(4), F.A.C.): V		Plant Class (per subsection 62-699.310(4), F.A.C.): C		
Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	Will Fontaine Printed or Typed Name	C-6813 License Number
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**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** March, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*							Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C if Applicable	pH of Water, if Applicable	Minimum CT Required, mg-min/L			Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>
1	X	24.0	25,100		1.5							1.0	
2	X	24.0	29,100		2.0							1.6	
3	X	24.0	26,500		1.6							1.4	
4	X	24.0	23,600		1.6							1.3	
5	X	24.0	25,400		1.5								
6		24.0	35,700										
7	X	24.0	35,700		1.1							1.3	
8	X	24.0	32,600		1.8							1.3	
9	X	24.0	26,100		1.6							1.2	
10	X	24.0	26,700		1.7							1.3	
11	X	24.0	24,500		1.3							1.1	
12	X	24.0	24,100		1.5								
13		24.0	41,150										
14	X	24.0	41,150		1.6							1.2	
15	X	24.0	31,800		1.3							1.0	
16	X	24.0	22,200		1.9							1.2	
17	X	24.0	27,400		1.7							1.4	
18	X	24.0	31,600		1.6							1.2	
19	X	24.0	19,200		1.4								
20		24.0	38,950										
21	X	24.0	38,950		1.3							1.1	
22	X	24.0	26,700		1.3							1.0	
23	X	24.0	24,900		1.5							1.1	
24	X	24.0	26,400		1.4							1.2	
25	X	24.0	31,500		1.4							1.0	
26	X	24.0	25,200		1.3								
27		24.0	31,750										
28	X	24.0	31,750		1.6							1.2	
29	X	24.0	33,600		2.0							1.3	
30	X	24.0	41,700		1.8							1.5	
31	X	24.0	30,500		1.6							1.2	
<b>Total</b>			931,500										
<b>Average</b>			30,048										
<b>Maximum</b>			41,700										

\* Refer to the instructions for this report to determine which plants must provide this information.





## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** April, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demstrate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations				UV Dose						
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>			Minimum UV Dose Required, mW-sec/cm <sup>2</sup>
1	X	24.0	30,200		1.6								1.1	
2	X	24.0	30,400		1.5									
3		24.0	33,900											
4	X	24.0	33,900		1.6								1.1	
5	X	24.0	33,700		1.4								1.3	
6	X	24.0	31,700		1.5								1.3	
7	X	24.0	33,100		1.4								0.8	
8	X	24.0	24,400		1.0								0.7	
9		24.0	35,000											
10	X	24.0	35,000		1.5									
11	X	24.0	42,500		1.5								1.0	
12	X	24.0	40,600		1.4								1.0	
13	X	24.0	34,300		1.6								1.1	
14	X	24.0	33,100		0.7								0.8	
15	X	24.0	36,300		1.6								1.0	
16	X	24.0	28,800		1.5									
17		24.0	46,100											
18	X	24.0	46,100		1.5								1.1	
19	X	24.0	56,600		1.6								1.1	
20	X	24.0	44,700		1.6								1.1	
21	X	24.0	42,300		1.5								1.0	
22	X	24.0	40,500		1.4								1.0	
23	X	24.0	50,100		1.4									
24		24.0	34,700											
25	X	24.0	34,700		1.2								0.7	
26	X	24.0	27,400		1.5								0.8	
27	X	24.0	23,200		2.0								1.1	
28	X	24.0	25,200		2.0								1.4	
29	X	24.0	28,700		1.6								1.2	
30	X	24.0	32,200		1.6									
31		24.0												
<b>Total</b>			1,069,400											
<b>Average</b>			34,497											
<b>Maximum</b>			56,600											

\* Refer to the instructions for this report to determine which plants must provide this information.



## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** May, 2005

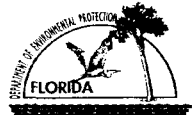
Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions, Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>		
1		24.0	37,700										
2	X	24.0	37,700		1.6							1.2	
3	X	24.0	38,500		1.5							1.0	
4	X	24.0	29,300		1.6							1.1	
5	X	24.0	23,900		1.5							1.3	
6	X	24.0	18,800		1.2							0.9	
7	X	24.0	22,300		1.5								
8		24.0	35,200										
9	X	24.0	35,200		1.6							1.0	
10	X	24.0	31,800		1.7							1.3	
11	X	24.0	34,800		1.8							1.4	
12	X	24.0	26,800		1.2							0.9	
13	X	24.0	28,200		0.7							0.9	
14	X	24.0	28,200		1.5								
15		24.0	44,100										
16	X	24.0	44,100		1.3							0.9	
17	X	24.0	35,000		1.5							1.0	
18	X	24.0	23,400		1.5							1.1	
19	X	24.0	33,100		1.5							1.2	
20	X	24.0	40,700		1.4							1.0	
21	X	24.0	35,800		1.5								
22		24.0	42,400										
23	X	24.0	42,400		1.4							1.0	
24	X	24.0	37,600		1.2							0.7	
25	X	24.0	38,000		1.2							0.8	
26	X	24.0	43,300		1.4							0.8	
27	X	24.0	36,300		1.4							1.0	
28	X	24.0	33,100		1.5								
29		24.0	41,600										
30	X	24.0	41,600		1.4							1.0	
31	X	24.0	55,900		1.2							0.7	
Total			1,096,800										
Average			35,381										
Maximum			55,900										

\* Refer to the instructions for this report to determine which plants must provide this information.

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** June, 2005

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	PO Box 490310	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aquaaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worcell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

_____ Signature and Date	Will Fontaine _____ Printed or Typed Name	C-6813 _____ License Number
-----------------------------	---	-----------------------------------

## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

### III. Daily Data for the Month/Year of: June, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided, Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>		
1	X	24.0	21,100		1.3							1.0	
2	X	24.0	27,100		1.4							1.0	
3	X	24.0	28,100		0.7							0.8	
4	X	24.0	27,000		1.1								
5		24.0	33,750										
6	X	24.0	33,750		1.2							0.6	
7	X	24.0	28,100		1.4							0.7	
8	X	24.0	29,300		1.5							1.2	
9	X	24.0	29,100		1.3							0.6	
10	X	24.0	31,400		1.0							0.7	
11	X	24.0	21,500		1.3								
12		24.0	27,250										
13	X	24.0	27,250		1.3							0.8	
14	X	24.0	23,000		1.2							0.7	
15	X	24.0	30,900		1.1							0.7	
16	X	24.0	34,800		1.5							0.9	
17	X	24.0	29,700		1.4							0.9	
18	X	24.0	38,000		1.5								
19		24.0	32,500										
20	X	24.0	32,500		1.3							0.9	
21	X	24.0	24,600		1.3							0.8	
22	X	24.0	25,400		1.1							0.7	
23	X	24.0	26,500		1.0							0.7	
24	X	24.0	29,600		1.0							0.6	
25	X	24.0	23,400		0.7								
26		24.0	40,750										
27	X	24.0	40,750		1.1							0.5	
28	X	24.0	27,000		1.1							0.6	
29	X	24.0	21,800		1.3							0.7	
30	X	24.0	31,600		1.2							0.5	
31		24.0											
Total			877,500										
Average			28,306										
Maximum			40,750										

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identification Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** July, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum CT Required, mg-min/L	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>	Temp of Water, °C		
1	X	24.0	29,800		1.7							0.7	
2		24.0	40,500										
3	X	24.0	40,500		1.9								
4	X	24.0	30,700		1.4							1.0	
5	X	24.0	49,700		1.5							1.5	
6	X	24.0	50,800		1.5							1.2	
7	X	24.0	26,800		1.4							1.3	
8	X	24.0	39,000		1.6							1.3	
9	X	24.0	25,400		1.6								
10		24.0	25,650										
11	X	24.0	25,650		1.2							0.9	
12	X	24.0	22,400		1.3							0.9	
13	X	24.0	25,800		0.9							0.8	
14	X	24.0	30,400		1.2							0.7	
15	X	24.0	24,500		1.3							0.8	
16	X	24.0	21,600		1.3								
17		24.0	30,400										
18	X	24.0	30,400		1.4							1.0	
19	X	24.0	24,800		1.1							0.8	
20	X	24.0	22,800		1.3							0.8	
21	X	24.0	23,800		1.5							0.9	
22	X	24.0	21,000		1.5							1.0	
23	X	24.0	32,700		1.7								
24		24.0	34,700										
25	X	24.0	34,700		1.1							1.0	
26	X	24.0	29,500		1.5							1.0	
27	X	24.0	32,300		1.3							0.9	
28	X	24.0	32,300		1.4							0.8	
29	X	24.0	38,300		1.5							1.0	
30	X	24.0	25,800		1.5								
31		24.0	30,700										
<b>Total</b>			953,400										
<b>Average</b>			30,755										
<b>Maximum</b>			50,800										

\* Refer to the instructions for this report to determine which plants must provide this information.



**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** August, 2005

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community <input type="checkbox"/> Consecutive		
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	PO Box 490310	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aquaaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worecell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

\_\_\_\_\_  
Signature and Date

Will Fontaine  
\_\_\_\_\_  
Printed or Typed Name

C-6813  
\_\_\_\_\_  
License Number

**MONTHLY OPERATION REPORT FOR PW'SS TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/year of: August, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  Ultraviolet Radiation

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Days Plant Started or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	Peak Flow Rate, gpd.	Peak Flow, mg/L	Customer During Before or at First Disinfectant Concentration (C)	Point During Measurement (T) at C	Temp of Water, °C	pH of Water, if Applicable	Minimum CT, mg/L	Operating UV Dose, mW-sec/cm <sup>2</sup>	Lowest UV Dose Required, mW-sec/cm <sup>2</sup>	Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*		Average	Maximum
													Disinfectant Contact Time	Lowest CT		
1	X	24.0	30,800	1.2								0.8			24.0	36,100
2	X	24.0	28,200	1.3								0.8			24.0	27,952
3	X	24.0	29,500	1.8								1.3			24.0	36,100
4	X	24.0	27,900	0.8								0.6			24.0	27,900
5	X	24.0	21,500	1.3								0.6			24.0	21,500
6	X	24.0	25,300	1.3								0.7			24.0	25,300
7		24.0	32,550													
8	X	24.0	32,550	1.0								0.6			24.0	32,550
9	X	24.0	21,300	1.2								0.7			24.0	21,300
10	X	24.0	26,400	1.3								0.7			24.0	26,400
11	X	24.0	23,400	1.0								0.6			24.0	23,400
12	X	24.0	23,700	0.9								0.5			24.0	23,700
13	X	24.0	25,400	1.3								0.5			24.0	25,400
14		24.0	36,100													
15	X	24.0	36,100	1.0								0.5			24.0	36,100
16	X	24.0	28,500	0.9								0.5			24.0	28,500
17	X	24.0	24,300	3.0								2.0			24.0	24,300
18	X	24.0	28,400	0.8								0.9			24.0	28,400
19	X	24.0	26,600	0.8								0.5			24.0	26,600
20	X	24.0	31,000	0.8												
21		24.0	31,250													
22	X	24.0	31,250	0.8								0.5			24.0	31,250
23	X	24.0	30,900	0.9								0.5			24.0	30,900
24	X	24.0	25,200	1.4								0.8			24.0	25,200
25	X	24.0	21,900	1.0								0.7			24.0	21,900
26	X	24.0	25,400	1.3								0.8			24.0	25,400
27	X	24.0	28,300	1.3												
28		24.0	32,950													
29	X	24.0	32,950	1.3								0.9			24.0	32,950
30	X	24.0	25,800	1.3								0.8			24.0	25,800
31	X	24.0	21,100	1.3								0.8			24.0	21,100

\* Refer to the instructions for this report to determine which plants must provide this information

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** September, 2005

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	PO Box 490310	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aquaaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

\_\_\_\_\_  
Signature and Date

Will Fontaine  
\_\_\_\_\_  
Printed or Typed Name

C-6813  
\_\_\_\_\_  
License Number

**MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** September, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*								Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	Emergency or Abnormal Operating Conditions; Repair or Maintenance Work that Involves Taking Water System Components Out of Operation
				CT Calculations				UV Dose					
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>		
1	X	24.0	25,200		1.3							0.8	
2	X	24.0	21,800		1.4							0.8	
3	X	24.0	22,000		1.3								
4		24.0	27,550										
5	X	24.0	27,550		1.0							0.8	
6	X	24.0	30,700		1.3							0.6	
7	X	24.0	21,800		1.2							0.7	
8	X	24.0	20,400		1.2							0.7	
9	X	24.0	17,300		1.3							0.8	
10	X	24.0	23,000		1.3								
11		24.0	32,500										
12	X	24.0	32,500		1.3							0.9	
13	X	24.0	23,100		1.3							0.9	
14	X	24.0	27,600		1.5							1.0	
15	X	24.0	20,800		1.5							1.0	
16	X	24.0	29,600		1.7							1.3	
17	X	24.0	33,600		1.7								
18		24.0	44,000										
19	X	24.0	44,000		1.5							1.1	
20	X	24.0	30,000		1.5							1.1	
21	X	24.0	24,200		1.5							1.0	
22	X	24.0	26,000		1.3							1.0	
23	X	24.0	23,100		1.3							1.0	
24	X	24.0	25,800		1.3								
25		24.0	31,300										
26	X	24.0	31,300		1.0							0.7	
27	X	24.0	26,600		1.1							0.7	
28	X	24.0	26,700		1.1							0.8	
29	X	24.0	29,500		1.3							1.0	
30	X	24.0	27,100		1.2							0.8	
31		24.0											
<b>Total</b>			826,600										
<b>Average</b>			26,665										
<b>Maximum</b>			44,000										

\* Refer to the instructions for this report to determine which plants must provide this information.

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** October, 2005

**A. Public Water System (PWS) Information**

PWS Name: Grand Terrace		PWS Identification Number: 3354697	
PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community <input type="checkbox"/> Consecutive			
Number of Service Connections at End of Month: 110		Total Population Served at End of Month: 257	
PWS Owner: Aqua Utilities Florida			
Contact Person: Brian Heath		Contact Person's Title: Area Manager	
Contact Person's Mailing Address: PO Box 490310		City: Leesburg	State: Florida
Contact Person's Telephone Number: (352) 787-0980		Zip Code: 34748	
Contact Person's E-Mail Address: <a href="mailto:beheath@aquaamerica.com">beheath@aquaamerica.com</a>		Contact Person's Fax Number: (352) 787-6333	

**B. Water Treatment Plant Information**

Plant Name: Grand Terrace		Plant Telephone Number: 352-787-0980	
Plant Address: 36345 Terra Court		City: Eustis	State: Florida
Type of Water Treatment by Plant: <input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		Zip Code: 32726	
Permitted Maximum Day Operating Capacity of Plant, gallons per day: 432,000			
Plant Category (per subsection 62-699.310(4), F.A.C.): V		Plant Class (per subsection 62-699.310(4), F.A.C.): C	

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	Will Fontaine Printed or Typed Name	C-6813 License Number
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**MONTHLY OPERATION REPORT FOR PW'SS TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**

PWS Identification Number: 3354697 Plan Name: Grand Terrace

III. Daily Data for the Month/year of: October, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Days Plant Started or Visited by Operator (Place "X")	Day of the Month	Hours plant in Operation	Net Quantity of Finished Water Produced, gal	Peak Flow Rate, gpd	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Measurement Point During Peak Flow, minutes	Disinfectant Contact Time (T) at C	Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>	Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*		UV Dose		
															CT Calculations	UV Dose	CT Calculations	UV Dose	
1	X		24.0	30,500	1.5														
2			24.0	35,300	1.0														
3	X		24.0	35,300	1.0														0.7
4	X		24.0	29,700	0.9														0.6
5	X		24.0	22,400	1.1														0.7
6	X		24.0	21,300	1.1														0.8
7	X		24.0	22,800	1.5														0.6
8	X		24.0	18,000	1.5														
9			24.0	29,450															
10	X		24.0	29,450	1.5														1.0
11	X		24.0	22,300	1.4														1.0
12	X		24.0	27,100	1.4														1.1
13	X		24.0	22,200	1.3														1.0
14	X		24.0	25,400	1.3														1.0
15	X		24.0	26,900	1.4														
16			24.0	38,850															
17	X		24.0	38,850	1.3														0.9
18	X		24.0	25,400	1.3														0.8
19	X		24.0	21,500	1.0														0.6
20	X		24.0	21,900	1.2														0.7
21	X		24.0	21,600	1.3														0.7
22	X		24.0	20,500	1.3														
23			24.0	20,500															
24	X		24.0	20,500	1.3														0.9
25	X		24.0	31,200	1.1														0.7
26	X		24.0	17,700	0.9														0.6
27	X		24.0	21,500	0.9														0.5
28	X		24.0	19,000	1.0														0.5
29	X		24.0	14,500	1.0														
30			24.0	28,000															
31	X		24.0	28,000	1.0														0.7
Total			787,600																
Average			25,406																
Maximum			38,850																

\* Refer to the instructions for this report to determine which plants must provide this information

**MONTHLY OPERATION REPORT FOR PWSs TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER**



See Pages 4 for Instructions.

**I. General Information for the Month/Year of:** November, 2005

**A. Public Water System (PWS) Information**

PWS Name:	Grand Terrace	PWS Identification Number:	3354697
PWS Type:	<input checked="" type="checkbox"/> Community <input type="checkbox"/> Non-Transient Non-Community <input type="checkbox"/> Transient Non-Community	<input type="checkbox"/> Consecutive	
Number of Service Connections at End of Month:	110	Total Population Served at End of Month:	257
PWS Owner:	Aqua Utilities Florida		
Contact Person:	Brian Heath	Contact Person's Title:	Area Manager
Contact Person's Mailing Address:	PO Box 490310	City:	Leesburg
		State:	Florida
		Zip Code:	34748
Contact Person's Telephone Number:	(352) 787-0980	Contact Person's Fax Number:	(352) 787-6333
Contact Person's E-Mail Address:	beheath@aguaamerica.com		

**B. Water Treatment Plant Information**

Plant Name:	Grand Terrace	Plant Telephone Number:	352-787-0980
Plant Address:	36345 Terra Court	City:	Eustis
		State:	Florida
		Zip Code:	32726
Type of Water Treatment by Plant:	<input checked="" type="checkbox"/> Raw Ground Water <input type="checkbox"/> Purchased Finished Water		
Permitted Maximum Day Operating Capacity of Plant, gallons per day:	432,000		
Plant Category (per subsection 62-699.310(4), F.A.C.):	V	Plant Class (per subsection 62-699.310(4), F.A.C.):	C

Licensed Operators	Name	License Class	License Number	Day(s) / Shift(s) Worked
Lead/Chief Operator:	Will Fontaine	C	6813	Days 1st Shift
Other Operators:	Marty Neal	C	10027	Days 1st Shift
	John Worell	C	6597	Days 1st Shift

**II. Certification by Lead/Chief Operator**

I, the undersigned water treatment plant operator licensed in Florida, am the lead/chief operator of the water treatment plant identified in part I of this report. I certify that the information provided in this report is true and accurate to the best of my knowledge and belief. I certify that all drinking water treatment chemicals used at this plant conform to NSF International Standard 60 or other applicable standards referenced in subsection 62-555.320(3), F.A.C. I also certify that the following additional operations records for this plant were prepared each day that a licensed operator staffed or visited this plant during the month indicated above: (1) records of amounts of chemicals used and chemical feed rates; and (2) if applicable, appropriate treatment process performance records. Furthermore, I agree to provide these additional operations records to the PWS owner so the PWS owner can retain them, together with copies of this report, at a convenient location for at least ten years.

Signature and Date	Will Fontaine	C-6813
	Printed or Typed Name	License Number

MONTHLY OPERATION REPORT FOR PW'SS TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identification Number: 3354697 Plant Name: Grand Terrace

III. Daily Data for the Month/year of: November, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer Point During Measurement (T) at Contact Time Before or at First Customer Point During Peak Flow, mg-minutes	Lowest CT During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest UV Dose, mW-sec/cm <sup>2</sup>	Lowest UV Dose Required, mW-sec/cm <sup>2</sup>	Concentration at Remote Point in Distribution System, mg/L	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*	
												UV Dose	CT Calculations
1	X	24.0	18,600	1.1	1.1						0.7		
2	X	24.0	22,600	1.1	1.1						0.7		
3	X	24.0	22,800	1.0	1.0						0.7		
4	X	24.0	18,500	1.2	1.2						0.8		
5	X	24.0	21,100	1.1	1.1						0.7		
6		24.0	31,000										
7	X	24.0	31,000	1.3	1.3						0.9		
8	X	24.0	26,600	1.0	1.0						0.6		
9	X	24.0	22,100	1.5	1.5						1.0		
10	X	24.0	23,000	1.5	1.5						1.1		
11	X	24.0	20,000	1.4	1.4						1.0		
12	X	24.0	25,500	1.4	1.4								
13		24.0	36,000										
14	X	24.0	36,000	1.5	1.5						1.0		
15	X	24.0	20,700	1.4	1.4						1.0		
16	X	24.0	26,100	1.4	1.4						1.1		
17	X	24.0	26,200	1.5	1.5						1.1		
18	X	24.0	23,900	1.5	1.5						1.1		
19	X	24.0	19,400	1.3	1.3						1.2		
20		24.0	32,600										
21	X	24.0	32,600	0.9	0.9						0.6		
22	X	24.0	16,300	0.8	0.8						0.5		
23	X	24.0	18,200	0.8	0.8						0.5		
24	X	24.0	17,200	1.6	1.6						0.9		
25	X	24.0	26,600	1.6	1.6						1.2		
26	X	24.0	31,100	1.5	1.5								
27		24.0	29,950										
28	X	24.0	29,950	1.7	1.7						1.4		
29	X	24.0	21,100	1.5	1.5						1.2		
30	X	24.0	21,100	1.4	1.4						1.0		
31		24.0	747,800										
Total			747,800										
Average			24,123										
Maximum			36,000										

\* Refer to the instructions for this report to determine which plants must provide this information





## MONTHLY OPERATION REPORT FOR PW'Ss TREATING RAW GROUND WATER OR PURCHASED FINISHED WATER

PWS Identificaiton Number: 3354697 Plant Name: Grand Terrace

**III. Daily Data for the Month/Year of:** December, 2005

Means of Achieving Four-Log Virus Inactivation/Removal:  Free Chlorine  Chlorine Dioxide  Ozone  Combined Chlorine (Chloramines)  
 Ultraviolet Radiation  Other (Describe):

Type of Disinfectant Residual Maintained in Distribution System:  Free Chlorine  Combined Chlorine (Chloramines)  Chlorine Dioxide

Day of the Month	Days Plant Staffed or Visited by Operator (Place "X")	Hours plant in Operation	Net Quantity of Finished Water Produced, gal.	CT Calculations, or UV Dose, to Demostate Four-Log Virus Inactivation, if Applicable*										Emergency or Abnormal Operating Conditions: Repair or Maintenance Work that Involves Taking Water System Components Out of Operation	
				CT Calculations					UV Dose						
				Peak Flow Rate, gpd.	Lowest Residual Disinfectant Concentration (C) Before or at First Customer During Peak Flow, mg/L	Disinfectant Contact Time (T) at C Measurement Point During Peak Flow, minutes	Lowest CT Provided Before or at First Customer During Peak Flow, mg-min/L	Temp of Water, °C	pH of Water, if Applicable	Minimum CT Required, mg-min/L	Lowest Operating UV Dose, mW-sec/cm <sup>2</sup>	Minimum UV Dose Required, mW-sec/cm <sup>2</sup>	Lowest Residual Disinfectant Concentration at Remote Point in Distribution System, mg/L		
1	X	24.0	22,200		1.4									0.9	
2	X	24.0	20,200		1.3									0.7	
3	X	24.0	17,700		1.3										
4		24.0	27,500												
5	X	24.0	27,500		1.3									0.9	
6	X	24.0	19,400		1.3									0.9	
7	X	24.0	22,300		1.3									0.9	
8	X	24.0	20,000		1.3									0.9	
9	X	24.0	16,000		1.4									0.9	
10	X	24.0	16,200		1.3										
11		24.0	26,150												
12	X	24.0	26,150		1.2									0.8	
13	X	24.0	26,200		1.5									1.4	
14	X	24.0	19,800		1.4									1.0	
15	X	24.0	18,600		1.5									1.2	
16	X	24.0	18,700		1.3									1.0	
17	X	24.0	24,100		1.3										
18		24.0	20,400												
19	X	24.0	20,400		1.3									0.9	
20	X	24.0	20,200		1.3									0.8	
21	X	24.0	22,300		1.3									0.8	
22	X	24.0	23,500		1.3									0.8	
23	X	24.0	21,300		1.3									0.9	
24	X	24.0	19,900		1.3										
25		24.0	23,650												
26	X	24.0	23,650		1.3									1.0	
27	X	24.0	27,800		1.3									0.9	
28	X	24.0	21,600		1.3									0.8	
29	X	24.0	23,500		1.3									0.8	
30	X	24.0	20,600		1.2									0.8	
31	X	24.0	19,500		1.3										
<b>Total</b>			677,000												
<b>Average</b>			21,839												
<b>Maximum</b>			27,800												

\* Refer to the instructions for this report to determine which plants must provide this information.