



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code – 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
P.O. Box 420 – 401 E State St
Trenton, NJ 08625-0420
Phone: (609) 292-4860 / Fax: (609) 984-7938

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

December 20, 2011

To: Distribution List

Re: **Final NEW Discharge to Surface Water (DSW) Consolidated Master General Permit**
Category: ASC School General Permit (GP)
NJPDES Permit No. NJ0193381
NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST
Trenton City, Mercer County

Dear Interested Parties:

Enclosed is a final New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. Comments were received on the draft permit issued on November 9, 2011. Notice of the draft action appeared in thirteen newspapers to represent all applicable New Jersey counties and was published in the Department's November 2, 2011 DEP Bulletin. The public comment period closed on December 14, 2011.

A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16. Also, based on site specific conditions contained in the draft master general permit, some minor errors and/ or clarification requests were reported to the Department. Any changes from the draft permit have been explained in the footnotes in the Permit Summary Attachment for those facilities.

As of this time, individual authorizations will be issued for the following facilities under this master general permit consistent with the Permit Summary Attachment included in this document:

NJPDES Permit No.	Facility	Permitted Flow (MGD)
NJ0020419	Long Pond School WTP	0.01
NJ0020711	Warren County Technical School STP	0.01168
NJ0021091	Jefferson Township High - Middle School	0.0275
NJ0021105	Arthur Stanlick School	0.007095
NJ0021253	Indian Hills High School	0.0336
NJ0021571	Springfield Township Elementary	0.0075
NJ0022101	Blair Academy	0.05
NJ0022276	Stony Brook School	0.01
NJ0022438	Helen A. Fort Middle School	0.05
NJ0023001	Salvation Army Camp Tecumseh	0.018
NJ0023124	Montgomery High School STP	0.035
NJ0023175	Round Valley Middle School	0.009

NJPDES Permit No.	Facility	Permitted Flow (MGD)
NJ0023311	Kingwood Township School	0.0048
NJ0023841	Lounsberry Hollow Middle School	0.032
NJ0024091	Union Township Elementary	0.011
NJ0026891	Burnt Hill Treatment Plant	0.0153
NJ0027049	Pope John XXIII High School	0.02
NJ0027065	Sparta Alpine School	0.025
NJ0027553	Lester D. Wilson Elementary	0.0075
NJ0028894	Kittatiny Regional HS Board of Ed	0.045
NJ0029432	Robert Erskine School	0.008
NJ0031046	North Warren Regional School District	0.02
NJ0031585	High Point Regional High School	0.03
NJ0031615	Camden County Tech School - Gloucester	0.058
NJ0035670	Alexandria Middle School	0.0099

The Department intends to issue renewal authorizations for the above facilities where the renewal authorization will become effective on January 1, 2012. Until such time as the new permit takes effect, the existing permit conditions will continue to remain in full force and effect pursuant to N.J.A.C. 7:14A-2.8.

As per N.J.A.C. 7:14A-4.2(e)3, any person planning to continue discharging after the expiration date of an existing NJPDES permit shall file an application for renewal at least 180 calendar days prior to the expiration of the existing permit.

All monitoring shall be conducted in accordance with 1) the Department's "Field Sampling Procedures Manual" applicable at the time of sampling (N.J.A.C. 7:14A-6.5(b)4), and/or 2) the method approved by the Department in Part IV of the permit. The Field Sampling Procedures Manual is available at <http://www.nj.gov/dep/srp/guidance/fspm/>.

As a result of this permit action, your monitoring report forms (MRFs) have been created and will be mailed to your current MRF recipient. Beginning the effective date of this permit action, please use the new forms. If these revised forms are not received within 2 weeks, please contact the Office of Permit Management at (609) 984-4428 for copies.

Questions or comments regarding the final action should be addressed to Tara Goodreau or Brian Salvo by phone at (609) 292-4860 or email tara.goodreau@dep.state.nj.us or brian.salvo@dep.state.nj.us.

Sincerely,



Pilar Patterson, Chief
Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List
Masterfile #: 39609; PI #: 50577

Table of Contents

This master general permit package contains the following items:

- 1. Cover Letter**
- 2. Table of Contents**
- 3. Response to Comments**
- 4. Permit Summary Tables**
- 5. NJPDES Permit Authorization Page for Master General Permit No. NJ0193381**
- 6. Part I – General Requirements: NJPDES**
- 7. Part II – General Requirements: Discharge Categories**
- 8. Part III – Limits and Monitoring Requirements**
- 9. Part IV – Specific Requirements: Narrative**
- 10. Appendix A: Chronic Toxicity Testing Specifications for Use in the NJPDES Permit Program**

New Jersey Department of Environmental Protection
Division of Water Quality
Bureau of Surface Water Permitting

RESPONSE TO COMMENTS

Comments were received on the NJPDES draft Surface Water Master General Permit New No. NJ0193381 issued on November 9, 2011. The thirty (30) day public comment period began on November 9, 2011 and ended on December 14, 2011. The following person commented during the public comment period:

- A. Amy Gilbert, Garco Research Company in an e-mail dated December 14, 2011. Ms. Gilbert is the licensed operator for Alexandria Middle School, Lester D. Wilson School, and Kingwood School

A summary of the timely and significant comments received, the New Jersey Department of Environmental Protection's (Department) responses to these comments, and an explanation of any changes from the draft action have been included below:

1. COMMENT:

Phosphorus Requirements for Alexandria Middle School (NJ0035670), Lester D. Wilson School (NJ0027553), and Kingwood School (NJ0023311)

All three of these facilities have passed the Stream Visual Assessment Protocol (SVAP) study. Therefore, it is not clear why the frequency for Phosphorous testing should be increased from once every six months (Alexandria Middle and Lester D. Wilson) to quarterly. Kingwood School is currently required to test for Phosphorus once per quarter. We are requesting that in light of passing the SVAP, the frequency of testing for Phosphorus for these three schools be changed to once every six months.

RESPONSE:

The Department recognizes that all three of these facilities have passed the SVAP study which is noted in the footnotes for each facility Permit Summary Attachment as well as in the draft permit Fact Sheet. In addition to these three facilities passing the SVAP, there are other school permit discharges that have also passed the SVAP.

The Department has imposed a quarterly monitoring requirement for all school facilities covered under this general permit. For most facilities this was a decrease in monitoring frequency but for some facilities this was an increase. The need for a quarterly monitoring frequency is based on a variety of factors. Most importantly, the effluent from all schools contributes phosphorus loading to the receiving water which must be tracked. Since the overlying purpose of the general permit is to streamline permit conditions for similar facilities, in accordance with N.J.A.C. 7:14A-6.13, it is appropriate that all sites have the same monitoring frequency since these discharges are similar in wastewater characteristics and in volume. Also, while N.J.A.C. 7:14A-14.2 stipulates a monthly monitoring frequency for phosphorus for those facilities less than 0.05 million gallons per day, the Department has imposed a quarterly monitoring frequency which is a reduction. The Department has determined that this reduction is appropriate because all school facilities covered under this general permit have met the provisions of N.J.A.C. 7:14A-14.2(c)1.

No change to the permit is necessary as a result of this comment.

Long Pond School - NJ0020419

1 Facility Description:

NJPDES Flow Value: 0.01 MGD

Treatment Units:

1. Bar screen
2. Comminutor
3. Aeration tank
4. Clarifier
5. Sand filters
6. Ultraviolet (UV) Disinfection
7. Flow monitoring

Sludge generated at the facility is managed off-site at an approved residuals management operation.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Lake Illiff	Downstream Confluences:	NA
Via :	Via unnamed Tributary	Receiving River Basin:	Delaware River Basin
Classification:	FW2-TM (C1)	Watershed Management Area:	01
Latitude:	41° 01' 53.7"	Watershed:	Pequest River (above /include Bear Swamp)
Longitude:	74° 42' 35.4"	Subwatershed:	New Wawayanda Lake/Andover Pond trib
County:	Sussex	14 digit Hydrologic Unit Code :	02040105070020
Municipality:	Newton Town	303(d) List Impairments:	None
Outfall Description			
Outfall Configuration:	Non-submerged pipe		

Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	0.0 cfs
75 th percentile flow:	0.1 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

* Information from Fact Sheet issued on 9/24/2010.

3 Permit Summary Table and Permit Requirements (NJ0020419):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.01	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.04 0.04	0.94 1.4	0.94 1.4	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.5 5.5 6/24	25 37.5	25 37.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	243.5 243.5	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	98.5	90	90	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.03 0.03	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	4.8 4.8 17/13	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	-- 288.8	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	97.8	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	--	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	--	MR MR	MR MR	1/Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.003 --	MR --	MR --	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.4 -- 28/2	1.0 --	1.0 -- TMDL	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	<1.0 <1.0 0/30	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	MR MR	MR MR	5 / Month in an annual period	5 / Month in an annual period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Monthly Avg Daily Avg. Min.	7.2 7.2 --	6.0 5.0 --	-- 5.0 6.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	<5 <5 0/12	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 12.04 24	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2.5 11.46 23	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.0 10	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8.2	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 – Oct 31	kg/d	Monthly Avg. Daily Max.	0.004 0.01	0.13 0.19	0.13 0.19	1/Month	1/Month
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.5 1.2 4/8	3.5 5.1	3.5 5.1	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Daily Max.	0.009 0.03	0.18 0.26	0.18 0.26	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	1.1 4.2 10/9	4.7 6.9	4.7 6.9	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max. # Det. / # ND	<0.001 <0.001 0/30	0.0003 (1) 0.0007 (1)	-- (1) -- (1)	1/Day	-- (1)

NJ0020419 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max. # Det. / # ND	<0.1 <0.1 0/30	0.007 (1) 0.018 (1)	-- (1) -- (1)	1/Day	-- (1)
Copper Total Recoverable	g/day	Monthly Avg. Daily Max.	-- --	MR MR (2)	MR MR	1/Year	1/Year
Copper Total Recoverable	µg/L	Monthly Avg. Daily Max.	-- --	MR MR(2)	MR MR	1/Year	1/Year
Chloroform	g/day	Monthly Avg. Daily Max.	-- --	MR (3) MR (3)	-- --	1/Month	1/Permit Cycle (WCR)
Chloroform	µg/L	Monthly Avg. Daily Max.	-- --	MR (3) MR (3)	-- --	1/Month	1/Permit Cycle (WCR)
Dichlorobromomethane	g/day	Monthly Avg Daily Max.	-- --	MR (3) MR (3)	-- --	1/Month	1/Permit Cycle (WCR)
Dichlorobromomethane	µg/L	Monthly Avg Daily Max.	-- --	MR (3) MR (3)	-- --	1/Month	1/Permit Cycle (WCR)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	8.8	61 (4)	61	1/Quarter	1/Quarter

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The facility currently uses UV and is no longer required to sample for CPO.
- (2) The existing permit incorporates limitations of 13.9 ug/L (0.53 grams/day) as a daily maximum for copper with an effective date of May 2016. However, the analysis in the permit shows that these limits were based on only 8 data points over an 8 year timeframe. These limits, which were never effective, are being removed in lieu of continued monitoring.
- (3) The existing permit incorporates limitations of 68 ug/L (2.57 grams/day) as a daily maximum for chloroform and 0.55 ug/L (0.0208 grams/day) as a daily maximum for dichlorobromomethane with an effective date of May 2016. However, the analysis in the existing permit shows that the analysis was based on limited data of 4 data points. Also, because this facility is in the process of upgrading to UV disinfection (as per an ACO where Treatment Works Approval was issued March 2011), chloroform and dichlorobromomethane may not be present since these parameters are most always a by-product of chlorination. These limits, which were never effective, are being removed in light of treatment upgrades.
- (4) The permittee is currently covered under an ACO with a monitoring only requirement for Chronic WET.

Warren County Technical School STP - NJ0020711

1 Facility Description:

NJPDES Flow Value: 0.012 MGD

Treatment Units:

1. Bar Screen (1 unit)
2. Aerated Equalization Tank (1 unit)
3. Comminutor
4. Activated Sludge Process
 - a. Aeration Tank (1 unit)
 - b. Settling Tank (1 unit)
5. Secondary Settling Tank (1 unit)
5. Chlorine Contact Tank (1 unit)
6. Dechlorination Chamber (1 unit)
7. Aeration Tower (1 unit)

Sludge is stored in a holding tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Pohatcong Creek Via: Outfall pipe	Downstream Confluences: Delaware River Receiving River Basin: Delaware River Basin		
Classification: FW2-TM (C2) Latitude: 40° 44' 23.7" Longitude: 75° 01' 13.1"	Watershed Management Area: 01 Watershed: Pohatcong Creek Subwatershed: Pohatcong Ck (Edison Rd – Brass Castle Ck)		
County: Warren County Municipality: Franklin Township	14 digit Hydrologic Unit Code: 02040105140030 303(d) List Impairments: TP, TSS, Temp., pH		
Outfall Description			
Outfall Configuration: non-submerged pipe			
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 3.0 cfs MA7CD10 / 7Q10: 3.3 cfs 75 th percentile flow: 11.0 cfs	MA1CD10 (1Q10) summer: 3.0 cfs MA1CD10 (1Q10) winter: 3.0 cfs MA30CD10 (30Q10) summer: 3.8 cfs MA30CD10 (30Q10) winter: 6.8 cfs		

* Information from Fact Sheet issued on 2/11/2004.

3 Permit Summary Table and Permit Requirements (NJ0020711):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.006 0.029	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.37 0.47	1.14 1.14	1.14 1.14	1 / Month	1 / Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	10.8 13.3 33/3	25 25	25 25	1 / Month	1 / Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	287.4 320.9	MR MR	MR MR	1 / Month	1 / Month
BOD ₅ Min % Removal	%	Monthly Avg.	95.9	90	90	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.47 0.55	1.36 2.04	1.36 2.04	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	14.1 16.2	30 45	30 45	1 / Month	1 / Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	586.3 644.7	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum % Removal	%	Monthly Avg.	96	85	85	1 / Month	1 / Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	-- --	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	-- --	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.20 0.20	MR (1) MR (1)	MR MR	1 / Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	6.3 6.3	MR (1) MR (1)	MR MR	1 / Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	58.8 138.5 23/13	200 400	200 400	1 / Month	1 / Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an Annual Period

NJ0020711 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg.	8.9 8.9	5.0 6.0	5.0 6.0	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<0.5 <0.5	10 15	10 15	1 / Quarter	1 / Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.0 16.5 19.7	MR MR MR	-- -- --	1 / Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 17.1 21.4	MR MR MR	MR MR MR	1 / Day	1 / Day
Influent pH	su	Instant. Min. Instant. Max.	6.4 9.1	MR MR	-- --	1 / Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.9	6.0 9.0	6.0 9.0	1 / Day	1 / Day
Ammonia (Total as N) May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.09 0.09	0.91 MR	0.91 MR	1 / Month	1 / Month
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	2.3 2.3 13/5	20 MR	20 MR	1 / Month	1 / Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Weekly Avg.	0.09 0.09	0.91 MR	0.91 MR	1 / Month	1 / Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	2.8 2.8 15/3	20 MR	20 MR	1 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	<0.002 - <0.007 <0.002 - <0.007	MR 0.005	MR 0.005	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	MR 0.1	MR 0.1	1 / Day	1 / Day
Acute Toxicity, LC50 <i>Pimephales promelas</i>	%	Minimum	>100	50	AL 50	1 / Year	1 / Year

Footnotes and Abbreviations:

MR Monitor and report only

AL- Action Level

- (1) Effluent limitations were stayed as the permittee passed a Total Phosphorus SVAP study, which showed that the TP criteria of 0.1 mg/L does not apply to the permittee's discharge.

Jefferson Township High-Middle School - NJ0021091

1 Facility Description:

NJPDES Flow Value: 0.0275 MGD

Treatment Units

1. Comminutor
2. Aerated equalization tank
3. Aeration tank
4. Clarifier
5. Tertiary sand filters
6. Ultraviolet disinfection chamber
7. Post aeration tank

Sludge Management: Sludge removed from the clarifier is transferred to an aerobic digester before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Russia Brook	Downstream Confluences:	Rockaway River, Passaic River
Via :	Unnamed Tributary (locally known as Edison Brook)	Receiving River Basin:	Passaic River Basin
Classification:	FW2-TM (C1)	Watershed Management Area:	06
Latitude:	41° 01' 05.3"	Watershed:	Rockaway River
Longitude:	74° 32' 59.7"	Subwatershed:	Russia Brook (below Milton)
County:	Morris	14 digit Hydrologic Unit Code:	02030103030020
Municipality:	Jefferson Township	303(d) List Impairments:	None
Outfall Description			
Outfall Configuration:	headwall		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.1 cfs	MA1CD10 (1Q10) summer:	0.1 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA1CD10 (1Q10) winter:	0.1 cfs
75 th percentile flow (f):	0.5 cfs	MA30CD10 (30Q10) summer:	0.1 cfs
		MA30CD10 (30Q10) winter:	0.3 cfs

* Information from United States Geological Survey (USGS) dated 6/11.

3 Permit Summary Table and Permit Requirements (NJ0021091):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.01 0.26	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.16 0.16	0.85 1.25	0.85 1.25	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	3.45 3.45 9 / 26	8 12	8 12	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	190.34 181.06	MR MR	MR MR	1/Month	1/Month
CBOD ₅ Min % Removal	%	Monthly Avg.	97.26	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.43 0.43	3.1 4.7	3.1 4.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	7.59 7.59 29 / 6	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	996.09 996.09	MR MR	MR MR	1/Month	1/Month
TSS Minimum % Removal	%	Monthly Avg.	97.25	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.95 2.7	MR MR	MR MR	1/Quarter	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	20.66 57 15 / 1	MR MR	MR MR	1/Quarter	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.02 0.03	0.10 0.16	0.10 0.16	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.45 0.63 30 / 5	1.0 1.5	1.0 1.5 TMDL	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND.	9.33 9.33 3 / 31	200 400	200 400	1/Month	1/Month

NJ0021091 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an annual period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min	8.13 8.13 --	6.0 5.0 --	-- 6.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	2.1 2.1 1 / 12	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7.1 17.39 27.2	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.1 17.23 28.3	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	5.41 9.18	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.03 8.83	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.04 0.04	0.2 0.3	0.2 0.3	1/Month	1/Month
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	1.25 1.25 8 / 10	2.0 3.0	2.0 3.0	1/Month	1/Month
Ammonia (Total as N) Nov 1 – April 30	kg/d	Monthly Avg. Daily Max.	0.14 0.8	0.42 0.6	0.42 0.6	1/Month	1/Month
Ammonia (Total as N) Nov 1 – April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	4.26 20.9 9 / 8	4.0 5.8	4.0 5.8	1/Month	1/Month
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max. # Det. / # ND.	<0.1 <0.1 0 / 1	MR MR	-- --	1/ Year	--
Chronic Toxicity, IC25, <i>Ceriodaphnia dubia</i>	% effluent	Minimum	69.6	18	18	1/6 Months	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

Arthur Stanlick School - NJ0021105

1 Facility Description:

NJPDES Flow Value: 0.007095 MGD

In the final permit issued on August 19, 2003, the facility's flow value was determined to be 0.004 million gallons per day (MGD). However, in the Department's July 3, 2007, Revision to the Northeast and Sussex County Water Quality Management Plans it was determined that the facility's NJPDES flow value was to be 0.007095 MGD. Presently the facility discharges an average flow of 0.00173 MGD.

Treatment Units:

1. Trash trap tank
2. Raw wastewater equalization tank
3. Membrane bioractor (MBR)
4. Ultra violet disinfection
5. Post-aeration tank
6. Chemical addition facilities for alum, methanol and sodium hydroxide (added to MBR as needed)

Sludge Management: Sludge is stored in a sludge holding tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Lake Shawnee	Downstream Confluences:	Lake Hopatcong, Musconetcong River, Delaware River
Via :	Unnamed Tributary	Receiving River Basin:	Delaware River
Classification:	FW2-NT(C2)	Watershed Management Area:	01
Latitude:	40° 58' 16.9"	Watershed:	Musconetcong River (above Trout Brook)
Longitude:	74° 35' 27.5"	Subwatershed:	Lake Hopatcong
County:	Morris	14 digit Hydrologic Unit Code:	02040105150020
Municipality:	Jefferson Twp.	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration	Partially/seasonally submerged pipe	Submerged Pipe Characteristics:	Pipe is approximately 2-3" below the high water line during submergence season
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	0.0 cfs
75 th percentile flow:	0.2 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

* Information from Final Permit Approved 1/1/10.

3 Permit Summary Table and Permit Requirements (NJ0021105):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (I)	FINAL LIMITS (I)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.00811 0.09	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	0.21 0.21 9 / 27	MR MR	MR MR	MR MR	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND.	3.6 3.6 9 / 27	25 40	25 40	25 40	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	252 252	MR MR	MR MR	MR MR	1/Month	1/Month
CBOD ₅ Min % Removal	%	Monthly Avg.	95.1	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	1.45 1.45 25 / 11	MR MR	MR MR	MR MR	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND.	22.3 22.3 25 / 11	30 45	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1148 1148	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Min % Removal	%	Monthly Avg.	95.4	85	85	85	1/Month	1/Month

NJ0021105 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	1.18 4.18 1 / 15	MR MR	MR MR	MR MR	1/Quarter	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	27.2 66.4 1 / 15	MR MR (2)	MR MR	MR MR	1/Quarter	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND.	0.039 0.041 24 / 12	0.015 (3) MR	MR (3) MR	MR (3) MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND.	0.052 0.060 24 / 12	0.561 (3) MR	0.561 (3) MR	0.561 (3) MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND.	8.3 8.3 3 / 22	200 400	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	<10 <10	MR MR	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	7.7 6.13 --	5.0 4.0 --	-- 5.0 4.0	-- 5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND.	2.1 2.1 1 / 11	10 15	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.62 17.1 26.4	MR MR MR	-- -- --	-- -- --	1/Day	1/Day
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.3 17.8 27.6	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.02 9.05	MR MR	-- --	-- --	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.09 8.76	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based May 1 – Oct 31	kg/d	Monthly Avg. Daily Max. # Det. / # ND.	0.064 0.548 10 / 9	MR MR	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) DO based May 1 – Oct 31	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	0.93 7.63 10 / 9	4.5 6.6	4.5 6.6	4.5 6.6	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND..	0.17 1.22 8 / 9	MR 0.21	MR 0.21	MR 0.21	1/Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND.	3.47 16.1 8 / 9	MR 8.0	MR 8.0	MR 8.0	1/Month	1/Month
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	MR MR	-- --	-- --	1/Year	--
Total Recoverable Copper	g/day	Monthly Avg. Daily Max. # Det. / # ND.	1.39 12.78 29 / 7	MR (4) MR (4)	MR MR	MR 0.57	1/Month	1/Quarter
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. # Det. / # ND.	27.7 175 29 / 7	MR (4) MR (4)	MR MR	MR 21.3	1/Month	1/Quarter
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	72.9 (5)	61	61	61	1/6 Months	1/ Year (5)

Footnotes and Abbreviations:

MR Monitor and report only

- (1) “Initial phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP +3 years. The “final” phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) A daily maximum nitrate limit of 10 mg/L was to become effective on 12/1/2014 but has been removed in lieu of continued monitoring.
- (3) While the TMDL has not yet been adopted, the Department had already imposed the specified TMDL effluent limitations in the previous permit action. As a result, the Department is retaining the existing permit limit of 0.561

mg/L as a monthly average concentration but is also requiring monitoring as a monthly average loading consistent with the basis for this TMDL. The Department has also retained the monitoring and reporting for the weekly average concentration and loading in this ASC permit.

- (4) "Initial" phase limitations and monitoring conditions for copper are effective from the effective date of the permit (EDP) until 12/1/2014 and are monitor and report only. The "final" phase limitations and monitoring conditions become effective on 12/1/2014 and are 21.3 ug/L (0.57 grams/day) as a daily maximum with monthly average monitoring and reporting. Analysis was based on 30 data points.
- (5) Six data points were an IC25 of >100 and one data point was 72.9. Therefore, based on consistent compliance, chronic WET sampling has been reduced to 1/ Year.

Indian Hills High School – NJ0021253

1 Facility Description:

NJPDES Flow Value: 0.0336 MGD

Treatment Units:

1. Equalization Basin (metal with cathodic protection)
2. Aeration Basin (metal with cathodic protection)
3. Settling Tank (metal with cathodic protection)
4. Mechanical Filters (sand and charcoal filters)
5. Backwash Holding Tank (metal with cathodic protection)
6. Holding Tank for Ultra Violet Units (concrete)
7. Holding Tank for Flow meter (concrete)

Sludge Management: Sludge generated at this facility is managed off-site at an approved residuals management operation.

2 Receiving Water Information:

Outfall Designator: 001A

General Information	Watershed Information
Receiving Water: Pond Brook via drainage ditch Via : Outfall pipe Classification (a): FW2-NT(C2) Latitude: 41° 01' 26.2" Longitude: 74° 13' 55.1" County: Bergen Municipality: Oakland	Downstream Confluences: Ramapo River, Pompton L. Receiving River Basin: Passaic River Basin Watershed Management Area: 03 Watershed: Ramapo River Subwatershed: Crystal Lake/ Pond Brook 14 digit Hydrologic Unit Code: 020301031000060 Water Quality Impairments: None at this time
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0 cfs MA7CD10 / 7Q10: 0 cfs 75 th percentile flow: 0 cfs	MA1CD10 (1Q10) summer: 0 cfs MA1CD10 (1Q10) winter: 0 cfs MA30CD10 (30Q10) summer: 0 cfs MA30CD10 (30Q10) winter: 0 cfs

* Information from USGS dated 10/20/2010.

3 Permit Summary Table and Permit Requirements (NJ0021253):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.029	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.045 0.055	1 1.5	1 1.5	1 1.5	1 / Month	1 / Month

NJ0021253 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg.	1.92 2.01	8 12	8 12	8 12	1 / Month	1 / Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	214 214	MR MR	MR MR	MR MR	1 / Month	1 / Month
CBOD ₅ Minimum Percent Removal	%	Monthly Avg.	98	85	85	85	1 / Month	1 / Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.170 0.174	3.8 5.7	3.8 5.7	3.8 5.7	1 / Month	1 / Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	7.77 7.77	30 45	30 45	30 45	1 / Month	1 / Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	241 241	MR MR	MR MR	MR MR	1 / Month	1 / Month
TSS Minimum Percent Removal	%	Monthly Avg.	95.3	85	85	85	1 / Month	1 / Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.64 2.15	MR MR	MR MR	MR MR	1 / Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	34.5 118	MR MR	MR MR	MR MR	1 / Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.01 0.01	MR MR	MR MR	MR MR TMDL	1 / Month	1 / Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.63 0.63	1.0 MR	MR MR	0.4 0.6 TMDL	1 / Month	1 / Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	52.4 52.4	200 400	200 400	200 400	1 / Month	1 / Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	-- --	-- --	MR MR	MR MR	--	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	7.6 6.3 --	6.0 MR --	-- 6.0 MR	-- 6.0 MR	1 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	3.10 5.0	10 15	10 15	10 15	1 / Quarter	1 / Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	9.2 19 30	MR MR MR	-- -- --	-- -- --	1 / Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.7 16.6 29	MR MR MR	MR MR MR	MR MR MR	1 / Day	1 / Day
Influent pH	su	Instant. Min. Instant. Max.	6.13 11.01	MR MR	-- --	-- --	1 / Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.29	6.0 9.0	6.0 9.0	6.0 9.0	1 / Day	1 / Day
Ammonia (Total as N) DO based	kg/d	Monthly Avg. Weekly Avg.	0.46 0.56	0.25 0.38	0.25 0.38	0.25 0.38	1 / Month	1 / Month
Ammonia (Total as N) DO based	mg/L	Monthly Avg. Weekly Avg.	0.022 0.026	2 3	2 3	2 3	1 / Month	1 / Month
Chlorine Produced Oxidants (UV Disinfection in use)	kg/d	Month Avg. Daily Max.	< 0.003 < 0.007	MR MR	-- --	-- --	1 / 6 Months	(2)
Chlorine Produced Oxidants (UV Disinfection in use)	mg/L	Month Avg. Daily Max.	< 0.1 < 0.1	MR MR	-- --	-- --	1 / 6 Months	(2)
Chlorine Produced Oxidants (Back up chlorination in use)	kg/d	Month Avg. Daily Max.	< 0.003 < 0.007	0.001 (3) 0.002 (3)	MR 0.013	MR 0.013	1 / Day	1 / Day
Chlorine Produced Oxidants (Back up chlorination in use)	mg/L	Month Avg. Daily Max.	<0.1 <0.1	0.007 (3) 0.018 (3)	MR 0.1	MR 0.1	1 / Day	1 / Day
Total Recoverable Copper	g/day	Monthly Avg. Daily Max.	0.76 3.85	MR 2.3	MR 2.3	MR 2.3	1 / Month	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max.	31.6 118	MR 17.7	MR 17.7	MR 17.7	1 / Month	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max.	2.32 12.1	MR 14.3	MR 14.3	MR 14.3	1 / Month	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max.	101 400	MR 112	MR 112	MR 112	1 / Month	1/Quarter
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	>100	50	--	--	1 / 2 Years	--
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	2.5	MR	MR	61	1 / 6 Months	1 / 6 Months

3 Permit Summary Table and Permit Requirements (NJ0021571):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.011	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	<0.01 <0.01	0.71 1.06	0.71 1.06	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	3.0 6.0	25 37.5	25 37.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	276 276	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	97.5	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.04 0.05	0.9 1.3	0.9 1.3	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	8.7 11.5	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	465 430	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	95	85	85	1/Month	1/Month
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	86 148	200 400	200 400	1/Month	1/Month
		#det/#nd	8 / 31				
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	-- --	-- --	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Min. Instant Min.	6.8 6.8 --	5.0 4.0 --	-- 5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5 <5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.6 16 29	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8.2	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 – Oct. 31	kg/d	Monthly Avg. Weekly Avg.	0.001 0.001	MR 0.26	MR 0.26	1/Month	1/Month
Ammonia (Total as N) May 1 – Oct. 31	mg/L	Monthly Avg. Weekly Avg.	0.22 0.22	MR 9.0	MR 9.0	1/Month	1/Month
Ammonia (Total as N) Nov. 1 – Apr. 30	kg/d	Monthly Avg. Weekly Avg.	0.005 0.005	MR 0.45	MR 0.45	1/Month	1/Month
Ammonia (Total as N) Nov. 1 – Apr. 30	mg/L	Monthly Avg. Weekly Avg.	0.85 0.85	MR 16	MR 16	1/Month	1/Month
Nitrate (Total as N)	mg/L	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	--	1/Year
Nitrate (Total as N)	kg/d	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	--	1/Year
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	5.5 5.5	MR MR	MR MR	1/Quarter	1/Quarter
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	--	1/Quarter
Total Recoverable Copper	ug/L	Monthly Avg. Daily Max. #Detect/#ND	28 33 6 / 0	MR MR	MR MR	1/6 Months	1/ Year
Total Recoverable Arsenic	ug/L	Monthly Avg. Daily Max.	<6 <8	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)
Total Recoverable Beryllium	ug/L	Monthly Avg. Daily Max.	<1 <2	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)
Total Recoverable Cadmium	ug/L	Monthly Avg. Daily Max.	<4 <4	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)
Total Recoverable Chromium	ug/L	Monthly Avg. Daily Max.	<3 <5	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)
Total Recoverable Lead	ug/L	Monthly Avg. Daily Max.	<3 <5	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)

NJ0021571 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Recoverable Mercury	ug/L	Monthly Avg. Daily Max.	<0.1 <0.2	MR MR	-- --	1/6 Months	1/Permit Cycle (WCR)
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	--	1/Permit Cycle (WCR)	-- (1)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	MR	1/Permit Cycle (WCR)	1/ Year

Footnotes and Abbreviations:

MR- Monitor and report only

(1) Given the receiving waterbody characteristics, chronic WET is the more appropriate test.

Blair Academy – NJ0022101

1 Facility Description:

NJPDES Flow Value: 0.05 MGD

Treatment Units:

1. Bar Screens
2. Aeration Tank and Clarifier with Chemical Addition
3. Addition of Sodium Hypochloride for Disinfection
4. Post Aerators

Sludge is held in a storage tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Blairs Creek	Downstream Confluences:	Paulins Kill
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-TM	Watershed Management Area:	01
Latitude:	40° 59' 11"	Watershed:	Paulins Kill (below Stillwater Village)
Longitude:	74° 57' 33"	Subwatershed:	Blair Creek
County:	Warren	14 digit Hydrologic Unit Code:	02040105050020
Municipality:	Blairstown		
Outfall Description			
Outfall Configuration:	non-submerged pipe	Submerged Pipe Characteristics:	N/A
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.7 cfs	MA1CD10 (1Q10) summer:	0.7 cfs
MA7CD10 / 7Q10:	0.8 cfs	MA1CD10 (1Q10) winter:	0.7 cfs
75 th percentile flow:	4.8 cfs	MA30CD10 (30Q10) summer:	1.1 cfs
		MA30CD10 (30Q10) winter:	2.9 cfs

* Information from Fact Sheet dated 12/20/05.

3 Permit Summary Table and Permit Requirements (NJ0022101):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.02 0.08	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.72 0.72	6 9	6 9	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	8.1 8.2	30 45	30 45	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	546.1 546.1	MR MR	MR MR	1/Month	1/Month
BOD ₅ Minimum Percent Removal	%	Monthly Avg.	97.3	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.98 0.98	6 9	6 9	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	10.8 10.8	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	371 371	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	95.8	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.81 2.53	MR MR	MR MR	1/Quarter	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	9.62 29.3	MR MR	MR MR	1/Quarter	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.044 0.046	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.33 0.36	1.0 MR	1.0 MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	11.6 26	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Inst. Min.	6.57 6.08	6.0 5.0	6.0 5.0	2 / Month	1 / Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	3.75 5.0	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.21 18.6 28.5	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	6.04 18.4 28.2	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.1 8.45	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.02 8.79	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 to Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.06 0.09	3.8 MR	3.8 MR	2 / Month	1 / Month
Ammonia (Total as N), Summer: May 1 to Oct 31	mg/L	Monthly Avg. Weekly Avg.	0.65 1.05	20 MR	20 MR	2 / Month	1 / Month
Ammonia (Total as N), Winter: Nov 1 to Apr 30	kg/d	Monthly Avg. Weekly Avg.	0.04 0.07	3.8 MR	3.8 MR	2 / Month	1 / Month
Ammonia (Total as N), Winter: Nov 1 to Apr 30	mg/L	Monthly Avg. Weekly Avg.	0.37 0.58	20 MR	20 MR	2 / Month	1 / Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	0.002 0.002	0.011 (1) 0.03 (1)	MR 0.019	1 / Day	1 / Day
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	0.02 0.04	0.06 (1) 0.16 (1)	MR 0.1	1 / Day	1 / Day
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	89.9 (2)	50	AL 50	1 / 6 Months	1 / Year (2)

Footnotes and Abbreviations:

MR- Monitor and report only

AL- Action Level

- (1) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a daily maximum concentration and 0.02 kg/day as a daily maximum loading.
- (2) Four data points were an LC50 > 100, while one data point was 89.9. Based on consistent compliance, the monitoring frequency for Acute WET has been reduced to 1/ year.

Stonybrook Elementary School – NJ0022276

1 Facility Description:

NJPDES Flow Value: 0.01 MGD

Treatment Units:

1. Wet well
2. Comminutor
3. Equalization basin
4. Aeration tank
5. Clarifier
6. Mud well
7. Rapid sand filters (2)
8. Clear well
9. Post aeration
10. Ultraviolet (UV) disinfection chamber

Sludge is stored in a sludge holding tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Untermeyer Lake via unnamed tributary and storm sewer	Downstream Confluences:	East Ditch River
Via :	Outfall pipe	Receiving River Basin:	Passaic River Basin
Classification:	FW2-NT	Watershed Management Area:	03
Latitude:	40° 58' 14.736"	Watershed:	Pompton River
Longitude:	74° 21' 5.691"	Subwatershed:	Lincoln Park Tribs (Pompton River)
County:	Morris	14 digit Hydrologic Unit Code :	02030103030130
Municipality:	Kinnelon Boro		
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	0.0 cfs
75 th percentile flow:	0.0 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.0 cfs

* Information from Fact Sheet dated 10/2005.

3 Permit Summary Table and Permit Requirements (NJ0022276):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 - 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.00065 0.0049	MR MR	MR MR	Continuous	Continuous

NJ002276 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 - 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg. #Detect/#ND	0.0139 0.0139 29/7	0.3 0.45	0.3 0.45	1/Month	1/Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	5.09 5.09 29/7	8.0 12.0	8.0 12.0	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	256.97 256.97	MR MR	MR MR	1/Month	1/Month
CBOD ₅ Min. % Removal	%	Monthly Avg.	98.52	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.019 0.019	1.1 1.7	1.1 1.7	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	7.50 7.50	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	762.04 462.04	MR MR	MR MR	1/Month	1/Month
TSS Minimum % Removal	%	Monthly Avg.	96.74	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.247 0.754	MR MR	MR MR	-- --	1/ Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	94.01 126	MR MR	MR MR	-- --	1/ Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.028 0.028	MR MR	0.04 TMDL 0.06 TMDL	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	11.08 11.08	1.0 MR	1.0 TMDL 1.5 TMDL	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	8.97 8.97	200 400	200 400	1/ Month	1/ Month
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant. Max.	-- --	-- --	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	8.16 8.16 --	6.0 MR --	-- 6.0 MR	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5.57 <6.3	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7.17 16.74 25.7	MR MR MR	-- -- --	1/Day	1/Day
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	8.6 17.92 28	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	5.85 9.91	MR MR	-- --	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.2 9.91	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO Based Summer: May 1 to Oct 31	kg/d	Monthly Avg. Weekly Avg. #Detect/#ND	0.00125 0.00125 2/16	0.08 0.11	0.08 0.11	1/Month	1/Month
Ammonia (Total as N) DO Based Summer: May 1 to Oct 31	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	<0.2 <0.2 0/18	2.0 3.0	2.0 3.0	1/Month	1/Month
Ammonia (Total as N) DO Based Winter: Nov 1 to Apr 30	kg/d	Monthly Avg. Daily Max. #Detect/#ND	<0.0006 <0.002	MR 0.16	MR 0.16	1/Month	1/Month
Ammonia (Total as N) DO Based - Winter Winter: Nov 1 to Apr 30	mg/L	Monthly Avg. Daily Max. #Detect/#ND	<0.2 <0.2	MR 4.4	MR 4.4	1/Month	1/Month
Total Recoverable Copper	g/day	Monthly Avg. Daily Max.	0.16 0.63	MR 0.7 (1)	MR 0.7	1/Month	1/Quarter
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max. #Detect/#ND	62 144 33/2	MR 17.7 (1)	MR 17.7	1/Month	1/Quarter
Total Recoverable Zinc	g/day	Monthly Avg. Daily Max.	0.46 1.8	MR 4.3 (1)	MR 4.3	1/Month	1/Quarter
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max. #Detect/#ND	176 430 34/0	MR 112 (1)	MR 112	1/Month	1/Quarter
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	54	MR	MR	1/ Year	1/ Year

NJ0022276 Continued

Footnotes and Abbreviations:

MR Monitor and report only

(1) Analysis for derivation of existing and effective WQBELs was based on 5 data points.

Helen A. Fort Middle School - NJ0022438

1 Facility Description:

NJPDES Flow Value: 0.05 MGD

Treatment Units

1. Bar screen
2. Communitor
3. Aeration tank
4. Settling tank
5. Sand filtration beds
6. Chlorination tank
7. Dechlorination tank

Sludge is aerated during storage before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Unnamed tributary of Rancocas Creek North Branch	Downstream Confluences:	Rancocas Creek North Branch
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	PL	Watershed Management Area:	19
Latitude:	39° 59' 58.6"	Watershed:	Rancocas Creek NB (below New Lisbon dam)
Longitude:	74° 39' 51.3"	Subwatershed:	Rancocas Creek NB (Rt. 206 to Pemberton br)
County:	Burlington	14 digit Hydrologic Unit Code:	02040202040030
Municipality:	Pemberton Twp.		
Outfall Description			
Outfall Configuration:	Non-submerged pipe	Submerged Pipe Characteristics:	Not Applicable
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.3		
MA7CD10 / 7Q10:	0.4		

* Information from Draft Fact Sheet dated 10/15/03

3 Permit Summary Table and Permit Requirements (NJ0022438):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.008 0.023	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.167 0.127	4.73 7.09	4.73 7.09	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	6.2 4.8	25 37.5	25 37.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	178 178	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min % Removal	%	Monthly Avg.	97	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.07 0.07	5.7 8.5	5.7 8.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	2.98 2.98	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	245 245	MR MR	MR MR	1/Month	1/Month
TSS Min % Removal	%	Monthly Avg.	97	85	85	1/Month	1/Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.068 0.07	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	2.8 2.8	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Nitrogen, Nitrate (Total as N)	Kg/d	Monthly Avg. Weekly Avg.	1.36 1.36	MR MR	MR MR	1/Quarter	1/Year
Nitrogen, Nitrate (Total as N)	mg/L	Monthly Avg. Weekly Avg.	38 38	MR MR	MR MR	1/Quarter	1/Year
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	40 40	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg Instant Min	8.1 -- --	5.0 -- --	-- 5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Daily Max.	<5 <5	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.1 15 27	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.9	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) May 1 to Oct 31	kg/d	Monthly Avg. Daily Max.	0.02 0.05	3.78 MR	3.78 MR	1/Month	1/Month
Ammonia (Total as N) May 1 to Oct 31	mg/L	Monthly Avg. Daily Max.	0.85 340	20 MR	20 MR	1/Month	1/Month
Ammonia (Total as N) Nov 1 to Apr 30	kg/d	Monthly Avg. Daily Max.	0.36 1.88	3.78 MR	3.78 MR	1/Month	1/Month
Ammonia (Total as N) Nov 1 to Apr 30	mg/L	Monthly Avg. Daily Max.	13 61	20 MR	20 MR	1/Month	1/Month
Total Recoverable Copper	µg/L	Monthly Avg. Daily Max.	28 73	MR MR	MR MR	1/ 6 Months	1/Year
Total Recoverable Zinc	µg/L	Monthly Avg. Daily Max.	65 168	MR MR	MR MR	1/ 6 Months	1/Year
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	<0.002 <0.002	MR 0.018 (2)	MR 0.02	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	MR 0.093 (2)	MR 0.1	1/Day	1/Day
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	--	2 / Permit Cycle	-- (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	MR	2 / Permit Cycle	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

(1) The limitations were stayed pending completion of the Rancocas TMDL.

NJ0022438 Continued

- (2) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a daily maximum concentration and 0.02 kg/d as a daily maximum loading.
- (3) Given the receiving waterbody characteristics, chronic WET is the more appropriate test.

The Salvation Army, Camp Tecumseh – NJ0023001

1 Facility Description:

NJPDES Flow Value: 0.018 MGD

The permittee informed the Department that the existing STP at the facility has been removed and replaced with a prefabricated Rotating Biological Contactor (RBC) treatment system, which has a design capacity of 0.036 MGD. The new treatment plant went on-line in August 2005. However, the facility’s previous STP had a design capacity of 0.018 MGD, which is also the flow identified in the current Wastewater Management Plan (WMP).

Treatment Units:

- 1. Primary settling tank (Below RBC)
- 2. Rotating biological contactor (three stage unit):
 - a. primary biological stage
 - b. secondary biological stage
 - c. tertiary biological stage (Nitrification/Phosphorus Removal w/Alum)
- 3. Final settling tank
- 4. Chlorination tank
- 5. First dechlorination tank
- 6. Re-aeration
- 7. Second dechlorination tank

Sludge is collected in the primary settling tank before being removed to an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Nishisakawick Creek	Downstream Confluences:	Delaware River Zone 1E
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT(C1)	Watershed Management Area:	11
Latitude:	40° 35' 55.3"	Watershed:	Central Delaware Tributaries
Longitude:	75° 00' 26.9"	Subwatershed:	Hakihokake/harihokake/ Nishisakawick Creek
County:	Hunterdon	14 digit Hydrologic Unit Code:	02040105170040
Municipality:	Alexandria Township		
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs		
MA7CD10 / 7Q10:	0.0 cfs		
75 th percentile flow:	0.2 cfs		

* Information from the Fact Sheet dated 2/2007.

3 Permit Summary Table and Permit Requirements (NJ0023001):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0063 0.167	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg. #Detect/#ND	0.28 0.28 15/22	1.70 1.70	1.70 1.70	1.70 1.70	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	6.96 6.96 15/22	25 25	25 25	25 25	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	587.54 587.54	MR MR	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	97.75	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. #Detect/#ND	0.096 0.096 33/4	2.04 3.06	2.04 3.06	2.04 3.06	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	4.92 4.92 33/4	30 45	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	798.5 798.5	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	98.19	85	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.075 0.29	MR MR	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	5.69 21.7	MR MR	MR MR	MR MR	1/Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. #Detect/#ND	0.0082 0.0082 36/1	MR (2) MR (2)	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	0.35 0.35 36/1	1.0 (2) MR (2)	1.0 MR	1.0 MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. #Detect/#ND	56.4 56.4 5/32	200 400	200 400	200 400	1/Month	1/Month
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max #Detect/#ND	26.68 800 2/5	MR MR	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	6 10.47	4.0 5.0	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. #Detect/#ND	<10 <10 0/16	10 15	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	5.5 13.98 25.5	MR MR MR	-- -- --	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	5 14.04 25	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.3 8.4	MR MR	-- --	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.8 8.7	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 – Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.087 0.087	MR MR	MR MR	0.37 (3) 0.59 (3)	1/Month	1/Month
Ammonia (Total as N), Summer: May 1 – Oct 31	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	2.54 2.54 11/7	MR MR	MR MR	2.7 (3) 4.4 (3)	1/Month	1/Month
Ammonia (Total as N), Winter : Nov 1 – Apr 30	kg/d	Monthly Avg. Weekly Avg.	0.007 0.007	MR MR	MR MR	0.34 (3) 0.57 (3)	1/Month	1/Month
Ammonia (Total as N), Winter : Nov 1 – Apr 30	mg/L	Monthly Avg. Weekly Avg. #Detect/#ND	0.205 0.205 15/2	MR MR	MR MR	2.5 (3) 4.2 (3)	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	<0.005 <0.005	0.001 (4) 0.001 (4)	MR 0.007	MR 0.007	1/Day	1/Day

NJ0023001 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	0.02 (4) 0.02 (4)	MR 0.1	MR 0.1	1/Day	1/Day
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	66 (5)	MR	MR	MR	1/Year	1/Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) “Initial phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP +3 years. The “final” phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) The existing limits were re-imposed due to the facility passing the Stream Visual Assessment Protocol (SVAP).
- (3) See Toxicity based Ammonia Limits Analysis below.
- (4) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a daily maximum concentration and 0.007 kg/d as a daily maximum loading (note that this has been corrected to be consistent with the existing permit).
- (5) Two data points were IC25 >100%, where one data point was 66.

4 Toxicity-based Ammonia Limits Analysis (NJ0023001):

Ammonia limits were evaluated for this facility where it was determined that these limits should be applied. All information that was used in this calculation procedure is included below. Since the receiving waterbody has been defined as intermittent (drought flows < 0.1 cfs), the ammonia criteria is applicable at the end of the pipe, which eliminates the need for any ambient data, and a reserve capacity is not applicable. The March-April period criteria and the limits, which are applicable only to FW2-NT waters, are based on the spawning criteria (summer-time). The winter-time data and the more stringent of the two limit sets, the winter or the March/April, are applicable for the entire winter period, i.e. Nov. 1 to April 30. The values are in mg/L or as indicated otherwise and at the 95% confidence levels (upper or lower, whichever is more conservative) on the means of the summer and the winter data sets. Input data and resulting calculations are as follows:

Data Input for Equilibrium Equations							
Parameter	Summer		Winter		March/April		Data sources
	Acute	Chronic	Acute	Chronic	Acute	Chronic	
1Q10 flow - cfs**	0.00	-	0.00	-	0.00	-	USGS
30Q10 flow - cfs**	-	0.00	-	0.00	-	0.00	USGS
Facility (design) flow- mgd	0.018	0.018	0.018	0.018	0.018	0.018	0.028 cfs
Effluent pH - su	8.00	8.00	8.12	8.12	8.12	8.12	DMR – most recent 3 years
Effluent Temp °C	21.83	20.54	12.97	12.50	12.97	12.50	DMR – most recent 3 years
Effluent Alkalinity	1.00	1.00	1.00	1.00	1.00	1.00	Default
Effluent salinity - ppt	0.20	0.20	0.20	0.20	0.20	0.20	Default
CV - of effluent ammonia-N	0.60	0.60	0.60	0.60	0.60	0.60	Default
N - # of samples/month	4.00	4.00	4.00	4.00	4.00	4.00	
Ammonia limits - - mg/L							
	Summer		Winter		March/April		
	Acute	Chronic	Acute	Chronic	Acute	Chronic	
Criteria: unionized NH₃N	0.271	0.067	0.206	0.052	0.178	0.047	

NJ0023001 Continued

Criteria: equiv. total NH₃N	6.67	1.82	7.34	1.91	6.36	1.72
WLA (wasteload allocation)	6.68	1.82	7.34	1.91	6.36	1.72
LTA (long-term average)	2.14	1.42	2.36	1.49	2.04	1.34
AML (average monthly limit)	-	2.70	-	2.80	-	2.50
MDL (maximum daily limit)	-	4.40	-	4.60	-	4.20

Montgomery Township High School STP- NJ0023124

1 Facility Description:

NJPDES Flow Value: 0.035 MGD

Treatment Units:

1. Comminutor
2. Aeration tank
3. Settling tanks
4. Dosing tanks
5. Sand filter beds
6. Chlorine contact tank
7. Dechlorination tank

Residuals generated will be temporarily stored in a holding tank prior to being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information	Watershed Information
Receiving Water: Back Brook Via : Outfall pipe Classification: FW2-NT(C2) Latitude: 40° 25' 21.4" Longitude: 74° 40' 21.8" County: Somerset Municipality: Montgomery Twp	Downstream Confluences: Millstone River Receiving River Basin: Raritan River Watershed Management Area: 10 Watershed: Millstone River Subwatershed: Pike Run (below Crusier Brook) 14 digit Hydrologic Unit Code: 02030105110100
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0 cfs MA7CD10 / 7Q10: 0 cfs 75 th percentile flow: 0.5 cfs	MA7CD10 (7Q10) winter: 0.2 cfs MA30CD10 (30Q10): 0.1 cfs MA30CD10 (30Q10) winter: 0.4 cfs

* Information from Draft Fact Sheet dated 1/30/2009.

3 Permit Summary Table and Permit Requirements (NJ0023124):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.015 0.15	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	<1 <1	4.0 6.0	4.0 6.0	4.0 6.0	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	<2.5 <2.5	30 45	30 45	30 45	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	245 245	MR MR	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	98	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.1 0.1	4.0 6.0	4.0 6.0	4.0 6.0	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	2.0 2.0	30 45	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	341 341	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	98.7	85	85	85	1/Month	1/Month
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max.	0.14 0.56	MR MR	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Daily Max.	2.9 4.2	MR MR	MR MR	MR MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	1 1	200 400	200 400	200 400	1/Month	1/Month
E. Coli	# per 100mL	Monthly Avg. Instant Max.	11 18	MR MR	MR MR	MR MR	5/Month in a Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	7.6 -- --	5.0 -- --	-- 5.0 4.0	-- 5.0 4.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5 <5	10 15	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3 14 26	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 7.7	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.8 9.0	MR MR	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	35 64	MR MR	MR MR	MR MR	1/Month	1/Year
Ammonia (Total as N) Summer – May 1 to Oct 31	kg/d	Monthly Avg. Weekly Avg.	0.028 0.028	MR MR	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Summer – May 1 to Oct 31	mg/L	Monthly Avg. Daily Max.	0.50 0.50	MR MR	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Winter – Nov 1 to April 30	kg/d	Monthly Avg. Weekly Avg.	-- --	-- --	-- --	-- --	--	--
Ammonia (Total as N) Winter – Nov 1 to April 30	mg/L	Monthly Avg. Daily Max.	-- --	-- --	-- --	-- --	--	--
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	<0.01 <0.05	0.001 (2) 0.001 (2)	MR 0.013	MR 0.013	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	0.01 (2) 0.011 (2)	MR 0.1	MR 0.1	1/Day	1/Day
Copper , Total Recoverable	g/day	Monthly Avg. Daily Max.	1.7 8.3	MR (3) MR (3)	MR MR	MR 1.8	1/Month	1/Quarter
Copper, Total Recoverable	µg/L	Monthly Avg. Daily Max.	30 93	MR (3) MR (3)	MR MR	MR 14.0	1/Month	1/Quarter
Zinc , Total Recoverable	g/day	Monthly Avg. Daily Max.	4.3 11	MR (3) MR (3)	MR MR	MR (4) MR (4)	1/Month	1/6 Months
Zinc, Total Recoverable	µg/L	Monthly Avg. Daily Max.	74 189	MR (3) MR (3)	MR MR	MR (4) MR (4)	1/Month	1/6 Months
Acute Toxicity, LC50 <i>Pimephales promelas</i>	%	Minimum	>100	AL 50	AL 50	AL 50	1/ 5 Years	1/ 5 Years
Chronic Toxicity, IC25 <i>Pimephales promelas</i> <i>Ceriodaphnia dubia</i>	%	Minimum	- 20 (5)	MR MR	-- MR	-- MR	-- 1/Year	-- 1/Year

Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10: 0.1 cfs MA7CD10 / 7Q10: 0.1 cfs 75 th percentile flow: 0.4 cfs	MA1CD10 (1Q10) summer: 0.1 cfs MA1CD10 (1Q10) winter: 0.2 cfs MA30CD10 (30Q10) summer: 0.2 cfs MA30CD10 (30Q10) winter: 0.3 cfs		

* Information from Draft Fact Sheet dated 7/29/10

3 Permit Summary Table and Permit Requirements (NJ0023175):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.00151 0.0071	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.029 0.0030 19/17	1.0 1.5	1.0 1.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	5.1 5.62 17/19	30 45	30 45	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	232 236	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. Percent Removal	%	Monthly Avg.	97.3	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.085 0.097 28/8	1.0 1.5	1.0 1.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	13.3 16.9 28/8	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	323 324	MR MR	MR MR	1/Month	1/Month
TSS Min. Percent Removal	%	Monthly Avg.	92.5	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.34 0.34 35/1	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. # Det. / # ND	50.2 50.3 35/1	MR MR	MR MR	1/Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.013 0.013	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	2.1 2.2	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. # Det. / # ND	65.3 177.1 14/22	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Instant Min.	6.9 --	6.0 --	6.0 MR	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. # Det. / # ND	16.1 16.1 1/20	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4.9 16.2 33.6	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.01 8.96	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) Summer - May 1 through October 31	kg/d	Monthly Avg. Weekly Avg. # Det. / # ND	0.0015 0.0015 9/9	0.03 MR	0.03 MR	1/Month	1/Month
Ammonia (Total as N) Summer - May 1 through October 31	mg/L	Monthly Avg. Weekly Avg. # Det. / # ND	0.24 0.25 9/9	1.0 MR	1.0 MR	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	kg/d	Monthly Avg. Daily Max. # Det. / # ND	0.004 0.004 8/10	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	mg/L	Monthly Avg. Daily Max. # Det. / # ND	0.58 0.58 8/10	MR MR	MR MR	1/Month	1/Month

NJ0023175 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Chlorine Produced Oxidants	Kg/d	Month Avg. Daily Max.	<0.11 <0.11	MR 0.03	-- --	1/Day	-- --
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	0.09 (2) 0.09 (2)	-- --	1/Day	-- --
Acute Toxicity, LC50 <i>Pimephales promelas</i> <i>Ceriodaphnia dubia</i>	%	Minimum	>100 50 (3)	MR MR	-- MR	1/Quarter 1/Quarter	-- 1/ 5 Years
Chronic Toxicity, IC25 <i>Pimephales promelas</i> <i>Ceriodaphnia dubia</i>	%	Minimum	19 (No cause or RP)	MR MR	-- MR	1/Quarter 1/Quarter	-- (4) 1/6 months

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The existing monitoring requirements were re-imposed since the permit limitations were stayed via a letter dated March 9, 2007.
- (2) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a daily maximum concentration.
- (3) One data point was an LC50= 50 and eight points were >100 for *Ceriodaphnia dubia*.
- (4) Based on DMR data, it has been determined that *Ceriodaphnia dubia* is the more appropriate testing species. Therefore, *Pimephales promelas* is hereby being removed from this renewal permit.

Kingwood Township School – NJ0023311

1 Facility Description:

NJPDES Flow Value: 0.0048 MGD.

Treatment Units:

1. Equalization tank
2. Rotor disk
3. Primary clarifier
4. Secondary clarifier
5. Filter tank
5. Ultraviolet (UV) disinfection (1 unit)

Sludge is disposed off site at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information	Watershed Information
Receiving Water : Unnamed Tributary to Copper Creek via storm water collection and conveyance system Via : Outfall pipe Classification: FW2-NT Latitude: 40° 30' 25"	Downstream Confluences: Delaware River Zone 2 Receiving River Basin: Delaware Watershed Management Area: 11 Watershed: Hakiwokake/Harihokake/ Nishisakawick Creek

Longitude: 75° 00' 44"	Subwatershed: Kingwood Township (Warford-Little Nishisakawk)
County: Hunterdon	14 digit Hydrologic Unit Code: 02040105170060
Municipality: Kingwood	
Outfall Description	
Outfall Configuration: non-submerged pipe	
Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs
MA7CD10 / 7Q10: 0.0 cfs	MA1CD10 (1Q10) winter: 0.0 cfs
75 th percentile flow: 0.0 cfs	MA30CD10 (30Q10) summer: 0.0 cfs
	MA30CD10 (30Q10) winter: 0.0 cfs

* Information from Fact Sheet dated 1/2009

3 Permit Summary Table and Permit Requirements (NJ0023311):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008-12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.004 0.25	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.044 0.046	0.45 0.68	0.45 0.68	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	6.65 7.59	25 37.5	25 37.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	400.14 400.14	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	97.1	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.09 0.11	0.55 0.82	0.55 0.82	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	15.8 18.3	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	517.4 524.6	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	93.4	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.4 0.4	MR MR	MR MR	1/Quarter	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	51.52 51.52	MR MR	MR MR	1/Quarter	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.4 0.4	MR (1) MR (1)	MR (1) MR (1)	1/Quarter	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	5.2 5.4	MR (1) MR (1)	MR (1) MR (1)	1/Quarter	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. #Det/#ND (2)	50.1 127.5 13/7	200 400	200 400	1/Month	1/Month
E.Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	285.5 500	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	7.1 -- --	5.0 -- --	-- 6.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max. #Det/#ND	<5 <5 0/18	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	8.8 20 33	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7.5 18.6 36.9	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	6.41 8.9	MR MR	-- --	1/Day	--

NJ0023311 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008-12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Effluent pH	su	Instant. Min. Instant. Max.	6 8.03	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) Summer - May 1 through October 31	kg/d	Monthly Avg. Daily Max. #Det/#ND	0.01 0.19 14/3	0.04 (1) 0.055 (1)	0.11* 0.18 *	1/Month	1/Month
Ammonia (Total as N) Summer - May 1 through October 31	mg/L	Monthly Avg. Daily Max. #Det/#ND	1.79 12.23 14/3	2 (1) 3 (1)	6* 10*	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	kg/d	Monthly Avg. Daily Max. #Det/#ND	0.01 0.04 14/4	0.055 (1) 0.07 (1)	0.11* 0.18 *	1/Month	1/Month
Ammonia (Total as N) Winter - November 1 through April 30	mg/L	Monthly Avg. Daily Max. #Det/#ND	1.78 6.41 14/4	3 (1) 4 (1)	6* 10*	1/Month	1/Month
Total Recoverable Copper	g/d	Month Avg. Daily Max. #Det/#ND	0.14 0.36 2/0	MR (2) MR (2)	MR (3) MR (3)	1/Month	1/6 Months
Total Recoverable Copper	µg/L	Month Avg. Daily Max. #Det/#ND	18.12 40.4 2/0	MR (2) MR (2)	MR (3) MR (3)	1/Month	1/6 Months
Total Recoverable Zinc	g/d	Month Avg. Daily Max. #Det/#ND	0.5 1.46 2/0	MR (2) MR (2)	MR (3) MR (3)	1/Month	1/6 Months
Total Recoverable Zinc	µg/L	Month Avg. Daily Max. #Det/#ND	65.7 137 2/0	MR (2) MR (2)	MR (3) MR (3)	1/Month	1/6 Months
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	MR	1/Year	1/Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The permittee shall comply with the Administrative Consent Order (ACO) executed between the permittee and the Department on February 27, 2000 and amended on October 20, 2009. The ACO includes monthly average and daily maximum concentration and loading limitations for Ammonia, Nitrogen and a monitor only requirement for Total Phosphorus. Facility passed the SVAP for phosphorus.
- (2) The existing permit incorporates copper limitations of 13.99 ug/L (0.25 grams/day) as a daily maximum and zinc limitations of 119.8 ug/L (2.17 grams/day) with an effective date of September 1, 2014. These limits were never effective.
- (3) Effluent requirements were considered based on the final copper Water Effects Ratio (WER) study and site-specific copper and zinc translators and hardness data submitted by the permittee. Cause to violate water quality was not demonstrated.

* The Department has determined that these effluent limits satisfy antidegradation and antibacksliding. This is due to a variety of site-specific factors including, but not limited to: an increase in in-stream water quality criteria resulting in higher site-specific water quality based effluent limits and the installation of a flow equalization tank resulting in improved effluent water quality.

Lounsberry Hollow Middle School – NJ0023841

1 Receiving Water Information:

NJPDES Flow Value: 0.032 MGD

Treatment Units:

1. Bar Screen
2. Comminutor
3. Equalization Tank

4. Aeration Tank
5. Biological Settling Clarifier
6. Chemical Mixing Unit
7. Chemical Clarifier (Phosphorus Removal)
8. Rapid Sand Filters (2)
9. Clear Well
10. Ultraviolet disinfection chamber (2)
11. Post Aeration Tank

Sludge Management: Sludge is decanted then stored in a holding tank before being managed at an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Lounsberry Hollow Brook via unnamed tributary and storm sewer Via : Concrete outfall pipe Classification: FW2-TM(C2) Latitude (a): 41° 13' 23" Longitude (a): 74° 29' 49.8" County: Sussex Municipality: Vernon Township	Downstream Confluences: Black Creek Receiving River Basin: Wallkill River Basin Watershed Management Area: 02 Watershed: Pochuck Creek Subwatershed: Balck Creek (below G. George Resort trib) 14 digit Hydrologic Unit Code: 02020007040020		
Outfall Description			
Outfall Configuration: Non-submerged pipe			
Current Receiving Stream Design Low Flow Values*			
MA1CD10 / 1Q10: 0.0 cfs	MA1CD10 (1Q10) summer: 0.0 cfs	MA7CD10 / 7Q10: 0.0 cfs	MA1CD10 (1Q10) winter: 0.0 cfs
75 th percentile flow: 0.0 cfs	MA30CD10 (30Q10)summer: 0.0 cfs		MA30CD10 (30Q10) winter: 0.0 cfs

* Information from Fact Sheet dated 10/17/2005.

(a) Latitude and Longitude Coordinates for the facility's "End of Pipe".

3 Permit Summary Table and Permit Requirements (NJ0023841):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.009 0.46	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.07 0.07	1.8 2.72	1.8 2.72	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	1.62 1.62	15 22.5	15 22.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	154 154	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	98.2	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.08 0.08	3.6 5.4	3.6 5.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	1.89 1.89	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	155 155	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	97.6	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.80 1.54	MR MR	MR MR	1/Quarter	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	18.7 32.5	MR MR	MR MR	1/Quarter	1/Year

NJ0023841 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.014 0.015	0.012 (1) 0.018 (1)	MR 0.06	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.33 0.33	0.1 (1) 0.15 (1)	MR 0.5	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	13 13	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg..	8.7 7.6	6.0 MR	6.0 MR	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5 < 5	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	5.1 16.5 28.3	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.3 15.3 28.8	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	Su	Instant. Min. Instant. Max.	7.14 8.84	MR MR	-- --	1/Day	--
Effluent pH	Su	Instant. Min. Instant. Max.	6.89 8.66	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer: May 1 - Oct. 31	kg/d	Monthly Avg. Daily Max.	0.006 0.004	0.31 0.46	0.31 0.46	1/ Month	1/ Month
Ammonia (Total as N), Summer: May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max.	0.13 0.82	2.6 3.8	2.6 3.8	1/ Month	1/ Month
Ammonia (Total as N), Winter: Nov.1 – Apr. 30	kg/d	Monthly Avg. Daily Max.	0.01 0.05	0.31 0.46	0.31 0.46	1/ Month	1/ Month
Ammonia (Total as N), Winter: Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max.	0.18 0.67	2.6 3.8	2.6 3.8	1/ Month	1/ Month
Zinc, Total Recoverable	g/day	Monthly Avg. Daily Max	1.56 5.16	MR 13.62 (2)	MR 13.62 (3)	1/ Month	1/ 6 Months
Zinc, Total Recoverable	ug/L	Monthly Avg. Daily Max	42 110	MR 112.47 (2)	MR 112.47 (3)	1/ Month	1/ 6 Months
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	69.9 (4)	55	55	1 / 6 Months	1 / Year (4)

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The Phosphorus limits were stayed in a letter dated 6/23/2011 pending completion of the pending Northwest Water Region TMDL.
- (2) The final zinc limitations became effective on 7/1/2011 where analysis was based on 9 data points.
- (3) Existing limits retained since recent data does not show cause to violate water quality.
- (4) Five data points were an IC25 > 100% and one data point was 69.9. Based on consistent compliance, the sampling frequency for chronic WET is being reduced to 1/Year.

Union Township Elementary School - NJ0024091

1 Facility Description:

NJPDES Flow Value: 0.011 MGD

Treatment Units:

1. Comminutor
2. Aeration and pH maintenance tank
3. Clarifier
4. Chlorination/dosing tank
5. Sand filter bed

- 6. Dechlorination
- 7. Post aeration

Sludge is transported off-site where it is managed at an approved residuals management site, which is currently Passaic Valley Sewage Authority.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water: Mulhockaway Creek	Downstream Confluences: South & North Branch Raritan		
Via : Unnamed tributary	Receiving River Basin: Raritan River Basin		
Classification: FW2-TP (C1)	WMA: 08		
Latitude: 40° 37' 57"	Watershed: Raritan River SB (3 Brdgs to Spruce Run)		
Longitude: 74° 58' 16.9"	Subwatershed: Mulhockaway Creek		
County: Hunterdon	HUC 14: 02030105020030		
Municipality: Union Township	Water Quality Impairments: None		
Outfall Description			
Outfall Configuration: non-submerged pipe			
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10: 0.1 cfs	MA1CD10 (1Q10) summer: 0.1 cfs		
MA7CD10 / 7Q10: 0.1 cfs	MA1CD10 (1Q10) winter: 0.1 cfs		
75 th percentile flow (d): 0.4 cfs	MA30CD10 (30Q10) summer: 0.1 cfs		
	MA30CD10 (30Q10) winter: 0.3 cfs		

* Information from Draft Fact Sheet issued 10/20/2005.

3 Permit Summary Table and Permit Requirements (NJ0024091):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.04	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.03 0.03	0.33 0.5	0.33 0.5	1/Month	1/Month
5 Day Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg. #Det/#ND	5.35 5.35 10/26	8.0 12	8.0 12	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	500.5 500.5	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	97.3	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.02 0.02	0.33 0.5	0.33 0.5	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg. #Det/#ND	3.27 3.27 25/11	8.0 12	8.0 12	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1072.61 1072.61	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	96.89	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.2 0.46	MR MR	MR MR	1/6 Months	1/ Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max. #Det/#ND	80 92.3 4/1	MR MR	MR MR	1/6 Months	1/ Year
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.64 4.92	1.0 (1) MR	1.0 MR	1/Month	1/Quarter

NJ0024091 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg. #Det/#ND	59.38 60.14 11/25	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an annual period
Dissolved Oxygen (minimum)	mg/L	Monthly Avg. Daily Avg.	8.9 --	7.0 --	MR 7.0	1/Month	1/Month
Oil and Grease	kg/d	Monthly Avg. Instant Max.	0.06 0.1	MR MR	-- --	1/Quarter	1/Quarter
Oil and Grease	mg/L	Monthly Avg. Instant Max. #Det/#ND	10 15.5 4 / 7	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2.5 14.21 29	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	5.8 8.49	6.5 8.5	6.5 8.5	1/Day	1/Day
Ammonia (Total as N) DO based - May 1 - Oct. 31	kg/d	Monthly Avg. Weekly Avg.	0.003 0.07	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) DO based - May 1 - Oct. 31	mg/L	Monthly Avg. Weekly Avg. #Det/#ND	0.7 5.93 11/7	1.0 MR	1.0 MR	1/Month	1/Month
Ammonia (Total as N) Nov. 1 - Apr. 30	kg/d	Monthly Avg. Daily Max.	0.03 0.15	MR MR	MR MR	1/Month	1/Month
Ammonia (Total as N) Nov.1 - Apr 30	mg/L	Monthly Avg. Daily Max. #Det/#ND	4.7 26.1 14/4	MR MR	MR MR	1/Month	1/Month
Chlorine Produced Oxidants	kg/day	Month Avg. Daily Max.	<0.001 <0.001	MR (2) MR (2)	MR 0.0042	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.01 <0.01	0.03 (2) 0.03 (2)	MR 0.1	1/Day	1/Day
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	No Data	MR	--	1/Permit Cycle	-- (3)
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	No Data	MR	MR	1/Permit Cycle	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) Effluent limits were stayed pending the completion of the Raritan River Basin TMDL.
- (2) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a daily maximum concentration.
and 0.0042 kg/d as a daily maximum loading.
- (2) Given the receiving waterbody characteristics, chronic WET is the more appropriate test.

Burnt Hill Treatment Plant #1 - NJG0026891

1 Facility Description:

NJPDES Flow Value: 0.0153 MGD

Treatment Units

1. Comminutor
2. Aeration tank
3. Settling tank
4. Dosing tank
5. Sand filter bed

6. Chlorine contact tank
7. Dechlorination tank

Sludge is stored in a holding tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Back Brook	Downstream Confluences:	Millstone River
Via :	Outfall pipe	Receiving River Basin:	Raritan River Basin
Classification:	FW2-NT (C2)	Watershed Management Area:	10
Latitude:	40° 25' 18"	Watershed:	Millstone River (below/incl Carnegie Lk)
Longitude:	74° 40' 26"	Subwatershed:	Pike Run (below Crusier Brook)
County:	Somerset County	14 digit Hydrologic Unit Code:	02030105110100
Municipality:	Montgomery Township	303(d) List Impairments:	None
Municipality:	Montgomery Township		
Outfall Description			
Outfall Configuration:	headwall		

Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0 cfs	MA7CD10 (7Q10) winter:	0.2 cfs
MA7CD10 / 7Q10:	0 cfs	MA30CD10 (30Q10):	0.1 cfs
75 th percentile flow (b):	0.5 cfs	MA30CD10 (30Q10) winter:	0.4 cfs

* Information from Fact Sheet issued on 1/26/2009

3 Permit Summary Table and Permit Requirements (NJ0026891):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow*	MGD	Monthly Avg. Daily Max.	0.007 0.22	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.15 0.42	1.7 2.6	1.7 2.6	1.7 2.6	1/ Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	5.5 18.5	30 45	30 45	30 45	1/ Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	228 228	MR MR	MR MR	MR MR	1/ Month	1/Month
BOD ₅ Minimum Percent Removal	%	Monthly Avg.	97.86	85	85	85	1/ Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.26 0.26	1.7 2.6	1.7 2.6	1.7 2.6	1/ Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.5 4.5	30 45	30 45	30 45	1/ Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	307 307	MR MR	MR MR	MR MR	1/ Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	98	85	85	85	1/ Month	1/Month
Phosphorus	kg/d	Monthly Avg. Daily Max.	0.11 0.65	MR MR	MR MR	MR MR	1/ Month	1/Quarter
Phosphorus	mg/L	Monthly Avg. Daily Max.	2.74 3.94	MR MR	MR MR	MR MR	1/ Month	1/Quarter

NJ0026891 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 11/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	1.11 6.1	MR MR	MR MR	MR MR	1/ Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	24 42	MR MR	MR MR	MR MR	1/ Month	1/Year
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	22 22	200 400	200 400	200 400	1/ Month	1/Month
E. coli	# per 100mL	Monthly Avg. Instant Max	11 14	MR MR	MR MR	MR MR	5/Month in an annual period	5/Month in an annual period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Instant Min.	7.8 --	5.0 --	5.0 4.0	5.0 4.0	1/ Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5 < 5	10 15	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature*	°C	Instant. Min. Monthly Avg. Instant. Max.	2 14 25	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.1 8.2	6.0 9.0	6.0 9.0	6.0 9.0	1/ Day	1/Day
Ammonia (Total as N) May 1 – Oct 31	kg/d	Monthly Avg. Daily Max.	0.04 0.1	MR MR	MR MR	MR MR	1/ Month	1/Month
Ammonia (Total as N) May 1 – Oct 31	mg/L	Monthly Avg. Daily Max.	0.98 2.9	MR MR	MR MR	MR MR	1/ Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	kg/d	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	MR MR	1/ Month	1/Month
Ammonia (Total as N) Nov 1 – Apr 30	mg/L	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	MR MR	1/ Month	1/Month
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	<0.004 <0.004	0.0004 (2) 0.001 (2)	MR 0.006	MR 0.006	1/ Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	<0.1 <0.1	0.007 (2) 0.018 (2)	MR 0.1	MR 0.1	1/ Day	1/Day
Copper, Total Recoverable	g/day	Monthly Avg. Daily Max.	0.75 4.2	MR MR	MR MR	MR 0.8	1/ Month	1/Quarter
Copper, Total Recoverable	µg/L	Monthly Avg. Daily Max.	18 33	MR MR	MR MR	MR 14.0	1/ Month	1/Quarter
Zinc, Total Recoverable	g/day	Monthly Avg. Daily Max.	2 9.7	MR MR	MR MR	MR MR	1/ Month	1/ 6 Months
Zinc, Total Recoverable	µg/L	Monthly Avg. Daily Max.	46 70	MR MR	MR MR	MR MR	1/ Month	1/ 6 Months
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	< 100	MR	MR	MR	1/ Year	1/Year
Chronic Toxicity, IC25 <i>Pimephales promelas</i>	% effluent	Minimum	< 100	MR	MR	MR	1/ Year	1/Year

*This final Permit Summary Attachment has been changed to reflect the existing permit namely daily maximum reporting for effluent flow and daily monitoring for effluent temperature has been specified.

Footnotes and Abbreviations:

MR Monitor and report only

- (1) "Initial phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP +3 years. The "final" phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a monthly average and daily maximum concentration and 0.006 kg/d as a monthly average and daily maximum loading.

Pope John XXIII High School – NJ0027049

1 Receiving Water Information:

NJPDES Flow Value: 0.022 MGD

Treatment Units:

1. Comminutor
2. Bar Screen
3. Surge Tank
4. Return Activated Sludge Tank
5. Steel Tank with Dual Media Filter
6. Ultraviolet Disinfection Chamber
7. Metal Tanks with Aerators

Sludge is stored in a holding tank before being managed at an approved residuals management site.

2 Facility Description:

General Information		Watershed Information	
Receiving Water:	Unnamed tributary to Fox Hollow Lake	Downstream Confluences:	Lake Mohawk
Via :	Publicly owned storm sewer	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT	WMA:	01-Upper Delaware River
Latitude:	41° 01' 56.7"	Watershed:	Paulins Kill (above Stillwater Village)
Longitude:	74° 39' 59"	Subwatershed:	Sparta Junction tribs
County:	Sussex	HUC 14:	02040105040050
Municipality:	Sparta		
Outfall Description			
Outfall Configuration:	N/A- discharge to a publicly owned storm sewer	Submerged Pipe Characteristics:	N/A
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0 cfs	MA1CD10 (1Q10) summer:	0 cfs
MA7CD10 / 7Q10:	0 cfs	MA1CD10 (1Q10) winter:	0 cfs
75 th percentile flow:	0 cfs	MA30CD10 (30Q10) summer:	0 cfs
		MA30CD10 (30Q10) winter:	0 cfs

* Information from the Draft Permit Fact Sheet issued 4/7/2005.

3 Permit Summary Table and Permit Requirements (NJ0027049):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.01	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.034 0.031	2.08 3.33	2.08 3.33	2.08 3.33	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	3.25 3.66	25 40	25 40	25 40	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	201 201	MR MR	MR MR	MR MR	1/Month	1/Month
BOD ₅ Minimum Percent Removal	%	Monthly Avg.	96	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.04 0.04	2.5 3.75	2.5 3.75	2.5 3.75	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	4.85 6.21	30 45	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	322 322	MR MR	MR MR	MR MR	1/Month	1/Month

NJ0027049 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
TSS Minimum Percent Removal	%	Monthly Avg.	97.3	85	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	0.41 0.41	MR MR	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	56.5 56.5	MR MR	MR MR	MR MR	1/Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.002 0.004	(2) (2)	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.35 0.46	(2) (2)	1.0 MR	1.0 MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	26 26	200 400	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	MR MR	-- --	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	10.1 10.1 --	5.0 4.0 --	-- 5.0 4.0	-- 5.0 4.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5.5 < 5.5	10 15	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 14.4 25	MR MR MR	-- -- --	-- -- --	1/Day	-- --
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 14.3 25	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	7.8 12	MR MR	-- --	-- --	1/Day	-- --
Effluent pH	su	Instant. Min. Instant. Max.	6.1 9.0	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer, May 1 – Oct. 31	kg/d	Monthly Avg. Daily Max.	0.002 0.022	0.33 0.38	0.33 0.38	0.18 (3) 0.30 (3)	1/ Month	1/ Month
Ammonia (Total as N), Summer, May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max.	0.28 3.44	4 4.6	4 4.6	2.4(3) 4.0 (3)	1/ Month	1/ Month
Ammonia (Total as N), Winter, Nov. 1 – Apr. 30	kg/d	Monthly Avg. Daily Max.	0.01 0.59	MR 0.56	MR 0.56	0.19 (3) 0.32 (3)	1/ Month	1/ Month
Ammonia (Total as N), Winter, Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max.	1.4 5.91	MR 6.8	MR 6.8	2.5 (3) 4.2 (3)	1/ Month	1/ Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	< 0.001 0.009	MR MR	-- --	-- --	1 / Year	(4)
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	< .1 < .1	MR MR	-- --	-- --	1 / Year	(4)
Copper, Total Recoverable	g/day	Monthly Avg. Daily Max	0.21 0.83	MR (5) MR (5)	MR MR	MR MR	1/ Month	1/Year
Copper, Total Recoverable	ug/L	Monthly Avg. Daily Max	29.2 64	MR (5) MR (5)	MR MR	MR MR	1/ Month	1/Year
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	>100	50	--	--	1 / 5 Years	--
Chronic Toxicity, <i>Ceriodaphnia dubia</i> <i>Pimephales promelas</i>	% effluent	Minimum	7.9 (6)	MR MR	MR (1) --	61 (1) --	1 / 6 Months 1/ 6 Months	1 / 6 Months -- (7)

Footnotes and Abbreviations:

MR Monitor and report only

- (1) "Initial phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP +59 months. The "final" phase limitations and monitoring conditions become effective on EDP+60 months. This compliance schedule is necessary to allow for treatment upgrades.
- (2) Effluent limitations were stayed as the permittee passed a Total Phosphorus SVAP study, which showed that the TP criteria of 0.1 mg/L does not apply to the permittee's discharge.
- (3) See Toxicity based Ammonia Limits Analysis below.
- (4) Since the facility is currently using UV disinfection in place of chlorination, the permittee is no longer required to monitor and report CPO.
- (5) The existing permit incorporated copper limits with a compliance schedule where the effective date was July 1, 2010. However, in a letter issued August 2, 2010, based on new site specific hardness data and since the permittee was in the process of conducting a Water Effects Ratio study, a STAY of the limits was granted.
- (6) Three data points were an IC25>100% and three data points were 7.9, 16.9, and 34.2.

(7) Based on site specific data, *Ceriodaphnia dubia* has been determined to be the more sensitive species. Therefore, the *Pimephales promelas* has been removed from this permit renewal.

4 Toxicity-based Ammonia Limits Analysis (NJ0027049):

Ammonia limits were evaluated for this facility where it was determined that these more stringent limits should be applied. All information that was used in this calculation procedure is included below. Since the receiving waterbody has been defined as intermittent (drought flows < 0.1 cfs), the ammonia criteria is applicable at the end of the pipe, which eliminates the need for any ambient data, and a reserve capacity is not applicable. The March-April period criteria and the limits, which are applicable only to FW2-NT waters, are based on the spawning criteria (summer-time). The winter-time data and more stringent of the two limit sets, the winter or the March/April, are applicable for the entire winter period, i.e. Nov. 1 to April 30. The values are in mg/L or as indicated otherwise and at the 95% confidence levels (upper or lower, whichever is more conservative) on the means of the summer and the winter data sets. Input data and resulting calculations are as follows:

Data Input for Equilibrium Equations (NJ0027049)							
<u>Parameter</u>	<u>Summer</u>		<u>Winter</u>		<u>March/April</u>		<u>Data sources</u>
	Acute	Chronic	Acute	Chronic	Acute	Chronic	
1Q10 flow - cfs	0.00	-	0.00	-	0.00	-	USGS
30Q10 flow - cfs	-	0.00	-	0.00	-	0.00	USGS
Facility (design) flow- mgd	0.022	0.022	0.022	0.022	0.022	0.022	0.034 cfs
Effluent pH - su	8.08	8.08	8.12	8.12	8.12	8.12	DMR – most recent 3 years
Effluent Temp °C	22.46	21.52	13.81	12.77	13.81	12.77	DMR – most recent 3 years
Effluent Alkalinity	1.00	1.00	1.00	1.00	1.00	1.00	Default
Effluent salinity - ppt	0.20	0.20	0.20	0.20	0.20	0.20	Default
CV - of effluent ammonia-N	0.60	0.60	0.60	0.60	0.60	0.60	Default
N - # of samples/month	4.00	4.00	4.00	4.00	4.00	4.00	
Ammonia limits - - mg/L							
	<u>Summer</u>		<u>Winter</u>		<u>March/April</u>		
	Acute	Chronic	Acute	Chronic	Acute	Chronic	
Criteria: unionized NH₃N	0.303	0.077	0.217	0.053	0.188	0.047	
Criteria: equiv. total NH₃N	6.00	1.63	7.25	1.90	6.28	1.71	
WLA (wasteload allocation)	6.01	1.63	7.26	1.90	6.29	1.71	
LTA (long-term average)	1.93	1.27	2.33	1.49	2.02	1.34	
AML (average monthly limit)	-	2.40	-	2.80	-	2.50	
MDL (maximum daily limit)	-	4.00	-	4.60	-	4.20	

Sparta Alpine School – NJ0027065

1 Facility Description:

NJPDES Flow Value: 0.025MGD

Treatment Units:

1. Comminutor
2. Bar Screen
3. Aeration
4. Phosphorus Reduction (aluminum sulfate addition)
5. Secondary Clarification
6. Sand Filtration
7. Ultraviolet Disinfection

Sludge Management: Sludge is managed off-site at an approved sludge management operation.

2 Receiving Water Information:

Outfall Designator: 001A

General Information	Watershed Information
Receiving Water: Unnamed tributary to Paulins kill Via : Outfall pipe Classification: FW2-NT(C2) Latitude: 41° 01' 20" Longitude: 74° 40' 37" County: Sussex Municipality: Sparta Township	Downstream Confluences: Paulins Kill Receiving River Basin: Delaware River WMA: Watershed: Paulins Kill (above Stillwater Village) Subwatershed: Paulins Kill (above Rt 15) HUC 14: 02040105040060 Water Quality Impairments: DO and Phosphorus
Outfall Description	
partially submerged pipe	Submerged Pipe N/A Characteristics:

Current Receiving Stream Design Low Flow Values *	
MA1CD10 / 1Q10: 0 cfs	MA1CD10 (1Q10) summer: 0 cfs
MA7CD10 / 7Q10: 0 cfs	MA1CD10 (1Q10) winter: 0 cfs
75 th percentile flow: 0 cfs	MA30CD10 (30Q10) summer: 0 cfs
	MA30CD10 (30Q10) winter: 0 cfs

*Information from the Draft Permit Fact Sheet issued on 6/14/11.

3 Permit Summary Table and Permit Requirements (NJ0027065):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS (1)	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.002 0.05	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.03 0.03	1.4 1.4	1.4 1.4	1.4 1.4	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	2.34 2.34	15 15	15 15	15 15	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	175 175	MR MR	MR MR	MR MR	1/Month	1/Month
BOD ₅ Minimum Percent Removal	%	Monthly Avg.	98	95	95	95	1/Month	1/Month

NJ0027065 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS (1)	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.16 0.17	2.9 4.4	2.9 4.4	2.9 4.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	9.60 9.93	30 45	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	462 566	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Minimum Percent Removal	%	Monthly Avg.	91.8	85	85	85	1/Month	1/Month
Chlorine Produced Oxidants	kg/d	Monthly Avg. Daily Max.	< 0.002 < 0.002	MR MR	-- --	-- --	1 / Permit Cycle	(2)
Chlorine Produced Oxidants	mg/L	Monthly Avg. Daily Max.	< 0.1 < 0.1	MR MR	-- --	-- --	1 / Permit Cycle	(2)
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max	-- --	-- --	MR MR	MR MR	--	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max	-- --	-- --	MR MR	MR MR	--	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	-- --	MR --	MR --	MR TMDL	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.455 --	1.0 --	1.0 --	1.0 TMDL	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg	10.7 10.7	200 400	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	MR MR	MR MR	MR MR	5/Month per Semi- Annual	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Instant. Min. Daily Avg.	7.9 8.92	4.0 5.0	4.0 5.0	4.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	2.75 5.2	10 15	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	11.7 19.2 27.3	MR MR MR	-- -- --	-- -- --	1/Day	-- --
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	5 16.5 27.8	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	7.01 8.38	MR MR	-- --	-- --	1/Day	-- --
Effluent pH	su	Instant. Min. Instant. Max.	6.5 8.04	6.5 8.5	6.5 8.5	6.5 8.5	1/Day	1/Day
Ammonia (Total as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Daily Max.	0.009 0.03	MR (3) 0.66 (3)	MR (3) 0.66 (3)	0.37 (3) 0.57 (3)	1/ Month	1/ Month
Ammonia (Total as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max.	0.60 3.29	MR (3) 7 (3)	MR (3) 7 (3)	3.9 (3) 6 (3)	1/ Month	1/ Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max.	0.016 0.06	MR(3) 1.2 (3)	MR(3) 1.2 (3)	0.40 (3) 0.66 (3)	1/ Month	1/ Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max.	0.75 3.28	MR (3) 12.6 (3)	MR (3) 12.6 (3)	4.2 (3) 7 (3)	1/ Month	1/ Month
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	No Data	MR	MR	MR	1 / Year	1 / Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) Based on the recent issuance of a renewal permit (8/1/11), the “existing” phase limitations became effective 10/1/2011. This renewal includes an “initial” phase with limitations and monitoring conditions becoming effective from the effective date of the permit (EDP) until EDP +3 years. And the “final” phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) Since the facility is currently using UV disinfection in place of chlorination, the permittee is no longer required to monitor and report CPO.
- (3) Effluent limitations for ammonia were given a three year compliance schedule in the existing permit. The “Initial” phase limitations and monitoring conditions were effective from the effective date of the permit (EDP) until EDP+3 years (10/1/11 to 9/30/2014). And the “final” limits were effective on EDP+36 months (10/1/14). However, upon issuance of this new permit, the “final” phase limitations and monitoring conditions become effective on EDP+3 years from the effective date of this permit and are equivalent to the “final” phase limits in the permit that became effective 10/1/11.

Lester D. Wilson Elementary School – NJ0027553

1 Receiving Water Information:

NJPDES Flow Value: 0.0075 MGD

Treatment Units

1. Septic tank
2. Underground denitrification / nitrification sand filter
3. Underground polishing sand filter
4. Ultraviolet disinfection unit

Sludge Management: Sludge is pumped from the septic tank and then trucked to an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Unnamed Tributary	Downstream Confluences:	Nishisakawick Creek
Via :	Outfall Pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT (C1)	WMA:	11
Latitude:	40°34' 08"	Watershed:	Hakihokakae/Harihokake/Nishisakawick Creek
Longitude:	75° 01'26"	Subwatershed:	Nishisakawick Creek (above 40d, 33m)
County:	Hunterdon	HUC 14:	02040105170040
Municipality:	Alexandria Township		
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	0.0 cfs
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	N/A
75 th percentile flow (b):	0.2 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.1 cfs

*Information from the Draft Permit Fact Sheet issued 5/24/07.

3 Permit Summary Table and Permit Requirements (NJ0027553):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.008	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	<0.01 <0.01	0.71 1.06	0.71 1.06	0.71 1.06	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	<2.5 <2.5	25 37.5	25 37.5	25 37.5	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	613 616	MR MR	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	98	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.02 0.02	0.85 1.28	0.85 1.28	0.85 1.28	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	5.1 5.1	30 45	30 45	30 45	1/Month	1/Month

NJ0027553 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	1,247 1,250	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	87	85	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	0.05 0.13	MR MR	MR MR	MR MR	1/Month	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	9.7 18	MR MR	MR MR	MR MR	1/Month	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.007 0.007	MR (2) MR (2)	MR MR	MR MR	1/ 6 Months	1/ Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	1.32 1.32	MR (2) MR (2)	MR MR	MR MR	1/ 6 Months	1/ Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	<10 <10	200 400	200 400	200 400	1/Month	1/Month
E Coli (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	11 20	MR MR	MR MR	MR MR	5/ Month in an Annual Period	5/ Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Instant Min. Daily Avg.	6.9 -- --	5.0 -- --	-- 4.0 5.0	-- 4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5 <5	10 15	10 15	10 15	1/ Quarter	1/ Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4 15 28	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.11 7.4	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Daily Max...	0.001 0.001	MR 0.30	MR 0.30	MR (3) 0.29 (3)	1/Month	1/Month
Ammonia (Total as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max.	0.204 0.35	MR 10.5	MR 10.5	MR (3) 10.2 (3)	1/Month	1/Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max.	0.001 0.024	0.57 0.62	0.57 0.62	MR (3) 0.52 (3)	1/Month	1/Month
Ammonia (Total as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max.	3.5 13.7	20 22	20 22	MR 18.4	1/Month	1/Month
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	%	Minimum	No Data	MR	MR	MR	1/ Permit Cycle	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) This table includes an “initial” phase with limitations and monitoring conditions becoming effective from the effective date of the permit (EDP) until EDP +3 years. The “final” phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) Effluent limitations were stayed as the permittee passed a Total Phosphorus SVAP study, which showed that the TP criteria of 0.1 mg/L does not apply to the permittee’s discharge.
- (3) Based on the existing permit, the final ammonia limitations become effective on 1/1/2013. However, as noted above, the final ammonia limits become effective at EDP+3 years. Effluent limitations for ammonia were given a three year compliance schedule in the existing permit. The “Initial” phase limitations and monitoring conditions were effective from the effective date of the permit (EDP) until EDP+3 years. And the “final” limits were effective on EDP+36 months (1/1/13). However, upon issuance of this new permit, the “final” phase limitations and monitoring conditions become effective on EDP+3 years from the effective date of this permit.

Kittatiny Reg. High School - NJ0028894

1 Receiving Water Information:

NJPDES Flow Value: 0.045MGD

Treatment Units

1. bar screen
2. equalization tank
3. aeration tank
4. clarifiers (2)
5. concrete lined settling tank
6. ultraviolet disinfection
7. aerated manhole

Sludge Management: Sludge is managed at an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Paulins Kill	Downstream Confluences:	Delaware River
Via :	Outfall Pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT	WMA:	01: Upper Delaware
Latitude:	41° 06' 14"	Watershed:	Paulins Kill (above Stillwater Village)
Longitude:	74° 45' 29.8"	Subwatershed:	Paulins Kill (Paulins Kill outlet to Dry Brook)
County:	Sussex	HUC 14:	02040105040080
Municipality:	Hampton	Water Quality Impairments:	Arsenic
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	8.7 cfs	MA30CD10 (30Q10) summer:	13 cfs
MA7CD10 / 7Q10:	10 cfs	MA30CD10 (30Q10) winter:	26 cfs
75 th percentile flow:	37 cfs		

*Information from the Draft Permit Fact Sheet issued 4/20/06.

3 Permit Summary Table and Permit Requirements (NJ0028894):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.050	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.34 0.34	4.2 6.8	4.2 6.8	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	9.62 9.62	25 40	25 40	1/Month	1/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	289.28 289.28	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	96.58	85	85	1/Month	1/Month

NJ0028894 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.19 0.19	5.1 7.6	5.1 7.6	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	6.61 6.61	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	254.56 254.56	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	95.8	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	0.023 0.025	MR MR	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	0.62 0.67	1.0 MR	1.0 MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	40.69 53.75	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	7.3 8.59	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5.0 <5.0	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	12.2 20.13 29.8	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.4 14 25.1	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	7.05 8.99	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.51 8.44	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	kg/d	Monthly Avg. Daily Max.	0.10 0.9	3.4 MR	3.4 MR	1/Month	1/Month
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	mg/L	Monthly Avg. Daily Max.	2.76 19.5	20 MR	20 MR	1/Month	1/Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max.	0.10 0.57	3.4 MR	3.4 MR	1/Month	1/Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max.	2.58 9.16	20 MR	20 MR	1/Month	1/Month
Acute Toxicity, LC50 <i>Pimephales promelas</i>	% effluent	Minimum	>100	50	AL 50	1/Year	1/Year

Footnotes and Abbreviations:

MR Monitor and report only

AL- Action Level

Robert Erskine School – NJ0029432

1 Facility Description:

NJPDES Flow Value: 0.008 million gallons per day (MGD).

The wastewater treatment plant at Robert Erskine School also processes the sanitary wastewater from Peter Cooper School which is transferred over approximately two (2) times a week.

Treatment Units:

1. Bar Screen
2. Equalization Tank (Influent Well)

3. Extended Aeration Tank – Addition of Caustic Soda and Alum
4. Secondary Clarifier (Settling Tank)
5. Mud Well
6. Carbon Filters (2)
7. Post Aeration Tank
5. Ultraviolet (UV) Disinfection Chamber

Sludge Management: Sludge generated at this facility is held in a holding tank before being managed off-site at an approved residuals management operation.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Erskine Brook via storm sewer	Downstream Confluences:	Wanaque Reservoir
Via :	Outfall pipe	Receiving River Basin:	Passaic
Classification:	FW2-TM(C1)	WMA:	03
Latitude:	41° 05' 31.5"	Watershed:	Wanaque River
Longitude:	74° 15' 52.6"	Subwatershed:	Wanaque Reservoir (below Monks gage)
County:	Passaic	HUC 14:	02030103070050
Municipality:	Ringwood Borough	Water Quality Impairments:	Dissolved Oxygen, Pathogens, Phosphorus, and Temperature
Outfall Description			
Outfall Configuration:	submerged pipe		
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.0 cfs	MA1CD10 (1Q10) summer:	N/A
MA7CD10 / 7Q10:	0.0 cfs	MA1CD10 (1Q10) winter:	N/A
75 th percentile flow:	0.3 cfs	MA30CD10 (30Q10) summer:	0.0 cfs
		MA30CD10 (30Q10) winter:	0.2 cfs

*Information from the Draft Permit Fact Sheet issued 11/24/2009.

3 Permit Summary Table and Permit Requirements (NJ0029432):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010*	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.001 0.009	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.0063 0.0063	0.24 0.36	0.24 0.36	1/Month	1/Month
CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	1.45 1.45	8 12	8 12	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	121.85 121.85	MR MR	MR MR	1/Month	1/Month
CBOD ₅ Min. % Removal	%	Monthly Avg.	98.76	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.013 0.013	0.91 1.4	0.91 1.4	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	3.1 3.1	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	309.33 309.33	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	98.79	85	85	1/Month	1/Month
Phosphorus (Total as P) (1)	kg/d	Monthly Avg. Weekly Avg.	0.0013 0.0013	MR MR	MR TMDL	1/Month	1/Quarter
Phosphorus (Total as P) (1)	mg/L	Monthly Avg. Weekly Avg.	0.53 0.53	1.0 MR	1.6 2.4 TMDL	1/Month	1/Quarter

NJ0029432 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010*	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	--	1/ Year
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	21 21	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	<1 <1	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Instant Min	9.46 --	6.0 --	-- 7.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<6.23 <6.8	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4 14.9 25.5	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	4 14.66 25	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	5.72 10.75	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.01 8.75	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer, May 1 to Oct.31	kg/d	Monthly Avg. Weekly Avg.	0.0017 0.0017	0.06 0.09	0.06 0.09	1/Month	1/Month
Ammonia (Total as N) DO based Summer, May 1 to Oct.31	mg/L	Monthly Avg. Weekly Avg.	0.44 0.44	2 3	2 3	1/Month	1/Month
Ammonia (Total as N) Toxicity based Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Daily Max.	0.002 0.002	MR 0.21	MR 0.21	1/Month	1/Month
Ammonia (Total as N) Toxicity based Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Daily Max.	0.43 0.43	MR 7.0	MR 7.0	1/Month	1/Month
Total Recoverable Copper (1 data point in set)	gr/d	Monthly Avg. Daily Max. #Det./#ND (1)	0.04 0.04 1/0	MR MR	MR MR	1/Year	1/Year
Total Recoverable Copper (1 data point in set)	µg/L	Monthly Avg. Daily Max. #Det./#ND (1)	8 8 1/0	MR MR	MR MR	1/Year	1/ Year
Total Recoverable Zinc (1 data point in set)	gr/d	Monthly Avg. Daily Max. #Det./#ND (1)	0.19 019 1/0	MR MR	MR MR	1/6 Months	1/ Year
Total Recoverable Zinc (1 data point in set)	µg/L	Monthly Avg. Daily Max. #Det./#ND (1)	38 38 1/0	MR MR	MR MR	1/6 Months	1/ Year
Chronic Toxicity, IC25 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	>100 (1)	MR	MR	1/Year	1/Year

Footnotes and Abbreviations:

MR Monitor and report only

* There is no discharge during the months of July and August. As a result, NODI was reported on the all July and August DMRs during 1/2008 -12/2010.

(1) One data point available from specified time frame.

North Warren Regional School District– NJ0031046

1 Receiving Water Information:

NJPDES Flow Value: 0.02 MGD

Treatment Units

1. Bar screen
2. Comminutor
3. Activated sludge with clarification
4. Sodium hypochlorite disinfection
5. Sulfur dioxide dechlorination
6. Post aeration

Sludge is stored in a holding tank before being managed at an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Paulins Kill	Receiving River Basin:	Delaware
Via :	Outfall pipe	WMA:	01
Classification:	FW2-TM	Watershed:	Upper Delaware
Latitude:	40° 58' 46.8"	Subwatershed:	Paulins Kill (below Blairstown gauge)
Longitude:	74° 59' 16.2"	HUC 14:	020401005050050
County:	Warren	Outfall Configuration:	non-submerged pipe
Municipality:	Blairstown Twp.	303d Impairments:	Temperature
Current Receiving Stream Design Low Flow Values *			
MA1CD10 / 1Q10:	13 cfs	MA1CD10 (1Q10) winter:	13 cfs
MA7CD10 / 7Q10:	18 cfs	MA30CD10 (30Q10):	22 cfs
75 th percentile flow:	72 cfs	MA30CD10 (30Q10) winter:	46 cfs

*Information from the Draft Permit Fact Sheet issued 9/7/2006.

3 Permit Summary Table and Permit Requirements (NJ0031046):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.005 0.04	MR MR	MR MR	Continuous	Continuous
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	kg/d	Monthly Avg. Weekly Avg.	0.08 0.08	1.89 3.03	1.89 3.03	1/ Month	1/ Month
5 Day Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	mg/L	Monthly Avg. Weekly Avg.	3.9 3.9	25 40	25 40	1/ Month	1/ Month
Influent CBOD ₅	kg/d	Monthly Avg. Weekly Avg.	4.5 4.5	MR MR	-- --	1/ Month	--
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	195 195	MR MR	MR MR	1/ Month	1/ Month

NJ0031046 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
CBOD ₅ Minimum Percent Removal	%	Monthly Avg.	95	85	85	1/ Month	1/ Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.08 0.08	2.28 3.41	2.28 3.41	1/ Month	1/ Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	3.47 3.47	30 45	30 45	1/ Month	1/ Month
Influent TSS	Kg/day	Monthly Avg. Weekly Avg.	6.5 6.5	MR MR	-- --	1/ Month	--
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	270.1 270.1	MR MR	MR MR	1/ Month	1/ Month
TSS Minimum Percent Removal	%	Monthly Avg.	98.1	85	85	1/ Month	1/ Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	-- --	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	-- --	MR MR	-- --	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	-- --	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	-- --	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	59.4 84.7	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	-- --	-- --	MR MR	--	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Weekly Avg. Daily Avg. Instant Min.	8.8 8.8 --	6.0 5.0 --	-- 6.0 5.0	1/ Month	1/ Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<0.5 <0.5	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	7.0 18.1 26	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.0 12.75 23	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	7.1 9.45	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.05 8.35	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N) DO based Summer - May 1 to Oct.31	kg/d	Monthly Avg. Daily Max.	0.12 0.12	1.38 2.01	1.38 2.01	1/ Month	1/ Month
Ammonia (Total as N) DO based Summer - May 1 to Oct. 31	mg/L	Monthly Avg. Daily Max.	0.003 0.003	18.2 26.6	18.2 26.6	1/ Month	1/ Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg.	0.002 0.002	MR MR	MR MR	1/ Month	1/ Month
Ammonia (Total as N) Winter - Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg.	0.11 0.11	20 MR	20 MR	1/ Month	1/ Month
Chlorine Produced Oxidants	Kg/day	Month Avg. Daily Max.	0.0007 0.002	0.008 0.02	0.008 --	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	0.03 0.08	0.1 0.25	0.1 --	1/Day	1/Day
Acute Toxicity, LC50 <i>Ceriodaphnia</i> (1)	% effluent	Minimum	>100 (1)	50	AL 50	1/5 Years	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

AL- Action Level

(1) One data point was available for the specified time frame. Also, based on the flow, the species has been changed to *Ceriodaphnia dubia*.

High Point Regional High School – NJ0031585

1 Facility Description:

The facility's permitted flow value is 0.03 million gallons per day (MGD).

Treatment Units:

1. Comminutor
2. Aeration Tank
3. Clarifiers (2) Primary & Secondary in succession
4. Tertiary Filters (2) in parallel
5. Clear Well (post aeration)
6. Ultraviolet Disinfection Chamber

Sludge Management: Sludge is held in a holding tank before being managed at an approved residuals management site.

2 Receiving Water Information:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Papakating Creek West Branch	Downstream Confluences:	Walkkill River
Via :	Outfall pipe	Receiving River Basin:	Walkkill River Basin
Classification:	FW2-NT (C2)	WMA:	02
Latitude:	41° 12' 12.3"	Watershed:	Papakating Creek
Longitude:	74° 38' 35.4"	Subwatershed:	Papakating Creek West Branch (below 74d39m30s side road)
County:	Sussex	HUC 14:	02020007020050
Municipality:	Wantage Township	Water Quality Impairments:	None
Outfall Description			
Outfall Configuration:	non-submerged pipe		
Current Receiving Stream Design Low Flow Values*			
MA1CD10 /1Q10:	0.2 cfs	MA1CD10 (1Q10)summer:	0.2 cfs
MA7CD10 / 7Q10:	0.3 cfs	MA1CD10 (1Q10)winter:	0.2 cfs
75 th percentile flow:	2.9 cfs	MA30CD10(30Q10)summer:	0.5 cfs
		MA30CD10(30Q10)winter:	2.0 cfs

*Information from the Draft Permit Fact Sheet issued 5/12/2011.

3 Permit Summary Table and Permit Requirements (NJ0031585):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.0045 0.0405	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg. #Det/#ND	0.11 0.11 13/23	1.7 1.7	1.7 1.7	1/Month	1/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg. #Det/#ND	4.48 4.48 13/23	15 15	15 15	1/Month	1/Month

NJ0031585 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	FINAL LIMITS	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	278.44 278.44	MR MR	MR MR	1/Month	1/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	98.91	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.127 0.127	3.4 5.1	3.4 5.1	1/Month	1/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	8.86 8.86	30 45	30 45	1/Month	1/Month
Influent Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	336.44 336.44	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	97.06	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	1/Year	1/Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	0.41 0.41	MR MR	MR MR	1/Year	1/Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg. #Det/#ND	0.127 0.127 30/6	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg. #Det/#ND	6.07 6.07 30/6	MR (1) MR (1)	MR MR	1/Month	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	45.94 45.94	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	-- --	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg. Min.	7.3 8.55	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	<5 <5	10 15	10 15	1/Month	1/ Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	10.1 19.3 29.8	MR MR MR	-- -- --	1/Day	--
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	2 14.2 24.6	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	7 9.21	MR MR	-- --	1/Day	--
Effluent pH	su	Instant. Min. Instant. Max.	6.64 8.55	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia Total (as N) Summer – May 1 to Oct. 31	kg/d	Monthly Avg. Weekly Avg.	0.19 0.19	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Summer – May 1 to Oct. 31	mg/L	Monthly Avg. Weekly Avg.	8.86 8.86	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	kg/d	Monthly Avg. Weekly Avg.	0.009 0.009	MR MR	MR MR	1/Month	1/Month
Ammonia Total (as N) Winter – Nov. 1 to April 30	mg/L	Monthly Avg. Weekly Avg.	2.86 2.86	MR MR	MR MR	1/Month	1/Month
Zinc, Total Recoverable (2)	g/day	Monthly Avg. Daily Max.	3.04 4.03	MR MR	MR MR	1/6 Months	1/ Year
Zinc, Total Recoverable (2)	µg/L	Monthly Avg. Daily Max.	137 156	MR MR	MR MR	1/6 Months	1/ Year
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	% effluent	Minimum	>100%	50	50 Action Level (1)	1/Year	1/Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The permittee's existing and effective acute WET limitation of LC50 \geq 50% has been replaced with an acute WET Action Level (AL) of LC50 \geq 50% in this permit renewal. The permittee shall maintain toxicity levels which meet the Action Level of LC50 \geq 50%.
- (2) The data point (770 µg/L) from July, 2009 was determined to be an outlier. Therefore, it was not included in the data set.

Camden County Vocational & Technical School - NJ0031615

1 Receiving Water Information:

NJPDES Flow Value: 0.058 MGD

Treatment Units

1. Comminutor
2. Flow equalization tank
3. Bar screen
4. Grit channel
5. Extended aeration tank
6. Secondary clarifier
7. Sand filtration
8. Chlorine tank
9. Dechlorination

Sludge Management: Sludge is aerobically digested before being managed at an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Sharps Branch	Downstream Confluences:	Great Egg Harbor River
Via :	Outfall pipe	Receiving River Basin:	Atlantic
Classification:	FW2-NT	WMA:	15
Latitude:	39° 46' 5.9"	Watershed:	Great Egg Harbor River (above Hospitality Br.)
Longitude:	74° 58' 11.5"	Subwatershed:	Great Egg Harbor River (above New Freedom Road)
County:	Camden	HUC 14:	02040302030010
Municipality:	Gloucester Township	Water Quality Impairments:	pH
Outfall Description			
Outfall Configuration: Concrete headwall/deck with submerged pipe 6 inch pipe			
Current Receiving Stream Design Low Flow Values			
MA1CD10 / 1Q10:	0.1 cfs	MA30CD10 (30Q10) summer:	0.3 cfs
MA7CD10 / 7Q10:	0.2 cfs	MA30CD10 (30Q10) winter:	0.6 cfs
75 th percentile flow:	0.7 cfs		

*Information from the Draft Permit Fact Sheet issued 12/25/2009.

3 Permit Summary Table and Permit Requirements (NJ0031615):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.018 0.064	MR MR	MR MR	MR MR	Continuous	Continuous
5 Day Biochemical Oxygen Demand (BOD ₅)	kg/d	Monthly Avg. Weekly Avg.	1.34 1.91	3.3 5	3.3 5	3.3 5	2/Month	2/Month
5 Day Biochemical Oxygen Demand (BOD ₅)	mg/L	Monthly Avg. Weekly Avg.	13 17	15 22.5	15 22.5	15 22.5	2/Month	2/Month
Influent BOD ₅	mg/L	Monthly Avg. Weekly Avg.	911 1,083	MR MR	MR MR	MR MR	2/Month	2/Month
BOD ₅ Min. % Removal	%	Monthly Avg.	94	85	85	85	2/Month	2/Month

NJ0031615 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/2008 – 12/2010	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	2.3 3.1	6.6 9.9	6.6 9.9	6.6 9.9	2/Month	2/Month
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	22 28	30 45	30 45	30 45	2/Month	2/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	3,471 4,213	MR MR	MR MR	MR MR	2/Month	2/Month
TSS Min. % Removal	%	Monthly Avg.	87	85	85	85	2/Month	2/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	MR MR	-- --	1/ Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	-- --	MR MR	MR MR	MR MR	1/5 Years	1/ Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	MR MR	-- --	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Weekly Avg.	-- --	-- --	MR MR	MR MR	-- --	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	157 185	200 400	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max.	<6.3 <10	MR MR	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Daily Avg. Weekly Avg. Instant Min	4.5 7.1 --	5.0 MR --	5.0 -- 4.0	5.0 -- 4.0	2/Month	2/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5 < 5	10 15	10 15	10 15	1/Quarter	1/Quarter
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	3.1 16 29	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	5.9 9.0	-- --	-- --	-- --	1/Day	1/Day
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.6	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), Summer, May 1 - Oct31	kg/d	Monthly Avg. Daily Max.	0.65 4.8	9.7 12.5	9.7 12.5	9.7 12.5	2/Month	2/Month
Ammonia (Total as N), Summer, May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max.	4.99 24	44 57	44 57	44 57	2/Month	2/Month
Ammonia (Total as N), Winter, Nov. 1 - April 30	kg/d	Monthly Avg. Daily Max.	0.91 2.8	11.9 15.6	11.9 15.6	11.9 15.6	2/Month	2/Month
Ammonia (Total as N), Winter, Nov. 1 - April 30	mg/L	Monthly Avg. Daily Max.	8.9 34	54 71	54 71	54 71	2/Month	2/Month
Chlorine Produced Oxidants	kg/d	Month Avg. Daily Max.	0.012 0.5	0.002 (2) 0.009 (2)	MR 0.022	MR 0.022	1/Day	1/Day
Chlorine Produced Oxidants	mg/L	Month Avg. Daily Max.	0.067 2.2	0.01 (2) 0.04 (2)	MR 0.1	MR 0.1	1/Day	1/Day
Copper, Total Recoverable	g/day	Monthly Avg. Daily Max.	0.0004 0.0004	MR MR	MR MR	MR MR	1/Quarter	1/Year
Copper, Total Recoverable	µg/L	Monthly Avg. Daily Max.	0.011 0.011	MR MR	MR MR	MR MR	1/Quarter	1/Year
Cyanide, Total Recoverable	µg/L	Monthly Avg. Daily Max.	<0.02 <0.02	MR MR	MR MR	MR MR	1/Quarter	1/Permit Cycle (WCR)
Chronic Toxicity, IC25 <i>Pimephales Promelas</i>	% effluent	Minimum	42	MR	MR	16	1/6 Months	1/6 Months

Footnotes and Abbreviations:

MR Monitor and report only

- (1) The “initial” phase limitations and monitoring conditions shall become effective from the effective date of this renewal permit (EDP) to EDP+3 years. The “final” phase limitations and monitoring conditions become effective EDP+3 years of this renewal permit.
- (2) The permittee shall comply with the enforceable quantification level of 0.1 mg/L as a monthly average and daily maximum concentration and 0.022 kg/d as a monthly average and daily maximum loading.

Alexandria Middle School- NJ0035670

1 Receiving Water Information:

NJPDES Flow Value: 0.0099 MGD

The permittee has requested a decrease in their permitted flow from 0.011 MGD to 0.0099 MGD. This has resulted in a decrease in all mass loadings.

Treatment Units

1. Comminutor
2. Aerated equalization tank
3. Extended aeration activated sludge tank
4. Clarifier
5. Rapid sand filter (steel tank)
6. Ultraviolet disinfection system

Sludge Management: Sludge is stored in holding tanks before being removed to an approved residuals management site.

2 Facility Description:

Outfall Designator: 001A

General Information		Watershed Information	
Receiving Water:	Nishisakawick Creek	Downstream Confluences:	Delaware River
Via :	Outfall pipe	Receiving River Basin:	Delaware River Basin
Classification:	FW2-NT (C1)	WMA :	11
Latitude:	40° 34' 23"	Watershed:	Hakihokake / Nishisakawick Ck
Longitude:	75° 00' 36.8"	Subwatershed:	Nishisakawick Creek (above 40d 33m)
County:	Hunterdon	HUC 14 :	02040105170040
Municipality:	Alexandria Township		
Outfall Description			
Outfall Configuration:	non-submerged pipe	Submerged Pipe Characteristics:	N/A
Current Receiving Stream Design Low Flow Values*			
MA1CD10 / 1Q10:	0.1 cfs	MA7CD10 (1Q10) winter:	0.3 cfs
MA7CD10 / 7Q10:	0.1 cfs	MA30CD10 (30Q10) summer:	0.2 cfs
75 th percentile flow:	0.6 cfs	MA30CD10 (30Q10) winter:	0.4 cfs

*Information from the Draft Permit Fact Sheet issued on 7/16/2009.

3 Permit Summary Table and Permit Requirements (NJ0035670):

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/08 – 12/10	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Flow	MGD	Monthly Avg. Daily Max.	0.01 0.02	MR MR	MR MR	MR MR	Continuous	Continuous
CBOD ₅	kg/d	Monthly Avg. Weekly Avg.	0.013 0.016	1.04 1.56	0.094 1.405	0.094 1.405	1/Month	1/Month
CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	3.43 4.56	25 37.5	25 37.5	25 37.5	1/Month	1/Month
Influent CBOD ₅	mg/L	Monthly Avg. Weekly Avg.	84.8 95.7	MR MR	MR MR	MR MR	1/Month	1/Month
CBOD ₅ Min. % Removal	%	Monthly Avg.	91.6	85	85	85	1/Month	1/Month
Total Suspended Solids (TSS)	kg/d	Monthly Avg. Weekly Avg.	0.04 0.05	1.25 1.87	1.12 1.70	1.12 1.70	1/Month	1/Month

NJ0035670 Continued

PARAMETER	UNITS	AVERAGING PERIOD	WASTEWATER DATA 1/08 – 12/10	EXISTING LIMITS	INITIAL LIMITS (1)	FINAL LIMITS (1)	EXISTING MONITORING FREQUENCY	FINAL MONITORING FREQUENCY
Total Suspended Solids (TSS)	mg/L	Monthly Avg. Weekly Avg.	10.1 12.7	30 45	30 45	30 45	1/Month	1/Month
Influent TSS	mg/L	Monthly Avg. Weekly Avg.	231.6 244	MR MR	MR MR	MR MR	1/Month	1/Month
TSS Min. % Removal	%	Monthly Avg.	93	85	85	85	1/Month	1/Month
Nitrate (Total as N)	kg/d	Monthly Avg. Daily Max.	-- --	-- --	MR MR	MR MR	--	1 / Year
Nitrate (Total as N)	mg/L	Monthly Avg. Daily Max.	20.7 55.9	MR MR	MR MR	MR MR	1 / Year	1 / Year
Phosphorus (Total as P)	kg/d	Monthly Avg. Daily Max.	0.01 0.01	MR(2) MR (2)	MR MR	MR MR	1/ 6 Months	1/Quarter
Phosphorus (Total as P)	mg/L	Monthly Avg. Daily Max.	5.4 5.7	MR(2) MR (2)	MR MR	MR MR	1/ 6 Months	1/Quarter
Fecal Coliform (geometric mean)	# per 100mL	Monthly Avg. Weekly Avg.	18.9 36	200 400	200 400	200 400	1/Month	1/Month
E. Coli (geometric mean)	# per 100mL	Monthly Avg. Instant Max	27.3 190	MR MR	MR MR	MR MR	5/Month in an Annual Period	5/Month in an Annual Period
Dissolved Oxygen (minimum)	mg/L	Instant Min. Daily Avg.	5.4 --	-- 4.0	4.0 5.0	4.0 5.0	1/Month	1/Month
Oil and Grease	mg/L	Monthly Avg. Instant Max.	< 5 < 5	10 15	10 15	10 15	1/Quarter	1/Quarter
Influent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.0 14.9 36.9	MR MR MR	-- -- --	-- -- --	1/Day	-- --
Effluent Temperature	°C	Instant. Min. Monthly Avg. Instant. Max.	1.0 14.8 33.8	MR MR MR	MR MR MR	MR MR MR	1/Day	1/Day
Influent pH	su	Instant. Min. Instant. Max.	5.8 8.9	MR MR	-- --	-- --	1/Day	-- --
Effluent pH	su	Instant. Min. Instant. Max.	6.0 8.9	6.0 9.0	6.0 9.0	6.0 9.0	1/Day	1/Day
Ammonia (Total as N), May 1 – Oct. 31	kg/d	Monthly Avg. Daily Max.	0.0008 0.004	MR 0.44	MR 0.39	MR 0.39	1/Month	1/Month
Ammonia (Total as N), May 1 – Oct. 31	mg/L	Monthly Avg. Daily Max.	0.40 0.78	MR 10.5	MR 10.5	MR 10.5	1/Month	1/Month
Ammonia (Total as N), Nov. 1 – Apr. 30	kg/d	Monthly Avg. Daily Max.	0.03 0.54	0.83 0.92	0.75 0.82	0.75 0.82	1/Month	1/Month
Ammonia (Total as N), Nov. 1 – Apr. 30	mg/L	Monthly Avg. Daily Max.	10.3 90.8	20 22	20 22	20 22	1/Month	1/Month
Copper: Total Recoverable	g/day	Monthly Avg. Daily Max.	0.22 0.89	MR (3) MR (3)	MR MR	MR 4 (3)	1/Month	1/Quarter
Copper: Total Recoverable	µg/L	Monthly Avg. Daily Max.	74.5 212	MR (3) MR (3)	MR MR	MR 96.2 (3)	1/Month	1/Quarter
Zinc: Total Recoverable	g/day	Monthly Avg. Daily Max.	0.62 1.60	MR (3) MR (3)	MR MR	MR MR (4)	1/Month	1/6 Months
Zinc: Total Recoverable	µg/L	Monthly Avg. Daily Max.	210 360	MR (3) MR (3)	MR MR	MR MR (4)	1/Month	1/6 Months
Acute Toxicity, LC50 <i>Ceriodaphnia dubia</i>	%	Minimum	>100	MR	MR	MR	1/ 6 Months	1/ Year
Acute Toxicity, LC50 <i>Pimephales promelas</i>	%	Minimum	>100	MR	MR	MR	1/ 6 Months	1/ Year

Footnotes and Abbreviations:

MR Monitor and report only

- (1) “Initial phase limitations and monitoring conditions are effective from the effective date of the permit (EDP) until EDP +3 years. The “final” phase limitations and monitoring conditions become effective on EDP+3 years.
- (2) Effluent limitations were stayed as the permittee passed a Total Phosphorus SVAP study, which showed that the TP criteria of 0.1 mg/L does not apply to the permittee’s discharge.
- (3) The existing permit incorporates copper limitations of 96.2 ug/L (4 grams/day) as a daily maximum and zinc limitations of 824 (34.3 grams/day) with an effective date of December 1, 2014. Analysis in the existing permit shows that these limits were based on 10 data points over a 5 year timeframe.
- (4) WQBEL analysis using recent data shows no cause to violate water quality. Because zinc limitations were never effective these limits are being removed in lieu of continued monitoring.



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0193381

Final: Surface Water Master General Permit New

Permittee:

NJPDES Master General Permit Program Interest
 Category ASC
 Per Individual Notice of Authorization
 Division of Water Quality
 401-02B; P.O. Box 420
 401 East State Street
 Trenton, NJ 08625

Property Owner:

NJPDES Master General Permit Program Interest
 Category ASC
 Per Individual Notice of Authorization
 Division of Water Quality
 401-02B; P.O. Box 420
 401 East State Street
 Trenton, NJ 08625

Location Of Activity:

NJPDES Master General Permit Program Interest
 Category ASC
 Per Individual Notice of Authorization
 Division of Water Quality
 401-02B; P.O. Box 420
 401 East State Street
 Trenton, NJ 08625

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
ASC - Consolidated DSW Renewal School (GP)	12/20/2011	01/01/2012	12/31/2016

**By Authority of:
 Commissioner's Office**

**DEP AUTHORIZATION
 Pilar Patterson, Chief
 Bureau of Surface Water Permitting
 Water Pollution Management Element
 Division of Water Quality**

(Terms, conditions and provisions attached hereto)

Division of Water Quality

PART I GENERAL REQUIREMENTS: NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

- a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.
- b. General Conditions
- | | |
|---|-------------------------------------|
| Penalties for Violations | N.J.A.C. 7:14A-8.1 <u>et seq.</u> |
| Incorporation by Reference | N.J.A.C. 7:14A-2.3 |
| Toxic Pollutants | N.J.A.C. 7:14A-6.2(a)4i |
| Duty to Comply | N.J.A.C. 7:14A-6.2(a)1 & 4 |
| Duty to Mitigate | N.J.A.C. 7:14A-6.2(a)5 & 11 |
| Inspection and Entry | N.J.A.C. 7:14A-2.11(e) |
| Enforcement Action | N.J.A.C. 7:14A-2.9 |
| Duty to Reapply | N.J.A.C. 7:14A-4.2(e)3 |
| Signatory Requirements for Applications and Reports | N.J.A.C. 7:14A-4.9 |
| Effect of Permit/Other Laws | N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c) |
| Severability | N.J.A.C. 7:14A-2.2 |
| Administrative Continuation of Permits | N.J.A.C. 7:14A-2.8 |
| Permit Actions | N.J.A.C. 7:14A-2.7(c) |
| Reopener Clause | N.J.A.C. 7:14A-6.2(a)10 |
| Permit Duration and Renewal | N.J.A.C. 7:14A-2.7(a) & (b) |
| Consolidation of Permit Process | N.J.A.C. 7:14A-15.5 |
| Confidentiality | N.J.A.C. 7:14A-18.2 & 2.11(g) |
| Fee Schedule | N.J.A.C. 7:14A-3.1 |
| Treatment Works Approval | N.J.A.C. 7:14A-22 & 23 |
- c. Operation And Maintenance
- | | |
|--------------------------------------|-----------------------|
| Need to Halt or Reduce not a Defense | N.J.A.C. 7:14A-2.9(b) |
| Proper Operation and Maintenance | N.J.A.C. 7:14A-6.12 |
- d. Monitoring And Records
- | | |
|---|--------------------|
| Monitoring | N.J.A.C. 7:14A-6.5 |
| Recordkeeping | N.J.A.C. 7:14A-6.6 |
| Signatory Requirements for Monitoring Reports | N.J.A.C. 7:14A-6.9 |
- e. Reporting Requirements
- | | |
|---|---------------------------------------|
| Planned Changes | N.J.A.C. 7:14A-6.7 |
| Reporting of Monitoring Results | N.J.A.C. 7:14A-6.8 |
| Noncompliance Reporting | N.J.A.C. 7:14A-6.10 & 6.8(h) |
| Hotline/Two Hour & Twenty-four Hour Reporting | N.J.A.C. 7:14A-6.10(c) & (d) |
| Written Reporting | N.J.A.C. 7:14A-6.10(e) & (f) & 6.8(h) |
| Duty to Provide Information | N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1 |
| Schedules of Compliance | N.J.A.C. 7:14A-6.4 |
| Transfer | N.J.A.C. 7:14A-6.2(a)8 & 16.2 |

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Requirements for Discharges to Surface Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
 - i. Surface Water Quality Standards N.J.A.C. 7:9B-1
 - ii. Water Quality Management Planning Regulations N.J.A.C. 7:15

B. General Conditions

1. Scope

- a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the expiration date.

3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

4. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

5. Access to Information

- a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access/copy any records that must be kept under the conditions of this permit.

6. Operator Certification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 and any amendments. The name of the proposed operator, where required shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.
 - i. Notifications shall be submitted to:
NJDEP
Examinations and Licensing Unit
Mail Code 401-04E
P.O. Box 420
Trenton, New Jersey 08625-0420
(609) 777-1013
- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

8. Residuals Management

- a. The permittee shall comply with land-based sludge management criteria and shall conform with the requirements for the management of residuals and grit and screenings under N.J.A.C. 7:14A-6.15(a), which includes:
 - i. Standards for the Use or Disposal of Residual, N.J.A.C. 7:14A-20;
 - ii. Section 405 of the Federal Act governing the disposal of sludge from treatment works treating domestic sewage;
 - iii. The Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the Solid Waste Management Rules, N.J.A.C. 7:26;
 - iv. The Sludge Quality Assurance Regulations, N.J.A.C. 7:14C;
 - v. The Statewide Sludge Management Plan promulgated pursuant to the Water Quality Planning Act, N.J.S.A. 58:11A-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.; and
 - vi. The provisions concerning disposal of sewage sludge and septage in sanitary landfills set forth at N.J.S.A. 13:1E-42 and the Statewide Sludge Management Plan.
 - vii. Residual that is disposed in a municipal solid waste landfill unit shall meet the requirements in 40 CFR Part 258 and/or N.J.A.C. 7:26 concerning the quality of residual disposed in a municipal solid waste landfill unit. (That is, passes the Toxicity Characteristic Leaching Procedure and does not contain "free liquids" as defined at N.J.A.C. 7:14A-1.2.)
- b. If any applicable standard for residual use or disposal is promulgated under section 405(d) of the Federal Act and Sections 4 and 6 of the State Act and that standard is more stringent than any limitation on the pollutant or practice in the permit, the Department may modify or revoke and reissue the permit to conform to the standard for residual use or disposal.

- c. The permittee shall make provisions for storage, or some other approved alternative management strategy, for anticipated downtimes at a primary residual management alternative. The permittee shall not be permitted to store residual beyond the capacity of the structural treatment and storage components of the treatment works. N.J.A.C. 7:14A-20.8(a) and N.J.A.C. 7:26 provide for the temporary storage of residuals for periods not exceeding six months, provided such storage does not cause pollutants to enter surface or ground waters of the State. The storage of residual for more than six months is not authorized under this permit. However, this prohibition does not apply to residual that remains on the land for longer than six months when the person who prepares the residual demonstrates that the land on which the residual remains is not a surface disposal site or landfill. The demonstration shall explain why residual must remain on the land for longer than six months prior to final use or disposal, discuss the approximate time period during which the residual shall be used or disposed and provide documentation of ultimate residual management arrangements. Said demonstration shall be in writing, be kept on file by the person who prepares residual, and submitted to the Department upon request.
- d. The permittee shall comply with the appropriate adopted District Solid Waste or Sludge Management Plan (which by definition in N.J.A.C. 7:14A-1.2 includes Generator Sludge Management Plans), unless otherwise specifically exempted by the Department.
- e. The preparer must notify and provide information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements to the person who applies bulk residual to the land. This shall include, but not be limited to, the applicable recordkeeping requirements and certification statements of 40 CFR 503.17 as referenced at N.J.A.C. 7:14A-20.7(j).
- f. The preparer who provides biosolids to another person who further prepares the biosolids for application to the land must provide this person with notification and information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements.
- g. Any person who prepares bulk residual in New Jersey that is applied to land in a State other than New Jersey shall comply with the requirement at N.J.A.C. 7:14A-20.7(b)1.ix to provide written notice to the Department and to the permitting authority for the State in which the bulk residual is proposed to be applied.

PART III

LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION:

ASCA Sanitary Outfall

RECEIVING STREAM:

On Individual Authorization

STREAM CLASSIFICATION:

DISCHARGE CATEGORY(IES):

ASC - Consolidated DSW Renewal
School (GP)

Location Description

Individual authorization will reference latitude and longitude of discharge location.

Contributing Waste Types

Sanitary

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: within twenty-five days after the end of every month beginning from the effective date of the permit (EDP). Copper, zinc and other toxic parameter effluent limitations and/or monitor requirements have been imposed based on site-specific factors. Unless specified otherwise, all limits have been retained from the existing permit pursuant to N.J.A.C. 7:14A-13.19. Please refer to the individual authorization for more information.

Comments:

Effluent limitations and monitoring requirements are contained on the Permit Summary Tables and Part III of the individual authorizations.

A compliance schedule to meet effluent limitations may be included for certain parameters. Please refer to the individual authorization for more information.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final

PHASE Start Date: 01/01/2012

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Flow, Total	Effluent Gross Value	*****	REPORT Daily Average	MGD	*****	*****	*****	*****	1/Month	Metered
January thru December	QL	***	***		***	***	***			

Surface Water WCR - Annual Reporting Requirements:

Submit an Annual WCR: within twenty-five days after the end of every 12 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Annual monitor and report requirements shall be included for copper and zinc for specific facilities. Bromodichloromethane, bromoform, and chloroform shall be sampled on an annual basis for facilities that chlorinate. See Part III of the individual authorizations for specific sampling requirements.

Table III - A - 2: Surface Water WCR - Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Copper, Total (as Cu)	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Zinc, Total Recoverable	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Cyanide, Total (as CN)	Effluent Gross Value	REPORT RQL = 40	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Selenium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Thallium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Beryllium, Total Recoverable (as Be)	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Barium, Total Recoverable (as Ba)	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Nickel, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Silver, Total Recoverable	Effluent Gross Value	REPORT RQL = 2	UG/L	Grab	January thru December
Cadmium, Total Recoverable	Effluent Gross Value	REPORT RQL = 4	UG/L	Grab	January thru December
Lead, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Chromium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Antimony, Total Recoverable	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Mercury Total Recoverable	Effluent Gross Value	REPORT RQL = 1	UG/L	Grab	January thru December
Acenaphthylene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Acenaphthene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
Anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Benzo(b)fluoranthene (3,4-benzo)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(k)fluoranthene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(a)pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Bis(2-chloroethyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Bis(2-chloroethoxy) methane	Effluent Gross Value	REPORT RQL = 26.5	UG/L	Grab	January thru December
Bis (2-chloroiso- propyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Butyl benzyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Chrysene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Diethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Dimethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Diphenyl- hydrazine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Fluoranthene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Fluorene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Hexachlorocyclo- pentadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Hexachloroethane	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Indeno(1,2,3-cd)-pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Isophorone	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
N-nitrosodi-n-propylamine	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
N-nitrosodiphenyl-amine	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
N-nitrosodimethyl-amine	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Nitrobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Phenanthrene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(ghi)perylene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(a)anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
1,2,4-Trichloro-benzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Dibenzo(a,h)anthracene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
1,3-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
1,4-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2-Chloronaphthalene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
2,6-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
3,3'-Dichloro-benzidine	Effluent Gross Value	REPORT RQL = 60	UG/L	Grab	January thru December
4-Bromophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
Naphthalene	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Di-n-butyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzidine	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Hexachlorobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro-benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodiethyl-amine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT RQL = 3	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Toluene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Benzene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Chlorobenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Chlorodibromomethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Ethylbenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Methyl Bromide	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Methyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Methylene Chloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements**PHASE:** Final**PHASE Start Date:** 01/01/2012**PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Tetrachloroethylene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Trichlorofluoro- methane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,1-Dichloroethane	Effluent Gross Value	REPORT RQL = 23.5	UG/L	Grab	January thru December
1,1-Dichloroethylene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,1-Trichloro- ethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,2-Trichloro- ethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,2,2-Tetrachloro- ethane	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Dichloropropane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,2-trans-Dichloro- ethylene	Effluent Gross Value	REPORT RQL = 4	UG/L	Grab	January thru December
2-Chloroethyl Vinyl Ether (Mixed)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Vinyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Trichloroethylene	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
N-Nitrosodi- n-butylamine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Asbestos	Effluent Gross Value	REPORT	FIBERS/L	Grab	January thru December
Parachloro-m-cresol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Phenols	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4,5-Trichloro-phenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
2-Nitrophenol	Effluent Gross Value	REPORT RQL = 18	UG/L	Grab	January thru December
2,4-Dichlorophenol	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
2,4-Dimethylphenol	Effluent Gross Value	REPORT RQL = 13.5	UG/L	Grab	January thru December
2,4-Dinitrophenol	Effluent Gross Value	REPORT RQL = 40	UG/L	Grab	January thru December
2,4,6-Trichloro-phenol	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
4-Chlorophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 21	UG/L	Grab	January thru December
4-Nitrophenol	Effluent Gross Value	REPORT RQL = 12	UG/L	Grab	January thru December
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT RQL = 60	UG/L	Grab	January thru December
Phenol Single Compound	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within 25 days after the end of the six month monitoring period beginning EDP + 4 years.

Comments:

All parameters on this semi-annual WCR shall be monitored and reported once per permit cycle, with the exception of copper and zinc. The test shall be conducted EDP + 48 months (4 years) and EDP + 54 months (4.5 years). Monitor and report requirements will be contained in the individual authorizations.

Table III - A - 3: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:** 06/30/2016

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Pentachlorophenol	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

MONITORED LOCATION:
SL1A SQAR - Example Location

DISCHARGE CATEGORY(IES):
ASC - Consolidated DSW Renewal
School (GP)

Location Description

The sludge sampling location will be determined on a case-by-case basis by the application (Form R). Domestic Treatment Works (DTW) with a permitted flow less than 0.1 MGD, but greater than 0.02 MGD will be required to perform an Annual Residuals Discharge Monitoring Report (RDMR), an Annual Residuals Waste Characterization Report (RWCR), and an Annual Residuals Transfer Report (RTR) in accordance with the Sludge Quality Assurance Regulations. DTWs with a permitted flow of less than or equal to 0.02 MGD, will no longer be required to perform analyses (i.e., no longer required to submit a RDMR or a RWCR) provided that their sludge is removed to, and subsequently monitored as part of the sludge at an off-site in-State treatment works treating domestic sewage. These generators will still be required to track how much sludge is removed and the management site that is used (i.e., submit an Annual RTR).

Contributing Waste Types

Dom Residual-Other

Residuals DMR Reporting Requirements:

Submit an Annual DMR: due 60 calendar days after the end of each calendar year.

Table III - B - 1: Residuals DMR Limits and Monitoring Requirements

PHASE: Final

PHASE Start Date: 01/01/2012

PHASE End Date:

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Solids, Total January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	%TS	1/Year	Composite
	QL	***	***		***	***	***			
Nitrate Nitrogen, Dry Weight January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	QL	***	***		***	***	***			
Nitrogen, Kjeldahl Total, Dry Wt January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	QL	***	***		***	***	***			

Residuals DMR Reporting Requirements:

Submit an Annual DMR: due 60 calendar days after the end of each calendar year.

Table III - B - 1: Residuals DMR Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Potassium Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Nitrogen, Ammonia Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Calcium Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Molybdenum Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Phosphorus Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Arsenic, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Selenium, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			

Residuals DMR Reporting Requirements:

Submit an Annual DMR: due 60 calendar days after the end of each calendar year.

Table III - B - 1: Residuals DMR Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Copper, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Beryllium Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Cadmium, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Zinc, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Lead, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Nickel, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			
Mercury, Dry Weight	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	January thru December	QL	***		***	***	***			

Residuals DMR Reporting Requirements:

Submit an Annual DMR: due 60 calendar days after the end of each calendar year.

Table III - B - 1: Residuals DMR Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Limit	Limit	Units	Limit	Limit	Limit	Units	Frequency	Sample Type
Chromium, Dry Weight January thru December	Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/Year	Composite
	QL	***	***		***	***	***			

Residuals WCR - Annual Reporting Requirements:

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

Table III - B - 3: Residuals WCR - Annual Limits and Monitoring Requirements

PHASE:Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Amt Sludge Rmvd, Gallons	Residuals	REPORT	GAL/YEAR	Calculated	January thru December
Total Amount of Sludge Removed	Residuals	REPORT	DMT/YR	Calculated	January thru December

Residuals WCR - Annual Reporting Requirements:

Submit an Annual WCR: due 60 calendar days after the end of each calendar year.

Table III - B - 3: Residuals WCR - Annual Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 01/01/2012 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Solids, Total	Residuals	REPORT	%TS	Composite	January thru December

Residuals Transfer Reporting Requirements:

Submit an Annual RTR: due 60 calendar days after the end of each calendar year.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Consolidated DSW Renewal School (GP)

A. MONITORING REQUIREMENTS

1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136 unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. The permittee shall utilize analytical methods that will ensure compliance with the Quantification Levels (QLs) listed in PART III. If the permittee and/or contract laboratory determines that the QLs achieved for any pollutant(s) generally will not be as sensitive as the QLs specified in PART III, the permittee must submit a justification of such to the Bureau of Surface Water Permitting. For limited parameters with no QL specified, the sample analysis shall use a detection level at least as sensitive as the effluent limit.
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual, or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. Any additional samples taken consistent with the monitoring and reporting requirements contained herein shall be reported with the Monitoring Report Forms.
- g. If annual and semi-annual wastewater testing is specified, it shall be conducted in a different quarter of each year so that tests are conducted in each of the four permit quarters of the permit cycle. Testing may be conducted during any month of the permit quarters.
- h. The permittee shall perform all residual analyses in accordance with the analytical test procedures specified in 40 CFR 503.8 and the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C) unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- i. Flow shall be measured using a meter unless specified otherwise in the individual authorization.

B. RECORDKEEPING

1. Standard Recordkeeping Requirements

- a. The permittee shall retain records of all monitoring information, including 1) all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation (if applicable), 2) copies of all reports required by this NJPDES permit, 3) all data used to complete the application for a NJPDES permit, and 4) monitoring information required by the permit related to the permittee's residual use and/or disposal practices, for a period of at least 5 years, or longer as required by N.J.A.C. 7:14A-20, from the date of the sample, measurement, report, application or record.
- b. Records of monitoring information shall include 1) the date, locations, and time of sampling or measurements, 2) the individual(s) who performed the sampling or measurements, 3) the date(s) the analyses were performed, 4) the individual(s) who performed the analyses, 5) the analytical techniques or methods used, and 6) the results of such analyses.

2. E. Coli Monitoring Requirements

- a. The samples for E. Coli shall be collected at a minimum frequency of five (5) times in any chosen month during the annual monitoring period starting from the effective date of the permit (EDP). For other months during the monitoring period when sampling is not required, the permittee shall report Code=N. For each month that E. Coli is sampled, the permittee shall collect split sample analyses with Fecal Coliform. The split sample analyses shall be conducted, at a minimum, at the same sampling frequency required for Fecal Coliform during that month.

C. REPORTING

1. Standard Reporting Requirements

- a. The permittee shall submit all required monitoring results to the Department on the forms provided to them. The Monitoring Report Forms (MRFs) may be provided to the permittee in either a paper format or in an electronic file format. Unless otherwise noted, all requirements below pertain to both paper and electronic formats.
- b. Any MRFs in paper format shall be submitted to the following addresses:
 - i. NJDEP
Mail Code 401-02B
Division of Water Quality
Office of Permit Management
P.O. Box 420
Trenton, New Jersey 08625-0420
 - ii. (if requested by the Northern Water Compliance and Enforcement Bureau)
NJDEP: Northern Bureau of Water Compliance and Enforcement
7 Ridgedale Avenue
Cedar Knolls, New Jersey 07927-1112
(Counties of Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex and Warren)
 - iii. (if requested by the Central Water Compliance and Enforcement Bureau)
NJDEP: Central Bureau of Water Compliance and Enforcement
Mail Code 44-03
4 Station Plaza
P.O. Box 420
Trenton, New Jersey 08625-0420
(Counties of Mercer, Middlesex, Monmouth, Ocean and Union)

- iv. (if requested by the Southern Water Compliance and Enforcement Bureau)
NJDEP: Southern Bureau of Water Compliance and Enforcement
2 Riverside Drive, Suite 201
Camden, New Jersey 08103
(Counties of Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem)
- c. Any electronic data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee. Paper copies must be available for on-site inspection by DEP personnel or provided to the DEP upon written request.
- d. All monitoring report forms shall be certified by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility.
- e. The highest ranking official may delegate responsibility to certify the monitoring report forms in his or her absence. Authorizations for other individuals to sign shall be made in accordance with N.J.A.C. 7:14A-4.9(b).
- f. Monitoring results shall be submitted in accordance with the current Discharge Monitoring Report Manual and any updates thereof.
- g. If monitoring for a parameter is not required in a monitoring period, the permittee must report "CODE=N" for that parameter.
- h. For intermittent discharges, the permittee shall obtain a sample during at least one of the discharge events occurring during a monitoring period.
- i. If there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results. This is accomplished by placing a check mark in the "No Discharge this monitoring period" box on the paper or electronic version of the monitoring report submittal form.
- j. If the permittee does not anticipate discharge events for one year or more and does not want to receive monitoring report forms (MRFs), please contact the Bureau of Surface Water Permitting at (609) 292-4860 to temporarily cease MRF generation. In the event that a discharge is expected to occur, notify the Bureau of Surface Water Permitting as far in advance as possible to resume MRF generation.

D. SUBMITTALS

1. Standard Submittal Requirements

- a. The permittee shall amend the Operation & Maintenance Manual whenever there is a change in the treatment works design, construction, operations or maintenance which substantially changes the treatment works operations and maintenance procedures.

2. Compliance Schedule Progress Reports

- a. In accordance with N.J.A.C. 7:14A-6.4(a), a schedule of compliance may be included for certain parameters if specified in the Comments section of Part III. As a condition of any compliance schedule, there are interim deadlines for annual progress reports that outline the progress towards compliance with the conditions of the permit.
 - i. Submit a Compliance Schedule Progress Report: within 12 months from the effective date of the permit (EDP).

- ii. Submit a Compliance Schedule Progress Report: within 24 months from the effective date of the permit (EDP).
- b. The compliance schedule progress reports shall be submitted to the following Departmental entities:
 - i. NJDEP
 Mail Code 401-02B
 Division of Water Quality
 Bureau of Surface Water Permitting
 P.O. Box 420
 Trenton, New Jersey 08625-0420
 - ii. The appropriate Bureau of Water Compliance and Enforcement, as listed above in Section C.1.b.

3. E. Coli and Fecal Coliform Split Sample Report

- a. The permittee shall submit to the Department both hard copy and electronic versions of the summary report containing E. Coli and Fecal Coliform split sample data including the dates the samples were taken, along with the renewal application forms. The data submitted in the electronic versions shall be provided in a spreadsheet format (i.e. Microsoft Excel, Microsoft Access, etc.) and submitted on a CD-ROM.

E. FACILITY MANAGEMENT

1. Discharge Requirements

- a. The permittee shall discharge at the location(s) specified in PART III of the individual authorization.
- b. The permittee shall not discharge foam or cause foaming of the receiving water that: 1) Forms objectionable deposits on the receiving water, 2) Forms floating masses producing a nuisance, or 3) Interferes with a designated use of the waterbody.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen.
- e. When quantification levels (QL) and effluent limits are both specified for a given parameter in Part III, and the QL is less stringent than the effluent limit, effluent compliance will be determined by comparing the reported value against the QL.
- f. When an average of three (3) consecutive rolling monthly average values of the committed flow (actual flow and approved allocated flow) reaches or exceeds 80% of the permitted capacity the permittee shall:
 - i. Develop a Capacity Assurance Program (CAP) in accordance with N.J.A.C. 7:14A-22.16
 - ii. For more information concerning the CAP, please contact the Bureau of Construction Management and TWA/CSO Permitting at (609) 984-4429.
 - iii. Contact the Division of Watershed Management to discuss whether an amendment to the Water Quality Management Plan (WQMP) or Wastewater Management Plan (WMP) will be necessary.

2. Applicability of Discharge Limitations and Effective Dates

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements

- i. (If a three year compliance schedule is included for the individual authorization- Part III) This permit includes multiple phases for "initial" and "final." The "initial" phase limits are effective from the effective date of the permit (EDP) to EDP + 36 months. The "final" limits will become effective beginning EDP + 36 months.
 - ii. (If no compliance schedule is included for the individual authorization) The final limits in Part III of the individual authorization will become effective on EDP.
- b. Wastewater Characterization Report (WCR) Form Requirements
- i. The final effluent monitoring conditions in Part III of the individual authorization apply for the full term of this permit action.

3. Operation, Maintenance and Emergency Conditions

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit as specified in the Operation and Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with N.J.A.C. 7:14A-6.12(d).

4. Acute Toxicity Testing Requirements (applicable only if an acute toxicity requirement is specified in Part III)

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Acute toxicity tests shall be conducted using the test species and method identified in Part III of the individual authorization.
- c. Part III of the individual authorization may contain an effluent limitation or Action Level (AL) for acute Whole Effluent Toxicity. Toxicity Reduction and Implementation Requirements may be triggered based on exceedences of this limitation. See the Toxicity Reduction and Implementation Requirements section below for more details.
- d. Any test that does not meet the specifications of N.J.A.C. 7:18, laboratory certification regulations, must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- e. LC50 - Lethal Concentration - Concentration of effluent that is lethal to 50% of the test organisms, as compared to the control.
- f. NOAEC (No Observable Adverse Effect Concentration): The lowest concentration of effluent where survival in the test group is not significantly different from the control. This is always set at 100% effluent.
- g. The permittee shall submit an Acute Methodology Questionnaire within 60 days of commencement of discharge or of any change in laboratory.
- h. Submit an acute whole effluent toxicity test report along with your Discharge Monitoring Reports within twenty-five days after the end of every month during which an acute whole effluent toxicity test was performed. These toxicity tests shall be performed according to the frequency specified in the individual General Permit Authorization. The permittee shall submit toxicity test results on the appropriate forms.

- i. Test reports shall be submitted to:
NJDEP
Mail Code 401-02B
Bureau of Surface Water Permitting
P.O. Box 420
Trenton, New Jersey 08625-0420

5. Chronic Toxicity Testing Requirements (applicable only if a chronic toxicity requirement is specified in Part III)

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Chronic toxicity tests shall be conducted using the test species and method identified in Part III of this permit.
- c. Any test that does not meet the specifications contained in the Department's "Chronic Toxicity Testing Specifications for Use in the NJPDES Program" document must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- d. The permittee shall collect and analyze the concentration of ammonia-N in the effluent on the day a sample is collected for WET testing. This result is to be reported on the Biomonitoring Report Form.
- e. IC25 - Inhibition Concentration - Concentration of effluent which has an inhibitory effect on 25% of the test organisms for the monitored effect, as compared to the control (expressed as percent effluent).
- f. Test results shall be expressed as the IC25 for each test endpoint. Where a chronic toxicity testing endpoint yields IC25's from more than one test endpoint, the most sensitive endpoint will be used to evaluate effluent toxicity.
- g. The permittee shall submit a Chronic Methodology Questionnaire within 60 days of commencement of discharge or of any change in laboratory.
- h. Submit a chronic whole effluent toxicity test report along with your Discharge Monitoring Reports within twenty-five days after the end of every month during which a chronic whole effluent toxicity test was performed. These toxicity tests shall be performed according to the frequency specified in the individual General Permit Authorization. The permittee shall submit toxicity test results on appropriate forms.
- i. Test reports shall be submitted to:
NJDEP
Mail Code 401-02B
Bureau of Surface Water Permitting
P.O. Box 420
Trenton, New Jersey 08625-0420

6. Toxicity Reduction Implementation Requirements (TRIR) (applicable only if a whole effluent toxicity limit is specified in Part III)

- a. The permittee shall initiate a tiered toxicity investigation if two out of six consecutive WET tests demonstrate that the effluent does not comply or will not comply with the toxicity limit or action level specified in Part III of the individual authorization.

- i. If the exceedence of the toxicity limit or action level is directly caused by a documented facility upset, or other unusual event which has been identified and appropriately remedied by the permittee, the toxicity test data collected during the event may be eliminated when determining the need for initiating a TRIR upon written Department approval.
- b. The permittee shall begin toxicity characterization within 30 days of the end of the monitoring period when the second toxicity test exceeds the toxicity limits or action level in Part III. The monitoring frequency for toxicity testing shall be increased to semi-monthly (i.e. every two months). Up to 12 additional tests may be required.
 - i. The permittee may return to the toxicity testing frequency specified in Part III if four consecutive toxicity tests conducted during the Toxicity Characterization do not exceed the toxicity limit or action level.
 - ii. If two out of any six consecutive, acceptable tests again exceed the toxicity limit or action level in Part III, the permittee shall repeat Toxicity Reduction Implementation Requirements.
- c. The permittee shall initiate a preliminary toxicity identification (PTI) upon the fourth exceedence of the toxicity limit or action level specified in Part III during toxicity characterization.
 - i. The permittee may return to the monitoring frequency specified in PART III while conducting the PTI. If more frequent WET testing is performed during the PTI, the permittee shall submit all biomonitoring reports to the DEP and report the results for the most sensitive species on the DMR.
 - ii. As appropriate, the PTI shall include:
 - (1) treatment plant performance evaluation,
 - (2) evaluation of chemical use and processes at the facility, and
 - (3) an evaluation of incidental facility procedures and chemical spill disposal which may contribute to effluent toxicity.
 - iii. The permittee shall submit a Preliminary Toxicity Identification Notification within 15 months of triggering TRIR. This notification shall include a determination that the permittee intends to demonstrate compliance OR plans to initiate a CTI.
- d. The permittee must demonstrate compliance with the WET limitation or action level in four consecutive WET tests to satisfy the requirements of the Toxicity Reduction Investigation Requirements. After successful completion, the permittee may return to the WET monitoring frequency specified in PART III.
- e. The permittee shall initiate a Comprehensive Toxicity Investigation (CTI) if the PTI does not identify the cause of toxicity and a demonstration of consistent compliance with the toxicity limit or action level in Part III can not be made.
 - i. The permittee shall develop a project study plan identifying the party or parties responsible for conducting the comprehensive evaluation, establish a schedule for completing the study, and a description of the technical approach to be utilized.
 - ii. If the permittee determines that the PTI has failed to demonstrate consistent compliance with the toxicity limit or action level in Part III, a Comprehensive Toxicity Investigation Workplan must be prepared and submitted within 90 days.
 - iii. The permittee shall summarize the data collected and the actions taken in CTI Quarterly Reports. The reports shall be submitted within 30 calendar days after the end of each quarter.

- iv. The permittee shall submit a Final CTI Report 90 calendar days after the last quarterly report. The final CTI report shall include the corrective actions identified to reduce toxicity and a schedule for implementing these corrective actions.
- f. Upon receipt of written approval from the Department of the corrective action schedule, the permittee shall implement those corrective actions consistent with that schedule.
 - i. The permittee shall satisfy the requirements of the Toxicity Reduction Implementation Requirements and return to the original toxicity monitoring frequency after corrective actions are implemented and the permittee demonstrates consistent compliance with the toxicity limit or action level in Part III in four consecutive toxicity tests.
 - ii. If the implemented corrective measures do not result in consistent compliance with the toxicity limit or action level in Part III, the permittee shall submit a plan for resuming the CTI.

F. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

- 1. **There are no pretreatment program requirements for this facility.**

G. CONDITIONS FOR MODIFICATION

1. Notification Requirements

- a. For new discharges, the permittee shall notify the Department that a tag to mark the location of the outfall pipe has been installed consistent with N.J.A.C. 7:14A-6.2(a)9.

2. Causes for modification

- a. The Department may modify or revoke and reissue any permit to incorporate 1) any applicable effluent standard or any effluent limitation, including any effluent standards or effluent limitations to control the discharge of toxic pollutants or pollutant parameters such as acute or chronic whole effluent toxicity and chemical specific toxic parameters, 2) toxicity reduction requirements, or 3) the implementation of a TMDL or watershed management plan adopted in accordance with N.J.A.C. 7:15-7.
- b. The Department may modify individual authorizations under this permit through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1 to reduce the WET monitoring sample frequency. The criteria for such reduction is a minimum of 4 consecutive data points with a result of >100. The Department may also consider site-specific characteristics such as discharge volume, location and wastewater constituents.
- c. The Department may modify individual authorizations under this permit through a minor modification in accordance with N.J.A.C. 7:14A-16.5(a)1 to reduce toxics monitoring frequencies.
- d. For discharges where a new chronic whole effluent toxicity limit is imposed: The Department may issue a minor modification further deferring the effective date of the chronic whole effluent toxicity limitation if a facility is implementing the Toxicity Reduction Implementation Requirements (TRIR) in Part IV of this permit.

3. Removal or Modification of Final WQBELs or Criteria End-of-Pipe Effluent Limitations for Chemical Specific Toxic Pollutants

- a. The Department will consider proposing to remove or modify a toxic pollutant's newly imposed final effluent limitation from the permit if any or all of the information in item "b" below is submitted for Departmental review and consideration.
- b. Items that will be considered include, but are not limited to:

- i. Submission of additional effluent data using an approved quantification level equal to or better than the Department's Recommended Quantification Level (RQL)
 - ii. Acceptable site-specific ambient data (e.g. hardness, pollutant specific data) collected in accordance with a NJDEP approved work plan.
 - iii. Acceptable site-specific translator values to enable assessment of a dissolved metal versus a total metal ratio. A Water Effects Ratio (WER) study can also be conducted for copper. Guidance regarding a Water Effects Ratio study can be obtained at <http://water.epa.gov/scitech/swguidance/standards/criteria/aqlife/pollutants/copper/upload/copper> Assessment of site-specific translators or a WER shall be developed in accordance with a NJDEP approved work plan.
 - iv. Acceptable site-specific criteria developed in accordance with a NJDEP approved work plan.
 - v. Updated 1Q10, 7Q10, 75th percentile, and/or other appropriate stream flow values where applicable.
- c. All studies require a NJDEP approved workplan that shall be submitted to the Department for approval prior to commencement of any work.
 - i. It is recommended that all ambient monitoring associated with the establishment of hardness values, pollutant concentrations, site-specific translator values and/or a WER study be conducted under the confines of a single work plan.
 - d. The Department will review all submitted information and will either propose a permit action to remove/modify the final effluent limitation(s) or deny the modification request.

H. CUSTOM REQUIREMENTS

1. Best Management Practices (BMPs) for Cleaning Products and Hazardous Wastes

- a. Best Management Practices (BMP) shall be followed to control or abate the discharge of toxic pollutants that may result from the use of cleaning products or hazardous substances. Specifically, cleaning agents, paints, and chemistry laboratory chemicals should be used as directed on the product labels and excess product should be disposed of properly as a household hazardous waste based on township and/or county requirements. The permittee is encouraged to develop and implement a BMP Plan based on the schools operations. This BMP Plan is intended to ensure that toxic pollutants are not put into the sanitary wastewater collection system through sinks and floor drains; passed through the treatment system, and ultimately discharged to the receiving waterbody at the surface water outfall.

2. Chlorine Produced Oxidants (CPO)

- a. Effluent shall not exceed a daily maximum concentration of 0.1 mg/L for CPO at all times. This requirement also applies to facilities that use UV disinfection even though a routine reporting requirement for CPO is not specified.

NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST, Trenton

Permit No.NJ0193381
DSW110004 Surface Water Master General Permit New

APPENDIX A:

**CHRONIC TOXICITY TESTING SPECIFICATIONS
FOR USE IN THE NJPDES PERMIT PROGRAM**

Version 2.1

May 1997

**(Only applicable if a chronic whole effluent toxicity requirement
is specified in Part III.)**

TABLE OF CONTENTS

- I. AUTHORITY AND PURPOSE**
- II. GENERAL CONDITIONS**
 - A. Laboratory Safety and Glassware
 - B. Test Concentrations / Replicates
 - C. Dilution Water
 - D. Effluent Sample Collection
 - E. Physical Chemical Measurements
 - F. Statistics
- III. TEST ACCEPTABILITY CRITERIA**
- IV. STANDARD REFERENCE TOXICANT TESTING**
 - A. Initial Testing Requirements
 - B. Subsequent Testing Requirements
 - C. Changing an Established Reference Toxicant
 - D. Control Charts
 - E. Unacceptable SRT Results
 - F. Annual Submittals
- V. TEST CANCELLATION / RESCHEDULING EVENTS**
- VI. REPORTING**
- VII. METHODS SPECIFICATIONS**
 - A. Fathead Minnow (*Pimephales promelas*), Larval Survival and Growth Test, method 1000.0
 - B. *Ceriodaphnia dubia*, Survival and Reproduction Test, method 1002.0
 - C. Algal, (*Selenastrum capricornutum*), Growth Test, method 1003.0
 - D. Sheepshead Minnow (*Cyprinodon variegatus*), Larval Survival and Growth Test, method 1005.0
 - E. Inland Silverside (*Menidia beryllina*), Larval Survival and Growth Test, method 1006.0
 - F. *Mysidopsis bahia*, Survival, Growth, and Fecundity Test, method 1007.0
 - G. *Champia parvula*, Sexual Reproduction Test, method 1009.0
- VIII. REFERENCES**

Notice: Mention of trade names or commercial products do not constitute endorsement or recommendation for use.

I. AUTHORITY AND PURPOSE

These methods specifications for the conduct of whole effluent chronic toxicity testing are established under the authority of the NJPDES permitting program, N.J.A.C. 7:14A-6.5(a)2 and 40 CFR 136, for discharges to waters of the State. The methods referenced herein are included by reference in 40 CFR 136, Table 1.A. and, therefore, constitute approved methods for chronic toxicity testing. The information contained herein serves to clarify testing requirements not sufficiently clarified in those methods documents and also serves to outline and implement the interlaboratory Standard Reference Toxicant Program until a formal laboratory certification program is established under N.J.A.C. 7:18. As such these methods are intended to be used to determine compliance with discharge permits issued under the authority of the NJPDES permit program. Tests are to be conducted in accordance with the general conditions and test organism specific method specifications contained in this document. All other conditions and specifications can be found in 40 CFR 136 and USEPA methodologies.

Until a subchapter on chronic toxicity testing within the regulations governing the certification of laboratories and environmental measurements (N.J.A.C. 7:18) becomes effective, tests shall be conducted in conformance with the methodologies as designated herein and contained in 40 CFR 136. The laboratory performing the testing shall be within the existing acute toxicity testing laboratory certification program established under N.J.A.C. 7:18, as required by N.J.A.C. 7:9B-1.5(c)5.

Testing shall be in conformance with the subchapter on chronic toxicity testing within the N.J.A.C. 7:18 when such regulations become effective. The laboratory performing the toxicity testing shall be within the chronic toxicity testing laboratory certification program to be established under that subchapter, when it becomes effective.

These methods are incorporated into discharge permits as enforceable permit conditions. Each discharge permit will specify in Part IV of the permit, the test species specific methods from this document that will be required under the terms of the discharge permit. Although the test species specific methods for each permit are determined on a case-by-case basis, the purpose of this methods document is to assure consistency among dischargers and to provide certified laboratories with information on the universe of tests to be utilized so that they can make the necessary preparations, including completing the required Standard Reference Toxicant testing. Please note that these methodologies are required for compliance testing only. Facilities and/or laboratories conducting testing under the requirements of a Toxicity Identification Evaluation or for informational purposes are not bound by these methods.

This document constitutes the second version of the NJDEP's interim chronic methodologies. This version contains no significant changes to the test methods themselves. However, in keeping with the Department's continued emphasis on good laboratory practices and quality control, the areas addressing the Standard Reference Toxicant Program, data analysis and data reporting, have been significantly revised.

II. GENERAL CONDITIONS

A. LABORATORY SAFETY, GLASSWARE, ETC.

All safety procedures, glassware cleaning procedures, etc., shall be in conformance with 40 CFR 136 and USEPA's "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," "Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms" and N.J.A.C. 7:18.

B. TEST CONCENTRATIONS / REPLICATES

All testing is to be performed with a minimum of five effluent concentrations plus a dilution water control. A second reference water control is optional when a dilution water other than culture water is used. The use of both a 0.5 or 0.75 dilution factor is acceptable for the selection of test concentrations. If hypothesis testing will be used to determine the test endpoint, one effluent concentration shall be the chronic permit limitation, unless the existing data for the discharge indicate that the NOEC is expected to be significantly less than the permit limit. The use of the 0.5 dilution factor may require more than five dilutions to cover the entire range of effluent concentrations as well as the chronic permit limit, since the permit limit will often not be one of the nominal concentrations in a 0.5 dilution series. In such an instance, the 0.5 dilution series may be altered by including an additional test concentration equal to the permit limit in the dilution series, or by changing the concentration closest to the permit toxicity limit to be equal to that limit. The Department recommends the use of the 0.75 dilution factor using Table 1.0 to determine test concentrations. That table establishes test concentrations based on the chronic toxicity limitation.

For either the 0.5 or 0.75 dilution factor, there shall be at least one test concentration above the permit limitation and at least three test concentrations below the permit limit along with the dilution water control unless the permit limitation prohibits such (e.g., limitations greater than 75% effluent). An effort shall be made to bracket the anticipated test result.

To use Table 1.0, locate the permit limit in column 4. The dilution series becomes the row that corresponds to the permit limit in column 4. For example, a permit limit of 41 would require a dilution series of the dilution water control, 17%, 23%, 31%, 41% and 55% effluent.

The number of replicates used in the test must, at a minimum, satisfy the specifications of the applicable methods contained herein. Increased data sensitivity can be obtained by increasing the number of replicates equally among test concentrations and thus an increased number of replicates is acceptable. Further, the use of nonparametric statistical analysis requires a minimum of four replicates per test concentration. If the data for any particular test is not conducive to parametric analyses and if less than four replicates were included, the test may not be considered acceptable for compliance purposes.

The use of single concentration tests consisting of the permit limitation as a concentration and a control is not permitted for compliance purposes, but may be used by a permittee in the conduct of a Toxicity Investigation Evaluation (TIE) or for information gathering purposes. Such a test would be considered a "pass" if there was no significant difference in test results, using hypothesis testing methods.

Table 1.0: 0.75 DILUTION SERIES INDEXED BY PERMIT LIMIT

			Permit Limit					Permit Limit			
Col #	1	2	3	4	5	Col #	1	2	3	4	5
	0.4	0.6	0.8	1	1.3		22	29	38	51	68
	0.8	1.1	1.5	2	2.7		22	29	39	52	69
	1.3	1.7	2.3	3	4		22	30	40	53	71
	1.7	2.3	3	4	5.3		23	30	41	54	72
	2.1	2.8	3.8	5	6.7		23	31	41	55	73
	2.5	3.4	4.5	6	8		24	32	42	56	75
	3	4	5	7	9		24	32	43	57	76
	3	5	6	8	11		24	33	44	58	77
	4	5	7	9	12		25	33	44	59	79
	4	6	8	10	13		25	34	45	60	80
	5	6	8	11	15		26	34	46	61	81
	5	7	9	12	16		26	35	47	62	83
	5	7	10	13	17		27	35	47	63	84
	6	8	11	14	19		27	36	48	64	85
	6	8	11	15	20		27	37	49	65	87
	7	9	12	16	21		28	37	50	66	88
	7	10	13	17	23		28	38	50	67	89
	8	10	14	18	24		29	38	51	68	91
	8	11	14	19	25		29	39	52	69	92
	8	11	15	20	27		30	39	53	70	93
	9	12	16	21	28		30	40	53	71	95
	9	12	17	22	29		30	41	54	72	96
	10	13	17	23	31		31	41	55	73	97
	10	14	18	24	32		31	42	56	74	99
	11	14	19	25	33		32	42	56	75	100
	11	15	20	26	35	24	32	43	57	76	
	11	15	20	27	36	24	32	43	58	77	
	12	16	21	28	37	25	33	44	59	78	
	12	16	22	29	39	25	33	44	59	79	
	13	17	23	30	40	25	34	45	60	80	
	13	17	23	31	41	26	34	46	61	81	
	14	18	24	32	43	26	35	46	62	82	
	14	19	25	33	44	26	35	47	62	83	
	14	19	26	34	45	27	35	47	63	84	
	15	20	26	35	47	27	36	48	64	85	
	15	20	27	36	48	27	36	48	65	86	
	16	21	28	37	49	28	37	49	65	87	
	16	21	29	38	51	28	37	50	66	88	
	16	22	29	39	52	28	38	50	67	89	
	17	23	30	40	53	28	38	51	68	90	
	17	23	31	41	55	29	38	51	68	91	
	18	24	32	42	56	29	39	52	69	92	
	18	24	32	43	57	29	39	52	70	93	
	19	25	33	44	59	30	40	53	71	94	
	19	25	34	45	60	30	40	53	71	95	
	19	26	35	46	61	30	41	54	72	96	
	20	26	35	47	63	31	41	55	73	97	
	20	27	36	48	64	31	41	55	74	98	
	21	28	37	49	65	31	42	56	74	99	
	21	28	38	50	67	32	42	56	75	100	

* Select the dilution series by finding the row which contains the permit limit in column #4.
NOTE: All values are in units of "% effluent" not toxic units.

C. DILUTION WATER

1. Marine and Estuarine Waters

A high quality natural water, such as the Manasquan River Inlet is strongly recommended as the dilution water source for chronic toxicity testing with marine and estuarine organisms. The use of the receiving water as the dilution water source is not required. Saline waters prepared with hypersaline brine and deionized water may also be used as dilution water. Hypersaline brines shall be prepared from a high quality natural seawater and shall not exceed a concentration of 100 ppt. The type of a dilution water for a permittee may not be changed without the prior approval of the Department.

The standard test salinity shall be 25 ppt, except for *Champia parvula*, which shall be tested at 30 ppt. Since most effluents are freshwater based, in most cases it will be necessary to adjust the salinity of the test concentrations to the standard test salinity.

2. Fresh Waters

A high quality natural water, such as Round Valley Reservoir (if access is allowed) or Lake Hopatcong, is strongly recommended as the dilution water source for chronic toxicity testing with freshwater organisms. It is not required to perform the toxicity testing with the receiving water as dilution water. Tests performed with a reconstituted water or up to 20% Diluted Mineral Water (DMW) as dilution water is acceptable. For testing with *Ceriodaphnia dubia*, the addition of 5 µg/l selenium (2 µg/l selenium with natural water) and 1 µg/l vitamin B12 is recommended (Keating and Dagbusan, 1984; Keating, 1985 and 1988). The source of a dilution water for a permittee may not be changed without the prior approval of the Department. Reconstituted water and DMW should be prepared with Millipore Super Q^R or equivalent, meet the requirements of N.J.A.C. 7:18-6 and should be aerated a minimum of 24 hrs prior to use, but not supersaturated.

D. EFFLUENT SAMPLE COLLECTION

Effluent samples shall be representative of the discharge being regulated. For each discharge serial number (DSN), the effluent sampling location shall be the same as that specified in the NJPDES permit for other sampling parameters unless an alternate sampling point is specified in the NJPDES discharge permit. For industrial dischargers with a combined process/sanitary waste stream, effluent sampling shall be after chlorination, unless otherwise designated in the permit.

For continuous discharges, effluent sampling shall consist of 24 hour composite samples consisting either of equal volumes taken once every hour or of a flow-proportionate composite sample, unless otherwise approved by the Department. At a minimum, three samples shall be collected as specified above, one every other day. The first sample shall be used for test initiation and the first renewal. The second sample for the next two renewals. The third sample shall be used for the final three renewals. For the *Champia* and *Selenastrum* tests, a single sample shall be collected not more than 24 hours prior to test initiation. No effluent sample shall be over 72 hours old at the time of its use to initiate or renew solutions in a test. It is acceptable to collect samples more frequently for chronic WET testing and if samples are collected daily for acute toxicity testing conducted concurrently, available samples may be used to renew the test solutions as appropriate.

For all other types of discharges, effluent sampling shall be conducted according to specifications contained within the discharge permit, methodology questionnaire or as otherwise specified by the Department. The use of grab samples or other special sampling procedures will be based on time of occurrence and duration of intermittent discharge events.

If a municipal discharger has concerns that the concentrations of ammonia and/or chlorine in an effluent are adequate to cause violations of the permit limit for chronic toxicity testing, the permittee should conduct analyses, as specified in USEPA's toxicity investigation methods documents, to illustrate the relationship between chronic effluent toxicity and chlorine and/or ammonia as applicable. This data may then be submitted to

the Department as justification for a request to use modified test procedures, which account for ammonia and/or chlorine toxicity, in future chronic toxicity tests. The Department may, where adequate justification exists, permit the adjustment of these pollutants in the effluent sample if discharge limits for these pollutants are contained in the NJPDES permit and those permit limitations are adequate for the protection of water quality. Any proposed modified test procedures to adjust effluent chlorine and/or ammonia shall be approved by the Department prior to use of those test procedures for any compliance testing.

Except for filtration through a 2 mm or larger screen or an adjustment to the standard test salinity, no other adjustments to the effluent sample shall be made without prior written approval by the Department. Aeration of samples prior to test start shall be minimized where possible and samples shall not be aerated where adequate saturation exists to maintain dissolved oxygen.

E. PHYSICAL CHEMICAL MEASUREMENTS

At a minimum, the physical chemical measurements shall be as follows:

- pH and dissolved oxygen shall be measured at the beginning and end of each 24 hour exposure period, in at least one chamber, of the high, medium and low test concentrations and the control. In order to ensure that measurements for these parameters are representative of the test concentrations during the test, measurements for these parameters should be taken in an additional replicate chamber for such concentrations which contains no test organisms, but is subject to the same test conditions.
- Temperature shall either be monitored continuously, measured daily in at least two locations in the environmental control system, or measured at the beginning of each 24 hr exposure period in at least one replicate for each treatment.
- Salinity shall be measured in all salt water tests at the beginning of each 24 hour exposure period, in at least one replicate for each treatment.
- For all freshwater tests, alkalinity, hardness and conductivity shall be measured in each new sample (100% effluent) and control.
- Nitrite, nitrate and ammonia shall be measured in the control before each renewal in the mysid test only.
- For samples of discharges where concentrations of ammonia and/or chlorine are known or are suspected to be sufficient to cause toxicity, it is recommended that the concentrations of these pollutants be determined and submitted with the standardized report form. The laboratory is advised to consult with the permittee to determine if these parameters should be measured in the effluent. Where such measurements are deemed appropriate, measurements shall be conducted at the beginning of each 24 hour exposure period. Also, since a rise in the test pH can affect the toxicity of ammonia in the effluent, analysis of ammonia during the test may be appropriate if a rise in pH is accompanied by a significant increase in mortality.

F. STATISTICS

The use of both hypothesis testing techniques and point estimate techniques are currently in use by the Department or by permittees for compliance purposes. The NJPDES permit should be checked to determine which type of analysis is required and appropriate for each specific facility. It is not acceptable to simply evaluate any data by "visual data review" unless in the analysis of survival data, no mortality occurred in the test. All data sets must be appropriately statistically evaluated.

For hypothesis testing techniques, statistical analysis shall follow the protocols in USEPA (1988, 1989) to evaluate adverse effects. A significance level of 0.05 shall be utilized to evaluate such effects. Use of a protocol not contained in these documents must be accompanied by a reference and explanation addressing its

applicability to the particular data set. Please note the following when evaluating data using hypothesis testing techniques.

Special attention should be given to the omission and inclusion of a given replicate in the analysis of mysid fecundity data (USEPA 1994, p. 275) and *Ceriodaphnia* reproduction data (USEPA 1994, page 174).

Determination of acceptability criteria and average individual dry weight for the growth endpoints must follow the specifications in the applicable documents (e.g., p.84 for saltwater methods document.)

Use of nonparametric statistical analyses requires a minimum of four replicates per test concentration. If the data for any particular test are not conducive to parametric analyses and if less than four replicates were included, the test may not be acceptable to the Department.

Where hypothesis testing is used for compliance purposes, if the results of hypothesis testing indicate that a deviation from the dose response occurs such that two test concentrations are deemed statistically significant from the control but an intermediate test concentration is not, the test is deemed unacceptable and cannot be used for compliance testing purposes.

For point estimate techniques, statistical analysis should follow the protocol contained in "A Linear Interpolation Method for Sublethal Toxicity: The Inhibition Concentration (IC_p) Approach (Version 2.0), July 1993, National Effluent Toxicity Assessment Center Technical Report 03-93." Copies of the program can be obtained by contacting the Department. The linear interpolation estimate IC_p values and not the bootstrap mean IC_p, shall be reported for permit compliance purposes. The IC_p value reported on the Discharge Monitoring Report shall be rounded off as specified in the Department's "Discharge Monitoring Report (DMR) Instruction Manual, December 1993." IC₂₅ values shall be reported under the parameter code listed as "NOEC" on the DMR, until the DMR's are adjusted accordingly.

If the result reported by the IC_p method is greater than the highest concentration tested, the test result is reported as "greater than C" where "C" is the highest tested concentration. If the IC_p is lower than the lowest concentration tested, the test result is reported as "less than C" where "C" is the lowest tested concentration.

If separate NOEC's/IC₂₅'s can be calculated from multiple test endpoints, for example a reproductive endpoint and a growth endpoint, the lowest NOEC/IC₂₅ value expressed in units of "% effluent" will be used to determine permit compliance and should, therefore, be reported as the NOEC/IC₂₅ value for the test. If the NOEC value for growth and/or reproduction is not lower than that for survival, the NOEC/IC₂₅ value reported for the test shall be as survival. For saltwater tests, where additional controls are used in a test (i.e. brine and/or artificial sea salt control), a T-test shall be used to determine if there is a significant difference between the original test control and the additional controls. If there is a significant difference between any of the controls, the test may be deemed unacceptable and if so, will not be used for permit compliance.

III. TEST ACCEPTABILITY CRITERIA

Any test that does not meet these acceptability criteria will not be used by the Department for any purpose and must be repeated as soon as practicable, with a freshly collected sample.

1. Tests must be performed by a laboratory approved for the conduct of chronic toxicity tests and certified for acute toxicity testing under N.J.A.C. 7:18.
2. Test results may be rejected due to inappropriate sampling, including the use of less than three effluent samples in a test and/or use of procedures not specified in a permit or methodology questionnaire, use of frozen or unrefrigerated samples or unapproved pretreatment of an effluent sample.
3. Controls shall meet the applicable performance criteria specified in the Table 2.0 and in the individual method specifications contained herein.
4. Acceptable and applicable Standard Reference Toxicant Data must be available for the test.
5. No unapproved deviations from the applicable test methodology may be present.
6. When using hypothesis testing techniques, a deviation from the dose response as explained in the statistical portion of this document shall not be present in the data.

Table 2.0:

CONTROL PERFORMANCE

TEST ORGANISM	MINIMUM SURVIVAL	MINIMUM WEIGHT GAIN	MINIMUM FECUNDITY/ REPRODUCTION
<i>Pimephales promelas</i>	80%	0.25 mg avg	N/A
<i>Ceriodaphnia dubia</i>	80%	N/A	Average of ≥ 15 young per surviving female
<i>Selenastrum capricornutum</i>	Density $\geq 2 \times 10^5$ cells/ml	N/A	Variability in controls not to exceed 20%.
<i>Cyprinodon variegatus</i>	80%	0.60 mg (unpreserved) avg 0.50 mg (preserved) avg	N/A
<i>Menidia beryllina</i>	80%	0.50 mg (unpreserved) avg 0.43 mg (preserved) avg	N/A
<i>Mysidopsis bahia</i>	80%	0.2 mg per mysid avg	egg production by 50% of control females if fecundity is used as an endpoint.
<i>Champia parvula</i>	100%	N/A	≥ 10 cystocarps per plant Plants in controls and lower test concentrations shall not fragment so that individual plants cannot be identified.

THE DETERMINATION OF A TEST AS UNACCEPTABLE DOES NOT RELIEVE THE FACILITY FROM MONITORING FOR THAT MONITORING PERIOD

IV. STANDARD REFERENCE TOXICANT TESTING

All chronic testing shall be accompanied by testing with a Standard Reference Toxicant (SRT) as a part of each laboratory's internal quality control program. Such a testing program should be consistent with the quality assurance/quality control protocols described in the USEPA chronic testing manuals. Laboratories may utilize the reference toxicant of their choice and toxicants such as cadmium chloride, potassium chloride, sodium dodecyl sulfate and copper sulfate are all acceptable. However, Potassium chloride has been chosen by several laboratories and is recommended by the Department. The concentration of the reference toxicant shall be verified by chemical analysis in the low and high test concentrations once each year or every 12 tests, whichever is less. It is not necessary to run SRT tests, for all species using the same SRT.

A. INITIAL STANDARD REFERENCE TOXICANT (SRT) TESTING REQUIREMENTS

At a minimum, this testing shall include an initial series of at least five SRT tests for each test species method. Acceptable SRT testing for chronic toxicity shall be performed utilizing the short term chronic toxicity test methods as specified herein. Reference toxicant tests utilizing acute toxicity testing methods, or any method other than those contained in this document are not acceptable. The laboratory should forward results of the initial SRT testing, including control charts, the name of the reference toxicant utilized, the supplier and appropriate chemical analysis of the toxicant to either address listed in the reporting requirements section herein. The initial series of a least five SRT tests for a specific test species method shall be completed and approved in writing by the Department prior to the conduct of any chronic toxicity testing for compliance purposes.

B. SUBSEQUENT SRT TESTING REQUIREMENTS

After receiving the initial approval from the Department to conduct chronic toxicity tests for compliance purposes, subsequent SRT testing shall be conducted as follows:

1. Where organisms used in testing are cultured at the testing laboratory, SRT testing should be conducted once per month for each species/method.
2. Where the laboratory purchases organisms from a laboratory certified in New Jersey for the conduct of acute toxicity testing and approved for the conduct of chronic toxicity testing for the test organism in question (i.e. the "supplier laboratory"), SRT data provided by the "supplier laboratory" for each lot of organisms purchased is acceptable as long as the SRT test result falls within the control limits of the control chart established by the "supplier laboratory" for that organism. The laboratory using purchased organisms is responsible for the results of any compliance tests they perform.
3. A testing laboratory purchasing organisms from a supplier laboratory must still perform SRT testing on a quarterly basis at a minimum, for each species they test with, in order to adequately document their own interlaboratory precision.
4. If a testing laboratory purchasing organisms elects not to use the SRT data from a "supplier laboratory" or such data is unavailable or where organisms are purchased from another organism supplier, the testing laboratory must conduct SRT testing on each lot of organisms purchased.
5. For industrial laboratories certified under N.J.A.C. 7:18 to conduct acute toxicity tests, only the SRT testing conditions specified in 2. through 4. above apply. Where that laboratory/facility cultures their own test organisms, the frequency of SRT testing required will be determined on a case by case basis, based on the frequency of testing for that facility.

NOTE: Based on these requirements, SRT data are considered applicable to a compliance test when the SRT test results are acceptable and the SRT test is conducted within 30 days of the compliance test, for the test species and SRT in question. Therefore, it is not necessary for an approved laboratory to run an SRT test every month if the laboratory is not conducting compliance tests for a particular species.

C. CHANGING OF AN ESTABLISHED REFERENCE TOXICANT

The SRT used for any species by a laboratory may be changed at any time provided that the following conditions have been satisfied:

1. A series of at least three reference toxicant tests are conducted with the new reference toxicant and the results of those tests are identified as satisfactory, in writing, by the Department.
2. Laboratories must continue using the already approved SRT in their ongoing QA/QC program, until such time as the letter referenced above, is received by the laboratory.

D. CONTROL CHARTS

Control charts shall be established from SRT test results in accordance with the procedures outlined in the USEPA methods documents. Control charts shall be constructed using IC25's using the following methods:

1. The upper and lower control limits shall be calculated by determining +/- two standard deviations above and below the mean.
2. SRT test results which exhibit an IC25 that is greater than the highest concentration tested or less than the lowest concentration tested (i.e. a definitive endpoint cannot be determined), shall not be used to establish control charts.
3. SRT tests which do not meet the acceptability criteria for a specific species shall not be used to establish control charts.
4. All values used in the control charts should be as nominal concentrations. However, the control charts shall be accompanied by a chart tabulating the test results as measured concentrations.
5. An outlier (i.e. values which fall outside the upper and lower control limits) should be included on the control chart unless it is determined that the outlier was caused by factors not directly related to the test organisms (e.g., test concentration preparation) as the source of variability would not be directly applicable to effluent tests. In such case, the result and explanation shall be reported to the Department within 30 days of the completion of the SRT test.

The control chart established for the initial series of SRT data submitted will be used by the laboratory and the Department to determine outliers from SRT test results reported in the "NJPDES Biomonitoring Report Form - Chronic Toxicity Test" submitted by the permittees for the test species. These initial control limits will remain unchanged until twenty SRT tests have been completed by the laboratory.

The following procedures shall be used for continually updating control charts after twenty acceptable SRT tests have been completed:

1. Once a laboratory has completed twenty acceptable SRT tests for a test species, the upper and lower control limits shall be recalculated with those twenty values.
2. For each successive SRT test conducted after these first twenty tests, a moving average shall be calculated and the control limits reevaluated using the last twenty consecutive test results.
3. The upper and lower control limits shall be reported on the "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" along with the SRT test result.

E. UNACCEPTABLE SRT TEST RESULTS

If a laboratory produces any SRT test results which are outside the established upper and lower control limits for a test species at a frequency greater than one test in any ten tests, a report shall be forwarded to the Department at the address contained herein. This report shall include any identified problem which caused the values to fall outside the expected range and the corresponding actions that have been taken by the laboratory. The Department may not accept or may require repeat testing for any toxicity testing that may have been affected by such an occurrence.

If a laboratory produces two consecutive SRT test results or three out of any ten test results which are outside the established upper and lower limits for a specific test species, the laboratory shall be unapproved to conduct chronic toxicity tests for compliance purposes for that test species. Reapproval shall be contingent upon the laboratory producing SRT test results within the established upper and lower control limits for that test species in two consecutive SRT tests. If one or both of those test results again fall outside the established control levels, the laboratory is unapproved for that test species until five consecutive test results within the established upper and lower control limits are submitted and approved by the Department.

F. ANNUAL SUBMITTALS

Control charts shall be forwarded to the Department on an annual basis, on the anniversary of approval for the test species.

The Department may request, at any time, any information which is essential in the evaluation of SRT results and/or compliance data.

V. TEST CANCELLATION / RESCHEDULING EVENTS

A lab may become aware of QA problems during or immediately following a test that will prevent data from being submitted or a lab may be unable to complete a tests due to sample collection or shipping problems. If for any reason a chronic toxicity test is initiated and then prematurely ended by the laboratory or at the request of the permittee, the laboratory shall submit the form entitled "Chronic Whole Effluent Toxicity Testing Test Cancellation / Rescheduling Event Form" contained herein. This form shall be used to detail the reason for prematurely ending the test. This completed form and any applicable raw data sheets shall be submitted to the appropriate biomonitoring program at the address above within 30 days of the cessation of the test.

Tests are considered to be initiated once test organisms have been added to all test chambers.

Submission of this form does not relieve the facility from monitoring for that monitoring period.

VI. REPORTING

The report form entitled "NJPDES Biomonitoring Report Form - Chronic Toxicity Tests" should be used to report the results of all NJPDES chronic compliance biomonitoring tests. Laboratory facsimiles are acceptable but must contain all information included on any recent revisions of the form by the Department. Statistical printouts and raw data sheets for all endpoints analyzed shall be included with the report submitted to the Department. Two copies of all chronic toxicity test report forms shall be submitted to the following address as applicable:

Bureau of Surface Water Permitting
New Jersey Department of Environmental Protection
Division of Water Quality
Mail Code- 401-02B
PO Box 420 – 401 East State Street
Trenton, NJ 08625-0420

It is not necessary to attach a copy of a test report form to the Discharge Monitoring Report (DMR) form when submitting this form to the Department. However, the results of all chronic toxicity tests conducted for compliance purposes must be reported on the DMR form under the appropriate parameter code in the monitoring period in which the test was conducted.

VII. METHOD SPECIFICATIONS

The following method specifications shall be followed as specified in the NJPDES permit. Any changes to these methods will not be considered acceptable unless they are approved in writing by the Department, prior to their use.

- A. Fathead Minnow (*Pimephales promelas*), Larval Survival and Growth Test, method 1000.0
- B. *Ceriodaphnia dubia*, Survival and Reproduction Test, method 1002.0
- C. Algal, (*Selenastrum capricornutum*), Growth Test, method 1003.0
- D. Sheepshead Minnow (*Cyprinodon variegatus*), Larval Survival and Growth Test, method 1005.0
- E. Inland Silverside (*Menidia beryllina*), Larval Survival and Growth Test, method 1006.0
- F. *Mysidopsis bahia*, Survival, Growth, and Fecundity Test, method 1007.0
- G. *Champia parvula*, Sexual Reproduction Test, method 1009.0

VIII. REFERENCES

1. Keating, K. 1985. The influence of Vitamin B12 deficiency on the reproduction of Daphnia pulex Leydig (Cladocera). *J. Crustacean Biology* 5:130-136.
2. Keating, K. 1988. N.J.D.E.P. Project C29589, Fiscal 1988 Third Quarter Summary Report. Producing Nutritionally Competent Daphnids for Use in Bioassay. 44p.
3. Keating, K., and B. Dagbusan. 1984. Effect of selenium deficiency on cuticle integrity in Cladocera (Crustacea). *Proc. Natl. Acad. Sci. USA* 81:3433-3437.
4. NJDEP, 1993. Discharge Monitoring Report (DMR) Instruction Manual.
5. USEPA. 1994. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA-600/4-91-003. July 1994. Second Edition.
6. USEPA. 1994. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA/600/4-91/002. July 1994. Third Edition.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code 401-02B
PO Box 420
TRENTON, NEW JERSEY 08625-0420
BIOMONITORING PROGRAM

**CHRONIC WHOLE EFFLUENT TOXICITY TESTING
TEST CANCELLATION / RESCHEDULING EVENT FORM**

**THIS FORM IS TO BE COMPLETED AND SUBMITTED TO THE DEPARTMENT DIRECTLY BY THE
LABORATORY CONDUCTING CHRONIC TOXICITY TESTS WHENEVER A CHRONIC TOXICITY TEST
IS PREMATURELY ENDED FOR ANY REASON**

NJPDES No.: _____

FACILITY NAME: _____

LOCATION: _____

CONTACT: _____ PHONE: _____

CANCELLATION EVENT:

LABORATORY NAME / NUMBER: _____

CONTACT: _____

TEST START DATE: ____/____/____

TEST END DATE: ____/____/____

REASON FOR CANCELLATION: _____

EFFLUENT SAMPLING:

SAMPLING POINT / DESCRIPTION OF SAMPLING SITE: _____

SAMPLING INITIATED: DATE: ____/____/____ TIME: _____

SAMPLING ENDED: DATE: ____/____/____ TIME: _____

NUMBER OF EFFLUENT SAMPLES COLLECTED: _____

SAMPLE TYPE (GRAB/COMPOSITE): _____

RECEIVED IN LAB BY/FROM: _____

METHOD OF SHIPMENT: _____

(ALL APPLICABLE RAW DATA SHEETS MUST BE ATTACHED)

c: Permittees authorized agent.