VPDES PERMIT PROGRAM FACT SHEET

FILE NO: 614

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a **MAJOR INDUSTRIAL** permit.

1. **PERMIT NO.: VA0004049** **EXPIRATION DATE: February 21,2010**

2. **FACILITY NAME AND LOCAL MAILING ADDRESS**

Tyson Farms, Inc
P. O. Box 8
Temperanceville, VA 23442

FACILITY LOCATION ADDRESS (IF DIFFERENT)

11224 Lankford Highway
Temperanceville, VA 23442

CONTACT AT FACILITY:
NAME: Dave Redinger
TITLE: Complex Safety & Envir Mgr
PHONE: (757)824-3471 x274

CONTACT AT LOCATION ADDRESS
NAME: Same
TITLE:
PHONE: ( )

3. **OWNER CONTACT:** (TO RECEIVE PERMIT)
NAME: Mr. William Ricken
TITLE: Complex Manager
COMPANY NAME: Same
ADDRESS:

PHONE: (575)824-3571

CONSULTANT CONTACT:
NAME:
FIRM NAME:
ADDRESS:

PHONE: ( )

4. **PERMIT DRAFTED BY:** DEQ, Water Permits, Regional Office

Permit Writer(s): D. L. Thompson Date(s): 1/5/10
Reviewed By: Date(s): 8/26/10

5. **PERMIT ACTION:**

( ) Issuance (x) Reissuance ( ) Revoke & Reissue ( ) Owner Modification
( ) Board Modification ( ) Change of Ownership/Name [Effective Date:]

6. **SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS:**

Attachment 1	Site Inspection Report/Memorandum
Attachment 2	Discharge Location/Topographic Map
Attachment 3	Schematic/Plans & Specs/Site Map/Water Balance
Attachment 4	TABLE I - Discharge/Outfall Description
Attachment 5	TABLE II - Effluent Monitoring/Limitations
Attachment 6	Effluent Limitations/Monitoring Rationale/Suitable Data/Antidegradation/Antibacksliding
Attachment 7	Special Conditions Rationale
Attachment 8	Toxics Monitoring/Toxics Reduction/WET Limit Rationale
Attachment 9	Material Stored
Attachment 10	Receiving Waters Info./Tier Determination/STORET Data/Stream Modeling
Attachment 11	303(d) Listed Segments
Attachment 12	TABLE III(a) and TABLE III(b) - Change Sheets
Attachment 13	NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist
Attachment 14	Chronology Sheet

APPLICATION COMPLETE: 8-4-10 (rec'd:8-14-09,8-24-09,3-17-10,5-10-10,6-9-10,7-30-10,8-4-10)

7. **PERMIT CHARACTERIZATION:** (Check as many as appropriate)

(x) Existing Discharge
( ) Proposed Discharge
( ) Municipal
SIC Code(s)
(x) Industrial
SIC Code(s)2015,2077,0254
( ) POTW
( ) PVOTW
(x) Private
( ) Federal
( ) State
( ) Publicly-Owned Industrial

(x) Effluent Limited
(x) Water Quality Limited
(x) WET Limit
( ) Interim Limits in Permit
( ) Interim Limits in Other Document
( ) Compliance Schedule Required
( ) Site Specific WQ Criteria
( ) Variance to WQ Standards
( ) Water Effects Ratio
(x) Discharge to 303(d) Listed Segment
(x) Toxics Management Program Required
( ) Toxics Reduction Evaluation
(x) Storm Water Management Plan
( ) Pretreatment Program Required
( ) Possible Interstate Effect
(X) CBP Significant Dischargers List

8. **RECEIVING WATERS CLASSIFICATION:** River basin information.

Outfall No(s): 001, 003, 004

Receiving Stream:	UT to Sandy Bottom Branch to Pocomoke Sound
River Mile:	SB000.96
Basin:	Chesapeake Bay/Atlantic Ocean & Small Coastal
Subbasin:	N/A
Section:	2a
Class:	III
Special Standard(s):	None
Tidal:	YES
7-Day/10-Year Low Flow:	MGD
1-Day/10-Year Low Flow:	MGD
30-Day/5-Year Low Flow:	MGD
Harmonic Mean Flow:	MGD

9. **FACILITY DESCRIPTION:** Describe the type facility from which the discharges originate.

Existing industrial discharge resulting from the operation of a poultry hatchery which supplies chicks to contract growers and the processing of live chickens which includes slaughtering, de-feathering, evisceration, chilling and final packaging and shipping to an offsite destination. Additional processing includes the rendering of offal and feather waste into useable products/feed ingredients. Storm water runoff from non-industrial areas which do not comingle with process water prior to discharge and industrially related storm water that comingles with process water at outfall 001.

10. **LICENSED OPERATOR REQUIREMENTS:** ( ) No (x) Yes Class: **II**

11. **RELIABILITY CLASS:** Industrial Facility - NA

12. **SITE INSPECTION DATE:** March 18, 2010 **REPORT DATE:** March 24,2010

Performed By: D. Thompson, Steve Thomas

SEE ATTACHMENT 1

13. **DISCHARGE(S) LOCATION DESCRIPTION:** Provide USGS Topo which indicates the discharge location, significant (large) discharger(s) to the receiving stream, water intakes, and other items of interest.

Name of Topo: Hallwood Quadrant No.: 142A **SEE ATTACHMENT 2**

14. **ATTACH A SCHEMATIC OF THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE TREATMENT PROVIDED.**

Wastewater treatment facilities consist of initial screening followed by flow equalization, dissolved air floatation, anaerobic lagoon and a third stage anoxic reactor with mixing equipment and carbon source solution storage and pumping equipment for final nitrate nitrogen removal, a fourth stage anaerobic reactor with course bubble diffused aeration equipment and air supply blowers for nitrogen gas stripping and post treatment. Flow is then sent through a complete mix aeration basin, clarification, disinfection (UV) (CL will be used as an alternative disinfection option), and post-aeration. Sludge generated as a result of wastewater treatment is sent to a lined sludge holding lagoon and subsequently land applied (via VPA Permit No. VPA01035), when necessary.

SEE ATTACHMENT 3 (CAN ALSO REFERENCE TABLE I)

15. **DISCHARGE DESCRIPTION**: Describe each discharge originating from this facility.

SEE **TABLE I** (OR CAN SUBSTITUTE PAGE 2C) - **SEE ATTACHMENT 4**

16. **COMBINED TOTAL FLOW**:

TOTAL: 2.0 MGD (for public notice)

PROCESS FLOW: 1.87 MGD (IND.)

NONPROCESS/RAINFALL DEPENDENT FLOW: 0.15 MGD (Est.)

17. **STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS**: (Check all which are appropriate)

X State Water Control Law
X Clean Water Act
X VPDES Permit Regulation (9 VAC 25-31-10 et seq.)
X EPA NPDES Regulation (Federal Register)
X EPA Effluent Guidelines (40 CFR 133 or 400 - 471)
X Water Quality Standards (9 VAC 25-260-5 et seq.)
___ Wasteload Allocation from a TMDL or River Basin Plan

18. **EFFLUENT LIMITATIONS/MONITORING**: Provide all limitations and monitoring requirements being placed on each outfall.

SEE TABLE II - ATTACHMENT 5

19. **EFFLUENT LIMITATIONS/MONITORING RATIONALE**: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values, quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or anti-backsliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

VARIANCES/ALTERNATE LIMITATIONS: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

N/A

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses. The limitations in this permit were developed in accordance with Section 303(d) of the Clean Water Act, therefore, antidegradation restrictions do not apply.

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).
SEE ATTACHMENT 6

20. **SPECIAL CONDITIONS RATIONALE**: Provide a rationale for each of the permit's special conditions.

SEE ATTACHMENT 7

21. **TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE**: Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

SEE ATTACHMENT 8

22. **SLUDGE DISPOSAL PLAN**: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge disposal is handled via VPA Permit No. VPA01035.

23. **MATERIAL STORED**: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

SEE ATTACHMENT 9

24. **RECEIVING WATERS INFORMATION:** Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). **Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied.** Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 10

25 **305(b)/303(d) Listed Segments:** Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to Unnamed tributary to Sandy Bottom Branch. This receiving stream segment has been listed in Category 5 of the 303(d) list for non-attainment of fecal coliform and benthic macro-invertebrates. EPA approved the **Fecal Coliform Total Maximum Daily Load Development for Holdens Creek, Sandy Bottom Branch, and Unnamed Tributary to Sandy Bottom Branch, Accomack County, VA.** on **November 8, 2008**. for this segment. It contains a wasteload allocation for this discharge of fecal coliform. This permit contains limits of 126 n/100ml fecal coliform which are in compliance with the TMDL. A TMDL to address benthos impairment is currently under review. Any additional requirements contained in the approved TMDL will be considered for this permit.

26. **CHANGES TO PERMIT:** Use **TABLE III(a)** to record any changes from the previous permit and the rationale for those changes. Use **TABLE III(b)** to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 12

27. **NPDES INDUSTRIAL PERMIT RATING WORKSHEET:**

TOTAL SCORE: 98 **SEE ATTACHMENT 13**

28. **DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT:** Document any comments received from DEQ planning.

The discharge is in conformance with the existing planning documents for the area.

29. **PUBLIC PARTICIPATION:** Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit by letter dated August 16, 2009.

The DSS provided comments by letter dated 9/1/09, on the application; the project is located in shellfish growing waters and the activity as described, will not cause an increase in the size or type of the existing closure.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit.

By letter dated _____, the EPA provided the following comments:

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved. **Not Applicable.**

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved. **Not Applicable.**

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and no comments were received.

PUBLIC NOTICE INFORMATION: Comment Period: Start Date
End Date

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/ reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting **Debra L. Thompson** at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: **757-518-2162** E-mail:**debra.thompson@deq.virginia.gov**

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. **ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:**

The wastewater treatment plant system is currently undergoing an upgrade to provided higher efficiency total nitrogen (TN) and total phosphorus (TP) in the activated sludge treatment system. To achieve final effluent TN and TP concentrations, the existing two stage Modified Ludzack-Ettinger MLE) activated sludge treatment system will be upgraded to a four stage Bardenpho BNR process followed by tertiary filtration. This upgrade is necessary to comply with the Chesapeake Bay Program TN and TP nutrient allocation.

By letter dated June 9, 2010, Tyson Foods requested deletion of Outfall 002 from the permit. In the previous five years only one low volume discharge occurred from this outfall under difficult operational conditions (detailed in letter dated May 10, 2010). To eliminate this possible issue in the future, Tyson has been working with John Reed and Associates, the wastewater engineering contractor, to redesign the storm water flow at the Temperanceville, VA complex. In this project, the detention basin will be redesigned to capture even more rainfall, divert any process flows to the wastewater treatment facility and add a device to slow the flow to the detention basin in periods of extreme rainfall. This device will allow storm water to be collected in existing ditches on the southern side of the facility and eliminate the possibility of overloading the capacity of the detention basin. With these practices and additional equipment, the facility is confident that Outfall 002 will be unnecessary in future permits.
Two storm water outfalls not associated with industrial activity have been added to this permit, they will be designated as outfalls 003 and 004.

ATTACHMENT 1

SITE INSPECTION REPORT/MEMORANDUM

1-1

Facility:	TYSON FOODS, INC.
County/city:	TEMPERANCEVILLE, VA

VPDES NO.	VA0004049

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTEWATER FACILITY
INSPECTION REPORT
PART 1

Inspection date:	**3/18/2010**	Date form completed:	**3/24/2010**
Inspection by:	**Stephen J. Thomas**	Inspection agency:	**DEQ/TRO**
Time spent:	**12 Hours**	Announced Inspection:	[ ] Yes [X] No
Reviewed by: **Kenneth T. Raum**		Photographs taken at site?	[X] Yes [ ] No
Present at inspection:	**David Redinger, Chris Kleckner – Tyson Foods; Stephen Thomas, Lisa Silvia, Will Williams - DEQ**		

FACILITY TYPE:	FACILITY CLASS:
( ) Municipal	(X) Major
(X) Industrial	( ) Minor
( ) Federal	( ) Small
( ) VPA/NDC	( ) High Priority ( ) Low Priority

TYPE OF INSPECTION:

Routine	x	Reinspection		Compliance/assistance/complaint	

Date of previous inspection:	**6/26/2007**	Agency:	**DEQ/TRO**

Population Served:	**N/A**	Connections Served:	**1**

Last Month Average: Influent N/A	BOD_5 (mg/l)		TSS (mg/l)		Flow (MGD)		NH_3 (mg/l)	
	Other:							
Last Month Average: February 2010	BOD_5 (mg/l)	**3**	TSS (mg/l)	**9**	Flow (MGD)	**0.99**	NH_3 (mg/l)	**<1**
	Other: **pH 6.7 – 7.2 D.O. 9.7 mg/l Total Nitrogen 91 mg/l, Total Phosphorus 1.0 mg/l Fecal Coliform 5 N/CML**							
Last Quarter Average: January – February 2010	BOD_5 (mg/l)	**2**	TSS (mg/l)	**7**	Flow (MGD)	**0.88**	NH_3 (mg/l)	**< QL**
	Other: **Total Nitrogen 100 mg/l Total Phosphorus 0.9 mg/l Fecal Coliform 5 N/CML**							

Data verified in preface:	Updated?		NO CHANGES?	x
Has there been any new construction?	YES	x	NO	
If yes, were the plans and specifications approved?	YES	x	NO	
DEQ approval date:				

COPIES TO: (x) DEQ/TRO; (x) DEQ/OWCP; (x) OWNER; ( ) OPERATOR; ( ) EPA-Region III; ( ) Other:

1-2

FACILITY: Tyson Foods, Inc. VA0004049

PLANT OPERATION AND MAINTENANCE												
1.	Class/number of licensed operators:	I	1	II	1	III	2	IV	1	Trainee		
2.	Hours per day plant manned?	24										
3.	Describe adequacy of staffing *	GOOD		AVERAGE		x	POOR					
4.	Does the plant have an established program for training personnel	YES		NO	x							
5.	Describe the adequacy of training	GOOD		AVERAGE		x	POOR					
6.	Are preventative maintenance tasks scheduled	YES	x	NO								
7.	Describe the adequacy of maintenance	GOOD		AVERAGE		x	POOR					
8.	Does the plant experience any organic/hydraulic overloading?	YES	x	NO								
	If yes, identify cause/impact on plant											
9.	Any bypassing since last inspection?	YES		NO	x							
10.	Is the standby electrical generator operational? No generator for Treatment Plant	YES		NO		NA	x*					
11.	How often is the standby generator exercised?	N/A										
	Power transfer switch?			ALARM SYSTEM?								
12.	When was the cross connection last tested on the potable supply?	4/5/2005										
13.	Is the STP alarm system operational?	YES	x	NO		NA						
14.	Is sludge disposed in accordance with an approved SMP	YES	x	NO		NA						
15.	Is septage received by the facility?	YES		NO	x							
	Is septage loading controlled?	YES		NO		NA	x					
	Are records maintained?	YES	x	NO		NA						

OVERALL APPEARANCE OF FACILITY	GOOD		AVERAGE	x	POOR	

COMMENTS:	**8. During periods of extended rainfall the plant can experience a large amount of stormwater flow into the plant. The facility's strategy is to pump all stormwater from the stormwater pond through the treatment system. 10. There is no standby generator power for the treatment system. The Rendering Pump Station has backup generator power.**

PLANT RECORDS

1.	*WHICH OF THE FOLLOWING RECORDS DOES THE PLANT MAINTAIN?*						
	Operational logs for each process unit	YES	x	NO		NA	
	Instrument maintenance and calibration	YES	x	NO		NA	
	Mechanical equipment maintenance	YES	x	NO		NA	
	Industrial waste contribution (municipal facilities)	YES		NO		NA	x

2.	*WHAT DOES THE OPERATIONAL LOG CONTAIN*					
	Visual Observations	x	Flow Measurement		Laboratory Results	
	Process Adjustments	x	Control Calculations		Other?	

COMMENTS:

3.	*WHAT DO THE MECHANICAL EQUIPMENT RECORDS CONTAIN?*					NA	
	MFG. Instructions	x	As Built Plans/specs	x	Spare Parts Inventory		
	Lube Schedules	x	Other?		Equipment/parts Suppliers		

COMMENTS:

4.	*WHAT DO INDUSTRIAL WASTE CONTRIBUTION RECORDS CONTAIN? (MUNICIPAL)*			NA	
	Waste Characteristics	x	Impact on Plant		
	Location and Discharge Types	x	Other?		

COMMENTS:

5.	*WHICH OF THE FOLLOWING RECORDS ARE AT THE PLANT & AVAILABLE TO PERSONNEL?*					NA	
	Equipment Maintenance Records	x	Industrial Contributor Records				
	Operational Log		Sampling/testing Records	x	Instrumentation Records		

6.	Records not normally available to personnel at their location:	**N/A**				
7.	Were the records reviewed during the inspection	YES	x	NO		
8.	Are records adequate and the O&M manual current? ***The manual will need to be updated when the new upgrade to the facility is complete and new permit is issued.***	YES		NO	x	
9.	Are the records maintained for the required 3-year time period	YES	x	NO		

COMMENTS:

	PROBLEMS IDENTIFIED AT LAST INSPECTION:	CORRECTED	NOT CORRECTED
1.	Remove excess grease from the Equalization Tank by September 30, 2007.	x	
2.	The facility needs to consider the possibility that excess solids and grease may be overloading the anaerobic primary treatment lagoon. If the possibility of overloading exists, then a plan should be formulated for the removal of the grease and solids from the lagoon. The facility also needs to look at reducing the loading into the lagoon with increased pretreatment.		x
3.	The sludge holding pond will be at or near capacity by the time the scheduled fall removal is expected to begin. The facility needs to consider increasing the sludge holding capacity for the plant or look into an alternative sludge storage and treatment method.		x

SUMMARY

	INSPECTION COMMENTS:
	A multimedia inspection was performed on this date, with water, air, and waste inspection personnel present during the inspection. The wastewater facility, rendering plant, waste oil storage, and laboratory chemical disposal were inspected during the inspection. At the present time the wastewater system at this facility is in the construction phase of the upgrade to the treatment system, which will hopefully be completed this summer. The upgrade does not include additional sludge storage capacity or plant backup power generation. Although low in volume, there was a discharge from the stormwater pond during the inspection. Wastewater from one of the old treatment lagoons was being transferred back into the anaerobic lagoon at the time of the inspection. Wastewater is transferred to the old lagoons during times of plant overloads, and equipment breakdown and repair. The wastewater is pumped back into the wastewater system for treatment during normal operations. Mr. David Redinger has assumed lead operator duties at this time until a replacement operator can be found. The former lead plant operator left Tyson employment in early February 2010. This inspection found the Tyson – Temperancville Wastewater Facility in fair overall condition at the time of inspection.
	I would like to thank Mr. David Redinger and his staff for their cooperation during the inspection.

	COMPLIANCE RECOMMENDATIONS FOR ACTION:
1.	At this time any overflow or discharge from the stormwater pond must be sampled, analyzed, and reported to DEQ on a quarterly basis using the appropriate DMR. This pond can receive process water in the form of rendering plant truck washdown water. It is also possible that washdown water from the concrete rendering plant loading and vehicle storage area can also reach the pond. This water can contain organic waste from the rendering process. This issue needs to be addressed in the upcoming permit reissuance.
2.	Freeboard levels in all lagoons must be monitored and reported to DEQ if permit freeboard requirements can not be met or maintained.
3.	The facility needs to document the transfer to, and ultimate disposal practices of wastewater or solids transferred from the treatment system to the old lagoons. Documentation should include the date, approximate volume, reason for transfer and date and volume of water transferred back into the system.

FACILITY: Tyson Foods, Inc. **VA0004049**

DEPARTMENT OF ENVIRONMENTAL QUALITY
WASTEWATER FACILITY
INSPECTION REPORT
PART II

Unit Process Evaluation Summary Sheet*

UNIT PROCESS	APPLICABLE	COMMENTS
SEWAGE PUMPING	x	Did not Inspect
FLOW MEASUREMENT	x	
SCREENING/COMMINUTION	x	Not in operation
GRIT REMOVAL		
FLOW EQUALIZATION	x	1 (overflow vale need to be replaced)
PONDS/LAGOONS	x	1 (Maintain one foot freeboard)
OIL/WATER SEPARATOR		
ANOXIC LAGOON	x	
COMPLETE MIX M ACTIVATED SLUDGE LAGOON	x	
DISSOLVED AIR FLOTATION	x	
ROTATING BIOLOGICAL CONTACTORS		
SEPTIC TANK/SAND FILTER / IMHOFF TANK		
SECONDARY SEDIMENTATION	x	
RAPID MIX/FLOCCULATION		
TERTIARY SEDIMENTATION		
FILTRATION		
MICRO-SCREENING		
ACTIVATED CARBON ADSORPTION		
CHLORINATION	x	
DECHLORINATION	x	
OZONATION		
ULTRAVIOLET DISINFECTION		
POST AERATION	x	
LAND APPLICATION-EFFLUENT		
EFFLUENT/PLANT OUTFALL	x	
STORMWATER POND	X	Discharge from pond during inspection
SLUDGE PUMPING		
FLOTATION THICKENING (DAF)	x	
GRAVITY THICKENING		
AEROBIC DIGESTION		
ANAEROBIC SLUDGE HOLDING LAGOON DIGESTION	x	Freeboard at approximately one foot.
LIME STABILIZATION		
CENTRIFUGATION		
PRESSURE FILTRATION (SLUDGE)		
VACUUM FILTRATION		
DRYING BEDS		
THERMAL TREATMENT		
INCINERATION		
COMPOSTING		
LAND APPLICATION-SLUDGE		

STANDARD COMMENTS:

1. UNIT NEEDS ATTENTION
2. ABNORMAL INFLUENT/EFFLUENT
3. EVIDENCE OF EQUIPMENT FAILURE
4. UNAPPROVED MODIFICATION OR TEMPORARY REPAIR
5. EVIDENCE OF PROCESS UPSET

***REFER TO INDIVIDUAL UNIT PROCESS EVALUATION FORMS**

ATTACHMENT 2

DISCHARGE LOCATION/TOPOGRAPHIC MAP

2-1

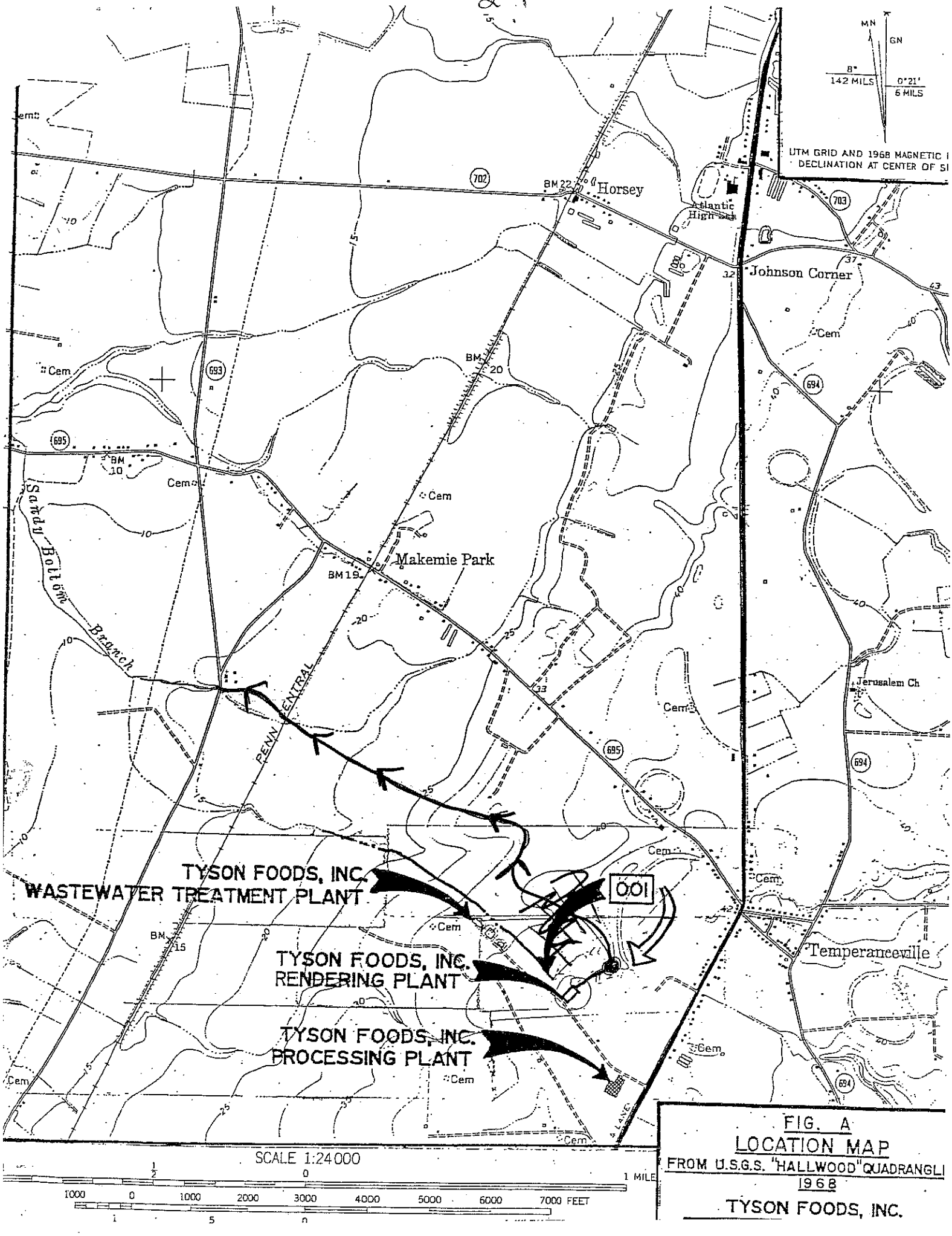


FIG. A
LOCATION MAP
FROM U.S.G.S. "HALLWOOD" QUADRANGLE
1968
TYSON FOODS, INC.

Tyson
Farms

OUTFALL 001

Tyson Foods, Inc
VPDES Permit No. VA0004049

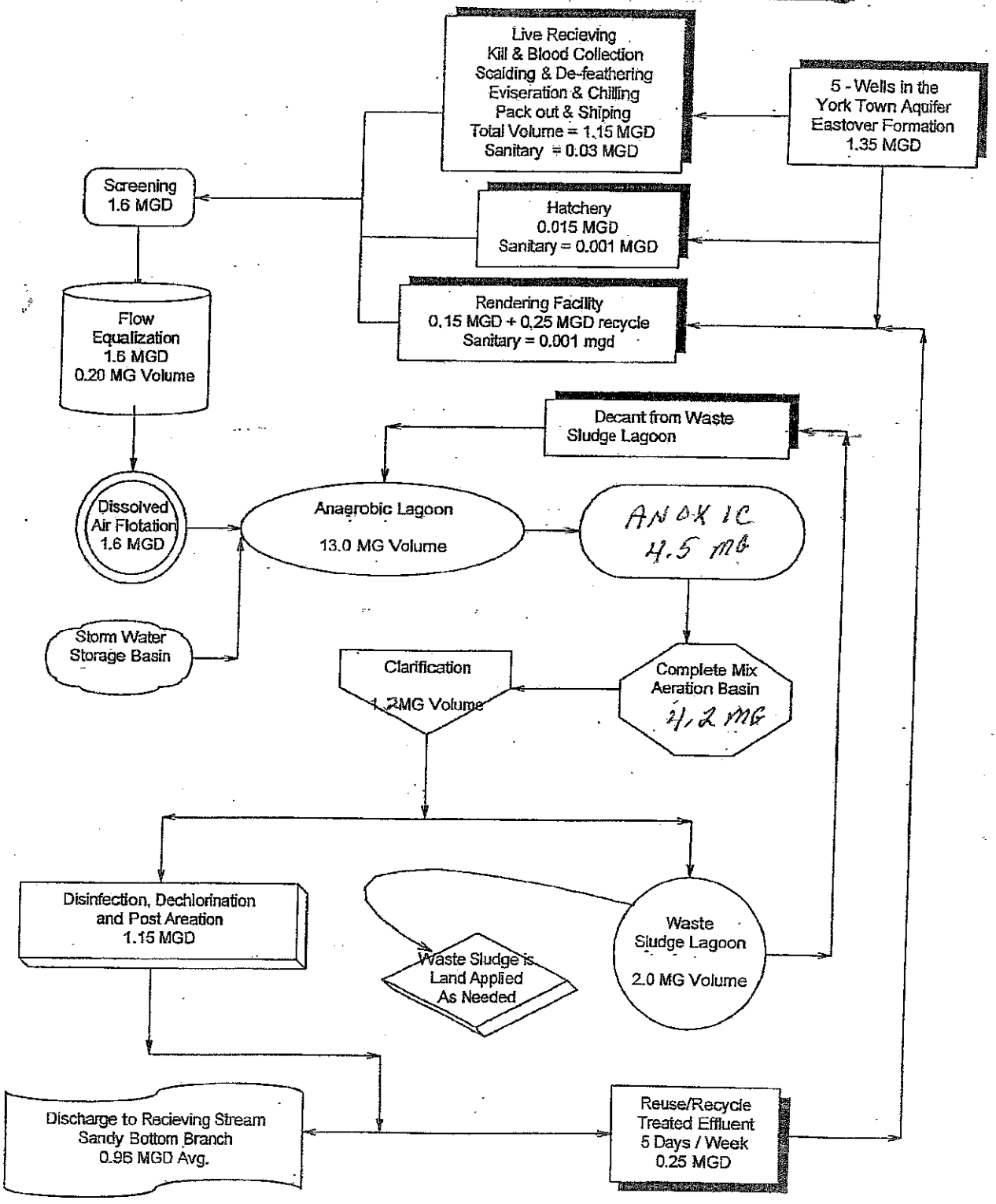
Storm Water Outfalls 003 and 004
Activities w/i drainage area not associated with indusial activity

ATTACHMENT 3

SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE

3-1

Tyson Foods, Inc.
Temperanceville, VA Line Drawing



ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I 4-1

NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE (1)	TREATMENT (2)	FLOW (3)
001	37 53 30 75 33 57 Unnamed tributary to Sandy Bottom Branch	Poultry Processing, rendering, hatchery, recycle to rendering, storm water	Screening, anaerobic treatment, activated sludge, nitrification/denitrification, chemical precipitation, disinfection, post aeration	2.0 MGD
003	37 53 06.89 75 33 14.72	stormwater runoff not associated with industrial activity	settling/natural vegetation filtration	rainfall dependant
004	37 53 04.63 75 33 16.19	stormwater runoff not associated with industrial activity	settling/natural vegetation filtration	rainfall dependant

(1) List operations contributing to flow
(2) Give brief description, unit by unit
(3) Give maximum 30-day average flow for industry and design flow for municipal

ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # **001**
Outfall Description: **Processing/rendering plant wastewater and storm water runoff**
SIC CODE: 2015, 2077, 0254

(X) Final Limits ( ) Interim Limits Effective Dates - From: **issuance** To: **expiration**

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Flow (MGD)	3	Long term avg (LTA) = 0.86 MGD	NL	NA	NL	continuous	Totalizing, Indicating & Recording
pH (S.U.)	3	BPJ for the protection of water quality	NA	6.0	9.0	1/Day	Grab
BOD5 (mg/l)	1	40 CFR Part 432 Subpart K	16	NA	26	2/week	24-Hr Comp
BOD5 (lb/d)	3	BPJ for WQ in conjunction with 40 CFR Part 432 Subpart K (LTA = 0.86 MGD)	115	NA	187	2/week	24-Hr Comp
TSS (mg/l)	1	40 CFR Part 432 Subpart K	20	NA	30	2/week	24-Hr Comp
TSS (lb/d)	3	BPJ for WQ in conjunction with 40 CFR Part 432 Subpart K(LTA = 0.86 MGD)	143	NA	215	2/week	24-Hr Comp
Oil & Grease (mg/l)	1	40 CFR Part 432 Subpart K	8	NA	14	1/week	Grab
Oil & Grease (lb/d)	3	BPJ for WQ in conjunction with 40 CFR Part 432 Subpart K (LTA = 0.86 MGD)	57	NA	100	1/week	Grab
Ammonia-Nitrogen (NH_3-N) (mg/l) (Nov-Apr) [a]	2		1.7	NA	2.7	1/week	24-Hr Comp

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Ammonia-Nitrogen (NH_3-N) (mg/l) (May-Oct) [b]	2		0.7	N/A	1.3	1/week	24-Hr Comp
Total Phosphorus (mg/l) [j]	2		2.0	NA	NA	1/week	24-Hr Comp
Total Phosphorus (mg/l/Month) [f] [g]			NL	NA	NA	1/Month	24-Hr Comp
Total Phosphorus Year-to-Date (mg/l) [f] [g]	2		NL	NA	NA	1/month	Calculated
Total Phosphorus Calendar Year (mg/l) [g] [h]	2	Based on 0.3 mg/l TP and design flow = 1.25 MGD	0.3	NA	NA	1/month	Calculated
Total Kjeldahl Nitrogen (mg/l) [f]	3		NL	NA	NA	1/month	24-Hr Comp
Nitrate + Nitrite (mg/l) [f]	3		NL	NA	NA	1/month	24-Hr Comp
Total Nitrogen (mg/l) [j]	1	40 CFR Part 432 Subpart K	103	NA	147	1/week	24-Hr Comp
Total Nitrogen (mg/l/Month) [f] [g] [h]	2		NL	NA	NA	1/Month	24-Hr Comp
Total Nitrogen Year to Date (mg/l) [f] [g] [h]	2		NA	NA	NL	1/month	Calculated
Total Nitrogen Calendar Year (mg/l) [g] [h]	2	Based on 6 mg/l TN and design flow = 1.25 MGD	6.0	NA	NA	1/month	Calculated

5-2

PARAMETER & UNITS	BASIS FOR LIMITS	MULTIPLIER OR PRODUCTION	EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			MONTHLY AVERAGE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Dissolved Oxygen (mg/l)	2		NA	6.5	NA	1/week	Grab
Total Residual Chlorine(TRC) (mg/l) [c] [d]	2		.0080	NA	.016	1/day	Grab
Total Recoverable Copper (ug/l)	2		16	NA	22	1/week	24 hr Comp
Whole Effluent Toxicity TUc[e]	2		NA	NA	1.724	1/3 months	24-hr Comp
Fecal Coliform(N/CML) [c] [k]	2		126	NA	NA	1/week	Grab

NA = NOT APPLICABLE; **NL** = NO LIMIT, MONITORING REQUIREMENT ONLY

1/3 Months = In accordance with the following schedule: 1st quarter (January 1 - March 31); 2nd quarter (April 1 - June 30); 3rd quarter (July 1 - September 30); 4th quarter (October 1 - December 31).

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

In addition to any Total Nitrogen or Total Phosphorus concentration limits listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN 50005, enforceable under General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

[a] Ammonia limitations are effective for the winter months of November 1 through April 30.
[b] Ammonia limitations are effective for the summer months of May 1 through October 31.
[c] See Part I.B. For Alternative Disinfection Special Condition Language.
[d] Total Residual Chlorine shall be monitored and reported, as required, at any time chlorine is used for disinfection (ie. when the ultraviolet radiation (UV) disinfection system is non-operational, undergoing maintenance or otherwise malfunctioning).
[e] See Part I.C. for WET limitations and monitoring requirements.
[f] See Parts I.D.6. and I.D.7. for quantification levels and reporting requirements.
[g] See Part I.D.4. for Nutrient Reporting Calculations
[h] Total Nitrogen, which is the sum of Total Kjeldahl Nitrogen and Nitrates plus Nitrites, shall be derived from the results of those tests.
[i] Annual average limitation, based on a calculation of all samples collected during the calendar year.
[j] Interim Federal Effluent Guideline limit with expiration date of December 31, 2010.
[k] Fecal Coliform monthly average is calculated as a geometric mean.

The basis for the limitations codes are:

1. Technology (e.g., Federal Effluent Guidelines)40 CFR Part 432, Subpart K "Poultry First Processors"
2. Water Quality Standards (9 VAC 25-260 et. seq.), Nutrient Regulations
3. Best Professional Judgment

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 003, 004
Outfall Description: (storm water runoff from parking lots, roof drains and grass areas not associated with regulated industrial activity)
SIC CODE: 2015

THESE OUTFALLS SHALL CONTAIN ONLY STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO CHEMICAL MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS. SEE PART I.E. FOR STORM WATER MANAGEMENT CONDITIONS THAT MAY APPLY.

ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING RATIONALE/SUITABLE DATA/ ANTIDEGRADATION/ANTIBACKSLIDING

Tyson Foods, Incorporated
Reissuance of VPDES Permit No. VA0004049
Basis for Effluent Limitations and Monitoring Requirements

The reissuance of this permit will address one process wastewater point source discharge **(outfall 001)** comprised of rendering, hatchery, process, sanitary waste and storm water runoff from around the rendering facility, and two non-regulated storm water point source discharges **(outfalls 003, 004)**. All process water and contaminated storm water from the rendering area is collected, treated and conveyed to outfall 001. Approximately 200,000 gallon/day of treated wastewater is recycled back to rendering for reuse. Ultimately, direct discharge to State waters of treated process water from outfall 001 has averaged 0.86 MGD for the past 3 years (DMR data). The wastewater treatment plant upgrade (BNR) for compliance with nutrient loading limitations is based on a hydraulic design flow of 1.25 MGD.

Additionally, the bermed storm water pond (Outfall 002) is rather simplistic and is being modified to store contaminated storm water without discharge to state waters. This reissuance will require a minimum freeboard of 2 feet and prohibit any overflow/discharge from the storage pond. This is change is in accordance with a request from the company to eliminate outfall 002, by letter dated June 9, 2010.

The process wastewater effluent limitations in this permit are based on Final Rule Federal Effluent Guidelines for the Poultry Industry 40 CFR Part 432 Subpart K "Poultry First Processing" category, Nutrient Regulations and calculated nutrient wasteload allocations based on receiving stream, VA State Water Quality Standards and Criteria, Best Professional Judgment (BPJ), facility data review and, STORET information. The Live Weight Kill (LWK) production is 280-320 million pounds per year.

EPA Final Rule for Federal Effluent Guidelines for the Poultry Industry, 40 CFR Part 432 were approved on September 8, 2004. These ELG's address **BOD, TSS, Oil & Grease** concentrations and the equivalent mass loading limits have been calculated based on the LTA flow of 0.86 MGD. **Total Nitrogen** numeric limitations for maximum monthly average and daily maximum are also addressed in 40 CFR and will be carried over until December 31, 2010, then, on January 1, 2011, calculated nutrient limits will become effective in accordance with the approved site-specific facility Basis of Design. New Technology has been installed as a response to the Chesapeake Bay Program waste load allocation. The new technology will enable Tyson to meet the new total phosphorus concentration of 0.3 mg/l. Site specific waste load allocation limit (Maximum lb/year) will not be included in this permit but rather in the Nutrient General Permit (VAN050005) issued to Tyson Foods; effective date January 1, 2007 with an expiration date of December 21, 2011.

The mass limits for all parameters in this permit will change accordingly with the change in flows to the stream. Additionally, **TSS** and **BOD** mass loading limits will be more stringent than those currently listed in the Eastern Shore Water Quality Management Plan (ESWQMP). Whole Effluent Toxicity (WET) testing data have been evaluated to determine appropriate monitoring for toxics.

Tiered **Ammonia** limits will continue in this permit. The facility treatment plant is currently meeting limits. The limits were previously developed using site specific data and recommendations from staff in Richmond.

Nutrients are monitored and limited in this permit based on Guidance Memorandum(GM)07-2008 dated May 16, 2007 "Permitting Considerations for Facilities in the Chesapeake Bay Watershed" and subsequent GM07-2008 addendum and amendments dated July 24, 2007, October 23, 2007 and April 9, 2009, 9 VAC 25-40 (Policy for Nutrient Enriched Waters), 9 VAC 25-720 (Water Quality Management Plan), § 62.1-44.19:15 of the Code of Virginia (as of July 1, 2005) establishing treatment technology and offset requirements for new and expanded facilities in the Chesapeake Bay watershed) and 9 VAC 25-820, General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia. These regulation and policy guidance documents address overall concern for nutrient sensitive waters. **Total Phosphorus** and **Total Nitrogen** (concentrations) are monitored and reported monthly and annually. In addition, **Nitrites+Nitrates and Total Kjelddal Nitrogen** are reported individually and the sum of both are reported as **Total Nitrogen.**

Ultraviolet Radiation (UV) will be the primary method of disinfection in the WWTP upgrade system. Chlorination will be available as a back-up. However, the UV system may not be complete at the time this permit is reissued, therefore "Additional Total Residual Chlorine Limitations and Monitoring Requirements" language has been included in the special conditions. Total Residual Chlorine limits will remain as in the previous permit based on WQS/WLA Model. **Fecal Coliform** is monitored and limited as this is a poultry slaughtering operation; flows also include a sanitary contribution of approximately 11,000 gallons per day to the treatment plant (BPJ based on Permit regulation 9 VAC 25-260-170 Fecal Coliform bacteria and other waters, and TMDL listing for Holdens Creek, Sandy Bottom Branch and Unnamed Tributary to Sandy Bottom Branch). TMDL WLA is being met with permit limit (see email from Allan Brockenbough dated 8-17-10).

In 1999, **Total Recoverable Copper** limits for freshwater were developed using 90% data from a STORET station in the receiving stream and site specific data. The copper limit (12 ug/l average, 17 ug/l maximum) became effective on January 5, 2003. In 2005 the company requested a site specific metal translator study for copper; a proposal was submitted and approved; sampling commenced in the 3rd quarter 2005. The conclusion of the study resulted in a permit modification on June 28, 2006 for incorporation of approved, revised copper limits (average 16 ug/l, maximum 22 ug/l).

Whole Effluent Toxicity (WET) is monitored and limited (1.724 TUc) at outfall 001. The quarterly chronic toxicity testing shall continue using **Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* (C.d).** All data have been reviewed and utilized for determination of continued toxics monitoring.

Permit sample frequency is based on Permit Manual guidance for discharge flows "greater than 0.5 MGD to less than 2.0 MGD", guidance memos, and an IWC greater than 1%. The long term average flow used in development of mass loading limits is **0.86 MGD** (DMR data and 2C application data). Frequency for metals is recommended at 1/week, nutrients at 1/month and 1/year, and most other parameters at 1/week. Monitoring exception for chlorine which is 1/day based on "nature of the waste", potential for pathogens in the wastewater and "chlorine advice" memo.

Outfall 002 - DELETED

Tyson Foods, Incorporated

Basis for Effluent Limitations and Monitoring Requirements

Outfalls 003 and 004 are new to the permit and address storm water flows not associated with an industrial activity. Outfall 003 drains 240,000 sq ft of employee parking & roof drains and 70,000 sq ft of grass and Outfall 004 drains 40,000 sq feet of employee parking and roof drainage and 22,500 sq ft of grass. There are no monitoring requirements associated with this outfall.

Outfall 001

FLOW (MGD): No limit, however monitoring and reporting is required. Monitoring frequency is continuous by I.T.R sample. Permit manual guidance.

pH: 6.0 SU min - 9.0 SU max, 1/day by a grab sample. BPJ for the protection of water quality.

BOD5: 16 mg/l mo. avg. - 26 mg/l daily max, 2/week by a 24-hr composite sample. In accordance with 40 CFR Part 432, Subpart K, "Poultry First Processors" Final Rule issued September 8, 2004.

BOD5: 115 lb/d mo. avg - 187 lb/d daily max, 2/week by a 24-hr composite sample. BPJ for the protection of WQ and calculations in conjunction with 40 CFR Part 432, Subpart K concentration limits and LTA flow of 0.86 MGD.

TSS: 20 mg/l mo. avg. - 30 mg/l daily max, 2/week by a 24-hr composite sample. In accordance with 40 CFR Part 432, Subpart K, "Poultry First Processors" Final Rule issued September 8, 2004.

TSS: 143 lb/d mo. avg - 215 lb/d daily max, 2/week by a 24-hr composite sample. BPJ for the protection of WQ and 40 CFR Part 432, Subpart K concentration limits and LTA flow of 0.86 MGD.

O&G: 8 mg/l mo. avg - 14 mg/l daily max, 1/week by a grab sample. In accordance with 40 CFR Part 432, Subpart K, "Poultry First Processors" Final Rule issued September 8, 2004.

O&G: 57 lb/d mo. avg - 100 lb/d daily max, 1/week by a grab sample. BPJ for the protection of WQ and calculations in conjunction with 40 CFR Part 432, Subpart K concentration limits and LTA flow of 0.86 MGD.

NH3-N:
(Nov-Apr) 1.7 mg/l mo. avg - 2.7 mg/l daily max, 1/week by a 24-Hr composite sample. Based on WQS and WLA/WQS Model Run.

NH3-N:
(May-Oct) 0.7 mg/l mo. avg - 1.3 mg/l daily max, 1/week by a 24-Hr Composite sample. Based on WQS and WLA/WQS Model Run.

Nitrate + Nitrite (as N) (mg/l) AND **Total Kjeldahl Nitrogen (mg/l):**
No limit however monitoring and reporting is required 1/month by a 24 hr composite. Based on BPJ for the protection of water quality and 9 VAC 25-820, General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia and Guidance Memo No. 04-2017 "Nutrient Monitoring and Maximum Annual Loads for VPDES Permitted Facilities on the DEQ Chesapeake Bay Program's List of Significant Discharges".

Tyson Foods, Incorporated

Basis for Effluent Limitations and Monitoring Requirements

Total Phosphorus (mg/l): **(Interim limits until 12/31/10)** 2.0 mg/l mo. avg – NL daily max, 1/week by a 24hr composite. Based on Nutrient Enriched Waters Policy, WQS.

Total Phosphorus (mg/l/month):
No limit monthly average, 1/month by 24-hr composite. Based on facility specific basis of design to meet nutrient standards for significant discharges to the Chesapeake Bay.

Total Phosphorus (mg/l) (Year-to-Date): no limit maximum, 1/month by a calculation. Based on BPJ for the protection of water quality and Guidance Memo No. 04-2017 "Nutrient Monitoring and Maximum Annual Loads for VPDES Permitted Facilities on the DEQ Chesapeake Bay Program's List of Significant Discharges".

Total Phosphorus (mg/l) (calendar year):
0.3 mg/l calendar year average, 1/year by a calculation. Based on BPJ for the protection of water quality and Guidance Memo No. 04-2017 "Nutrient Monitoring and Maximum Annual Loads for VPDES Permitted Facilities on the DEQ Chesapeake Bay Program's List of Significant Discharges" and WWTP upgrade design (BNR) to meet Chesapeake Bay requirements.

Total Nitrogen (mg/l): 103 mg/l mo. avg, 147 mg/l daily max, 1/week by a 24-hr composite. In accordance with 40 CFR Part 432, Subpart K, "Poultry First Processors" Final Rule issued September 8, 2004.

Total Nitrogen (mg/l/month):
No limit monthly average, 1/month by 24-hr composite. Based on facility specific basis of design to meet nutrient standards for significant discharges to the Chesapeake Bay.

Total Nitrogen (mg/l) (Year-to-Date): no limit maximum, 1/month by a calculation. Based on BPJ for the protection of water quality and Guidance Memo No. 04-2017 "Nutrient Monitoring and Maximum Annual Loads for VPDES Permitted Facilities on the DEQ Chesapeake Bay Program's List of Significant Discharges".

Total Nitrogen (mg/l) (calendar year):
6.0 mg/l calendar year average, 1/year by a calculation. Based on BPJ for the protection of water quality and Guidance Memo No. 04-2017 "Nutrient Monitoring and Maximum Annual Loads for VPDES Permitted Facilities on the DEQ Chesapeake Bay Program's List of Significant Discharges" and WWTP upgrade design (BNR) to meet Chesapeake Bay requirements..

Tyson Foods, Incorporated
Basis for Effluent Limitations and Monitoring Requirements

D.O.: 6.5 mg/l min, 1/week by a grab sample. Based on Stream Sanitation Analysis, DO Sag Model, WQS

Total Residual Chlorine: .0080 mg/l mo. avg - .016 mg/l daily maximum, 1/day by a grab sample. Based on WQS, WLA/WQS Model Run..

Fecal Coliform: 126 N/CML monthly average, 1/week by a grab sample. Based on BPJ for the protection of water quality and Shellfish waters, and Guidance Memo #03-2007 "Implementation of Bacteria Standards in VPDES Permits".

Total Recoverable Copper: 16 ug/l mo. avg - 22 ug/l daily max, 1/week by a 24hr composite. Based on Water Quality Standards, WLA/WQS Model Run (1999)

Whole Effluent Toxicity (WET): 1.724 TUc maximum, 1/3months by a 24hr-composite. Based on WET data, Permit Regulation, WQS.

Outfalls 003 and 004

The flows through these outfalls consist of storm water not associated with an industrial activity, specifically from agricultural fields, parking lots and roof drains. **No monitoring will be required**.

Quantification Limits

From: Brockenbrough,Allan

Sent: Wednesday, August 11, 2004 8:36 AM

To: McConathy,James; Newman,Allen; Fowler,Keith; Linderman,Curtis; VanSoestbergen,Jon; Foster,Kip; Goode,Robert; Faha,Thomas

Cc: Purcell,William; Ziomek,Elizabeth

Subject: RE: Nutrient QLs

Jim-

We've been struggling with this issue a bit. Ordinarily, QL's only need to be low enough to demonstrate compliance with a concentration limit. In this case, we want to accurately determine compliance with yearly loading limits and maintain accurate nutrient reduction data for the Chesapeake Bay Program. In that regard we want to avoid the whole <QL/zero loading issue if we can. Our approach is to require a QL that is lower than the lowest values we are likely to achieve at a given facility. That way all the results are "real" and can be used with confidence. We suggest that the following QL's be used for the vast majority of facilities:

Total Phosphorus 0.10 mg/L

Ortho-Phosphorus 0.10 mg/L

Nitrate-Nitrite 0.50 mg/L

Total Kjeldahl Nitrogen 0.50 mg/L [This QL was defined in a memo (12-4-00) from Dale]

Thompson, Debra (DEQ)

From: Brockenbrough, Allan (DEQ)
Sent: Tuesday, August 17, 2010 11:58 AM
To: Thompson, Debra (DEQ)
Cc: Daub, Elleanore (DEQ); Britt, Kristie (DEQ); Everton, Roger (DEQ)
Subject: RE: Tyson Water Quality and TMDL Information

Debra-

I spoke with Fred and we have no problem characterizing the limit of 126 #/100 ml as being consistent with Tyson's WLA under the TMDL. Forget about my comments on the calculation. I was looking at figures on the wrong page of the TMDL. 4.8×10^9 is the correct WLA.

Give me a call if you have any questions.

Allan

From: Thompson, Debra (DEQ)
Sent: Tuesday, August 17, 2010 10:17 AM
To: Brockenbrough, Allan (DEQ)
Cc: Daub, Elleanore (DEQ)
Subject: Tyson Water Quality and TMDL Information

Allan, Attached is information regarding Fecal Coliform TMDL and water quality assessment for Sandy Bottom Branch presented to Permits for consideration during reissuance process.

Thought this info may be helpful for our conf call this morning, Debbie

Debra L. Thompson

Environmental Engineer Senior

VA Department of Environmental Quality

5636 Southern Boulevard

Virginia Beach, VA 23462

(757) 518-2162 phone

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
METALS													
Antimony			4300										
Arsenic													
Arsenic III	69	36											
Barium													
Cadmium	43	9.3											
Chromium III													
Chromium VI	1100	50											
Copper	5.9	3.8											
Iron													
Lead	240	9.3											
Manganese													
Mercury	2.1	.025	.053										
Nickel	75	8.3	4600										
Selenium	300	71	11000										
Silver	2.3												
Zinc	95	86											
PESTICIDES/PCB'S													
Aldrin	1.3	.13	.0014										
Chlordane	.09	.004	.0059										

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
Chlorpyrifos (Dursban)	.011	.0056											
DDD			.0084										
DDE			.0059										
DDT	.13	.001	.0059										
Demeton		.1											
2,4-dichloro-phenoxy acetic acid (2,4-D)													
Dieldrin	.71	.0019	.0014										
Endosulfan	.034	.0087	240										
Endrin	.037	.0023	.81										
Guthion		.01											
Heptachlor	.053	.0036	.0021										
Hexachloro-cyclohexane (Lindane)	.16	.01	25										
Kepone		0											
Malathion		.1											
Methoxychlor		.03											
Mirex		0											
Parathion													
PCB-1242		.03	.00045										
PCB-1254		.03	.00045										
PCB-1221		.03	.00045										
PCB-1232		.03	.00045										

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
PCB-1248		.03	.00045										
PCB-1260		.03	.00045										
PCB-1016		.03	.00045										
Toxaphene	.21	.0002	.0075										
2-(2,4,5-Trichlor-phenoxy) propionic acid (Silvex)													
BASE NEUTRAL EXTRACTABLES													
Acenaphthene			2700										
Anthracene			110000										
Benzo(a) anthracene			.49										
Benzo(b) fluoranthene			.49										
Benzo(k) fluoranthene			.49										
Benzo(a)pyrene			.49										
Butyl benzyl phthalate			5200										
Chrysene			.49										
Dibenz(a,h) anthracene			.49										
Dibutyl phthalate			12000										
1,2-Dichloro-benzene			17000										

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
1,3-Dichloro-benzene			2600										
1,4-Dichloro-benzene			2600										
Diethyl phthalate			120000										
Di-2-Ethylhexyl phthalate			59										
2,4-Dinitro-toluene			91										
Fluoranthene			370										
Fluorene			14000										
Indeno (1,2,3-cd) pyrene			.49										
Isophorone			490000										
Nitrobenzene			1900										
Pyrene			11000										
1,2,4 Trichloro-benzene			950										
VOLATILES													
Benzene			710										
Bromoform			3600										
Carbon Tetrachloride			45										
Chlorodibromo-methane			57000										
Chloroform			4700										

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
Dichloromethane			16000										
Dichlorobromo-methane			460										
1,2-Dichloro-ethane			990										
1,1-Dichloro-ethylene			17000										
Ethylbenzene			29000										
Monochlorobenzene			21000										
Tetrachloro-ethylene			3500										
Toluene			200000										
Trichloro-ethylene			810										
Vinyl Chloride			5300										
ACIDS EXTRACTABLES													
2-Chlorophenol			400										
2,4 Dichlorophenol			790										
2,4 Dimethylphenol			2300										
Pentachloro-phenol	13	7.9	82										
Phenol			4600000										
2,4,6-Trichloro-phenol			65										

ANTIDEGRADATION CALCULATIONS/BASELINES

All values in ug/l unless otherwise noted.

PARAMETER	SALTWATER CRITERIA (SW)		OTHER SURFACE WATERS CRITERIA	INSTREAM BACKGROUND DATA (Expected Value*)	ANTIDEGRADATION BASELINE			WATER QUALITY WASTE LOAD ALLOCATION (WQ-WLA)			ANTIDEGRADATION WASTE LOAD ALLOCATION (AD-WLA)		
	ACUTE	CHRONIC			ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH	ACUTE	CHRONIC	HUMAN HEALTH
MISCELLANEOUS													
Ammonia (as NH3-N)	**	**											
Chlorides													
Chlorine, Total Residual	13	7.5											
Cyanide	1	1	215000										
Dioxin			1.2 (2)										
Fecal Coliform (N/CML)													
Foaming Agents (as MBAS)													
Hydrogen Sulfide		2											
Nitrate													
Sulfate													
Total Dissolved Solids													
Tributyltin	.36	.001											

* -- The expected value is calculated by the WLA computer model.

** -- See ammonia tables in the Water Quality Standards

Facility Name		Outfall No	Parameter Description	qavg	Lim-Avg	qmax	Lim-Max	cmin	Lim-Min	cavg	Lim-Avg	cmax	Lim-Max
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	FLOW	1.01	NL	1.39	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	FLOW	1.01	NL	1.32	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	FLOW	.94	NL	1.19	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	FLOW	.87	NL	1.23	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	FLOW	.86	NL	1.35	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	FLOW	.84	NL	1.18	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	FLOW	.86	NL	1.2	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	FLOW	.82	NL	1.2	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	FLOW	.87	NL	1.21	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	FLOW	.81	NL	1.12	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	FLOW	.84	NL	1.15	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	FLOW	.62	NL	1.17	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	FLOW	.79	NL	1.04	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	FLOW	.89	NL	1.2	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	FLOW	.90	NL	1.10	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	FLOW	.84	NL	1.17	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2008	001	FLOW	.90	NL	1.24	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	FLOW	.93	NL	1.12	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	FLOW	.84	NL	1.06	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	FLOW	.74	NL	1.01	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	FLOW	.70	NL	.93	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	FLOW	0.82	NL	1.20	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	FLOW	.68	NL	1.11	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	FLOW	.80	NL	1.2	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	FLOW	.81	NL	1.55	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	FLOW	.87	NL	1.15	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	FLOW	.84	NL	1.17	NL		*********		*********		*********

6-12

Tyson Foods Inc - Temperanceville	10-Apr-2009	001	FLOW	.84	NL	1.19	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2009	001	FLOW	.91	NL	1.19	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	FLOW	.85	NL	1.14	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	FLOW	.98	NL	1.28	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	FLOW	.90	NL	1.20	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	FLOW	.92	NL	1.20	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	FLOW	.96	NL	1.60	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	FLOW	.93	NL	1.25	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	FLOW	.86	NL	1.22	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	FLOW	.90	NL	1.25	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	FLOW	.76	NL	1.22	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	FLOW	.99	NL	1.44	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	PH		*********		*********	7.0	6.0		*********	7.5	9.0
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	PH		*********		*********	6.7	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	PH		*********		*********	6.9	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	PH		*********		*********	7.0	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-May-2007	001	PH		*********		*********	6.8	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	PH		*********		*********	6.8	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	PH		*********		*********	6.6	6.0		*********	7.6	9.0
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	PH		*********		*********	6.6	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	PH		*********		*********	6.9	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	PH		*********		*********	6.7	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	PH		*********		*********	6.4	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	PH		*********		*********	6.5	6.0		*********	7.2	9.0
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	PH		*********		*********	6.9	6.0		*********	7.3	9.0
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	PH		*********		*********	6.9	6.0		*********	7.2	9.0
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	PH		*********		*********	7.0	6.0		*********	7.2	9.0
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	PH		*********		*********	6.6	6.0		*********	7.2	9.0

6-19

Tyson Foods Inc - Temperanceville	10-May-2008	001	PH		*********		*********	6.2	6.0		*********	7.1	9.0
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	PH		*********		*********	6.6	6.0		*********	7.1	9.0
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	PH		*********		*********	6.6	6.0		*********	7.3	9.0
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	PH		*********		*********	6.4	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	PH		*********		*********	6.4	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	PH		*********		*********	6.5	6.0		*********	7.5	9.0
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	PH		*********		*********	6.5	6.0		*********	7.9	9.0
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	PH		*********		*********	6.2	6.0		*********	7.9	9.0
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	PH		*********		*********	6.4	6.0		*********	7.5	9.0
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	PH		*********		*********	6.6	6.0		*********	7.1	9.0
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	PH		*********		*********	6.4	6.0		*********	7.3	9.0
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	PH		*********		*********	6.7	6.0		*********	7.2	9.0
Tyson Foods Inc - Temperanceville	10-May-2009	001	PH		*********		*********	6.4	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	PH		*********		*********	6.1	6.0		*********	7.9	9.0
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	PH		*********		*********	6.5	6.0		*********	8.0	9.0
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	PH		*********		*********	6.4	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	PH		*********		*********	6.3	6.0		*********	7.5	9.0
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	PH		*********		*********	6.6	6.0		*********	7.6	9.0
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	PH		*********		*********	6.5	6.0		*********	7.7	9.0
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	PH		*********		*********	6.7	6.0		*********	7.4	9.0
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	PH		*********		*********	6.5	6.0		*********	7.5	9.0
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	PH		*********		*********	6.8	6.0		*********	7.3	9.0
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	PH		*********		*********	6.7	6.0		*********	7.2	9.0
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	BOD5	<12	147	93	239		*********	<2	16	12	26
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	BOD5	<44	147	137	239		*********	<7	16	20	26
Tyson Foods Inc - Temperanceville	10-May-2007	001	BOD5	<17	147	128	239		*********	<2	16	16	26

Tyson Foods Inc - Temperanceville	10-Jun-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	BOD5	<13	147	104	239		*********	<3	16	20	26
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	BOD5	<4	147	35	239		*********	<.6	16	5	26
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	BOD5	<9	147	37	239		*********	<1	16	5	26
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-May-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	BOD5	<10	147	82	239		*********	<2	16	13	26
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	BOD5	<16	147	43	239		*********	<3	16	8	26
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	BOD5	<5	147	44	239		*********	<.8	16	6	26
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	BOD5	<5	147	38	239		*********	<.6	16	5	26
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-May-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26

Tyson Foods Inc - Temperanceville	10-Oct-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	BOD5	<9	147	75	239		*********	<.9	16	7	26
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	BOD5	<QL	147	<QL	239		*********	<QL	16	<QL	26
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	BOD5	<11	147	49	239		*********	<2	16	7	26
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	BOD5	<22	147	91	239		*********	<3	16	12	26
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	TSS	37	167	56	275		*********	5	20	7	30
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	TSS	35	167	52	275		*********	4	20	7	30
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	TSS	50	167	98	275		*********	6	20	11	30
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	TSS	50	167	80	275		*********	7	20	10	30
Tyson Foods Inc - Temperanceville	10-May-2007	001	TSS	35	167	68	275		*********	5	20	9	30
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	TSS	22	167	43	275		*********	3	20	6	30
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	TSS	21	167	37	275		*********	3	20	4	30
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	TSS	<19	167	34	275		*********	<3	20	7	30
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	TSS	<10	167	25	275		*********	<1	20	3	30
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	TSS	16	167	38	275		*********	2	20	6	30
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	TSS	<7	167	18	275		*********	<.9	20	3	30
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	TSS	53	167	163	275		*********	9	20	23	30
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	TSS	<19	167	62	275		*********	<3	20	7	30
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	TSS	17	167	42	275		*********	3	20	5	30
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	TSS	26	167	65	275		*********	4	20	7	30
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	TSS	24	167	56	275		*********	4	20	10	30
Tyson Foods Inc - Temperanceville	10-May-2008	001	TSS	21	167	41	275		*********	3	20	5	30
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	TSS	16	167	27	275		*********	2	20	4	30
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	TSS	19	167	35	275		*********	3	20	5	30
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	TSS	11	167	17	275		*********	2	20	3	30
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	TSS	36	167	113	275		*********	6	20	15	30
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	TSS	47	167	114	275		*********	7	20	21	30

Tyson Foods Inc - Temperanceville	10-Nov-2008	001	TSS	<37	167	68	275		*********	<6	20	14	30
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	TSS	20	167	41	275		*********	4	20	8	30
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	TSS	21	167	38	275		*********	4	20	7	30
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	TSS	34	167	60	275		*********	4	20	6	30
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	TSS	27	167	64	275		*********	4	20	8	30
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	TSS	27	167	39	275		*********	4	20	6	30
Tyson Foods Inc - Temperanceville	10-May-2009	001	TSS	18	167	25	275		*********	3	20	3	30
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	TSS	20	167	42	275		*********	3	20	6	30
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	TSS	20	167	31	275		*********	3	20	5	30
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	TSS	19	167	35	275		*********	3	20	7	30
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	TSS	12	167	22	275		*********	2	20	3	30
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	TSS	20	167	28	275		*********	3	20	4	30
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	TSS	<19	167	34	275		*********	<3	20	5	30
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	TSS	24	167	39	275		*********	4	20	6	30
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	TSS	26	167	31	275		*********	4	20	4	30
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	TSS	41	167	74	275		*********	5	20	7	30
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	TSS	78	167	108	275		*********	9	20	13	30
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-May-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016

Tyson Foods Inc - Temperanceville	10-Dec-2007	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-May-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-May-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	CL2, TOTAL		*********		*********		*********	<QL	.0080	<QL	.016

Tyson Foods Inc - Temperanceville	10-Jan-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	COLIFORM, FECAL		*********		*********		*********	<5	126		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	COLIFORM, FECAL		*********		*********		*********	<3	126		*********
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	COLIFORM, FECAL		*********		*********		*********	3	126		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	COLIFORM, FECAL		*********		*********		*********	<5	126		*********
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	COLIFORM, FECAL		*********		*********		*********	<3	126		*********
Tyson Foods Inc - Temperanceville	10-May-2008	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	COLIFORM, FECAL		*********		*********		*********	<3	126		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	COLIFORM, FECAL		*********		*********		*********	4	126		*********
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	COLIFORM, FECAL		*********		*********		*********	3	126		*********
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	COLIFORM, FECAL		*********		*********		*********	<4	126		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	COLIFORM, FECAL		*********		*********		*********	10	126		*********
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	COLIFORM, FECAL		*********		*********		*********	5	126		*********
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	COLIFORM, FECAL		*********		*********		*********	<3	126		*********

Tyson Foods Inc - Temperanceville	10-May-2009	001	COLIFORM, FECAL		*********		*********		*********	<2	126		*********
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	COLIFORM, FECAL		*********		*********		*********	5	126		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	COLIFORM, FECAL		*********		*********		*********	<4	126		*********
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	COLIFORM, FECAL		*********		*********		*********	4	126		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	COLIFORM, FECAL		*********		*********		*********	<1	126		*********
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	COLIFORM, FECAL		*********		*********		*********	<3	126		*********
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	COLIFORM, FECAL		*********		*********		*********	26	126		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	COLIFORM, FECAL		*********		*********		*********	2	126		*********
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	COLIFORM, FECAL		*********		*********		*********	<5	126		*********
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	COLIFORM, FECAL		*********		*********		*********	5	126		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	DO		*********		*********	8.1	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	DO		*********		*********	8.2	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	DO		*********		*********	8.8	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	DO		*********		*********	8.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	DO		*********		*********	7.8	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	DO		*********		*********	7.5	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	DO		*********		*********	7.2	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	DO		*********		*********	7.0	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	DO		*********		*********	7.0	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	DO		*********		*********	7.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	DO		*********		*********	7.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	DO		*********		*********	8.4	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	DO		*********		*********	8.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	DO		*********		*********	8.5	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	DO		*********		*********	8.1	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	DO		*********		*********	8.1	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2008	001	DO		*********		*********	7.6	6.5		*********		*********

Tyson Foods Inc - Temperanceville	10-Jun-2008	001	DO		*********		*********	7.6	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	DO		*********		*********	7.0	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	DO		*********		*********	7.0	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	DO		*********		*********	7.4	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	DO		*********		*********	7.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	DO		*********		*********	7.9	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	DO		*********		*********	7.6	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	DO		*********		*********	8.1	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	DO		*********		*********	8.7	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	DO		*********		*********	8.7	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	DO		*********		*********	8.4	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2009	001	DO		*********		*********	8.2	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	DO		*********		*********	8.0	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	DO		*********		*********	7.9	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	DO		*********		*********	7.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	DO		*********		*********	6.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	DO		*********		*********	7.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	DO		*********		*********	7.1	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	DO		*********		*********	8.3	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	DO		*********		*********	8.8	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	DO		*********		*********	7.9	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	DO		*********		*********	9.7	6.5		*********		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.5	2.0		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.6	2.0		*********
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.4	2.0		*********

Tyson Foods Inc - Temperanceville	10-Feb-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.1	2.0		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-May-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.3	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.3	2.0		*********
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.30	2.0		*********
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.9	2.0		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.5	2.0		*********
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	<.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.3	2.0		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.4	2.0		*********
Tyson Foods Inc - Temperanceville	10-May-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.3	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.6	2.0		*********
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.4	2.0		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.7	2.0		*********
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.9	2.0		*********
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.8	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.4	2.0		*********
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	.8	2.0		*********
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********	1	2.0		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	67	103	91	147
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	53	103	74	147

Tyson Foods Inc - Temperanceville	10-Oct-2007	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	82	103	111	147
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	100	103	120	147
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	107	103	114	147
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	96	103	123	147
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	37	103	58	147
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	24	103	28	147
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	30	103	41	147
Tyson Foods Inc - Temperanceville	10-May-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	65	103	96	147
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	94	103	100	147
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	72	103	80	147
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	42	103	61	147
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	56	103	105	147
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	38	103	55	147
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	36	103	57	147
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	64	103	107	147
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	83	103	106	147
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	92	103	104	147
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	94	103	106	147
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	94	103	102	147
Tyson Foods Inc - Temperanceville	10-May-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	123	103	138	147
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	87	103	102	147
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	78	103	107	147
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	80	103	98	147
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	70	103	78	147
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	59	103	70	147
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	58	103	79	147
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	92	103	118	147
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	90	103	95	147

Tyson Foods Inc - Temperanceville	10-Feb-2010	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	101	103	126	147
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	NITROGEN, TOTAL (AS N)		*********		*********		*********	91	103	117	147
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	2	NL		*********		*********	.17	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	1	NL		*********		*********	.14	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	2	NL		*********		*********	.2	NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	2	NL		*********		*********	.2	NL		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	3	NL		*********		*********	.4	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	3	NL		*********		*********	.4	NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	PHOSPHORUS, IN ORTHOPHOSPHATE	4	NL		*********		*********	.5	NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	TKN (N-KJEL)		*********		*********		*********	13	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	TKN (N-KJEL)		*********		*********		*********	2	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	TKN (N-KJEL)		*********		*********		*********	1	NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	TKN (N-KJEL)		*********		*********		*********	2	NL		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	TKN (N-KJEL)		*********		*********		*********	2	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	TKN (N-KJEL)		*********		*********		*********	3	NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	TKN (N-KJEL)		*********		*********		*********	1	NL		*********
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	TKN (N-KJEL)		*********		*********		*********	2	NL		*********
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	TKN (N-KJEL)		*********		*********		*********	<QL	NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	TKN (N-KJEL)		*********		*********		*********	<QL	NL		*********
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	TKN (N-KJEL)		*********		*********		*********	<QL	NL		*********
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	TKN (N-KJEL)		*********		*********		*********	<QL	NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	TKN (N-KJEL)		*********		*********		*********	<QL	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-May-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********

Tyson Foods Inc - Temperanceville	10-Aug-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	TKN (N-KJEL)		*********		*********		*********	<.4	NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-May-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	TKN (N-KJEL)		*********		*********		*********	.25	NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-May-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<3	16	12	22
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<11	16	22	22
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<4	16	17	22

Tyson Foods Inc - Temperanceville	10-Sep-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<3	16	10	22
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<3	16	13	22
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-May-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-May-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<4	16	21	22
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<6	16	25	22
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22

Tyson Foods Inc - Temperanceville	10-Jan-2010	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<QL	16	<QL	22
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	COPPER, TOTAL RECOVERABLE		*********		*********		*********	<3	16	12	22
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1	1.724
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1	1.724
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1	1.724
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	2.63	1.724
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.282	1.724
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.000	1.724
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.724	1.724
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.724	1.724
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.0	1.724
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.282	1.724
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	2.632	1.724
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	5.263	1.724
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	TOXICITY, FINAL, CHRONIC		*********		*********		*********		*********	1.000	1.724
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	NITRITE+NITRATE-N,TOTAL	187	NL		*********		*********	21	NL		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	NITRITE+NITRATE-N,TOTAL	259	NL		*********		*********	29	NL		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	NITRITE+NITRATE-N,TOTAL	206	NL		*********		*********	31	NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	NITRITE+NITRATE-N,TOTAL	168	NL		*********		*********	22	NL		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	NITRITE+NITRATE-N,TOTAL	431	NL		*********		*********	57	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	NITRITE+NITRATE-N,TOTAL	297	NL		*********		*********	40	NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	NITRITE+NITRATE-N,TOTAL	269	NL		*********		*********	34	NL		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.1	0.7	.4	1.3
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.3	0.7	1.0	1.3
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3

Tyson Foods Inc - Temperanceville	10-Nov-2007	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	.3	0.7	.5	1.3
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.05	0.7	.2	1.3
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.3	0.7	.5	1.3
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.3	0.7	.5	1.3
Tyson Foods Inc - Temperanceville	10-Nov-2008	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.3	0.7	.7	1.3
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<.2	0.7	.4	1.3
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	AMMONIA, AS N MAY-OCT		*********		*********		*********	<QL	0.7	<QL	1.3
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.1	1.7	.3	2.7
Tyson Foods Inc - Temperanceville	10-May-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.1	1.7	.4	2.7
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	AMMONIA, AS N NOV-APR		*********		*********		*********	1.1	1.7	1.6	2.7
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.2	1.7	.9	2.7
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.1	1.7	<.4	2.7
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.1	1.7	.2	2.7
Tyson Foods Inc - Temperanceville	10-May-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	.3	1.7	.6	2.7
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.1	1.7	.3	2.7
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.2	1.7	.5	2.7
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<.3	1.7	1	2.7
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7

Tyson Foods Inc - Temperanceville	10-Apr-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-May-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<QL	1.7	<QL	2.7
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	AMMONIA, AS N NOV-APR		*********		*********		*********	<1	1.7	2	2.7
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	OIL & GREASE	<3	73	10	128		*********	<1	8	5	14
Tyson Foods Inc - Temperanceville	10-May-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Aug-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Sep-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Oct-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Nov-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Dec-2007	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jan-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Feb-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Mar-2008	001	OIL & GREASE	<7	73	27	128		*********	<1	8	6	14
Tyson Foods Inc - Temperanceville	10-Apr-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-May-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jun-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jul-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Aug-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Sep-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Oct-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14

Tyson Foods Inc - Temperanceville	10-Nov-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Dec-2008	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jan-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Feb-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Mar-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Apr-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-May-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jun-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jul-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Aug-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Sep-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Oct-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Nov-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Dec-2009	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jan-2010	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Feb-2010	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Mar-2010	001	OIL & GREASE	<QL	73	<QL	128		*********	<QL	8	<QL	14
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	308	NL	675	*********		*********	33	103	70	147
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	272	NL	463	*********		*********	30	103	47	147
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	216	NL	255	*********		*********	33	103	42	147
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	180	NL	232	*********		*********	24	103	30	147
Tyson Foods Inc - Temperanceville	10-May-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	444	NL	583	*********		*********	59	103	77	147
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	320	NL	435	*********		*********	44	103	63	147
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	NITROGEN, TOTAL (AS N) (MONTHLY LOAD)	279	NL	372	*********		*********	35	103	48	147
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR		*********	107408	250000		*********		*********		*********

			YEAR)										
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	8432	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	14480	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	20060	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	33380	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	43300	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	NITROGEN, TOTAL (AS N) (CALENDAR YEAR)		*********	51670	250000		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	2	18		*********		*********	.24	2.0		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	2	18		*********		*********	.23	2.0		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	2	18		*********		*********	.2	2.0		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	3	18		*********		*********	.4	2.0		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	4	18		*********		*********	.5	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	4	18		*********		*********	.6	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	PHOSPHORUS, TOTAL (AS P) (MONTHLY LOAD)	4	18		*********		*********	.5	2.0		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	1990	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	62	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	118	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	211	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	331	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	PHOSPHORUS, TOTAL (AS P)		*********	455	4200		*********		*********		*********

			(CALENDAR YEAR)										
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)		*********	575	4200		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	9548	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	8432	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	6048	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	5580	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	13320	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	9920	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	NITROGEN, TOTAL (AS N) (YEAR-TO-DATE)		*********	8370	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	62	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Feb-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	62	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Mar-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	56	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	93	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-May-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	120	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jun-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	124	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	001	PHOSPHORUS, TOTAL (AS P) (YEAR-TO-DATE)		*********	120	NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc -	10-Apr-2008	002	FLOW		*********		NL		*********		*********		*********

6-32

Temperanceville													
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	FLOW		*********		NL		*********		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	PH		*********		*********		6.0		*********		9.0
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc -	10-Oct-2008	002	BOD5		*********		*********		*********		*********		NL

Temperanceville													
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	BOD5		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	TSS		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc -	10-Apr-2009	002	COLIFORM, FECAL		*********		*********		*********		NL		*********

Temperanceville													
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	COLIFORM, FECAL		*********		*********		*********		NL		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	DO		*********		*********		NL		*********		*********
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc -	10-Oct-2009	002	PHOSPHORUS,		*********		*********		*********		*********		NL

Temperanceville			TOTAL (AS P)										
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	PHOSPHORUS, TOTAL (AS P)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	NITROGEN, TOTAL (AS N)		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2007	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	OIL & GREASE		*********		*********		*********		*********		NL
Tyson Foods Inc -	10-Jan-2007	002	AMMONIA		*********		*********		*********		*********		NL

Temperanceville			NITROGEN										
Tyson Foods Inc - Temperanceville	10-Apr-2007	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2007	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2007	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2008	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2008	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2008	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2008	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2009	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Apr-2009	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jul-2009	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Oct-2009	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL
Tyson Foods Inc - Temperanceville	10-Jan-2010	002	AMMONIA NITROGEN		*********		*********		*********		*********		NL

Facility = Tyson Foods, Inc
Chemical = Ammonia (May-Oct)
Chronic averaging period = 30
WLAa = 11.68
WLAc = 2.61
Q.L. = .2
# samples/mo. = 4
# samples/wk. = 1

Summary of Statistics:

observations = 18
Expected Value = .185549
Variance = .012394
C.V. = 0.6
97th percentile daily values = .451520
97th percentile 4 day average = .308715
97th percentile 30 day average= .223782
< Q.L. = 12
Model used = BPJ Assumptions, Type 1 data

No Limit is required for this material

The data are:

0
0
0
0
0
0
0
0
0
0
0.3
0.1
0.3
0.05
0.3
0.3
0.3
0.2

Facility = Tyson Foods, Inc
Chemical = Ammonia (Nov-Apr)
Chronic averaging period = 30
WLAa = 17.16
WLAc = 2.61
Q.L. = .2
# samples/mo. = 4
# samples/wk. = 1

Summary of Statistics:

observations = 19
Expected Value = .179956
Variance = .011658
C.V. = 0.6
97th percentile daily values = .437908
97th percentile 4 day average = .299409
97th percentile 30 day average= .217036
< Q.L. = 13
Model used = BPJ Assumptions, Type 1 data

No Limit is required for this material

The data are:

0
0
0
0
0
0
0
0
0
0
0.1
0.1
1.1
0.2
0.1
0.3
0.2
0.3
1

ATTACHMENT 7

SPECIAL CONDITIONS RATIONALE

VPDES PERMIT PROGRAM
LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

B. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

Rationale: Required by Water Quality Standards, 9VAC 25-260-170, Fecal coliform bacteria; other waters. Also, 40 CFR 122.41(e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment in order to comply with the permit. This ensures proper operation of chlorination equipment to maintain adequate disinfection.

C. WET Schedule and Limitation

Rationale: Required by the State Water Control Law, Section 62.1-44.15 (3a) and the State's Water Quality Standards (9 VAC 25-260-20). In addition, the VPDES Permit Regulation, 9 VAC 25-31-220 D. and 40 CFR 122.44 (d) require limits necessary to meet water quality standards. In accordance with the VPDES Permit Regulation, 9 VAC 25-31-250, and 40 CFR 122.47, the permit may, when appropriate, specify a schedule of compliance leading to compliance with the Clean Water Act, laws and regulations. See Attachment 9 of this fact sheet for additional justification.

D. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1.a. Water Quality Standards Reopener

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-220 D requires effluent limitations to be established which will contribute to the attainment or maintenance of water quality criteria.

1.b. Nutrient Enriched Waters Reopener

Rationale: Significant portions of the Chesapeake Bay and its tributaries are listed as impaired on Virginia's 303(d) list of impaired waters for not meeting the aquatic life use support goal, and the draft 2004 Virginia Water Quality Assessment 305(b)/303(d) Integrated Report indicates that 83% of the mainstem Bay does not fully support this use support goal under Virginia's water quality assessment guidelines. Nutrient enrichment is cited as one of the primary causes for impairment.

Guidance Memorandum 04-2017 implements DEQ's best professional judgment decision to limit increases in nutrient loading from facilities listed on the Chesapeake Bay Program Significant Discharger List. Guidance Memorandum 04-2017 provides the basis for this decision and specifies the procedure for determining annual effluent limitations for these parameters for each affected facility, as well as monitoring requirements and a special condition to be included in each affected permit. Additionally, Guidance Memorandum 04-2017 includes a special condition for submittal of a Basis of Design Report to construct and operate a range of nutrient removal technologies, including but not limited to the limit of technology, as well as a special condition requiring consideration of alternatives and submittal of a plan to optimize nutrient removal with the existing facility. In accordance with the guidance memorandum, this permit contains a special condition requiring submittal of these reports.

1.c. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, Section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, Section 62.1-

44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to Section 402(o)(1) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under Section 303 of the Act.

2. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

3. Operations & Maintenance (O & M) Manual

Rationale: The State Water Control Law, Section 62.1-44.21 allows requests for any information necessary to determine the effect of the discharge on State waters. Section 401 of the Clean Water Act requires the permittee to provide opportunity for the state to review the proposed operations of the facility. In addition, 40 CFR 122.41 (e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) in order to achieve compliance with the permit (includes laboratory controls and QA/QC).

4. Nutrient Reporting Calculations

Rationale: 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade. §62.1-44.19:13 of the Code of Virginia defines how annual nutrient loads are to be calculated; this is carried forward in 9 VAC 25-820-70. As annual concentrations (as opposed to loads) are limited in the individual permit, this special condition is intended to reconcile the reporting calculations between the permit programs, as the permittee is collecting a single set of samples for the purpose of ascertaining compliance with two permits.

5. Notification Levels

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-200 and 40 CFR 122.42 (a) require notification of the discharge of certain parameters at or above specific concentrations for existing manufacturing, commercial mining and silvicultural discharges.

6. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4. Section b. of the special condition defines QL and is included per BPJ to clarify the difference between QL and MDL.

7. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters and some conventional parameters with quantification levels to ensure consistent, accurate reporting on submitted reports.

8. Materials Handling and Storage

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-50 A., prohibits the discharge of any wastes into State waters unless authorized by permit. The State Water Control Law, Sec. 62.1-44.18:2, authorizes the Board to prohibit any waste discharge which would threaten public health or safety, interfere with or be incompatible with treatment works or water use. Section 301 of the Clean Water Act prohibits the discharge of any pollutant unless it complies with specific sections of the Act.

9. Minimum Freeboard

Rationale: Required by the VPA Manual and Guidance Memorandum 94-002 dated February 14, 1994, to minimize the discharge of untreated wastewater to the groundwater or surface waters. 9 VAC 25-32-30.A prohibits a point source discharge of pollutants to surface waters except in the case of a storm event greater than 25-year, 24-hour storm.

10. Stormwater Discharge Exception

Rationale: 9VAC25-32-30.A of the VPA Permit Regulation requires that all pollutant management activities covered within a permit including a no discharge permitted outfall maintain no point source discharge of pollutants to surface waters except in the case of a storm event greater than the 25 year, 24 hour storm. In addition, Guidance Memo No. 96-004 dated August 6, 1996, all no discharge permitted outfalls shall include this as a standard condition such that all pollutant management activities shall maintain no point source discharge to surface waters except in the case of a storm event greater than the 25 year, 24 hour storm.

11. Solids Handling and Disposal Plan

Rationale: In addition, the biosolids Use Regulation, 12-VAC 5-585-330 and 340, specifies the general purpose and control requirements for an O%M Manual in order to facilitate proper O&M of the facilities to meet the requirements of the regulation.

ATTACHMENT 8

TOXICS MONITORING/TOXICS REDUCTION/ WET LIMIT RATIONALE

8-1

MEMORANDUM

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard Virginia Beach, VA 23462

SUBJECT: WET language for Tyson Farms, Inc. (VA0004049)

TO: Debra Thompson

FROM: Deanna Austin

DATE: 5/13/10

COPIES: TRO File (PPP #614)

Tyson Food operates a chicken processing plant on the Eastern Shore. Outfall 001 discharges the processing plant effluent and stormwater runoff. The discharge is to an unnamed tributary of Sandy Bottom Branch. The facility has a whole effluent toxicity (WET) limit of 1.724 TUc (NOEC ≥ 58%) and monitors quarterly. The table below shows the data gathered during the current permit term (2005-2010).

OUTFALL	DESCRIPT	SPECIES	SAMPLEDT	SURVIVAL	NOEC	TU	LAB
001	Quarterly Chronic WET Test	C.d.	2/14/05	100	100	1	Meritech, Inc.
001	Quarterly Chronic WET Test	C.d.	5/23/05	100	100	1.28	Meritech, Inc.
001	Quarterly Chronic WET Test	C.d.	9/12/05	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	12/11/05	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	2/20/06	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	6/12/06	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	9/18/06	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	11/28/06	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	3/5/07	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	6/18/07	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	8/19/07	78	38	2.63	CBI
001	Quarterly Chronic WET Test	C.d.	10/29/07	100	78	1.28	CBI
001	Quarterly Chronic WET Test	C.d.	3/10/08	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	6/8/08	100	58	1.72	CBI
001	Quarterly Chronic WET Test	C.d.	7/13/08	100	58	1.72	CBI
001	Quarterly Chronic WET Test	C.d.	11/3/08	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	2/23/09	100	78	1.28	CBI
001	Quarterly Chronic WET Test	C.d.	6/1/09	100	38	2.63	CBI
001	Quarterly Chronic WET Test	C.d.	9/14/09	100	19	5.26	CBI
001	Quarterly Chronic WET Test	C.d.	11/30/09	100	100	1	CBI
001	Quarterly Chronic WET Test	C.d.	3/8/10	100	100	1	CBI

The WET limit has been exceeded three times during this permit term. Monitoring will continue at 1/3 months for the reissuance.

The following WET language is recommended for the reissuance of the Tyson Foods, Inc. (VA0004049).

B. WHOLE EFFLUENT TOXICITY (WET) LIMITATION MONITORING REQUIREMENTS FOR OUTFALL 001

1. The Whole Effluent Toxicity (WET) Limitation in Part I.A. page 1 for outfall 001 is a final limit. The limit is:

   Chronic 1.724 TU_c (NOEC ≥58.0% effluent)

2. Commencing with the effective date of the limit, the permittee shall conduct quarterly chronic toxicity tests using a 24 hour flow-proportioned composite of final effluent from outfall 001. Toxicity samples shall be taken at the same time as the other sampling parameters required in Part I.A. of this permit. The chronic test to use is:

   Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* (C.d)

   a. The chronic test shall be conducted in such a manner and at sufficient dilutions (minimum of five dilutions, derived geometrically) to determine the "No Observed Effect Concentration" (NOEC) for survival and reproduction. The test endpoint (limit) must be represented by a dilution, and if other than 100%, should be bracketed by at least one dilution above and one dilution below it. Express the test NOEC as TU_c (Chronic Toxic Units), by dividing 100/NOEC for DMR reporting. The IC_{25} should be included on the submitted test reports.

   b. One complete copy of the toxicity test report shall be submitted with the DMR. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chains of custody.

   c. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

3. The permit may be modified or, alternatively, revoked and reissued to include pollutant specific limits in lieu of a WET limit should it be demonstrated that toxicity is due to specific parameters. The pollutant specific limits must control the toxicity of the effluent.

ATTACHMENT 9

MATERIAL STORED

TYSON FOODS, INC. - TEMPERANCEVILLE,VA PROCESSING CHEMICAL LIST

Chemical name	Maximum Gallons on-site	Poundage per gallon	Total Pounds on-site at one time	Pure / Mixture	Percentage of TPQ or RQ?	Maxiumum poundage of TPQ or RQ on-site?	TPQ Reporting Threshold (lbs.) (Report on Tier II if amount or over)	RQ Reporting Threshold (lbs.) (Report if spilled over amount)
Processing								
EHS CAS 7664417 AMMONIA (ANHYDROUS)			90000	Pure	100%	126220	500.00	500.00
CAS 7778543 Calcium Hypochlorite			1980	Mixture				
CAS 68476346 Diesel Fuel	15,120	7.26	109708	Mixture				
CAS 7664382 Fresh FX L-12	6,500	9.2	59605	Mixture				
CAS 68476335 Fuel Oil # 6	12,000	7.31	87670	Mixture				
CAS 86290815 Gasoline	275	6.16	1695	Mixture				
EHS CAS 74986 Propane	30,450	4.2	127890	Pure				
CAS 7681529 Sodium Hypochlorite 12.5 %	5,000	10.01	50040	Mixture	12.50%	2082	10,000.00	100.00

1-6

TYSON FOODS, INC. - TEMPERANCEVILLE,VA WASTEWATER CHEMICAL LIST

Chemical name	Maximum Gallons on-site	Poundage per gallon	Total Pounds on-site at one time	Pure / Mixture	Percentage of TPQ or RQ?	Maxiumum poundage of TPQ or RQ on-site?
Wastewater						
EHS CAS 7782505 Chlorine	2150		2150	Pure		
EHS CAS 7446-09-5 Sulfur Dioxide	2150		2150	Mixture		
EHS CAS 74986 Propane	1000	4.2	4200	Pure		
CAS 1310732 Sodium Hydroxide	5000	17.76	88821	Mixture	50%	31500

TYSON FOODS, INC. - TEMPERANCEVILLE,VA RVAF CHEMICAL LIST

Chemical name	Maximum Gallons on-site	Poundage per gallon	Total Pounds on-site at one time	Pure / Mixture
RVAF				Pure
CAS 68476335 Fuel Oil # 6	50000	7.31	365500	Mixture
CAS ?? Poultry Fat	85000	7.50	637500	Mixture
EHS CAS 74986 Propane	400	4.2	1680	Pure
CAS 7775-09-9 Sodium Chlorate (Pyrate)	3000			
EHS CAS 7664-93-9 Sulfuric Acid (aqueous)	3000	15.35	46037	

TYSON FOODS, INC. - TEMPERANCEVILLE,VA HATCHERY CHEMICAL LIST

Chemical name	Maximum Gallons on-site	Poundage per gallon	Total Pounds on-site at one time	Pure / Mixture
Hatchery				
EHS CAS 50000 Formaldehyde, 37%	100.00	9.03	903	Mixture
CAS 68476346 Diesel Fuel	10,000.00	7.26	72,558	Mixture
EHS CAS 74986 Propane	18,000.00	4.2	76,411	Pure

ATTACHMENT 10

RECEIVING WATERS INFO./ TIER DETERMINATION/STORET DATA/ STREAM MODELING

10-1

M E M O R A N D U M

Department of Environmental Quality
Tidewater Regional Office

5636 Southern Boulevard Virginia Beach, VA 23462

SUBJECT: VPDES Application Requests

TO: Kristie Britt, TRO

FROM: Debbie Thompson, TRO

DATE: August 2, 2010

COPIES: TRO File - facility #614, PPP

An application has been received for the following facility:
Tyson Foods, Inc (Temperanceville)

Topo Map Name: **Hallwood** VPDES #: **VA0004049**

Receiving Stream: **UT to Sandy Bottom Branch**

Attached is a Topographic Map showing facility boundaries and outfall location(s).

Attached is a STORET Request Form if STORET data is requested.

We request the following information from you:

1. __X__ Tier Determination. Tier: 1 (discharge to impaired receiving stream)
Please include a basis for the tier determination. See attachment 1

2. _____ STORET Data and STORET Station Location(s).

3. __X__ Is this facility mentioned in a Management Plan?

_____ No ___✓___ Yes _____ No, but will be included when the Plan is updated.

4. __X__ Are limits contained in a Management Plan?

_____ No ___✓___ Yes **(If Yes, Please include the basis for the limits.)** See attachment 2

5. __X__ Does this discharge go to a 303(d) stream segment? Yes
see attachment 1

Return Due Date: _____ Date Returned: 8/11/2010

STORET Station: _____

STORET Station: _____

16-2

Fecal Coliform Total Maximum Daily Load Development for Holdens Creek, Sandy Bottom Branch, and Unnamed Tributary to Sandy Bottom Branch, Accomack County, Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY
629 East Main Street
Richmond, VA 23218

Prepared by

Virginia Institute of Marine Science

Gloucester Point, VA

April, 2008

3.0 SOURCE ASSESSMENT

3.1 General

A primary component of the fecal coliform TMDL development for Holdens Creek, SBB, and UTSBB is the evaluation of potential sources of fecal bacteria in the watershed. Sources of information that were used in evaluating potential pollutant sources include the VA-DEQ, the Virginia Department of Conservation and Recreation (VA-DCR), the Virginia Department of Game and Inland Fisheries (VADGIF), VDH, public participation, watershed studies, stream monitoring, published information, previously approved fecal coliform TMDLs, and best professional judgment.

The potential fecal bacteria sources in the watershed can be broken down into point and nonpoint sources. Point sources are permitted pollutant loads derived from individual sources and discharged at specific locations. There is one known point source within the watershed. Nonpoint sources develop from various sources over a relatively large land area.

3.2 Point Source

The only point source in the Holdens Creek watershed, Tyson Farms, Inc., is located at the city of Temperanceville in Accomack County. It discharges to UTSBB under VPDES Permit No. VA0004049 issued by the VA-DEQ. The discharge mainly results from the operation of a poultry hatchery and processing of live chickens. The *E. coli.* permit limit is a monthly geometric mean of 126 counts/100 ml. The analysis of available monthly averaged fecal coliform data from January 2001 to February 2008 results in a mean of 3 and a maximum of 30 counts/100 ml. The flow of the facility is not limited. The analysis of available monthly averaged flow data from January 2001 to February 2008 results in a mean of 1,007,128 and maximum of 1,940,000 gallons/day. The current maximum and mean fecal coliform loads are 2.20×10^9 and 1.14×10^8 counts/day, respectively. This is equivalent to *E. coli* daily maximum and mean loads of 1.65×10^9 and 1.03×10^8 counts/day, respectively (See Equation C12 for the calculation method).

3.3 Nonpoint Source

Nonpoint sources of fecal bacteria do not have one discharge point but may occur over the entire length of the receiving water. Fecal bacteria deposited on the land surface can build up over time. During rain events, surface runoff transports water and sediment and discharges to the waterway. Sources of fecal bacteria include grazing livestock, concentrated animal feeding operations, manure application, and wildlife and pet excretion. Direct contribution to the waterway occurs when livestock or wildlife defecate into or immediately adjacent to receiving waters. Nonpoint source contributions from humans generally arise from failing septic systems and associated drain fields, moored or marina vessel discharges, storm water management facilities, pump station failures, and exfiltration from sewer systems. Contributions from wildlife, both mammalian and avian, are natural conditions and may represent a background level of bacterial loading.

The current loading to the waterbody was determined using a long-term record of water quality monitoring (observation) data, which spans from different flow regimes and temperatures. The resulting estimate is quite robust.

Seasonal variations involve changes in surface runoff, stream flow, and water quality as a result of hydrologic and climatologic patterns. These are accounted for by the use of the long-term data record to estimate the current load.

The standard for recreation use is expressed both in terms of a geometric mean, when there are two or more samples in a month, or as a single sample maximum. Though the single maximum criterion was used to evaluate the water quality impairment, as a conservative approach, the geometric mean of 126 counts/100 ml was selected as the TMDL endpoint to be met at all times. For shellfish growing area TMDLs, the more stringent 90th percentile reduction was adopted.

4.9 TMDL Summary

The *E. coli.* TMDL to meet the recreational water quality criterion of SBB and UTSBB is summarized in Table 4.6. The permitted load of 4.80×10^9 counts/day from point source facility is allocated to the WLA.

Table 4.6: *E. coli* TMDL Summary for SBB and UTSBB

Flow Interval	I Flow >70%	II 70% >Flow ≥30%	III Flow<30%
Flow*(cfs)	2.01	3.33	7.17
TMDL (Count/Day)	7.30E+09	1.19E+10	2.59E+10
WLA (Count/Day)	4.80E+09	4.80E+09	4.80E+09
LA (Count/Day)	2.50E+09	7.10E+09	2.11E+10
MOS	Implicit	Implicit	Implicit
* Includes mean point source 1.0 million gallons per day.			

To meet the shellfish water quality standards for both geometric mean and 90th percentile criteria, the TMDLs for the upper and lower Holdens Creek are defined for the geometric mean load and the 90th percentile load. They are summarized in Table 4.7.

Table 4.7: Fecal Coliform TMDL Summary for Holdens Creek

Category	TMDL (Counts/day)	WLA (Counts/day)	LA (Counts/day)	MOS
Geometric Mean	2.43E+12	na	2.43E+12	Implicit
90th Percentile	6.18E+12	na	6.18E+12	Implicit

ATTACHMENT 11

303(d) LISTED SEGMENTS

2008 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code / Impaired Use	Water Name / Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
C10E-17-SF	Messongo Creek - Middle						
Shellfishing	Fecal Coliform	5B	0.058			2002	2014
C10E-18-SF	Hunting Creek - Upper						
Shellfishing	Fecal Coliform	5B	0.286			1998	2010
* **C10R-01-BAC**	Unnamed tributary to Sandy Bottom Branch						
Recreation	Fecal Coliform	5A			1.87	1996	2010
* **C10R-01-BEN**	Unnamed tributary to Sandy Bottom Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.87	1996	2010
C10R-02-BAC	Sandy Bottom Branch						
Recreation	Escherichia coli	5A			1.28	2004	2016
C10R-02-BEN	Sandy Bottom Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.28	1996	2010
C10R-02-CU	Sandy Bottom Branch						
Aquatic Life	Copper	5A			1.28	2002	2014
Wildlife	Copper	5A			1.28	2002	2014
C10R-03-BEN	Guilford Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.65	2008	2020
C11E-11-SF	Chesconessex Creek - Upper						
Shellfishing	Fecal Coliform	5B	0.209			1998	2010
C11E-20-SF	Parkers Creek - Upper						
Shellfishing	Fecal Coliform	5B	0.033			2008	2020
C11R-01-BAC	Joynes Branch						
Recreation	Escherichia coli	5A			2.17	2008	2020
C12R-01-BEN	Taylor Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.88	2004	2016
C12R-02-BEN	Bull Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.20	2008	2020
C13E-02-BAC	Nassawadox Creek - Lower						
Recreation	Enterococcus	5A	2.002			2008	2020
C13E-11-SF	Church Creek - Upper						
Shellfishing	Fecal Coliform	5B	0.222			2004	2016
C13E-20-SF	Nassawadox Creek-Upper and UT to Lower Church Creek						
Shellfishing	Fecal Coliform	5B	0.434			2008	2020
C13E-21-SF	UT to Lower Craddock Creek						
Shellfishing	Fecal Coliform	5B	0.036			2008	2020
C13E-22-SF	Upper Back Creek and Fisher, Boggs and Shields Coves						
Shellfishing	Fecal Coliform	5B	0.142			2008	2020

Attachment 1-1

Appendix A - List of Impaired (Category 5) Waters in 2008*

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code **C10R-01-BAC** **Unnamed tributary to Sandy Bottom Branch**

Location: This cause encompasses the portion of this unnamed tributary to Sandy Bottom Branch, originating at outfall 001 of VPDES VA0004049 downstream to confluence with Sandy Bottom Branch (@ Rt 693 crossing).

City / County: Accomack Co.

Use(s): Recreation

Cause(s) / VA Category: Fecal Coliform / 5A

The Recreatiion Use impairment previously reported is retained because monitoring for the current data cycle exhibits Observed Effects based on exceedances of the criteria for Ecoli bacteria (3 violates / 8 obs.). The previous impairment assessment TMDL due date (established due to elevated levels of Fecal Coliform bacteria for the 1996 303d report) is retained.

1998 CD segment for benthics & FC (Attachment A, Category 1, Part 1) VAT-C10R-01.

Unnamed tributary to Sandy Bottom Branch **Recreation**	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fecal Coliform - Total Impaired Size by Water Type:			**1.87**

Sources:

Source Unknown

Attachment 1-2

Appendix A - List of Impaired (Category 5) Waters in 2008*

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code **C10R-01-BEN** **Unnamed tributary to Sandy Bottom Branch**

Location: This cause encompasses the portion of this unnamed tributary to Sandy Bottom Branch, originating at outfall 001 of VPDES VA0004049 downstream to confluence with Sandy Bottom Branch (@ Rt 693 crossing).

City / County: Accomack Co.

Use(s): Aquatic Life

Cause(s) /
VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic Life Use is impaired due to impacts to the stream's benthic population. Assessment is based on biological benthic monitoring noting MI [MI: S-01, F&S- 03,04,06; VI: F-01, 05;S-02] at DEQ (BIO) station @ 7-SBB000.17.

1998 CD segment for benthics & FC (Attachment A, Category 1, Part 1) VAT-C10R-01.

Unnamed tributary to Sandy Bottom Branch **Aquatic Life**	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			**1.87**

Sources:

Source Unknown

Attachment 1-3

11-4

http://register.dls.virginia.gov

Virginia Code Commission

Virginia Register of Regulations

VOL. 26 ISS. 6 PUBLISHED EVERY OTHER WEEK BY THE VIRGINIA CODE COMMISSION NOVEMBER 23, 2009

TABLE OF CONTENTS

Register Information Page 511

Publication Schedule and Deadlines 512

Petitions for Rulemaking 513

Notices of Intended Regulatory Action 515

Regulations 517

2VAC5-110. Rules and Regulations Pertaining to a Pound or Enclosure to Be Maintained by Each County or City (Forms) 517
2VAC5-150. Rules and Regulations Governing the Transportation of Companion Animals (Forms) 522
4VAC5-36. Standard Fees for Use of Department of Conservation and Recreation Facilities, Programs, and Services (Final) 525
4VAC20-20. Pertaining to the Licensing of Fixed Fishing Devices (Final) 561
4VAC20-490. Pertaining to Sharks (Final) 562
4VAC20-610. Pertaining to Commercial Fishing and Mandatory Harvest Reporting (Final) 565
4VAC20-950. Pertaining to Black Sea Bass (Final) 566
4VAC20-1190. Pertaining to Gill Net Control Date (Final) 567
9VAC25-71. Regulations Governing the Discharge of Sewage and Other Wastes from Boats (Final) 569
9VAC25-630. Virginia Pollution Abatement General Permit Regulation for Poultry Waste Management (Final) 570
9VAC25-720. Water Quality Management Planning Regulation (Final) 592
12VAC5-67. Advance Health Care Directive Registry (Notice of Extension of Emergency Regulation) 611
12VAC5-120. Regulations for Testing Children for Elevated Blood-Lead Levels (Final) 611
12VAC30-80. Methods and Standards for Establishing Payment Rates; Other Types of Care (Final) 612
12VAC30-80. Methods and Standards for Establishing Payment Rates; Other Types of Care (Final) 615
12VAC30-120. Waivered Services (Emergency) 619
12VAC30-50. Amount, Duration, and Scope of Medical and Remedial Care Services (Emergency) 655
12VAC30-80. Methods and Standards for Establishing Payment Rates; Other Types of Care (Emergency) 655
12VAC30-120. Waivered Services (Emergency) 655
12VAC30-141. Family Access to Medical Insurance Security Plan (Final) 661
12VAC35-220. Certification Requirements for Early Intervention Professionals and Early Intervention Specialists (Emergency) 664
14VAC5-290. Rules Establishing Standards for Companies Deemed to Be in Hazardous Financial Condition (Final) 668
18VAC48-50. Common Interest Community Manager Regulations (Notice of Extension of Emergency Regulation) 671
18VAC60-20. Regulations Governing the Practice of Dentistry and Dental Hygiene (Emergency) 671
18VAC110-20. Regulations Governing the Practice of Pharmacy (Proposed) 678
18VAC110-20. Regulations Governing the Practice of Pharmacy (Fast-Track) 686
18VAC110-20. Regulations Governing the Practice of Pharmacy (Final) 688

THE VIRGINIA REGISTER OF REGULATIONS (USPS-001831) is published biweekly, with quarterly cumulative indices published in January, April, July and October, for $179.00 per year by LexisNexis Matthew Bender, 1275 Broadway, Albany, NY 12204. Periodical postage is paid at Albany, NY and at additional mailing offices. POSTMASTER: Send address changes to LexisNexis Matthew Bender, 1275 Broadway, Albany, NY 12204.

Attachment 2-1

11-5

Final Regulation

REGISTRAR'S NOTICE: The State Water Control Board is claiming an exclusion from the Administrative Process Act in accordance with § 2.2-4006 A 4 a of the Code of Virginia, which excludes regulations that are necessary to conform to changes in Virginia statutory law where no agency discretion is involved. The State Water Control Board will receive, consider, and respond to petitions by any interested person at any time with respect to reconsideration or revision.

Title of Regulation: **9VAC25-720. Water Quality Management Planning Regulation (amending 9VAC25-720-50, 9VAC25-720-110).**

Statutory Authority: § 62.1-44.15 of the Code of Virginia; 33 USC § 1313(e) of the Clean Water Act.

Effective Date: December 23, 2009.

Agency Contact: John M. Kennedy, Department of Environmental Quality, 629 East Main Street, P.O. Box 1105, Richmond, VA 23218, telephone (804) 698-4312, FAX (804) 698-4032, or email john.kennedy@deq.virginia.gov.

Summary:

The amendments extend the deadline for securing a Certificate to Operate (CTO) for expanded design flow and associated nutrient waste load allocations for Harrisonburg-Rockingham Regional S.A.-North River STP, Fauquier Co. W&SA-Vint Hill STP, and Onancock STP from December 31, 2010, to December 31, 2011.

9VAC25-720-50. Potomac-Shenandoah River Basin.

A. Total Maximum Daily Load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Muddy Creek	Nitrate TMDL Development for Muddy Creek/Dry River, Virginia	Rockingham	B21R	Nitrate	49,389.00	LB/YR
2.	Blacks Run	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Sediment	32,844.00	LB/YR
3.	Cooks Creek	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Sediment	69,301.00	LB/YR
4.	Cooks Creek	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Phosphorus	0	LB/YR
5.	Muddy Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	Rockingham	B22R	Sediment	286,939.00	LB/YR
6.	Muddy Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	Rockingham	B22R	Phosphorus	38.00	LB/YR
7.	Holmans Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	Rockingham/ Shenandoah	B45R	Sediment	78,141.00	LB/YR
8.	Mill Creek	TMDL Development for Mill Creek and Pleasant Run	Rockingham	B29R	Sediment	276.00	LB/YR
9.	Mill Creek	TMDL Development for Mill Creek and Pleasant Run	Rockingham	B29R	Phosphorus	138.00	LB/YR

Attachment 2-2

11-6

(8) Fauquier Co. W&SA-Vint Hill STP: waste load allocations (WLAs) based on a design flow capacity of 0.95 million gallons per day (MGD). If plant is not certified to operate at 0.95 MGD design flow capacity by December 31, ~~2010~~ 2011, the WLAs will decrease to TN = 5,482 lbs/yr; TP = 548 lbs/yr, based on a design flow capacity of 0.6 MGD.

(9) Parkins Mill STP: waste load allocations (WLAs) based on a design flow capacity of 5.0 million gallons per day (MGD). If plant is not certified to operate at 5.0 MGD design flow capacity by December 31, 2010, the WLAs will decrease to TN = 36,547 lbs/yr; TP = 2,741 lbs/yr, based on a design flow capacity of 3.0 MGD.

9VAC25-720-110. Chesapeake Bay -- Small Coastal -- Eastern Shore River Basin.

A. Total maximum Daily Load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Parker Creek	Benthic Total Maximum Daily Load (TMDL) Development for Parker Creek , Virginia	Accomack	D03E	Total Phosphorus	664.2	Lbs/YR

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

Small Coastal and Chesapeake Bay-
TABLE B1—CURRENT STREAM SEGMENT CLASSIFICATION

Segment No.	Name	Current State Class
7-12A	Pocomoke Sound	EL
7-12B	Messongo Creek	EL
7-12C	Beasley Bay	EL
7-12D	Chesconessex Creek	EL
7-13	Onancock Creek	WQ
7-14	Pungoteague	WQ
7-12E	Nandua Creek	EL
7-15	Occohannock Creek	WQ
7-12F	Nassawadox Creek	EL
7-12G	Hungars Creek	EL
7-12H	Cherrystone Inlet	EL
7-12I	South Bay	EL
7-12J	Tangier Island	____
7-11A	Chincoteague	EL
7-11B	Hog Bogue	EL
7-11C	Metomkim Bay	EL
7-11D	Machipongo River	EL
7-11E	South Ocean	EL

Attachment 2-3

11-7

Small Coastal and Chesapeake Bay
TABLE B2 - EASTERN SHORE WASTELOAD ALLOCATIONS

		INTERIM WASTELOAD ALLOCATIONS[1]			FINAL WASTELOAD ALLOCATIONS		
		(Current Permit Limits)					
NAME	RECEIVING STREAM OR ESTUARY	BOD_5 (lb/d)	SUSPENDED SOLIDS (lb/d)	OIL & GREASE (lb/d)	BOD_5 (lb/d)	SUSPENDED SOLIDS (lb/d)	OIL & GREASE (lb/d)
Commonwealth of Va. Rest Area	Pitts Cr.	4.3	4.3	--	4.3	4.3	--
Edgewood Park	Bullbegger Cr.	0.80	0.80	--	0.80	0.80	--
Holly Farms	Sandy Bottom Cr.	167[3]	167[3]	10 mg/l	Stream survey/model and determination of final wasteload allocations planned for the summer of 1980.		
Taylor Packing Company	Messongo Cr.	7006[3]	13010[3]	--	Stream survey/model was run previously. No change in permit anticipated.		
No. Accomack E.S.	Messongo Cr.	1.8	1.4	--	1.8	1.4	--
Messick & Wessels Nelsonia	Muddy Cr.	30mg/l[4]	30mg/l[4]	--	Interim wasteload allocations may be changed based on BAT guidance.		
Whispering Pines Motel	Deep Cr.	4.8	4.8	--	4.8	4.8	--
Town of Onancock	Onancock Cr.	21	21	--	21	21	--
Messick & Wessels	Onancock Cr.	30mg/l[4]	30mg/l[4]	--	Interim wasteload allocations may be changed based on guidance.		
So. Accomack E.S.	Pungoteague Cr.	1.8	1.4	--	1.8	1.4	--
A & P Exmore	Nassawadox Cr.	0.38	0.38	--	0.38	0.38	--
Norstrom Coin Laundry	Nassawadox Cr.	60mg/l[4] max.	60mg/l[4] max.	--	Interim wasteload allocation may be changed based on BAT guidance.		
NH-Acc. Memorial Hospital	Warehouse Cr.	12.5	12.5	--	21.5	12.5	--
Machipongo E.S. & H.H. Jr. High	Trib. To Oresbus Cr.	5.2	5.2	--	5.2	5.2	--
Town of Cape Charles	Cape Charles Harbor	62.6	62.6	--	62.6	62.6	--
America House	Chesapeake Bay	5	5	--	5	5	--
U.S. Coast Guard Chesapeake Bay	Chesapeake Bay	--	--	10/mgl[5]	--	--	10/mgl[5]
U.S. Government Cape Charles AFB	Magothy Bay	Currently No Discharge					

Attachment 2-4

11-8

120	Marshall & Son Crab Company	Messongo Cr.								Crab Shedding[6]
	Linton & Lewis Crab Co.	Pocomoke Sound								Crab Shedding[6]
122	D.L. Edgerton	Chincoteague								Fish Washdown[6]
123	Evans Bros. Seafood Co.	Pocomoke Sound								Crab Shedding[6]
124	Stanley F. Linton	Messongo	Starling Cr.							Crab Shedding[6]
125	H.V. Drewer & Son	Messongo	Starling Cr.	.035[4] .018[4]	349 180		736-clam 198-oyster			Oyster & Clam
126	Chincoteague Fish Co., Inc.	Chincoteague Channel								Fish Washdown[6]
127	Chincoteague Crab Company	Assateague Channel			.18[2]		.54[2]			Crab & Crab Shedding
128	Aldon Miles & Sons	Pocomoke Sound								Crab Shedding[6]
129	Saxis Crab Co.	Messongo	Starling Cr.							Crab Shedding[6]
	Paul Watkinson SFD	Pocomoke Sound								Crab Shedding[6]
131	Russell Fish Co., Inc	Chincoteague Channel								Fish[6]
132	Mason Seafood Co.	Chincoteague Channel		.002[4]	7.7		13.7			Oysters

NOTE: [1]Water quality data taken from Discharge Monitoring Reports or special studies unless indicated.

[2]NPDES Permit limits given since the permit is new and discharge monitoring reports not yet available.

[3]Data from Accomack-Northampton Co. Water Quality Management Plan.

[4]Estimated.

[5]May need a permit--either company has not responded to SWCB letter or operation has just started up.

[6]No limits -- has an NPDES permit, but is not required to monitor.

C. Nitrogen and phosphorus waste load allocations to restore the Chesapeake Bay and its tidal rivers. The following table presents nitrogen and phosphorus waste load allocations for the identified significant dischargers and the total nitrogen and total phosphorus waste load allocations for the listed facilities.

Virginia Waterbody ID	Discharger Name	VPDES Permit No.	Total Nitrogen (TN) Waste Load Allocation (lbs/yr)	Total Phosphorus (TP) Waste Load Allocation (lbs/yr)
C16E	Cape Charles Town WWTP (1)	VA0021288	6,091	457
C11E	Onancock WWTP (2)	VA0021253	9,137	685
C13E	Shore Memorial Hospital	VA0027537	1,218	91

Attachment 2-5

11-9

C10E	Tangier WWTP	VA0067423	1,218	91
C10R	Tyson Foods – Temperanceville	VA0004049	22,842	1,142
	TOTALS:		40,506	2,467

NOTE: (1) Cape Charles STP: waste load allocations (WLAs) based on a design flow capacity of 0.5 million gallons per day (MGD). If plant is not certified to operate at 0.5 MGD design flow capacity by December 31, 2010, the WLAs will decrease to TN = 3,046 lbs/yr; TP = 228 lbs/yr, based on a design flow capacity of 0.25 MGD.

(2) Onancock STP: waste load allocations (WLAs) based on a design flow capacity of 0.75 million gallons per day (MGD). If plant is not certified to operate at 0.75 MGD design flow capacity by December 31, ~~2010~~ 2011, the WLAs will decrease to TN = 3,046 lbs/yr; TP = 228 lbs/yr, based on a design flow capacity of 0.25 MGD.

VA.R. Doc. No. R10-2198; Filed November 4, 2009, 11:23 a.m.

TITLE 12. HEALTH

STATE BOARD OF HEALTH

Notice of Extension of Emergency Regulation

Title of Regulation: **12VAC5-67. Advance Health Care Directive Registry (adding 12VAC5-67-10, 12VAC5-67-20, 12VAC5-67-30).**

Statutory Authority: § 54.1-2994 of the Code of Virginia.

Effective Dates: November 1, 2008, through April 30, 2010.

The Department of Health has requested an extension of the above-referenced emergency regulation, relating to the Advance Health Care Directive Registry. The emergency regulation was published in 25:4 VA.R. 658 October 27, 2008 (http://register.dls.virginia.gov/vol25/iss04/v25i04.pdf).

The key provisions of this regulation consist of a description of the documents that may be submitted to the Advance Health Care Directive Registry, a provision for reasonable fees to be charged by a vendor with whom the Department of Health may contract for implementing the registry, and provisions outlining who may gain access to documents in the registry. In order for the department to meet this mandate, it accepted unsolicited proposals from vendors under the Public-Private Education Facilities and Infrastructure Act of 2002. During the negotiation process at the conceptual phase, it was identified that several amendments needed to be made to the enabling (organic) statute. In consultation with the patron, it was determined that these amendments could be debated in the 2010 Session of the Virginia General Assembly. These amendments would include a requirement for hospitals to notify citizens of the availability of a statewide registry and would also expand the categories of providers that can have access to this registry. As these amendments would have an impact on the regulation, the department requests that the emergency regulations stay in place while the enabling statute is being debated.

In accordance with § 2.2-4011 D of the Code of Virginia, the Governor approved the department's request to extend the expiration date of the emergency regulation through April 30, 2010.

Agency Contact: Kimberly S. Barnes, Policy Analyst, Department of Health, 109 Governor St., Richmond, VA 23219, telephone (804) 864-7661, or email kim.barnes@vdh.virginia.gov.

VA.R. Doc. No. R09-1382; Filed November 4, 2009, 4:53 p.m.

Final Regulation

Title of Regulation: **12VAC5-120. Regulations for Testing Children for Elevated Blood-Lead Levels (amending 12VAC5-120-10, 12VAC5-120-30; adding 12VAC5-120-35).**

Statutory Authority: § 32.1-46.1 of the Code of Virginia.

Effective Date: December 31, 2009.

Agency Contact: Nancy Van Voorhis, Director, Lead Safe Virginia, Department of Health, 109 Governor St., Richmond, VA 23219, telephone (804) 864-7694, or email nancy.vanvoorhis@vdh.virginia.gov.

Summary:

The amendments permit the use of the Clinical Laboratory Improvement Amendments (CLIA)-waived instruments for point-of-care testing to screen for elevated blood-lead levels, provided any elevated blood-lead level is followed up with a venous blood-lead test performed by a qualified laboratory. The amendments also require health care providers to make information available on the dangers of lead poisoning, along with a list of available resources, to parents as part of regular well-check visits for all children up to 72 months of age.

Summary of Public Comments and Agency's Response: No public comments were received by the promulgating agency.

Attachment 2-4

ATTACHMENT 12

TABLE III(a) AND TABLE III(b) - CHANGE SHEETS

TABLE III(a)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
001	BOD	No change	147 lb/d avg to 115 lb/d avg 239 lb/d max to 187 lb/d max	Revised LTA flow from 1.1 MGD to 0.86 MGD	DLT 5/10
	TSS	No change	167 lb/d avg to 143 lb/d avg 275 lb/d max to 215 lb/d max	Revised LTA flow from 1.1 MGD to 0.86 MGD	DLT 5/10
	O&G	No change	73 lb/d avg to 57 lb/d avg 128 lb/d max to 100 lb/d max	Revised LTA flow from 1.1 MGD to 0.86 MGD	DLT 5/10
	Total Phosphorus (lb/day)	1/week-24 hr-composite to No monitoring in the IP	18 lb/d avg to No limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Phosphorus (lb/d/calendar yr)	1/month-calc to no monitoring in the IP	4,200 lb//calendar yr to No limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Phosphorus (lb/month)	1/month-calc to no monitoring in the IP	NL to No limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Phosphorus (mg/l)	1/week-24 hr-composite to No monitoring in the IP	2.0 mg/l avg to No monthly limit in the IP as of 12/31/10; calendar yr limit will be included	Monthly avg limit is replaced by annual avg limit in accord with Nutrient Reporting requirement	DLT 5/10
	Total Phosphorus Calendar Year (mg/l)	NA to 1/year calculated	NA to 0.3 mg/l average	Annual avg limits inaccord with Nutrient Reporting requirement and facility upgrade/design to meet stds	DLT 5/10

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
	Total Nitrogen (lb/d/calendar yr)	1/month-calc to no monitoring in the IP	250,000 lb/calendar yr to No limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Nitrogen Calendar Year (mg/l)	NA to 1/year calculated	NA to 6.0 mg/l average	Annual avg limits inaccord with Nutrient Reporting requirement and facility upgrade/design to meet stds	DLT 5/10
	Total Nitrogen (lb/day)	1/week-24 hr-comp to No monitoring in the IP	NL to No monitoring or limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Nitrogen (lb/month)	1/month-calculated to No monitoring in the IP	NL to No monitoring or limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Total Nitrogen (mg/l)	1/week- 24 hr-composite calculated to No monitoring in the IP	103 mg/l avg; 147 mg/l max to No monitoring or limit in the IP as of 12/31/10	Federal Effluent Guidelines deleted as Annual avg limits inaccord with Nutrient Reporting requirement and facility upgrade/design are more stringent.	DLT 5/10
	Orthophosphate (mg/l)and (lb/d)	1/week-24 hr-comp to No monitoring in the IP	NL to No monitoring or limit in the IP	Nutrient monitoring addressed in the Nutrient GP VAN50005	DLT 5/10
	Nitrite+Nitrate (lb/d)	1/week-24 hr-comp to No monitoring in the IP	NL to No monitoring or limit in the IP	Load allocations and limitations are address/handled in the Nutrient GP VAN050005	DLT 5/10
	Nitrite+Nitrate and Total Kjedhal Nitrogen	1/week-24 hr composite to 1/month-24 hr composite	No change (NL)	These parameters are necessary to calculate TN, however frequency has been reduced to compliment 1/month requirement for TN	DLT 8/10

12-2

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL
Outfall 002 DELETED in it entirety.	The flows entering the storm water pond are considered process water as they comingle with rendering. All flows will be collected with no discharge permitted, however, if necessary will be treated at the WWTP prior to discharge to receiving stream through outfall 001.	DLT 5/10
Outfalls 003 and 004 ADDED	Storm water outfalls NOT associated with industrial activity where no chemical monitoring shall be required.	DLT 7/10

TABLE III(b)

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes).

OUTFALL NUMBER	PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
001					

OTHER CHANGES FROM:	CHANGED TO:	DATE & INITIAL

ATTACHMENT 13

NPDES INDUSTRIAL PERMIT RATING WORKSHEET
AND
EPA PERMIT CHECKLIST

13-1

NPDES Permit Rating Work Sheet

_X_ Regular Addition
___ Discretionary Addition
___ Score change, but no status change
___ Deletion

NPDES NO: |_V_|_A_|_0_|_0_|_0_|_4_|_0_|_4_|_9_|

Facility Name:

|_T_|_Y_|_S_|_0_|_N_|___|_F_|_A_|_R_|_M_|_S_|___|_I_|_N_|_C_|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|___|

City: |_T_|_E_|_M_|_P_|_E_|_R_|_A_|_N_|_C_|_E_|_V_|_I_|_L_|_L_|_E_|_,_|_V_|_I_|_R_|_G_|_I_|_N_|_I_|_A_|___|

Receiving Water: |_U_|_T_|___|_S_|_A_|_N_|_D_|_Y_|___|_B_|_O_|_T_|_T_|_O_|_M_|___|_B_|_R_|_A_|_N_|_C_|_H_|___|___|___|___|___|___|___|___|___|

Reach Number: |___|___|___|___|___|___|___|___|___|___|___|

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (not using a cooling pond/lake)
2. A nuclear power plant
3. Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rate

___ YES: score is 600 (stop here) _X_ NO (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

___ YES; score is 700 (stop here)
__X NO (continue)

FACTOR 1: Toxic Pollutant Potential

PCS SIC Code: |___|___|___|___| Primary SIC Code: |_2_|_0_|_1_|_5_|

Other SIC Codes: |_2_|_0_|_7_|_7_| |_0_|_2_|_5_|_4_| |___|___|___|___| |___|___|___|___|

Industrial Subcategory Code: |___|___|_1_| (Code 000 if no subcategory)

Determine the Toxicity potential from Appendix A. Be sure to use the TOTAL toxicity potential column and check one

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
___ No process waste streams	0	0	___ 3.	3	15	___ 7.	7	35
_x_ 1.	1	5	___ 4.	4	20	___ 8.	8	40
___ 2.	2	10	___ 5.	5	25	___ 9.	9	45
			___ 6.	6	30	___ 10.	10	50

Code Number Checked: |___|_1_|

Total Points Factor 1: |_0_|_5_|

FACTOR 2: Flow/Stream Flow Volume *(Complete Either Section A or Section B; check only one)*

Section A–Wastewater Flow Only Considered

Wastewater Type (See Instructions)			Code	Points
Type I:	Flow < 5 MGD	___	11	0
	Flow 5 to 10 MGD	___	12	10
	Flow > 10 to 50 MGD	___	13	20
	Flow > 50 MGD	___	14	30
Type II:	Flow < 1 MGD	___	21	10
	Flow 1 to 5 MGD	___	22	20
	Flow > 5 to 10 MGD	___	23	30
	Flow > 10 MGD	___	24	50
Type III:	Flow < 1 MGD	___	31	0
	Flow 1 to 5 MGD	___	32	10
	Flow > 5 to 10 MGD	___	33	20
	Flow > 10 MGD	___	34	30

Section B–Wastewater and Stream Flow Considered

Wastewater Type (See Instructions)	Percent of Instream Wastewater Concentration at Receiving Stream Low Flow		Code	Points
Type I/III:	< 10%	___	41	0
	> 10% to < 50%	___	42	10
	> 50%	___	43	20
Type II:	<10%	___	51	0
	> 10% to < 50%	___	52	20
	> 50%	_x_	53	30

Code Checked from Section A or B: |_5_|_3_|

Total Points Factor 2: |_3_|_0_|

13-2

NPDES Permit Rating Work Sheet

NPDES No.: |_V_|_A_|_0_|_0_|_0_|_4_|_0_|_4_|_9_|

FACTOR 3: Conventional Pollutants

(only when limited by the permit)

A. Oxygen Demanding Pollutant: (check one) _X_ BOD ___ COD ___ Other:_____

Permit Limits: (check one)		Code	Points
___	< 100 lbs/day	1	0
_X_	100 to 1000 lbs/day	2	5
___	>1000 to 3000 lbs/day	3	15
___	>3000 lbs/day	4	20

Code Checked: |_2_|

Points Scored: |___|_5_|

B. Total Suspended Solids (TSS)

Permit Limits: (check one)		Code	Points
___	< 100 lbs/day	1	0
_X_	100 to 1000 lbs/day	2	5
___	>1000 to 5000 lbs/day	3	15
___	>5000 lbs/day	4	20

Code Checked: |_2_|

Points Scored: |___|_5_|

C. Nitrogen Pollutant: (check one) _X_ Ammonia ___ Other: _____

Permit Limits: (check one)		Code	Points
___	< 300 lbs/day	1	0
_X_	300 to 1000 lbs/day	2	5
___	>1000 to 3000 lbs/day	3	15
___	>3000 lbs/day	4	20

Code Checked: |_2_|

Points Scored: |___|_5_|

Total Points Factor 3:|_1_|_5_|

FACTOR 4: Public Health Impact

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

___ YES (if yes, check toxicity potential number below)
_X_ NO (if no, go to Factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column -- check one below)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
___ No process waste streams	0	0	___ 3.	3	0	___ 7.	7	15
			___ 4.	4	0	___ 8.	8	20
_X_ 1.	1	0	___ 5.	5	5	___ 9.	9	25
___ 2.	2	0	___ 6.	6	10	___ 10.	10	30

Code Number Checked: |___|_1_|

Total Points Factor 4: |___|_0_|

13-3

NPDES Permit Rating Work Sheet

NPDES No.: |_V_|_A_|_0_|_0_|_0_|_4_|_0_|_4_|_9_|

FACTOR 5: Water Quality Factors

A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?

	Code	Points
_X_ Yes	1	10
___ No	2	0

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
_X_ Yes	1	0
___ No	2	5

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

	Code	Points
_X_ Yes	1	10
___ No	2	0

Code Number Checked: A |_1_| B |_1_| C |_1_|

Points Factor 5: A |_1_|_0_| + B |_0_| + C |_1_|_0_| = |_2_|_0_| **TOTAL**

FACTOR 6: Proximity to Near Coastal Waters

A. Base Score: Enter flow code here (from Factor 2): |_5_|_3_| *Enter the multiplication factor that corresponds to the flow code:* |_.|_6_|

Check appropriate facility HPRI Code (from PCS):

HPRI #	*Code*	*HPRI Score*	**Flow Code**	**Multiplication Factor**
___ 1	1	20	11, 31, or 41	0.00
			12, 32, or 42	0.05
___ 2	2	0	13, 33, or 43	0.10
			14 or 34	0.15
_X_ 3	3	30	21 or 51	0.10
			22 or 52	0.30
___ 4	4	0	23 or 53	0.60
			24	1.00
___ 5	5	20		

HPRI code checked: |___|

Base Score: (HPRI Score) __30__ x (Multiplication Factor) ____.6____ = ____18_____ (TOTAL POINTS)

B. Additional Points--NEP Program
For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions) or the Chesapeake Bay?

	Code	Points
_x_ Yes	1	10
___ No	2	0

C. Additional Points--Great Lakes Area of Concern
for a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (see instructions)

	Code	Points
___ Yes	1	10
___ No	2	0

Code Number Checked: A |_3_| B |_1_| C |__2|

Points Factor 6: A |_1_|_8_| + B |_1_|_0_| + C |_ _|_0_| = |_____28_____| **TOTAL**

13-4

NPDES Permit Rating Work Sheet

NPDES NO: |_V_|_A_|_0_|_0_|_0_|_4_|_0_|_4_|_9_|

SCORE SUMMARY

Factor	Description	Total Points
1	Toxic Pollutant Potential	5
2	Flow/Stream flow Volume	30
3	Conventional Pollutants	15
4	Public Health Impacts	0
5	Water Quality Factors	20
6	Proximity to Near Coastal Waters	28
	TOTAL (Factors 1-6)	**98**

S1. Is the total score equal to or greater than 80? _X__ Yes (Facility is a major) ___ No

S2. If the answer to the above question is no, would you like this facility to be discretionary major?
___ No
___ Yes (add 500 points to the above score and provide reason below:

Reason:

_____

_____

_____

_____

_____

NEW SCORE: ___98_____

OLD SCORE: ___98_____

Debra L. Thompson

Permit Reviewer's Name

(757) 518-2162
Phone Number

April 12, 2010
Date

Revised 2/2003

13-5

State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: Tyson Farms, Inc

NPDES Permit Number: VA0004049

Permit Writer Name: Debra L. Thompson Debra L. Thompson

Date: April 12, 2010

Major [X] **Minor** [ ] **Industrial** [x] **Municipal** [ ]

I.A. Draft Permit Package Submittal Includes:	**Yes**	**No**	**N/A**
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?		X	
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?	X		
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?		X	
8. Whole Effluent Toxicity Test summary and analysis?	X		
9. Permit Rating Sheet for new or modified industrial facilities?	X		

I.B. Permit/Facility Characteristics	**Yes**	**No**	**N/A**
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet **or** permit contain a description of the wastewater treatment process?	X		

I.B. Permit/Facility Characteristics - cont.	Yes	No	N/A
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	
6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	
7. Does the fact sheet **or** permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water?	X		
a. Has a TMDL been developed and approved by EPA for the impaired water?	X		
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?			
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?	X		
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?	X		
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		X	
12. Are there any production-based, technology-based effluent limits in the permit?	X		
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any WQBELs based on an interpretation of narrative criteria?	X		
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?		X	
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

13-7

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Checklist – for POTWs

(To be completed and included in the record only for POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?			
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?			

II.B. Effluent Limits - General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?			
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			

II.C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1. Does the permit contain numeric limits for ALL of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?			
2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?			
a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			
3. Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?			
4. Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?			
5. Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?			
a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?			

13-8

2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			
II.D. Water Quality-Based Effluent Limits – cont.	**Yes**	**No**	**N/A**
3. Does the fact sheet provide effluent characteristics for each outfall?			
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?			
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?			
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?			
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?			
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?			
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?			
6. For all final WQBELs, are BOTH long-term AND short-term effluent limits established?			
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?			
8. Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?			

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?			
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?			
3. Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?			
4. Does the permit require testing for Whole Effluent Toxicity?			

II.F. Special Conditions	Yes	No	N/A
1. Does the permit include appropriate biosolids use/disposal requirements?			

2. Does the permit include appropriate storm water program requirements?			

II.F. Special Conditions – cont.	**Yes**	**No**	**N/A**
3. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			
4. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?			
5. Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?			
6. Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?			
a. Does the permit require implementation of the "Nine Minimum Controls"?			
b. Does the permit require development and implementation of a "Long Term Control Plan"?			
c. Does the permit require monitoring and reporting for CSO events?			
7. Does the permit include appropriate Pretreatment Program requirements?			

II.G. Standard Conditions	**Yes**	**No**	**N/A**
1. Does the **permit** contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?			

List of Standard Conditions – 40 CFR 122.41

Duty to comply
Duty to reapply
Need to halt or reduce activity not a defense
Duty to mitigate
Proper O & M
Permit actions

Property rights
Duty to provide information
Inspections and entry
Monitoring and records
Signatory requirement
Bypass
Upset

Reporting Requirements
- Planned change
- Anticipated noncompliance
- Transfers
- Monitoring reports
- Compliance schedules
- 24-Hour reporting
- Other non-compliance

2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for POTWs regarding notification of new introduction of pollutants and new industrial users [40 CFR 122.42(b)]?			

13-10

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Review Checklist – For Non-Municipals

(To be completed and included in the record for all non-POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet **or** permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

II.B. Effluent Limits - General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?	X		

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ)	**Yes**	**No**	**N/A**
1. Is the facility subject to a national effluent limitations guideline (ELG)?	X		
a. If yes, does the record adequately document the categorization process, including an evaluation of whether the facility is a new source or an existing source?	X		
b. If no, does the record indicate that a technology-based analysis based on Best Professional Judgement (BPJ) was used for all pollutants of concern discharged at treatable concentrations?			X
2. For all limits developed based on BPJ, does the record indicate that the limits are consistent with the criteria established at 40 CFR 125.3(d)?	X		
3. Does the fact sheet adequately document the calculations used to develop both ELG and /or BPJ technology-based effluent limits?	X		
4. For all limits that are based on production or flow, does the record indicate that the calculations are based on a "reasonable measure of ACTUAL production" for the facility (not design)?	X		
5. Does the permit contain "tiered" limits that reflect projected increases in production or flow?		X	
a. If yes, does the permit require the facility to notify the permitting authority when alternate levels of production or flow are attained?			
6. Are technology-based permit limits expressed in appropriate units of measure (e.g., concentration, mass, SU)?	X		

13-11

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ) – cont.	Yes	No	N/A
7. Are all technology-based limits expressed in terms of both maximum daily, weekly average, and/or monthly average limits?		X	
8. Are any final limits less stringent than required by applicable effluent limitations guidelines or BPJ?		X	

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the record indicate that any WQBELs were derived from a completed and EPA approved TMDL?	X		
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	X		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			X
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?	X		
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations where data are available)?	X		
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?	X		
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	X		
6. For all final WQBELs, are BOTH long-term (e.g., average monthly) AND short-term (e.g., maximum daily, weekly average, instantaneous) effluent limits established?		X	
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the fact sheet indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	X		

13-12

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?	X		
3. Does the permit require testing for Whole Effluent Toxicity in accordance with the State's standard practices?	X		

II.F. Special Conditions	Yes	No	N/A
1. Does the permit require development and implementation of a Best Management Practices (BMP) plan or site-specific BMPs?		X	
a. If yes, does the permit adequately incorporate and require compliance with the BMPs?			
2. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			X
3. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?			X

II.G. Standard Conditions	Yes	No	N/A
1. Does the **permit** contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X		

List of Standard Conditions – 40 CFR 122.41

Duty to comply
Duty to reapply
Need to halt or reduce activity not a defense
Duty to mitigate
Proper O & M
Permit actions

Property rights
Duty to provide information
Inspections and entry
Monitoring and records
Signatory requirement
Bypass
Upset

Reporting Requirements
- Planned change
- Anticipated noncompliance
- Transfers
- Monitoring reports
- Compliance schedules
- 24-Hour reporting
- Other non-compliance

2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for existing non-municipal dischargers regarding pollutant notification levels [40 CFR 122.42(a)]?	X		

13-13

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	Debra L. Thompson
Title	Environmental Engineer Senior
Signature	Debra L. Thompson
Date	April 12, 2010

ATTACHMENT 14

CHRONOLOGY SHEET

VPDES Individual Permit

VPDES Individual Permit

Permit No: VA0004049 | User Manual | Application / Active / History | Facility: Tyson Foods Inc - Temperanceville

Owner: Tyson Foods Incorporated | Permit Writer: Thompson Debra L

General Information | Events | Special Conditions—Permit | Outfall Information/Limits | Billing Info | Land Application | GIS Information

Events

Code	Description	Date Anticipated	Date Completed	Comments
PREVFLED	Old expiration date		02/21/2010	
DTLP	Reissuance letter mailed		02/21/2009	
APRPHOCAL1	First Application Reminder Phone Call	04/22/2009	04/22/2009	
APRPHOCAL2	Second Application Reminder Phone Call	06/22/2009	06/22/2009	
APDU	Reissuance application due	08/21/2009	08/14/2009	
APRD	Application received at RO 1st time		08/14/2009	
APRD2	Applic/Additional info received at RO 2nd ti		08/24/2009	chemical storage
ROAPCP	Application Administratively complete		08/04/2010	
APCOMLET	App complete letter sent to permittee		08/05/2010	
DT1VDH	App sent to State Agencies (list in comme		08/19/2009	via ftp site to dss,vdh,vmrc
DTFED	App sent to Fed Agencies (list in commen			
DTC1VDH	Comments rec'vd from State Agencies on		08/21/2009	vdh-no coments
APCP	Application totally / technically complete		08/04/2010	
DTSITE	Site visit		03/18/2010	
DTSITERP	Site inspection report		03/24/2010	
DTDDP	Draft permit developed		01/05/2010	
DTREV	Draft reviewed		08/10/2010	to MHS for review (dp & fs)
DT1PLAN	FS/SOB draft permit sent to planning		08/02/2010	tier determination
DTPLAN	Planning concurrence on draft permit			
DTEPA	FS/SOB draft permit sent to EPA/OWPS			
DTC2EPA	EPA concurrence on draft permit			
DTPKVDH	FS/SOB draft permit sent to State Agencies			
DTC2VDH	VDH concurrence on draft permit			
DTPKVMS	VMRC concurrence on draft permit			
DTOWN1	FS/SOB draft permit sent to owner			
DTOBJ1	First time comments received from owne			
DTOWN2	FS/SOB draft permit sent to owner 2nd tim			
DTOWNC2	Second time comments received from ow			
DTOWNC4	Owner concurrence of draft permit			
DTPNAUT	Public notice authorization received from t			
DTNEWS	Public notice letter sent to newspaper			
PN2CO	PN sent to CO for mailing list web site dist			
LGNPERM	Local gov't notification			
PNO1	Date of Public Notice			
PNHEAR	Public hearing date			
DTSIGN	Date Permit signed			
DTEFF	Permit effective			
DTDMRDUE	First DMR due			
FLED	Permit expires		02/21/2010	
MISC	Miscellaneous		07/30/2010	SW info not associated w reg area
MISC	Miscellaneous		06/09/2010	request to delete 002
APRD4	Applic/Additional info received at RO 4th ti		05/10/2010	05/14/10 SW info, live weight kll info
APRD3	Applic/Additional info received at RO 3rd ti		03/17/2010	002 information
MISC	Miscellaneous		08/04/2010	Form 2F rec for outfalls 003,004