ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
NOTICE OF INTENT
INDIVIDUAL TREATMENT FACILITIES
NPDES GENERAL PERMIT ARG550000

APR 10 2012

Application Type: New X Renewal ☐ (Permit # ARG55_____)

I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name): Ora Wiley
Permittee Mailing Address: 1868 Hwy. 67 S
Permittee City: Prescott
Permittee State: AR Zip: 71921
Permittee Telephone Number: 870-796-1471
Permittee Fax Number:
Permittee E-mail Address:

Operator Type:
☐ State ☐ Partnership
☐ Federal ☐ Corporation*
X Sole Proprietorship/Private
*State of Incorporation: _____
The legal name of the Permittee must be identical to the name listed with the Arkansas Secretary of State.

II. INVOICE MAILING INFORMATION (Home owners are exempt.)

Invoice Contact Person: _____ City: _____
Invoice Mailing Company: _____ State: _____ Zip: _____
Invoice Mailing Address: _____ Telephone: _____

III. FACILITY INFORMATION

Facility Name: Ora Wiley Facility Contact Person: Ora Wiley
Facility Address: 1868 Hwy. 67 S Telephone Number: 870-796-1471
Facility County: Nevada 47' 1.62" Facility City, State & Zip: Prescott, AR 71921 24' 17.34"
Facility Latitude: N33 Deg 47 Min .027Sec Facility Longitude: W93 Deg 24 Min .289Sec
Accuracy: un Method: un Datum: un Scale: un Description: un

IV. DISCHARGE INFORMATION

Outfall Number: One Flow: 370 gpd (Gallons per Day)
Stream Segment: 2G 47' 0.84" Hydrologic Basin Code: 8040100 24' 18.9"
Outfall Latitude: N33 Deg 47 Min .014Sec Outfall Longitude: W93Deg 24 Min .315Sec
Accuracy: un Method: un Datum: un Scale: un Description: un
Type of Treatment: Norweco Model 960
Receiving Stream: Terre Rouge

V. FACILITY PERMIT INFORMATION

NPDES Individual Permit Number (If Applicable): AR00
NPDES General Permit Number (If Applicable): ARG
State Construction Permit Number:
NPDES General Construction Stormwater Permit Number (If Applicable): ARR15

VI. OTHER INFORMATION:

Operator Name: MIKE OCONNOR

Operator License Number: 010202 License Class: II

Consultant Contact Name: MIKE OCONNOR

Consultant Email Address: MICHAEL@ARKANSASSEPTIC.COM

Consultant Address: _____ City: _____ State: _____ Zip: _____

Consultant Phone Number: _____ Consultant Fax Number: _____

Has this treatment system been approved by AHD? Yes ☒ No ☐

Disclosure Statements:

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. You must submit a new disclosure statement even if you have one on file with the Department. The form may be obtained from ADEQ web site at: http://www.adeq.state.ar.us/disclosure_stmt.pdf.

VII. CERTIFICATION OF OPERATOR

(Initial) "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas."

X (Initial) "I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant."

X (Initial) "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Responsible Official Printed Name: ORA WILEY Title: OWNER

X Responsible Official Signature: _____ Date: 3-24-12

Responsible Official Email: _____

Cognizant Official Printed Name: _____ Title: _____

Cognizant Official Signature: _____ Telephone: _____

Cognizant Official Email: _____

X. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

	Yes	No	* If No is answered for any of the questions, then a permit can not be issued!
Submittal of Complete NOI?	☐	☐	
Submittal of Required Permit Fee?	☐	☐	Check Number: _____
Submittal of AHD Form EHP-19?	☐	☐	
Submittal of Site Map?	☐	☐	
Submittal of Disclosure Statement?	☐	☐	

ARG550000 Checklist

ARG55 0416 New ☒ Renewal ☐ Modification ☐

Business ☐ Individual Homeowner ☒

Discharges to Orion Creek

Ecologically Sensitive Waterbody: Yes ☐ No ☒

303(d) list? Pathogens ☐ Nutrients ☐ DO ☐

None ☒ Other ☐ _____

Name of Operator: Mike O'Connor License Number 010202

Class of municipal wastewater operator: I ☐ II ☒ III ☐ IV ☐

ADH Approval (EHP-19 Form): Yes ☒ No ☐

Approved System:

	Company Name	System Name	Design Flow (gpd)
☐	Orenco Systems, Inc.	Advantex AX20	500
☐	Ecological Tank, Inc.	AquaSafe 500	500
☒	Norweco, Inc.	Norweco (Singular) 960	500/1000
☐	Norweco, Inc.	Norweco (Singluar) TNT-500	500
☐	Clearstream Wastewater Systems, Inc.	Clearstream 500N+1100 Effluent Filter or a post aeration tank	500
☐	Consolidated Treatment Systems, Inc.	MultiFlo FTB-0.5	500
☐	EnviroGuard	ENV-0.75	750
☐	Consolidated Treatment Systems, Inc.	Nyadic M6-A	500
☐	Bio-Microbics, Inc.	MicroFast ® 0.5/With UV Disinfection and Post Aeration	500

Additional Treatment: _____

Other Comments: _____

F 3mG9

CLEAR FLOW *A WASTEWATER MANAGEMENT COMPANY*

Mike O'Connor
P.O. Box 992
Cabot, AR 72023

Michael@ArkansasSeptic.com
Office 501-517-7198
Fax 501-843-2546

April 2, 2012

Adeq
Water Div.

To whom it may concern;

The treatment plant proposed for Ora Wiley will use the Norweco model 960 as submitted By Strider Consulting Feb 25, 2010.

Sincerely,
Clear Flow

Mike O'Connor
DR # 60-37

APR - 3 2012

Kn 1:29

Arkansas Department of Health
Environmental Health Protection

Receipt Number: 18125140

Individual Onsite System Permit Application

Permit Type: ☑ New Installation ☐ Alteration / Repair

Fee Schedule for Structures		
Structures 1500 sq ft or less	$ 30.00	☑
Structures more than 1500 sq ft and up to 2000 sq ft	$ 45.00	☐
Structures more than 2000 sq ft and up to 3000 sq ft	$ 90.00	☐
Structures more than 3000 sq ft and up to 4000 sq ft	$120.00	☐
Structures more than 4000 sq ft	$150.00	☐
Alteration and Repair	$ 30.00	☐

DR Environmental I.D. #: # 2 9 0 1 1 0 1 9 2 6

Part 1 Treatment Type (check one)

- ☐ STD = Standard Septic Tank
- ☐ ISF = Intermittent Sand Filter
- ☐ PMF = Proprietary Media Filter
- ☐ OTH = Other (Describe)
- ☑ ATU = Aerobic Treatment Plant
- ☐ RSF = Re-circulating Sand Filter
- ☐ RGF = Re-circulating Gravel Filter
- ☐ HLD = Holding Tank

Disposal Method (check one)

- ☐ STD = Standard Absorption Field
- ☑ SUR = Surface Discharge
- ☐ CPF = Capping Fill
- ☐ OTH = Other
- ☐ LPD = Low Pressure Distribution
- ☐ HLD = Holding Tank
- ☐ SRL = Serial Distribution
- ☐ DRP = Drip Irrigation

1. Owner's/Applicant's Name: Ora Wiley * Please send to:
2. Phone Number: 870-796-1471
3. Mailing Address: Sean Deputy, 36 Deputy Rd, Amity, AR 71921
4. County: Nevada
5. Address of Proposed System (If a 911 address is not available, attach detailed directions or map.): 1868 Hwy 67 South, Prescott, AR - See map attached.
6. Subdivision Name: NA
7. Approval Date: NA
8. Date Recorded: NA
9. Lot Number: NA
10. Lot Dimensions: Attached
11. Total Area (Acres): 17.25 Ac.
12. # Bedrooms # People: 3 Bdrm
13. Daily Flow (GPD): 370
14. Brief Legal Description of Property (Attach a separate sheet of paper if necessary.): Pt. of the S½, SE¼, & NE¼, SE¼, of Section 18, T-11-S, R-22-W.
15. Water Supply (Specify supplier if Public Water.): Prescott City Water
16. GPS Coordinates: Pit #1 → N 33°47.027' W 93°24.289' Pit #2 → N 33°47.014 W 93°24.315

17. Soil Determination (Primary Area) — Indicate the depth to items a-f if observed in the soil (designate inches).

a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (GPD/ft²)
48"+	None	6"	24"	None	15"	Low HC-24"	0.00

18. Soil Determination (Secondary Area) — Indicate the depth to items a-f if observed in the soil (designate inches).

a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (GPD/ft²)
48"+	None	5"	10"	None	7"	Low HC-10"	0.00

19. Percolation Test (min/in) — 20. System Size: 500 gpd

Rate for Hole 1	NA	a. Size of Septic Tank	Norweco ATU	gal	f. Trench Depth	NA	inches
Rate for Hole 2	NA	b. Size of Dose Tank	N-A	gal	g. Trench Spacing	NA	feet
Rate for Hole 3	NA	c. Absorption Area	NA	ft²	h. Trench Media		Trench Width
Alt Area Perc.	NA	d. Number of Field Lines	NA		NA	NA	in
Average Perc. (1-3)	NA	e. Length of Field Lines	NA	ft			in

Comments: GPS Coordinates → Driveway Entrance N 33°47.046' W 93°24.253'; GPS Coordinates → Point of Discharge N33°47.052' W93°24.290'

21. I certify that I have conducted the above tests and that the above listed information is in accordance with the latest requirements of the Arkansas Department of Health Rules and Regulations Pertaining to Onsite Wastewater Systems, Designated Representatives and Installers.

Signature: Sean Deputy — Title: D.R. # 1446179 — Soil Certified ☒ Yes ☐ No

Typed Name: Sean Deputy — Date: 3-6-12 — Phone Number: 501-815-2132

22. Approval of Health Authority: The information above has been reviewed and found to meet the requirements of the Arkansas Department of Health for Onsite Wastewater Systems, Designated Representatives and Installers.

A PERMIT FOR CONSTRUCTION is hereby issued.

Environmental Health Specialist: [signature] — Date: 3-19-12

EHP-19 (R 2/08)

Owner's/Applicant's Name	Receipt Number
X Don Wiley	

23. Utilization Verification:
I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate.

Owner/Applicant X _____ Date X 3-6-12

Part 2 Installation Inspection

Septic tank manufacturer	Other information
Septic tank material	Trench media and width
Dose tank manufacturer	Depth of interceptor drain
Dose tank material	Depth of settled fill

Pump Information

Name of Installer	License Number
Environmental Health Specialist	Date

Part 3 Permit for Operation

The information contained in Part 1 and Part 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.

Environmental Health Specialist _____ Date _____

Comments

_____

_____

_____

_____

TO THE OWNER

The permit for construction may be deemed invalid by the local Environmental Health Specialist before construction if the site and/or soil conditions have changed after approval of the permit or if the information on the permit is inaccurate.

Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health Rules and Regulations Pertaining to Onsite Wastewater Systems, Designated Representatives and Installers, unless there are exceptions or deviations noted in the comments.

A permit is valid for one (1) year from the date of approval. A permit more than one (1) year old must be revalidated by the authorized agent prior to the start of any construction.

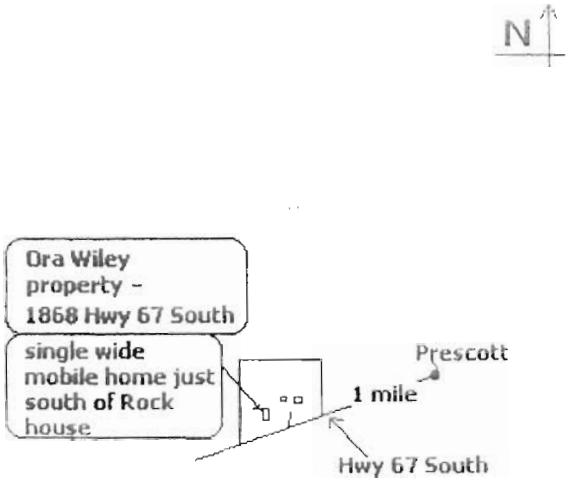
Site Revalidation Conducted by ☐ Designated Representative ☐ Environmental Health Specialist

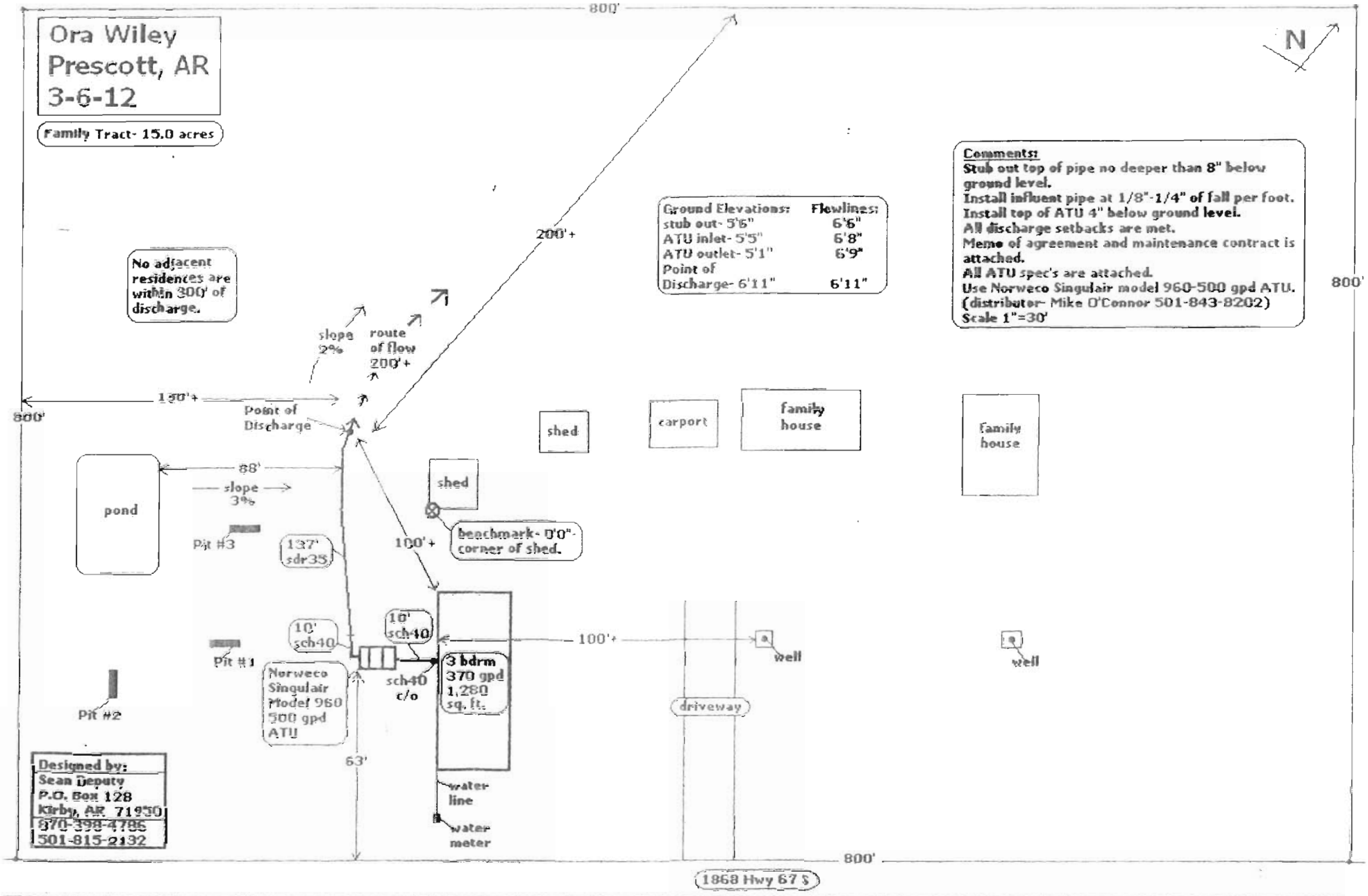
_____ Date _____

Site Revalidation Conducted by ☐ Designated Representative ☐ Environmental Health Specialist

_____ Date _____

Vicinity Map




Ora Wiley
Prescott, AR
3-6-12
Family Tract- 15.0 acres
800'
N
800'
200'+
No adjacent residences are within 300' of discharge.
Ground Elevations: Flowlines:
stub out- 5'6" 6'6"
ATU inlet- 5'5" 6'8"
ATU outlet- 5'1" 6'9"
Point of Discharge- 6'11" 6'11"
Comments:
Stub out top of pipe no deeper than 8" below ground level.
Install influent pipe at 1/8"-1/4" of fall per foot.
Install top of ATU 4" below ground level.
All discharge setbacks are met.
Memo of agreement and maintenance contract is attached.
All ATU spec's are attached.
Use Norweco Singulair model 960-500 gpd ATU. (distributor- Mike O'Connor 501-843-8202)
Scale 1"=30'
slope 2%
route of flow 200'+
150'+
Point of Discharge
800'
shed
carport
family house
family house
88'
slope 3%
pond
shed
Pit #3
137' sdr35
100'+
benchmark- 0'0"- corner of shed.
10' sch40
10' sch40
100'+
well
well
Pit #1
3 bdrm 370 gpd 1,280 sq. ft.
Norweco Singulair Model 960 500 gpd ATU
sch40 c/o
Pit #2
driveway
63'
water line
water meter
Designed by:
Sean Deputy
P.O. Box 128
Kirby, AR 71950
870-398-4785
501-815-2132
800'
1868 Hwy 67 S

1703-3762

Pit 1 GPS 33°47.027N 93°24.289W

0-6	10 3/2		CL<35
6-13	10 5/8	10 4/3 < 20	CL<35
13-24	10 5/8	2.5 4/8 < 20 10 6/2 < 20	CL>35
24+	10 6/2	2.5 4/8 < 20 10 5/8 > 20	C>50
		No Load Mod - 6" Long - 24"	Adj Long → 15" LR - 0.00

Pit 2 GPS 33°47.014N 93°24.315W

0-5	~~7.5 5/8~~	Same	
5-10	7.5 5/8		CL>35
10+20	2.5 5/8	10 6/2 < 20	C>50
20+	10 6/2	2.5 4/8 > 20	C>50
		Mod - 5"	
		No Load Long - 10"	Adj Long → 7"
			LR - 0.00

REAL ESTATE MORTGAGE

COPY

KNOW ALL MEN BY THESE PRESENTS:

1. That we, Ed Wiley, Jr., and Ora Wiley, his wife, and Sam D. Wiley, a single man,

(hereinafter called "Mortgagor" whether one or more), for a valuable consideration to Mortgagor in hand paid by Prescott Federal Savings and Loan Association

of Prescott, Arkansas, -,

(hereinafter called "Mortgagee", whether one or more) do hereby grant, bargain, sell and convey

unto the said Mortgagee the following described real estate in Nevada County, Arkansas, to-wit:

All that part of the South Half (S½) of the Southeast Quarter (SE¼) and of the Northeast Quarter (NE¼) of the Southeast Quarter (SE¼) of Section 18, Township 11 South, Range 22 West more particularly described as follows, to-wit: Commence at the Northwest corner of the said S½ of SE¼ and run South for 4.80 chains, thence run East to the Northw st right of way line of the Missouri Pacific Railroad Co pany, thence run Northeast along said right of way line to the intersection of said right of way line with the East line of said NE¼ of SE¼, thence run North on said East line for 27 feet, thence run Southwest to a point on the line between the NE¼ of SE¼ and the SE¼ of SE¼ of said Section 18, which point is located 165 feet West of the Northwest right of way line of said Railroad, thence run West to the point of beginning, containing 20.25 acres, more or less; LESS AND EXCEPT TWO (2) TRACTS MORE PARTICULARLY DESCRIBED AS FOLLOWS: EXCEPTED TRACT NO. 1: Commence at the Northwest corner of said S½ of SE¼ and run East for 2051 feet TO THE POINT OF BEGINNING OF THIS EXCEPTED TRACT OF LAND, from which beginning point run East for 345 feet to a fence corner, thence run North 73 degrees East along a fence for 119 feet to the Northwest right of way line of United States and State of Arkansas Highway No. 67, thence run South 45 degrees West along the right of way of said Highway for 294 feet, thence run North 58 degrees West for 288 feet to the point of beginning, containing one (1) acre in this excepted tract; and EXCEPTED TRACT NO. 2: Begin at the Northwest corner of the SW¼ of SE¼ of said Section 18 and run thence East for 455.2 feet, thence run South for 191.4 feet, thence run West for 455.2 feet, thence run North for 191.4 feet to the point of beginning, containing two acres, more or less, in this excepted tract;

Said lands containing in the aggregate 17.25 acres, more or less;

SUBJECT, HOWEVER, TO: (1) All public and private roads or easements as the same may now be located; and (2) That certain Agreement to Furnish Water executed by J.I. Huskey and Lera Huskey to John E. McLelland and Jimmie Dee McLelland dated December 21, 1972, and recorded in Book 299 at page 107 of the Deed Records of Nevada County, Arkansas, reference being made to said agreement for the full particulars and provisions thereof,

COPY

This Instrument Prepared By
James H. McKenzie, Attorney
Prescott, Arkansas

Arkansas Department of Heath And Human Services

Division of Health-Onsite Wastewater Permit Checklist/Subsurface

Applicant: Ora Wiley	Designer Sean Deputy	County: Nevada
		Permit #:
Address 1868 Hwy 67 South Prescott, AR 71857	☑ Gravity	☐ Pump
	☐ Distribution Box	☐ Standard-D box
	☐ Serial Distribution	☐ Standard-Pressure
		☐ LPD
		☐ Zone Dose

Checklist

	Yes	No		Yes	No
Permit Application Correctly Completed	✓		2 Opposing Property Distances Indicated For Field Lines	✓	
Detailed Vicinity Map Provided	✓		Field Line Material Specified	✓	
Drawing Scale Indicated: 1"= 20' or (30') or _____	✓		Field Line Trench Depth Specified	✓	
North Correctly Indicated	✓		Field Line Trench Width Specified	✓	
Lot Dimensions And Property Lines Indicated	✓		Field Lines Contour Correctly Indicated	✓	
All Structures Indicated	✓		Primary Absorption Area Sized Correctly	✓	
Driveway Indicated	✓		Seasonal Water Tables Correctly Identified	✓	
Public Water System Indicated Prescott Water	✓		Adjusted Seasonal Water Tables Correct	✓	
Onsite Water Well Correctly Indicated	✓		Most Limiting Loading Rate Indicated	✓	
Adjoining Water Wells Indicated	NA		Soil Pits Provided In Primary And Alternate	✓	
All System Setbacks Specified	✓		Soil Data For Alternate and Primary Indicated	✓	
Rod Readings Or Elevations Provided For Entire System	✓		Alternate Area Correctly Sized And Indicated	✓	
Flow Line For Stub Out / Tank/ Distribution Box Specified	✓		Pump Correctly Specified/ Curve Provided	NA	
Topography Or Per Cent Slope Indicated	✓		☐ Demand Dose Draw Down Specified ☐ Timed Dose "On" And "Off" Specified	NA	
Cleanouts Indicated	✓		Amount/ Frequency Of Dose Correctly Specified	NA	
Pipe Specifications For Entire System Indicated	✓		Wiring/Connections/Conduit Specified	NA	
Entire System Staked Or Flagged On Site	✓		High Water Alarm Specified	NA	
Bench Mark Correctly Indicated	✓		All Necessary Components Of LPD Specified	NA	
Distribution Method Specified	✓		Soil Cap Depth Specified/ Correctly Sized	NA	

Comments:

EHS:	Permit Issue Date:

ARKANSAS DEPARTMENT OF
Health
Keeping Your Hometown Healthy

MEMORANDUM OF AGREEMENT

SUBJECT: INDIVIDUAL SEWAGE TREATMENT SYSTEM

This is an agreement that the sewage system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:

1. The property owner assumes all responsibility for the proper operation of the system and the maintenance of a valid service contract with a Certified Maintenance Personnel approved to service and monitors such home sewage treatment systems. The service contract shall include provisions for the monitoring of free chlorine and PH and reporting to ADH as required.

2. The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.

3. That the Arkansas Department of Health may monitor the system as to its operation capabilities.

4. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.

5. That, on the sale of the property, the perspective buyer will be notified of this agreement, and both the buyer and seller are to sign such memoranda and contracts.

6. The owner is required to file an application to the Arkansas Department of Environmental Quality (ADEQ) for a National Point Discharge Elimination System (NPDES) permit. The Arkansas Department of Health will notify the ADEQ of all permits issued for systems that discharge sewage, when applicable.

SIGNED: _____ (Property Owner) SIGNED: _____ (Health Department)

DATE: 3-8-12 DATE: 3-19-12

EHP-35 (R 2/11)

Onsite Maintenance Contract

Date 3-6-12

Homeowner Ora Wiley

Property address 1868 Hwy 67 South
Prescott, AR 71857

Contact number 870-796-1471

Items to be reviewed, at minimum, each 6 months for 2 years. After 2 years, this contract is renewable for a yearly fee.

- Chlorine residual
- PH
- Evaluation of system components, motor, wiring, alarm, etc
- Document findings, and file necessary paper work with Health Department

This contract does not include the cost of chlorine tablets, replacement ozone bulbs, or any damaged components.

OMP

Mike O'Connor
Clear Flow
P.O. Box 992
Cabot, Arkansas 72023
Fax # 501-843-2546
Office phone: 501-843-8202
Mobile phone: 501-517-7198

Signature Mike O'Connor

Design Notes

Prepared for:

Arkansas Department
Of Environmental Quality
General Permit ARG 550000

Project:

Norweco®
Singulair® Bio-Kinetic®
Wasterwater Treatment System
Model 960
Design Flow 500 GPD
Revision 02/09/2010

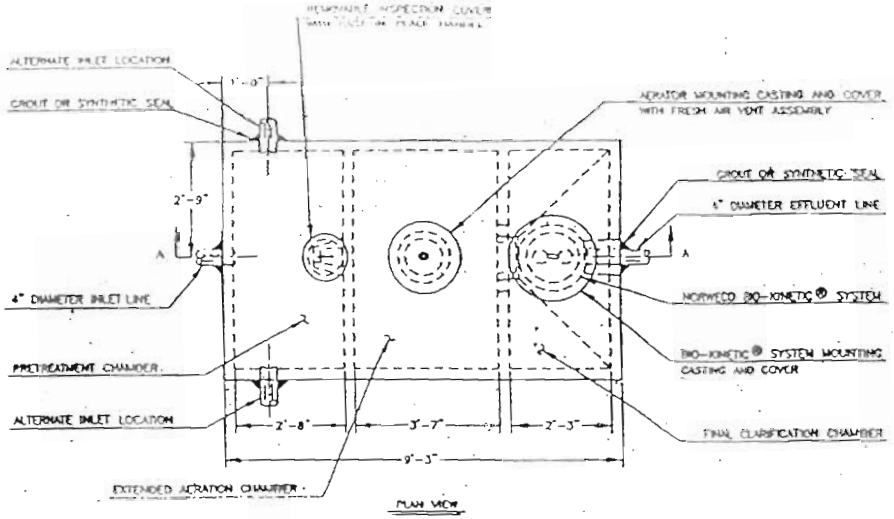
Prepared by:

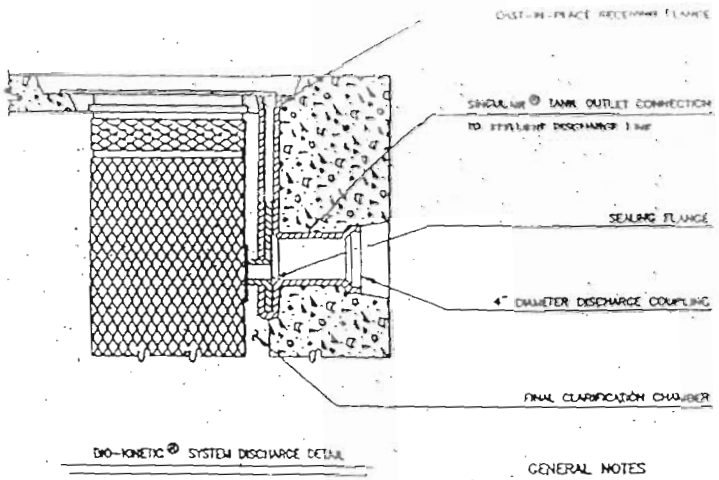
STRIDER CONSULTING
Engineering for the Future

1029 Hwy 201 N
Mountain Home, AR 72653

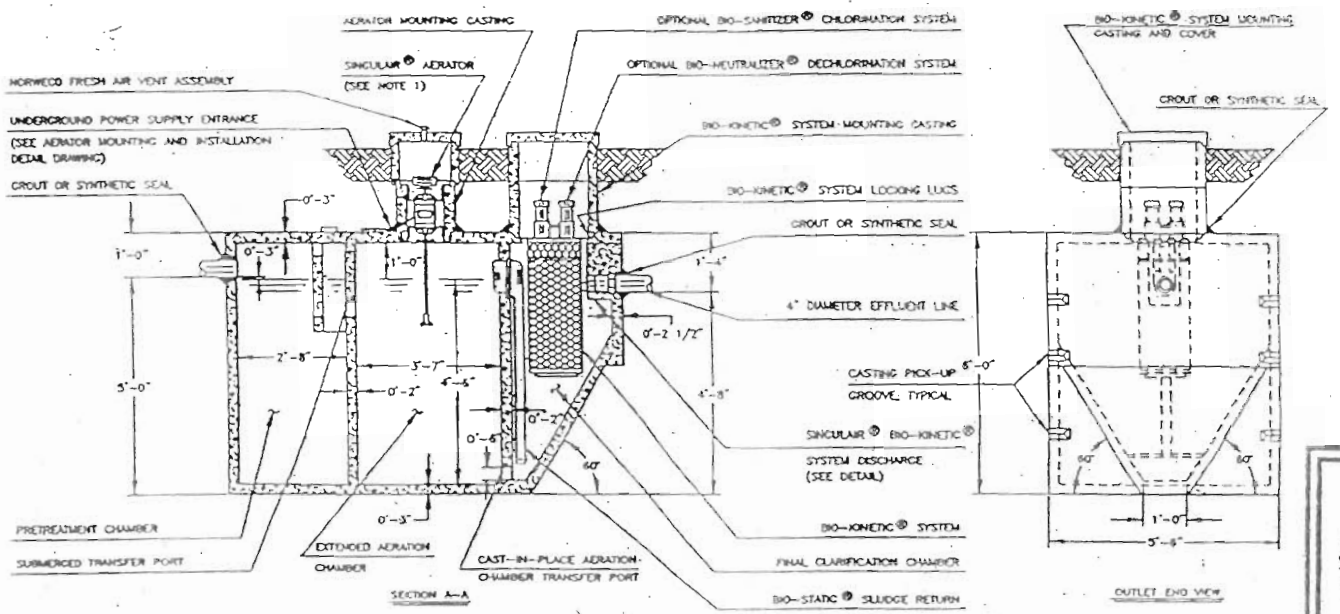
CERTIFICATE OF AUTHORIZATION
STRIDER CONSULTING INC.
No. 1514
ARKANSAS

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
NO. 9420
BENJAMIN H. STRIDER
2/15/10





BIO-KINETIC® SYSTEM DISCHARGE DETAIL



GENERAL NOTES

1. SINGULAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF.
2. FALL THROUGH SINGULAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE. INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
4. TANK REINFORCED PER ACI STD. 318-83.
5. REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
6. CONTACT THE LOCAL LICENSED SINGULAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.
7. TOTAL SYSTEM CAPACITY: 1300 GAL.

NORWECO.

SINGULAIR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM
MODEL 960-500 GPD

REVISION DATE	REVISION
2-10-97	
DRAWN BY	JMM
APPROVED BY	GJS
DATE	1-9-96
SCALE	NTS
DRAWING NO.	PC-5-7006

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: June 11, 1995 *Plant Code:* 6/139

Weeks Into Test: 1

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	7.5	7.8	7.2	6.8	6.4
	effluent	4.2	4.5	4.7	3.5	3.8
Temperature (°C)	influent	16	16	16	16	17
	aeration chamber	18	18	18	18	18
	effluent	18	18	18	18	18
pH	influent	7.5	7.7	7.5	7.5	7.5
	aeration chamber	7.6	7.6	7.8	7.6	7.6
	effluent	8.1	8.1	8.2	8.0	8.0
Biochemical Oxygen Demand (mg/L)	influent	210	150	200	190	190
	effluent	<5	5	7	6	7
Suspended Solids (mg/L)	influent	210	230	260	240	220
	aeration chamber	250	250	280	280	310
	effluent	7	8	8	6	8
Volatile Suspended Solids (mg/L)	influent	190	200	230	210	190
	aeration chamber	210	200	240	230	250
	effluent	6	7	8	5	6
45 Minute Settleable Solids (mL/L)	aeration chamber	300	430	350	400	380

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: June 18, 1995 *Plant Code:* 6/139

Weeks Into Test: 2

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	7.8	5.5	7.8	6.4	6.2
	effluent	3.2	2.8	2.7	2.5	2.9
Temperature (°C)	influent	17	17	18	18	18
	aeration chamber	18	19	20	20	20
	effluent	18	20	20	20	20
pH	influent	7.5	7.6	7.5	7.6	7.4
	aeration chamber	7.8	7.8	7.7	7.8	7.7
	effluent	8.1	8.1	8.1	8.0	8.1
Biochemical Oxygen Demand (mg/L)	influent	190	190	250	240	260
	effluent	10	12	9	5	6
Suspended Solids (mg/L)	influent	250	310	340	260	370
	aeration chamber	350	360	370	360	420
	effluent	7	5	6	<5	6
Volatile Suspended Solids (mg/L)	influent	220	260	300	230	320
	aeration chamber	300	300	320	320	360
	effluent	6	<5	<5	<5	<5
45 Minute Settleable Solids (mL/L)	aeration chamber	320	380	380	480	650

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: June 25, 1995 *Plant Code:* 6/139

Weeks Into Test: 3

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	6.2	5.6	6.6	6.4	6.5
	effluent	2.0	2.1	2.1	2.2	2.0
Temperature (°C)	influent	18	18	18	18	19
	aeration chamber	21	21	21	21	20
	effluent	21	21	21	21	20
pH	influent	7.4	7.5	7.6	7.5	7.5
	aeration chamber	7.7	7.8	7.8	7.7	7.7
	effluent	8.0	7.9	7.9	7.9	8.0
Biochemical Oxygen Demand (mg/L)	influent	210	210	170	120	210
	effluent	<5	<5	<5	<5	<5
Suspended Solids (mg/L)	influent	370	370	270	210	310
	aeration chamber	450	440	410	420	400
	effluent	<5	<5	<5	<5	<5
Volatile Suspended Solids (mg/L)	influent	290	290	210	180	270
	aeration chamber	360	360	350	350	360
	effluent	<5	<5	<5	<5	<5
45 Minute Settleable Solids (mL/L)	aeration chamber	480	550	500	600	700

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: July 2, 1995 *Plant Code:* 6/139

Weeks Into Test: 4

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	5.9	5.4	5.9	5.2	3.9
	effluent	1.3	1.0	1.3	1.2	1.1
Temperature (°C)	influent	18	18	19	19	19
	aeration chamber	20	20	20	20	20
	effluent	20	20	20	20	20
pH	influent	7.8	7.8	7.8	7.6	7.7
	aeration chamber	7.5	7.7	7.7	7.6	7.6
	effluent	8.0	7.9	7.9	8.0	8.0
Biochemical Oxygen Demand (mg/L)	influent	160	170	170	150	160
	effluent	5	<5	<5	<5	<5
Suspended Solids (mg/L)	influent	160	180	180	180	190
	aeration chamber	460	480	490	460	480
	effluent	6	<5	<5	<5	<5
Volatile Suspended Solids (mg/L)	influent	140	150	150	150	170
	aeration chamber	380	420	430	380	410
	effluent	<5	<5	<5	<5	<5
45 Minute Settleable Solids (mL/L)	aeration chamber	800	950	900	850	1000

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: July 9, 1995 *Plant Code:* 6/139

Weeks Into Test: 5

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	5.8	5.5	5.2	4.2	4.2
	Effluent	1.7	1.9	1.6	1.7	1.9
Temperature (°C)	influent	(1)	19	19	20	19
	aeration chamber	20	20	20	20	21
	effluent	20	20	20	20	21
pH	influent	(1)	7.9	7.7	7.8	(1)
	aeration chamber	7.8	7.7	7.6	7.8	(1)
	effluent	7.9	7.9	7.9	8.1	(1)
Biochemical Oxygen Demand (mg/L)	influent	(1)	150	200	200	170
	effluent	<5	<5	<5	<5	<5
Suspended Solids (mg/L)	influent	(1)	220	190	260	220
	aeration chamber	490	420	420	450	460
	effluent	6	<5	<5	<5	<5
Volatile Suspended Solids (mg/L)	influent	(1)	190	170	220	190
	aeration chamber	430	360	360	370	400
	effluent	6	<5	<5	<5	<5
45 Minute Settleable Solids (mL/L)	aeration chamber	700	350	280	270	300

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: No influent sample on 7/10 because of sampler problem; no pH readings on 7/14 because of malfunction of the pH meter.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: July 16, 1995 *Plant Code:* 6/139

Weeks Into Test: 6

Weekend Dosing: Sunday - 412 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	275	412	500	500
Dissolved Oxygen (mg/L)	aeration chamber	6.0	4.8	5.4	5.9	5.6
	effluent	2.5	2.0	1.9	2.4	2.4
Temperature (°C)	influent	20	20	20	19	19
	aeration chamber	22	22	22	22	22
	effluent	22	22	22	22	22
pH	influent	7.5	7.6	7.6	7.6	7.5
	aeration chamber	7.7	7.5	7.6	7.5	7.4
	effluent	7.9	7.9	7.9	7.9	7.8
Biochemical Oxygen Demand (mg/L)	influent	220	160	310	200	170
	effluent	<5	<5	<5	<5	5
Suspended Solids (mg/L)	influent	280	210	300	270	190
	aeration chamber	390	430	380	350	440
	effluent	<5	<5	<5	<5	9
Volatile Suspended Solids (mg/L)	influent	230	180	260	220	170
	aeration chamber	340	370	340	300	380
	effluent	<5	<5	<5	<5	8
45 Minute Settleable Solids (mL/L)	aeration chamber	320	480	300	300	410

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Low dosing on 7/16, 7/18 and 7/19 caused by problem with influent pumps.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: July 23, 1995 *Plant Code:* 6/139

Weeks Into Test: 7

Weekend Dosing: *Sunday -* 269 gallons *Saturday -* 125 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		469	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	6.8	6.4	5.9	5.6	5.4
	effluent	(1)	2.3	3.0	2.8	2.4
Temperature (°C)	influent	20	20	20	20	19
	aeration chamber	22	22	22	22	22
	effluent	(1)	22	22	22	22
pH	influent	7.5	7.8	7.4	7.5	7.5
	aeration chamber	7.5	7.6	7.5	7.5	7.6
	effluent	(1)	7.9	7.8	7.8	8.0
Biochemical Oxygen Demand (mg/L)	influent	220	150	150	160	150
	effluent	(1)	5	<5	<5	5
Suspended Solids (mg/L)	influent	180	240	160	190	150
	aeration chamber	(1)	300	280	310	310
	effluent	(1)	15	8	9	9
Volatile Suspended Solids (mg/L)	influent	150	190	140	170	140
	aeration chamber	(1)	260	240	270	260
	effluent	(1)	13	7	8	8
45 Minute Settleable Solids (mL/L)	aeration chamber	160	120	100	125	130

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Low dosing on 7/23 and 7/24 caused by problem with float in dosing tank; low doses on 7/30 caused by problem with influent pump. No final effluent sample on 7/25 because of sampler problem.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: July 30, 1995 *Plant Code:* 6/139

Weeks Into Test: 8

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	450	500
Dissolved Oxygen (mg/L)	aeration chamber	5.7	5.4	5.7	5.0	5.4
	effluent	2.4	2.1	2.4	2.2	2.1
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	22	22	22	22	22
	effluent	22	22	22	23	23
pH	influent	7.7	7.5	7.5	7.5	7.4
	aeration chamber	7.7	7.7	7.7	7.6	7.7
	effluent	7.9	7.9	7.8	7.8	7.8
Biochemical Oxygen Demand (mg/L)	influent	190	150	150	150	120
	effluent	5	<5	6	6	6
Suspended Solids (mg/L)	influent	200	230	280	220	150
	aeration chamber	280	320	310	330	300
	effluent	10	23	16	13	11
Volatile Suspended Solids (mg/L)	influent	160	210	210	170	120
	aeration chamber	240	270	250	280	260
	effluent	10	18	14	11	10
45 Minute Settleable Solids (mL/L)	aeration chamber	150	150	210	120	50

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 8/3 caused by float problem in the Chelsea site dosing system.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: August 6, 1995 *Plant Code:* 6/139

Weeks into Test: 9

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	5.0	4.4	4.6	4.8	5.3
	effluent	1.9	1.5	1.6	1.5	1.4
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	22	22	22	22	22
	effluent	22	22	22	22	22
pH	influent	7.4	7.5	7.6	7.7	7.5
	aeration chamber	7.7	7.7	7.7	7.7	7.6
	effluent	7.9	7.9	7.9	8.0	7.9
Biochemical Oxygen Demand (mg/L)	influent	150	160	190	360	160
	effluent	6	<5	<5	<5	<5
Suspended Solids (mg/L)	influent	150	200	220	280	180
	aeration chamber	430	510	470	510	500
	effluent	6	7	<5	5	<5
Volatile Suspended Solids (mg/L)	influent	130	170	190	240	160
	aeration chamber	360	430	400	340	440
	effluent	<5	7	<5	<5	<5
45 Minute Settleable Solids (mL/L)	aeration chamber	280	500	580	500	600

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: August 13, 1995 *Plant Code:* 6/139

Weeks into Test: 10

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	4.3	3.9	3.7	4.0	3.6
	effluent	1.1	1.0	1.1	1.3	1.3
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	23	23	23	23	23
	effluent	23	23	23	23	23
pH	influent	7.6	7.5	7.5	7.7	7.7
	aeration chamber	7.7	7.6	7.6	7.7	7.7
	effluent	7.9	7.8	7.9	8.0	7.9
Biochemical Oxygen Demand (mg/L)	influent	210	190	190	190	140
	effluent	<5	<5	6	5	6
Suspended Solids (mg/L)	influent	240	290	260	210	280
	aeration chamber	630	630	610	580	620
	effluent	6	6	6	8	8
Volatile Suspended Solids (mg/L)	influent	210	250	230	180	210
	aeration chamber	520	520	510	490	510
	effluent	5	<5	6	7	7
45 Minute Settleable Solids (mL/L)	aeration chamber	580	460	510	620	500

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: August 20, 1995 *Plant Code:* 6/139

Weeks Into Test: 11

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		463	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	4.3	4.3	3.7	4.6	4.1
	effluent	1.3	1.7	1.0	1.0	1.2
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	23	23	23	23	23
	effluent	23	23	23	23	23
pH	influent	7.7	7.7	7.7	7.6	7.5
	aeration chamber	7.7	7.7	7.7	7.7	7.7
	effluent	7.9	7.9	7.9	7.9	7.8
Biochemical Oxygen Demand (mg/L)	influent	190	190	180	200	200
	effluent	<5	<5	<5	<5	<5
Suspended Solids (mg/L)	influent	290	240	210	270	290
	aeration chamber	620	590	620	660	660
	effluent	7	6	5	7	7
Volatile Suspended Solids (mg/L)	influent	250	210	200	240	250
	aeration chamber	500	480	510	540	540
	effluent	7	<5	<5	6	6
45 Minute Settleable Solids (mL/L)	aeration chamber	800	800	900	790	700

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 8/21 due to a problem with the Chelsea site dosing system.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: August 27, 1995 *Plant Code:* 6/139

Weeks Into Test: 12

Weekend Dosing: Sunday - 263 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	4.5	4.0	4.2	3.3	3.9
	effluent	1.5	1.2	1.1	1.0	1.5
Temperature (°C)	influent	20	21	20	21	20
	aeration chamber	23	23	23	23	23
	effluent	23	23	23	23	23
pH	influent	7.5	7.6	7.7	7.7	7.7
	aeration chamber	7.7	7.7	7.7	7.6	7.7
	effluent	8.0	7.9	7.9	8.0	7.9
Biochemical Oxygen Demand (mg/L)	influent	230	200	200	250	160
	effluent	5	5	5	<5	5
Suspended Solids (mg/L)	influent	440	250	330	450	270
	aeration chamber	720	680	640	760	700
	effluent	9	14	10	8	7
Volatile Suspended Solids (mg/L)	influent	370	200	280	360	200
	aeration chamber	600	540	510	610	540
	effluent	8	10	8	6	6
45 Minute Settleable Solids (mL/L)	aeration chamber	800	560	700	500	780

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 8/27 due to a plugged Chelsea site influent pump.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: September 3, 1995 *Plant Code:* 6/139

Weeks Into Test: 13

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	481	500
Dissolved Oxygen (mg/L)	aeration chamber	4.3	3.6	3.9	3.3	2.8
	effluent	1.1	1.3	1.1	1.0	1.4
Temperature (°C)	influent	19	20	20	21	20
	aeration chamber	23	23	23	23	23
	effluent	23	23	23	23	23
pH	influent	7.7	7.7	7.7	7.6	7.7
	aeration chamber	7.6	7.7	7.6	7.7	7.6
	effluent	7.8	8.0	7.9	8.0	7.8
Biochemical Oxygen Demand (mg/L)	influent	(4)	190	220	250	220
	effluent	(4)	<5	5	7	8
Suspended Solids (mg/L)	influent	(4)	360	320	350	310
	aeration chamber	(4)	810	810	880	900
	effluent	(4)	7	8	13	12
Volatile Suspended Solids (mg/L)	influent	(4)	330	270	310	260
	aeration chamber	(4)	660	640	700	720
	effluent	(4)	6	6	11	12
45 Minute Settleable Solids (mL/L)	aeration chamber	680	600	520	800	700

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 9/7 due to a plugged Chelsea site influent pump. Samples lost due to laboratory error on 9/4.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: September 10, 1995 *Plant Code:* 6/139

Weeks Into Test: 14

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	4.2	3.2	4.1	3.4	4.4
	effluent	1.8	1.7	1.6	1.5	1.6
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	22	22	21	21	21
	effluent	22	21	21	21	21
pH	influent	7.7	7.7	7.7	7.6	7.6
	aeration chamber	7.6	7.6	7.5	7.5	7.5
	effluent	7.9	7.9	7.8	7.9	7.9
Biochemical Oxygen Demand (mg/L)	influent	190	160	160	180	170
	effluent	8	6	7	9	8
Suspended Solids (mg/L)	influent	230	250	210	180	200
	aeration chamber	890	910	920	980	880
	effluent	14	13	16	20	16
Volatile Suspended Solids (mg/L)	influent	190	230	180	160	170
	aeration chamber	700	720	730	770	710
	effluent	12	12	13	16	12
45 Minute Settleable Solids (mL/L)	aeration chamber	490	500	700	500	570

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: September 17, 1995 Plant Code: 6/139

Weeks Into Test: 15

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	3.8	4.4	4.4	4.3	5.0
	effluent	1.4	1.7	1.5	1.9	1.5
Temperature (°C)	influent	20	20	20	20	20
	aeration chamber	21	21	21	21	20
	effluent	21	21	21	21	20
pH	influent	7.6	7.6	7.7	7.6	7.7
	aeration chamber	7.6	7.7	7.6	7.6	7.6
	effluent	7.9	7.8	7.9	7.9	7.9
Biochemical Oxygen Demand (mg/L)	influent	210	160	160	140	160
	effluent	6	7	7	5	6
Suspended Solids (mg/L)	influent	240	190	180	200	200
	aeration chamber	1000	1000	1100	1100	1200
	effluent	14	20	14	15	16
Volatile Suspended Solids (mg/L)	influent	240	170	160	170	170
	aeration chamber	800	810	840	840	920
	effluent	10	18	11	12	12
45 Minute Settleable Solids (mL/L)	aeration chamber	540	500	650	620	550

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: September 24, 1995 Plant Code: 6/139

Weeks Into Test: 16

Weekend Dosing: Sunday - 500 gallons Saturday - 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	4.4	4.6	4.0	5.0	4.4
	effluent	1.4	2.0	1.4	1.4	1.9
Temperature (°C)	influent	19	19	19	19	19
	aeration chamber	19	19	19	19	19
	effluent	19	19	19	19	19
pH	influent	7.7	7.7	7.8	7.7	7.7
	aeration chamber	7.7	7.6	7.6	7.7	7.7
	effluent	8.0	8.0	7.9	7.8	7.9
Biochemical Oxygen Demand (mg/L)	influent	160	160	180	200	210
	effluent	7	6	7	7	9
Suspended Solids (mg/L)	influent	220	250	240	220	200
	aeration chamber	1000	1000	1000	1100	1100
	effluent	20	18	19	18	18
Volatile Suspended Solids (mg/L)	influent	190	220	210	200	180
	aeration chamber	810	830	820	880	880
	effluent	16	16	16	16	14
45 Minute Settleable Solids (mL/L)	aeration chamber	540	450	330	400	590

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: October 1, 1995 *Plant Code:* 6/139

Weeks into Test: 17

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		431	463	431	463	431	463	506
Dissolved Oxygen (mg/L)	*aeration chamber*		4.5					
	effluent		1.5					
Temperature (°C)	*influent*		19					
	aeration chamber		20					
	effluent		19					
pH	*influent*		7.6					
	aeration chamber		7.7					
	effluent		7.9		8.0		7.9	
Biochemical Oxygen Demand (mg/L)	*influent*		220		170		150	
	effluent		7		6		8	
Suspended Solids (mg/L)	*influent*		260		240		260	
	aeration chamber		1100					
	effluent		15		12		18	
Volatile Suspended Solids (mg/L)	*influent*		220		210		220	
	aeration chamber		840					
	effluent		12		12		12	
45 Minute Settleable Solids (mL/L)	*aeration chamber*		450					

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Wash day stress 10/2 through 10/6.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: October 8, 1995 *Plant Code:* 6/139

Weeks into Test: 18

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		500	500	500	500	500	500	463
Dissolved Oxygen (mg/L)	*aeration chamber*	5.5	5.0	5.2	4.5	5.0	5.5	5.8
	effluent	2.0	2.2	2.0	2.2	2.2	2.5	2.0
Temperature (°C)	*influent*	18	19	19	19	19	18	18
	aeration chamber	19	18	18	18	18	19	19
	effluent	18	18	18	18	18	18	18
pH	*influent*	7.8	7.5	7.5	7.5	7.5	7.6	7.5
	aeration chamber	7.6	7.6	7.5	7.5	7.5	7.5	7.5
	effluent	7.9	7.9	7.8	7.9	7.8	8.0	7.9
Biochemical Oxygen Demand (mg/L)	*influent*	140	190	200	180	170	150	180
	effluent	<5	<5	<5	<5	<5	<5	<5
Suspended Solids (mg/L)	*influent*	140	220	220	240	200	180	210
	aeration chamber	820	880	960	980	1000	1100	1100
	effluent	8	10	8	10	11	9	7
Volatile Suspended Solids (mg/L)	*influent*	120	200	190	210	170	160	190
	aeration chamber	620	680	760	780	810	880	860
	effluent	6	8	8	8	9	8	6
45 Minute Settleable Solids (mL/L)	*aeration chamber*	520	340	380	400	510	440	450

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Working parent stress started 10/14.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: October 15, 1995 *Plant Code:* 6/139

Weeks Into Test: 19

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		463	463	463	438	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber						4.7	4.2
	effluent						1.6	1.2
Temperature (°C)	influent						18	17
	aeration chamber						18	18
	effluent						18	18
pH	influent						7.7	7.9
	aeration chamber						7.6	7.5
	effluent		7.9		8.0		7.9	7.9
Biochemical Oxygen Demand (mg/L)	influent		170		170		160	180
	effluent		<5		5		<5	<5
Suspended Solids (mg/L)	influent		170		230		260	250
	aeration chamber						1100	1200
	effluent		9		12		12	8
Volatile Suspended Solids (mg/L)	influent		160		210		220	210
	aeration chamber						860	900
	effluent		8		10		10	6
45 Minute Settleable Solids (mL/L)	aeration chamber						640	680

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Working parent stress ended 10/18.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: October 22, 1995 *Plant Code:* 6/139

Weeks Into Test: 20

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		506	500	500	500	325	0	438
Dissolved Oxygen (mg/L)	aeration chamber	4.4	6.0	4.7	5.1	5.8		
	effluent	1.3	1.5	1.4	1.4	1.5		
Temperature (°C)	influent	17	18	18	18	17		
	aeration chamber	17	17	17	17	17		
	effluent	17	17	17	17	17		
pH	influent	7.9	7.5	7.9	7.7	7.8		
	aeration chamber	7.6	7.8	7.6	7.5	7.6		
	effluent	8.0	8.0	8.0	7.8	7.9		
Biochemical Oxygen Demand (mg/L)	influent	140	170	170	180	180		
	effluent	<5	<5	<5	<5	6		
Suspended Solids (mg/L)	influent	150	220	270	320	280		
	aeration chamber	1000	1100	1300	1200	1100		
	effluent	8	8	8	10	9		
Volatile Suspended Solids (mg/L)	influent	130	190	220	250	210		
	aeration chamber	820	840	990	930	880		
	effluent	6	6	7	8	8		
45 Minute Settleable Solids (mL/L)	aeration chamber	500	640	590	580	520		

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Power failure stress 10/26 through 10/28.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: October 29, 1995 *Plant Code:* 6/139

Weeks Into Test: 21

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		500	500	500	500	506	500	500
Dissolved Oxygen (mg/L)	*aeration chamber*		6.2	5.9	6.4	5.9	5.9	4.1
	effluent		1.6	1.5	1.9	1.4	1.9	1.5
Temperature (°C)	*influent*		18	17	18	17	17	16
	aeration chamber		16	15	16	16	16	16
	effluent		16	16	16	16	16	16
pH	*influent*		7.7	7.9	7.8	7.6	7.6	7.8
	aeration chamber		7.7	7.5	7.7	7.6	7.5	7.4
	effluent	7.9	8.0	7.9	8.0	8.0	7.9	7.7
Biochemical Oxygen Demand (mg/L)	*influent*	160	200	160	150	170	140	160
	effluent	10	5	<5	<5	<5	5	7
Suspended Solids (mg/L)	*influent*	180	220	170	200	250	200	160
	aeration chamber		930	880	880	890	940	940
	effluent	18	9	9	8	10	8	6
Volatile Suspended Solids (mg/L)	*influent*	160	190	160	170	210	160	140
	aeration chamber		730	700	680	690	730	750
	effluent	15	6	7	6	6	6	<5
45 Minute Settleable Solids (mL/L)	*aeration chamber*		540	350	500	330	490	460

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: November 5, 1995 *Plant Code:* 6/139

Weeks Into Test: 22

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		325	0	0	0	0	0	0
Dissolved Oxygen (mg/L)	*aeration chamber*	4.5						
	effluent	1.8						
Temperature (°C)	*influent*	16						
	aeration chamber	16						
	effluent	15						
pH	*influent*	7.8						
	aeration chamber	7.5						
	effluent	7.7						
Biochemical Oxygen Demand (mg/L)	*influent*	170						
	effluent	<5						
Suspended Solids (mg/L)	*influent*	150						
	aeration chamber	1000						
	effluent	7						
Volatile Suspended Solids (mg/L)	*influent*	140						
	aeration chamber	800						
	effluent	6						
45 Minute Settleable Solids (mL/L)	*aeration chamber*	580						

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Vacation stress started 11/5.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: November 12, 1995 *Plant Code:* 6/139

Weeks Into Test: 23

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		0	0	369	500	500	500	500
Dissolved Oxygen (mg/L)	*aeration chamber*					8.4	8.7	8.1
	effluent					3.0	4.1	3.4
Temperature (°C)	*influent*					16	16	15
	aeration chamber					13	13	13
	effluent					12	13	12
pH	*influent*					7.7	7.7	7.8
	aeration chamber					7.8	7.7	7.7
	effluent				8.0	8.0	7.8	8.0
Biochemical Oxygen Demand (mg/L)	*influent*				160	150	150	150
	effluent				14	20	15	14
Suspended Solids (mg/L)	*influent*				190	180	180	200
	aeration chamber					640	600	600
	effluent				31	33	26	18
Volatile Suspended Solids (mg/L)	*influent*				160	160	160	180
	aeration chamber					480	440	480
	effluent				22	25	18	16
45 Minute Settleable Solids (mL/L)	*aeration chamber*					160	160	200

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Vacation stress ended 11/14/95.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Stress Test Evaluation

Week Beginning: November 19, 1995 *Plant Code:* 6/139

Weeks Into Test: 24

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Dosed Volume (gallons)		500	500	500	500	450	500	500
Dissolved Oxygen (mg/L)	*aeration chamber*	6.8	5.5	6.8	7.0	7.8	7.8	
	effluent	2.7	2.4	2.2	2.2	2.1	2.4	
Temperature (°C)	*influent*	14	15	16	15	15	14	
	aeration chamber	12	13	13	13	12	12	
	effluent	12	12	12	12	12	12	
pH	*influent*	7.8	7.7	7.8	7.9	7.8	7.8	
	aeration chamber	7.7	7.7	7.6	7.8	7.7	7.6	
	effluent	7.9	8.0	8.0	7.9	8.0	7.9	
Biochemical Oxygen Demand (mg/L)	*influent*	130	170	170	180	150	260	
	effluent	9	7	6	5	6	7	
Suspended Solids (mg/L)	*influent*	170	220	230	220	170	300	
	aeration chamber	570	810	770	560	580	570	
	effluent	13	10	9	8	10	8	
Volatile Suspended Solids (mg/L)	*influent*	150	200	210	190	160	270	
	aeration chamber	480	640	600	420	460	470	
	effluent	12	8	8	6	8	8	
45 Minute Settleable Solids (mL/L)	*aeration chamber*	200	280	260	180	150	200	

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 11/23 due to a problem with the Chelsea site dosing system.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: November 26, 1995 *Plant Code:* 6/139

Weeks Into Test: 25

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	238
Dissolved Oxygen (mg/L)	aeration chamber	7.9	9.0	7.5	7.1	7.8
	effluent	2.1	2.5	2.4	2.5	2.7
Temperature (°C)	influent	15	15	15	15	15
	aeration chamber	12	12	12	12	12
	effluent	12	12	12	12	12
pH	influent	7.8	7.7	7.8	7.8	7.8
	aeration chamber	7.6	7.7	7.6	7.7	7.7
	effluent	8.0	8.0	7.9	8.0	7.9
Biochemical Oxygen Demand (mg/L)	influent	200	200	170	150	160
	effluent	7	11	10	6	6
Suspended Solids (mg/L)	influent	270	260	290	230	200
	aeration chamber	660	700	670	680	580
	effluent	9	12	8	10	10
Volatile Suspended Solids (mg/L)	influent	230	210	240	190	180
	aeration chamber	640	530	540	530	470
	effluent	7	8	7	8	8
45 Minute Settleable Solids (mL/L)	aeration chamber	200	190	200	200	180

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes: Dosing shortage on 12/1 caused by a clogged Chelsea site influent pump.

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: December 3, 1995 *Plant Code:* 6/139

Weeks Into Test: 26

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	8.1	7.6	8.4	7.6	8.0
	effluent	2.6	2.3	2.8	3.0	3.1
Temperature (°C)	influent	15	15	15	15	14
	aeration chamber	12	12	12	12	11
	effluent	12	12	12	11	11
pH	influent	7.6	7.8	7.8	7.7	7.8
	aeration chamber	7.7	7.7	7.7	7.7	7.7
	effluent	7.9	7.9	8.0	7.9	8.0
Biochemical Oxygen Demand (mg/L)	influent	230	160	210	220	190
	effluent	7	7	10	18	10
Suspended Solids (mg/L)	influent	220	240	230	270	200
	aeration chamber	600	730	720	650	620
	effluent	12	18	16	37	14
Volatile Suspended Solids (mg/L)	influent	200	200	200	240	170
	aeration chamber	480	580	570	520	490
	effluent	10	14	12	30	12
45 Minute Settleable Solids (mL/L)	aeration chamber	150	200	190	150	160

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: December 10, 1995 *Plant Code:* 6/139

Weeks Into Test: 27

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 506 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	8.6	8.4	8.8	8.6	8.4
	effluent	3.3	3.4	3.4	3.1	3.5
Temperature (°C)	influent	14	13	14	14	13
	aeration chamber	11	10	10	10	10
	effluent	10	11	10	10	10
pH	influent	7.8	7.8	7.9	7.8	7.8
	aeration chamber	7.7	7.7	7.7	7.6	7.6
	effluent	7.9	7.9	7.9	7.9	7.8
Biochemical Oxygen Demand (mg/L)	influent	190	170	170	180	170
	effluent	8	8	10	9	10
Suspended Solids (mg/L)	influent	210	210	230	210	250
	aeration chamber	540	560	580	550	580
	effluent	16	15	18	16	17
Volatile Suspended Solids (mg/L)	influent	190	180	200	180	210
	aeration chamber	460	460	480	440	470
	effluent	16	12	14	13	12
45 Minute Settleable Solids (mL/L)	aeration chamber	130	130	125	120	130

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

NSF *International*
Standard 40 - Individual Wastewater Treatment Plants
Plant Effluent

Week Beginning: December 17, 1995 *Plant Code:* 6/139

Weeks Into Test: 28

Weekend Dosing: *Sunday -* 500 gallons *Saturday -* 500 gallons

		Monday	Tuesday	Wednesday	Thursday	Friday
Dosed Volume (gallons)		500	500	500	500	500
Dissolved Oxygen (mg/L)	aeration chamber	8.5	8.5	7.7	8.3	7.6
	effluent	3.9	3.4	3.3	3.5	3.0
Temperature (°C)	influent	14	14	13	13	13
	aeration chamber	10	10	10	10	10
	effluent	10	10	10	10	10
pH	influent	7.8	7.8	7.8	7.9	7.7
	aeration chamber	7.7	7.7	7.7	7.7	7.7
	effluent	7.8	7.9	7.8	7.9	7.9
Biochemical Oxygen Demand (mg/L)	influent	210	200	230	200	210
	effluent	11	10	10	10	12
Suspended Solids (mg/L)	influent	200	300	290	260	210
	aeration chamber	540	570	560	580	650
	effluent	27	23	18	19	23
Volatile Suspended Solids (mg/L)	influent	180	250	260	230	180
	aeration chamber	440	460	480	480	520
	effluent	23	18	17	16	17
45 Minute Settleable Solids (mL/L)	aeration chamber	130	120	120	120	130

(1) Site problem
(2) Malfunction of system under test
(3) Weather problem
(4) Other

Notes:

TGS/3-92

Public Notice Required General Permit Route Sheet

Facility Name	Ora Wiley		
Permit Number	ARG550416	AFIN NO.*	50-00216
Stream Segment: 2G	Receiving Stream:	Onion Creek	

Assigned	Activity	Initials	Date Complete/Entered
Sect.	Application Logged/Assign Tracking Number/Place in purple folder with appropriate route sheet and filing folders (1-day)	BC	N/A
Engineer	Completeness and Technical Review/Enter permit information into Database *except NOI date*(3-days)	BR	4/11/2012
AA (Max of 5 business days)	AFIN request (1-day)	YMR	4/11
	Enter AFIN and other information into PDS and NPDES database prior to requesting invoice (same day)	YMR	4/12
	Complete Invoice Request Form and submit Invoice Request (same day)		
	Prepare Authorization letter and attach appropriate permit, forms (1-day)*date at least 7 business days out*	YMR	4/27
Engineer	Review/organize folder for scanning (1-day)	BR	4/27/2012
Engineer Supervisor	Review all the documents/permits/ perform technical review for the proposed project. (1-day)		5/1/12
Sect.	Scan NOI E:/ drive for Public Notice (1-day)		
Engineer Supervisor	Upload NOI to website for 5-day Public Notice, notify engineer of NOI completion date in Database Give folder to engineer until PN complete (5-days)		
Assistant Chief	Review the documents and sign the authorization letter or the permit. (1-day)		
AA	Enter Into PDS: Permit Status/Effective Date. Input effective date in access database. (1-day)	YMR	5-1
Sect.	Mail original to applicant. Scan complete folder and place in appropriate E-drive folders. Update Zylab. Be sure to include this permit in weekly report, due every Tuesday by 2:00 P.M.	B	5-2

REMARKS: _____