













# Virginia Innovative Approval Sampling Results

2675 Lam-Conley Lane, Elkton, VA 22827 Daniel Cook Class IV

This System Performance Sheet records test results from effluent samples taken at key points throughout the wastewater treatment system.

In addition, here are some quick system facts and a legend for the wastewater characteristics. See the flow configuration below.

## Quick Facts

**Building / Facilities:** 3 bdm  
**Occupants:** 3  
**Start-up:** 9/8/2003  
**Location:** Rockingham County  
**Designer / Engineer:** Valley Engineering and Planning  
**Contractor / Installer:** Soil Services Inc.  
**Regulating Authority:** Rockingham County Health Department  
**Design Flows:** 450 gpd  
**System Configuration:** AX20 Mode 3b  
**Processing tank:** 1500 gallon 2 compartment  
**Dosing Tank:** 1000 gallon  
**Disposal Treatment System:** 3078 ft2 drip

**Notes:** Class IV soils  
 Pod #201720  
 MVP  
 Drip returns to the primary side of processing tank

Qave = 0 T \*ON\* = 30 sec  
 Rb:R = 3.5 T \*OFF\* = #DIV/0!

## Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)  
 cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)  
 TSS: Total Suspended Solids  
 TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)  
 NH3-n: Ammonia-Nitrogen  
 NO2-n: Nitrite-Nitrogen  
 NO3-n: Nitrate-Nitrogen  
 TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)  
 DO: Dissolved Oxygen  
 pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically  
 Alk: Alkalinity  
 TP: Total Phosphorus  
 G&O: Grease and Oil  
 FC: Fecal Coliform  
 Baseline Data: When available, represents the level of performance of the Primary Septic Tank w/o recirc-filter operation.

> Numbers shown in italics were actually reported as greater than  
 Numbers shaded were actually reported as less than  
 Shaded boxes indicate outliers that were removed. See notes for #.

Sample Date	Test Type	GPD	Recirculation Tank													AdvanTex Effluent													Lysimeter #1					Lysimeter #2					Lysimeter #3 (Background)									
			cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli		
			mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml				
10/21/2003	Quarterly		17.8	15	10	4.9	0.66	6.1	11				53	164	2419	2	1.4	0.9	2.3	0.2	6.5	8.8			63.5	162	1046																					
1/16/2004	Quarterly		15.2	26.1	6.5	4.1	0.45	12.5	17	7.6	8.5		65	147	200	3.6	1.7	1.5	2.2	0.2	15	17.43	8	8	72	135	38																					
2/17/2004	Monthly												76.5		866										81.5		361																					
3/17/2004	Monthly												71.5		687										65		132																					
6/10/2004	Quarterly		6.7	5.5	3.4	3.4	0.36	8.2	11.8	7.1	14.7		62	171	2419	4.9	11	3	3.4	0.2	12	14.98	7.1	14.7	86.5	160	2419																					
6/10/2004	Monthly												72		2419										84.5		2419																					
7/27/2004	Monthly												74		2419.2										72.5		81.6																					
7/28/2004	Quarterly												101	332	2419	3	11		3.6	0.7	1	4.64	7.1	26.5	79.5	201	2419																					
8/16/2004	Quarterly		10	9	1.8	4.8	1.2	2.1	7.2	6.9	26	34	176	1600	3	2	0.4	1.3	1.3	5.1	6.4	7.1	24.8	32	163	350																						
9/13/2004	Monthly												36		1600										36		140																					
10/4/2004	Monthly												28		1600										28		1600																					
11/1/2004	Quarterly		16	8	2.7	17	1.4	3	21	6.8	18	30	152	1600	4	2	0.4	9	0.1	5.1	14.1	6.7	18	27	116	2																						
12/06/04	Monthly												23		3000										28		2																					
1/10/2005	Monthly												22		8000										25		59																					
2/7/2005	Monthly		5	9	4.9	1.6	0.8	7.2	8.8	6.8	11.3	22	120	1600	2	2	0.5	0.3	0.2	9.2	9.5	7.1	9.1	22	116	1600																						
3/14/2005	Monthly												19		70										21		500																					
5/2/2005	Quarterly		14	7	8.2	2.9	2.3	1.5		6.7	16.8	32	156	6700	2	4	1.6	0.8	0.4	4.6		6.8	15	32	140	400																						
6/3/2005	Monthly												11		9000										10		800																					
<b>AVE:</b>			<b>12</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>13</b>	<b>17</b>	<b>46</b>	<b>177</b>	<b>1672</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>7</b>	<b>11</b>	<b>17</b>	<b>48</b>	<b>149</b>	<b>245</b>	<b>Dry</b>							<b>Dry</b>						<b>2</b>	<b>Dry</b>						<b>1</b>			

# Virginia Innovative Approval Sampling Results

3815 Summit Crossing Road, Fredricksburg, VA 22408 Homeowner: Jerod FoClass: IV

This System Performance Sheet records test results from effluent samples taken at key points throughout the wastewater treatment system.

In addition, here are some quick system facts and a legend for the wastewater characteristics. See the flow configuration below.

## Quick Facts

**Building / Facilities:** 4 bdrm  
**Occupants:** 5  
**Start-up:**  
**Location:** Spotsylvania County  
**Designer / Engineer:**  
**Contractor / Installer:**  
**Regulating Authority:** Spotsylvania County Health Department  
**Design Flows:** 600 gpd  
**System Configuration:** AX20 Mode 3  
**Processing tank:** 1500 gallon 2 compartment  
**Discharge Tank:** 1000 gallon  
**Disposal Treatment System:** 2000 ft2, reduced footprint

**Notes:** Water Softener  
 Appearance of pod is poor. It has a gelatinous, yellow film growing on it.  
 Sheets are bridged with the gelatinous material.  
 Discharge pump rate = 54.9 gpm

## Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)  
 cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)  
 TSS: Total Suspended Solids  
 TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)  
 NH3-n: Ammonia-Nitrogen  
 NO2-n: Nitrite-Nitrogen  
 NO3-n: Nitrate-Nitrogen  
 TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)  
 DO: Dissolved Oxygen  
 pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically  
 Alk: Alkalinity  
 TP: Total Phosphorus  
 G&O: Grease and Oil  
 FC: Fecal Coliform  
 Baseline Data: When available, represents the level of performance of the Primary Septic Tank w/o recirc-filter operation.

Qave = 0 T "ON" = 30 sec  
 Rb:R = 3.5 T "OFF" = #####

> Numbers shown in *italics* were actually reported as greater than  
 Numbers shaded were actually reported as less than  
 Shaded boxes indicate outliers that were removed. See notes for #.

Sample Date	Test Type	GPD	Recirculation Tank											AdvanTex Effluent											Lysimeter #1					Lysimeter #2					Lysimeter #3 (Background)															
			cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E.Coli	cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E.Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli				
			mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml						
2/24/2005	Quarterly		154	70	21	56	46	11	67				347																																					
2/24/2005	Monthly												9600																																					
4/1/2005	Quarterly		76	64	54	66	45	1	67	6.9	10.1	182	334	45	46	27	58	42	2.3	60	6.8	9.2	203	298																										
4/1/2005	Monthly											1210											443	63																										
4/26/2005	Monthly									7.2	16.6	64											60	5475																										
5/25/2005	Quarterly		74		26	60	56	0.3	60	6.8	14.8	83	336	40	60	16	58	52	1.9	59	6.7	16.1	81	328																										
5/25/2005	Monthly											1900												830																										
6/28/2005	Monthly																																																	
7/26/2005	Monthly																																																	
8/19/2005	Quarterly		24	29	15	16	6.1	5	20			260												222																										
8/19/2005	Monthly									7	24.2	55											50	10																										
9/29/2005	Monthly									6.7	22.5	72											81	10																										
10/24/2005	Monthly									6.7	21	47	200000												24196																									
11/28/2005	Quarterly		71	38	8	14.3	7.9	2.6	17			363												180																										
11/28/2005	Monthly									6.8	17.9	72												840																										
12/23/2005	Monthly									6.6	14.8	51												354																										
1/27/2006	Monthly									7.1	14	54	14000												2000																									
2/24/2006	Quarterly		24	27	16	9	2.7	0.2	9			198												174																										
2/24/2006	Monthly									6.7	13.4	52												220																										
3/24/2006	Monthly									6.6	15.2	59												17329																										
4/28/2006	Monthly									6.4	19.6	45												1223																										
5/25/2006	Quarterly		30	38	24	19	3.2	0.6	20	6.7	20.1	44	45											169																										
6/30/2006	Monthly									6.4	26.3	40												1710																										
6/30/2006	Quarterly													2	3	1.7	5	0.8	5.3	5	6.6	26	40	106																										
7/28/2006	Monthly									6.3	27.5	53												368																										
8/30/2006	Quarterly		19	62	19	7.8	3.7	0.5	8.3	6.6	26.9	44	161	2	4	2.2	2.5	0.3	4.3	6.8	6.1	27.7	54	128																										
8/30/2006	Monthly												241960												9208																									
<b>AVE:</b>			<b>59</b>	<b>47</b>	<b>23</b>	<b>31</b>	<b>21</b>	<b>3</b>	<b>34</b>	<b>19</b>	<b>64</b>	<b>256</b>	<b>4552</b>	<b>15</b>	<b>21</b>	<b>8</b>	<b>24</b>	<b>18</b>	<b>5</b>	<b>28</b>	<b>19</b>	<b>90</b>	<b>220</b>	<b>753</b>							<b>100</b>	<b>1</b>					<b>59</b>	<b>1</b>					<b>3</b>	<b>1</b>						



# Virginia Innovative Approval Sampling Results

4581 Waterside Drive, Lanexa, VA 23089 Richard Calvert Class II

This System Performance Sheet records test results from effluent samples taken at key points throughout the wastewater treatment system.

In addition, here are some quick system facts and a legend for the wastewater characteristics. See the flow configuration below.

## Quick Facts

Building / Facilities: Single Family Residence

Occupants: 4

Start-up: 8/05/2002 Moved in Sept/Oct

Location: New Kent County

Designer / Engineer: Coastal Plains Environmental Group

Contractor / Installer: Parsley Septic Tanks, Inc.

Regulating Authority: New Kent County

Design Flows: 450 gpd

System Configuration: AX20 Mode 3-MVP

Processing tank: 1500 gallon 2 compartment

Discharge Tank: 1000 gallon

Disposal Treatment System: 800 ft2, reduced footprint, 2 pads

Notes: Class II Soils

Pod # 200294

9.5 min off, 30 sec on. Qave = 52 T "ON" = 30 sec

Rb:R = 3.5 T "OFF" = 91 min

## Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)

cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)

TSS: Total Suspended Solids

TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)

NH3-n: Ammonia-Nitrogen

NO2-n: Nitrite-Nitrogen

NO3-n: Nitrate-Nitrogen

TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)

DO: Dissolved Oxygen

pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically

Alk: Alkalinity

TP: Total Phosphorus

G&O: Grease and Oil

FC: Fecal Coliform

Baseline Data: When available, represents the level of performance of the Primary Septic Tank w/o recirc-filter operation.

> Numbers shown in italics were actually reported as greater than

Numbers shaded were actually reported as less than

Shaded boxes indicate outliers that were removed. See notes for #.

Sample Date	Test Type	GPD	Recirculation Tank											AdvanTex Effluent											Lysimeter #1					Lysimeter #2					Lysimeter #3 (Background)											
			cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli
			mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml
1/6/2003	Quarterly		2	18	0.6	4.3	0.38	9.2	14				51	135		6000	1600	2	2	0.1	2.5	0.2	10	13																			15	1		
1/7/2003	Quarterly																																											1		
1/8/2003	Monthly																																										1			
2/10/2003	Monthly																																										1			
2/11/2003	Monthly																																										1			
3/10/2003	Monthly																																										1			
3/11/2003	Monthly																																										1			
4/7/2003	Monthly																																										1			
4/7/2003	Quarterly		13	16	0.1	6.7	5	33	40	7.9	15.6		106																													1				
4/8/2003	Monthly																																										1			
5/8/2003	Monthly																																										1			
5/9/2003	Monthly																																										1			
6/9/2003	Monthly																																										1			
6/10/2003	Monthly																																										1			
7/8/2003	Quarterly		14	13	0.9	3.2	0.2	1.5	0.2	8.1	15.8	61	158																													1				
7/9/2003	Monthly																																										1			
8/11/2003	Monthly																																										1			
8/12/2003	Monthly																																										1			
9/11/2003	Monthly																																										1			
9/12/2003	Monthly																																										1			
9/26/2003	Monthly																																										1			
10/6/2003	Quarterly		2	17	0.7		19		23.9				235																													1				
10/6/2003	Monthly	56																																								1				
11/12/2003	Monthly	42																																								1				
11/12/2003	Monthly	50																																								1				
12/9/2003	Monthly																																										1			
1/13/2004	Quarterly																																										1			
1/13/2004	Monthly	56		5	1.4	5.3	5.1	4.8	10	9.1	13.2	47.5		156																												1				
1/13/2004	Monthly	42								8.1	11.6	67.5		16000																												1				
2/10/2004	Monthly	50								8	14.4	64.0		1300																												1				
3/9/2004	Monthly																																										1			
4/6/2004	Quarterly		8	7	0.6	5.2	2	12.7	18	8	16.6	38.0		86																												1				
4/6/2004	Monthly	41								7	22.4	48.0		2900																												1				
5/11/2004	Monthly	69																																								1				
6/8/2004	Quarterly		2	11	1.1	4.6	1.2	7.5	12	6.8	24.4	261		176																												1				
6/8/2004	Monthly																																										1			
<b>AVE:</b>		<b>52</b>	<b>7</b>	<b>12</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>11</b>	<b>17</b>	<b>18</b>	<b>70</b>	<b>150</b>		<b>2969</b>	<b>2</b>	<b>4</b>	<b>0.24</b>	<b>3</b>	<b>0.82</b>	<b>12</b>	<b>15</b>	<b>18</b>	<b>66</b>	<b>133</b>		<b>427</b>												<b>17</b>	<b>1</b>				<b>12</b>	<b>1</b>		







Virginia Innovative Approval Sampling Results

5833 Buck Hunt Lane, New Kent, VA 23124

Phillip Christian Class III

This System Performance Sheet records test results from effluent samples taken at key points throughout the wastewater treatment system.

In addition, here are some quick system facts and a legend for the wastewater characteristics. See the flow configuration below.

Quick Facts

Building / Facilities: 3 bdrm Single Family Residence

Occupants: 3

Start-up: Sept. 23, 2002

Location: New Kent County

Designer / Engineer: Engineering Design Associates

Contractor / Installer: Stamie Lytle Company

Regulating Authority: New Kent County Health Department

Design Flows: 450 gpd

System Configuration: AX20 Mode 3b-MVP

Processing tank: 2-comp 1500gal

Dosing Tank: 1000 gal

Disposal Treatment System: 600 ft<sup>2</sup> 2 pad lpd

Notes: Traks have overflowed not related to hurricane. Above normal usage.  
Class III Soils  
Pod# 200299

Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)

cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)

TSS: Total Suspended Solids

TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)

NH3-n: Ammonia-Nitrogen

NO2-n: Nitrite-Nitrogen

NO3-n: Nitrate-Nitrogen

TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)

DO: Dissolved Oxygen

pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically

Alk: Alkalinity

TP: Total Phosphorus

G&O: Grease and Oil

FC: Fecal Coliform

Baseline Data: When available, represents the level of performance of the Primary Septic Tank w/o recirc-filter operation.

> Numbers shown in italics were actually reported as greater than

# Numbers shaded were actually reported as less than

# Shaded boxes indicate outliers that were removed. See notes for #.

Sample Date	Test Type	GPD	Recirculation Tank												AdvanTex Effluent									Lysimeter #1					Lysimeter #2					Lysimeter #3 (Background)													
			cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E.Coli	cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E.Coli	TKN	NH3	NO3	TN	Cl	E.Coli	TKN	NH3	NO3	TN	Cl	E.Coli	TKN	NH3	NO3	TN	Cl	E.Coli	
			mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	cel/cus	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	cel/cus	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml			
3/12/2003	Monthly										43				2419.2												47						2400														
3/12/2003	Quarterly																																														
3/14/2003	Monthly																																														
4/14/2003	Monthly							8	18.5	43					310												8.1	18.5	44			30															
4/15/2003	Monthly							7	15.7																		7.2	15.3																			
5/19/2003	Monthly														6600																																
5/20/2003	Monthly																																														
6/16/2003	Monthly																																														
6/16/2003	Quarterly			0.3		10.25		17	8	15.4																	0.2		7.1	15	7.8	15.2															
6/24/2003	Monthly																																														
7/15/2003	Monthly														1																																
7/16/2003	Monthly																																														
7/24/2003	Monthly														41000																																
8/18/2003	Monthly														4500												6.6	28	124			880															
8/19/2003	Monthly																																														
9/24/2003	Monthly																																														
9/26/2003	Quarterly		28	22	1.2		17.0								288												15	5	0.6					282													
9/26/2003	Monthly														24192												7.1	21.3	58			24192															
9/30/2003	Monthly				0.3										4300													0.1																			
10/15/2003	Monthly														17000												7.9	21.1	64			67															
11/17/2003	Monthly																										7.7	19.5	48			2200															
12/17/2003	Quarterly		15	9	19	5.46	2.60	22	28					115													2	3	1.5	1.82	0.6	21	22.8	92													
12/17/2003	Monthly														450												7.4	19.4	34			15															
1/20/2004	Monthly														1400												8.8	12.9	40			86															
2/17/2004	Monthly														230												8.7	10.1	50			10															
3/16/2004	Monthly														4300												8.8	12.9	40			610															
3/16/2004	Quarterly		15	9	1.1	8	1.90	25	33					125												3	5	1.4	14	5.9	24	37.0	98														
4/13/2004	Monthly														530												8	15.4	50			42															
5/18/2004	Monthly														590												7	25.3	54			29															
6/15/2004	Quarterly		12	22	2.1	6.4	1.80	12	18					190													2	2	0.5	2	0.5	2.3	4.4	162													
6/15/2004	Monthly														23000													6.9	26.6	54			610														
7/15/2004	Monthly														5000													6.8	28	60			660														
8/10/2004	Quarterly		2	5	0.7	5.9	2.70	5.4	11					146													2	1	0.3	1.7	0.5	4	5.7	124													
8/10/2004	Monthly														150												6.7	26.9	49			12															
AVE:			14	13	4	6	6	16	21					162	5	3	1	5	3	13	17					20	56	152			190											38	1				



# Virginia Innovative Approval Sampling Results

9008 Cuba Lane, Gloucester Point, VA 23062 Robin Stamaway Class II

This System Performance Sheet records test results from effluent samples taken at key points throughout the wastewater treatment system.

In addition, here are some quick system facts and a legend for the wastewater characteristics. See the flow configuration below.

## Quick Facts

Building / Facilities: 3brdm Single Family Residence

Occupants: 3

Start-up: May 20, 2003

Location: Gloucester County

Designer / Engineer: William J. Meager

Contractor / Installer: Farmer Septic Service

Regulating Authority: Gloucester County Health Department

Design Flows: 450 gpd

System Configuration: AX20 Mode 1

Septic tank: 1000 gallon

Processing Tank: 1500 gallon 2 compartment

Dosing Tank: 1000 gallon

Disposal Treatment System: 900 ft2 pad

Notes: Class II Soils  
Next door to 1822 Angus Road  
Vericom  
Watersoftener removed 3/30/05

Qave = 0 T "ON" = 30 sec  
Rb:R = 3.5 T "OFF" = #####

## Legend

BOD5: Biochemical Oxygen Demand (5 day, uninhibited)

cBOD5: Carbonaceous Biochemical Oxygen Demand (5 day, inhibited)

TSS: Total Suspended Solids

TKN: Total Kjeldahl-Nitrogen (Organic and Ammonia Nitrogen)

NH3-n: Ammonia-Nitrogen

NO2-n: Nitrite-Nitrogen

NO3-n: Nitrate-Nitrogen

TN: Total Nitrogen = (TKN) + (NO3-n) + (NO2-n)

DO: Dissolved Oxygen

pH: Measure of acidity, 7 is neutral. Wastewater w/value <5 or >9 are difficult to treat biologically

Alk: Alkalinity

TP: Total Phosphorus

G&O: Grease and Oil

FC: Fecal Coliform

Baseline Data: When available, represents the level of performance of the Primary Septic Tank w/o recirc-filter operation.

> Numbers shown in italics were actually reported as greater than

Numbers shaded were actually reported as less than

Shaded boxes indicate outliers that were removed. See notes for #.

Sample Date	Test Type	GPD	Recirculation Tank										AdvanTex Effluent										Lysimeter #1					Lysimeter #2					Lysimeter #3 (Background)													
			cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	cBOD5	TSS	TURB	TKN	NH3	NO3	TN	pH	Temp	Cl	Alk	TP	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli	TKN	NH3	NO3	TN	Cl	E. Coli
			mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	celcius	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml	mg/L	mg/L	mg/L	mg/L	mg/L	mpn/100ml		
7/17/2003	Monthly							9.6	27.9	###			630								9	29	1850			220																				
7/17/2003	Quarterly								7	29	###			8400								7	29.9	410			2600																			
8/25/2003	Monthly																																													
8/26/2003	Monthly																																													
9/25/2003	Monthly																																													
10/21/2003	Quarterly		27	77	2.4		6.6		57			67	241920	6	11	0.2		5		51				73	24192																					
10/21/2003	Monthly																																													
10/22/2003	Monthly																																													
11/25/2003	Monthly																																													
12/24/2003	Monthly																																													
1/27/2004	Quarterly		25	10	1.4	16	15	1.1	17			51	241920	5	7	0.9	11	11	9.1	20			12	24192																						
1/27/2004	Monthly																																													
2/19/2004	Monthly																																													
3/23/2004	Monthly																																													
4/20/2004	Quarterly		16	12	1.8	15	10	4.8	20			91	241920	8	19	1.1	11	6.8	3.9	15				57	24192																					
4/20/2004	Monthly																																													
5/25/2004	Monthly																																													
6/17/2004	Monthly																																													
7/20/2004	Quarterly		2	20	4.1	5.2	4	4.5	9.7			150	241920	2	10	2.8	5	1.7	2.8	7.9				138	24192																					
7/20/2004	Monthly																																													
8/12/2004	Monthly																																													
9/8/2004	Monthly																																													
10/5/2004	Quarterly		102	41	29	63	59	1.5	65			284	241960	49	14	11	36	35	19.7	56				180	24196																					
10/5/2004	Monthly																																													
11/9/2004	Monthly																																													
12/14/2004	Monthly																																													
<b>AVE:</b>			<b>34</b>	<b>32</b>	<b>8</b>	<b>25</b>	<b>19</b>	<b>3</b>	<b>34</b>			<b>21</b>	<b>774</b>	<b>128</b>	<b>15307</b>	<b>14</b>	<b>12</b>	<b>3</b>	<b>16</b>	<b>12</b>	<b>9</b>	<b>30</b>			<b>22</b>	<b>837</b>	<b>92</b>	<b>3758</b>																		







