

Howell Twp. WWTP Colorimetric Batch Results

Batch #: 107 Analysis Date: 6/29/2004 Analysis Time: 11:45

Analyst: SBH

Parameter: PO4 Method: EPA 365.2

Curve #: 103 Slope: 3.0996 Intercept: 0.0020 R2: .99962 Today: 6/29/2004

Sample Name	Sample Date	Spike/Check mg/L	Absorbance \bar{A}	mg/L	Dilution Factor	Report mg/L	Avg. mg/L for Dupes	QC - %
Reagent Blank								
Digested Blank								
Check Standard		0.500	0.155	0.482	1.0	0.48		96.5
Matrix Spike		0.500	0.258	0.802	1.0	0.80		99.2
Final Effluent	06/27/04		0.097	0.303	1.0	0.303	0.306	2.0
Final Effluent	06/27/04		0.099	0.309	1.0	0.309		
SB-20	06/21/04		0.006	0.021	1.0	0.021	0.021	
CC-04	06/21/04		0.022	0.070	1.0	0.070	0.070	
DC-01	06/21/04		0.005	0.017	1.0	0.017		
DC-02	06/21/04		0.013	0.042	1.0	0.042		
NO-04	06/21/04		0.005	0.017	1.0	0.017		
NO-06	06/21/04		0.011	0.036	1.0	0.036		
NO-07	06/21/04		0.001	0.005	1.0	0.005		
NO-08	06/21/04		0.018	0.058	1.0	0.058		
MG-16	06/21/04		0.016	0.052	1.0	0.052		
MG-18			0.014	0.045	1.0	0.045		

Howell Twp. WWTP Colorimetric Batch Results

Batch #: 106

Analysis Date: 6/22/2004

Analysis Time: 13:00

Analyst: SBH

Parameter: PO4

Method: EPA 365.2

Curve #: 103

Slope: 3.0996

Intercept: 0.0020

R2: .99962

Today: 6/22/2004

Sample Name	Sample Date	Spike/Check mg/L	Absorbance A	mg/L	Dilution Factor	Report mg/L	Avg. mg/L for Dupes	QC - %
Reagent Blank								
Digested Blank								
Check Standard		0.500	0.168	0.523	1.0	0.52		104.5
Matrix Spike		0.500	0.269	0.836	1.0	0.84		99.8
Final Effluent	06/21/04		0.107	0.334	1.0	0.334	0.337	1.9
Final Effluent	06/21/04		0.109	0.340	1.0	0.340		
					1.0			
					1.0			
					1.0			
RAW	06/21/04		0.440	1.366	2.5	3.415		
YR-01	06/21/04		0.018	0.058	1.0	0.058		
YR-06	06/21/04		0.026	0.083	1.0	0.083		
CC-02	06/21/04		0.021	0.067	1.0	0.067		
BC-12	06/21/04		0.017	0.055	1.0	0.055		
					1.0			
					1.0			

Howell Twp. WWTP Colorimetric Batch Results

Batch #: 105 Analysis Date: 6/22/2004 Analysis Time: 13:00
 Analyte: SBH
 Parameter: PO4 Method: EPA 365.2

Curve #: 103 Slope: 3.0996 Intercept: 0.0020 R2: .99962 Today: 6/22/2004

Sample Name	Sample Date	Spike/Check mg/L	Absorbance A	mg/L	Dilution Factor	Report mg/L	Avg. mg/L for Dupes	QC - %
Reagent Blank								
Digested Blank								
Check Standard		0.500	0.160	0.498	1.0	0.50		99.6
Matrix Spike		0.500	0.179	0.557	1.0	0.56		98.9
BC-08	06/21/04		0.019	0.061	1.0	0.061	0.062	5.1
BC-08	06/21/04		0.020	0.064	1.0	0.064		
					1.0			
					1.0			
					1.0			
CC-03	06/16/04		0.041	0.129	1.0	0.129		
BC-09	06/16/04		0.023	0.073	1.0	0.073		
SB/07	06/16/04		0.026	0.083	1.0	0.083		
					1.0			
					1.0			
					1.0			
					1.0			

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	3:15	Time Read Plates	2:30 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	102	204
Final Effluent	↓		3	100	134	134
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 169

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

SB-07

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	3:08	Time Read Plates	3:10

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	81	162
Final Effluent	↓		3	100	133	133
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 147.5

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

BC-08

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	2:45 PM	Time Read Plates	2:55 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	106	212
Final Effluent	↓		3	100	224	224
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 218

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

BC-109

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	2:30 PM	Time Read Plates	2:47 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	79	158
Final Effluent	↓		3	100	113	113
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 135.5

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

BE-12

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	1:40 PM	Time Read Plates	2:00 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	60	120
Final Effluent	↓		3	100	110	110
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 115

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

CC-02

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator		Time Read Plates	2:40 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	356	712
Final Effluent	↓		3	100	476	476
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 594

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

CC-03

Howell Township WWTP

Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	2:00 PM	Time Read Plates	3:15

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	121	242
Final Effluent	↓		3	100	169	169
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 205.5

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

YR-01

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-16-2004	Date	6-17-2004
Time	1:30 PM	Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5°	Incubator Temperature	44.5
Time into Incubator	1:30 PM	Time Read Plates	2:30 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-16-04		1	100	0	0
Final Effluent	↓		2	50	97	194
Final Effluent	↓		3	100	113	113
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 153.5

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

YR-06

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	1:50
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	2:00 pm	Time Read Plates	1:50 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	10:45 AM	1	100	0	0
Final Effluent	↓	↓	2	50	2	4
Final Effluent	↓	↓	3	100	22	22
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 13

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

No. 04

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JIC	Analyst	JA
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	2:45 PM	Time Read Plates	2:00

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	10:08 AM	1	100	0	0
Final Effluent	↓	↓	2	50	52	104
Final Effluent	↓	↓	3	100	78	78
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 91

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

NO-08

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	2:30	Time Read Plates	1:45 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	10:34 AM	1	100	0	0
Final Effluent	↓	↓	2	50	19	38
Final Effluent	↓	↓	3	100	30	30
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 34

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

CC-041

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	2:15 PM	Time Read Plates	1:30

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	11:20 AM	1	100	0	0
Final Effluent	↓	↓	2	50	14	28
Final Effluent	↓	↓	3	100	23	23
Raw	↓	↓	4	WHITE	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 26

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

DC-02

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	3:00 PM	Time Read Plates	1:25

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	9:30 AM	1	100	0	0
Final Effluent	↓	↓	2	50	18	36
Final Effluent	↓	↓	3	100	52	52
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100		

Reportable Final Effluent (Colonies/ 100 mL):

44

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

110-07

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	1:15 PM	Time Read Plates	1:16

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	12:20 PM	1	100	0	0
Final Effluent	↓	↓	2	50	104	208
Final Effluent	↓	↓	3	100	248	248
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 228

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

MG-118

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	1:30 PM	Time Read Plates	1:14 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	12:06	1	100	0	0
Final Effluent	↓	↓	2	50	4	8
Final Effluent	↓	↓	3	100	28	28
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 18

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

SB-20

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-2004	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	1:00 PM	Time Read Plates	1:05 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	10:18 AM	1	100	0	0
Final Effluent	↓	↓	2	50	71	142
Final Effluent	↓	↓	3	100	121	121
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 132

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

NO-06

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}] \times 100}{\text{Volume F1} + \text{Volume F2}}$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

Howell Township WWTP

Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-2004	Date	6-22-04
Time		Time	
Analyst	JK	Analyst	JK
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	12:45 PM	Time Read Plates	1:00 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	10:58	1	100	0	0
Final Effluent	↓	↓	2	50	3	6
Final Effluent	↓	↓	3	100	5	5
Raw	↓	↓	4	1	TNTC	TNTC
Blank (After)	↓	↓	5	100	0	0

Reportable Final Effluent (Colonies/ 100 mL): 6

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

DC-01

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66

Howell Township WWTP Fecal Coliform

Standard Methods 20th Edition, 1998 Method # 9222D

SET UP		READ	
Date	6-21-04	Date	6-22-04
Time		Time	
Analyst	JR	Analyst	JR
Incubator Temperature	44.5	Incubator Temperature	44.5
Time into Incubator	1:45 PM	Time Read Plates	1:00 PM

Sample Name	Sample Date	Sample Time	Dish Label	Sample Volume (mL)	# of Colonies	# of Colonies per 100 mL
Blank (Before)	6-21	12:36 PM	1	100	0	0
Final Effluent	↓		2	50	20	40
Final Effluent	↓		3	100	55	55
Raw	↓		4	1	TNTC	TNTC
Blank (After)	↓		5	100		

Reportable Final Effluent (Colonies/ 100 mL): 48

Calculations:

If number of Colonies are between 20 and 60 then use this formula:

$$\frac{100 \times \text{Number of colonies (F1)}}{(2 \times \text{mL of sample used})} + \frac{100 \times \text{Number of colonies (F2)}}{(2 \times \text{mL of sample used})}$$

MG-16

If number of Colonies are < 20 to > 60 use this formula:.....

$$\frac{[\text{Count F1} + \text{Count F2}]}{\text{Volume F1} + \text{Volume F2}} \times 100$$

for 50 mL and 100mL sample use (Count F1 + Count F2) x .66