

CONNEAUT TOWNSHIP

REC'D JUN 20 2011

Crawford County, Pennsylvania

**STORMWATER
MANAGEMENT
ORDINANCE**

CONNEAUT TOWNSHIP
Crawford County, Pennsylvania
Ordinance No. 2011 - 1

AN ORDINANCE TO ADOPT STORMWATER MANAGEMENT REGULATIONS PURSUANT TO THE PENNSYLVANIA STORM WATER MANAGEMENT ACT AND TO IMPLEMENT THE CRAWFORD COUNTY ACT 167 COUNTY-WIDE WATERSHEDS STORMWATER MANAGEMENT PLAN TO BE KNOWN AS THE CONNEAUT TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.

BE IT ORDAINED AND ENACTED by the Board of Supervisors of Conneaut Township and it is hereby ordained and enacted by and with the authority of the same as follows:

1. Adoption of Stormwater Management Ordinance. The Stormwater Management Ordinance attached hereto, which is incorporated herein by reference, is hereby adopted and enacted as the Conneaut Township Stormwater Management Ordinance.
2. Effective Date. This Ordinance and the Stormwater Management Ordinance hereby adopted shall be effective five (5) days after enactment.

ORDAINED AND ENACTED at a regular meeting of the Board of Supervisors of Conneaut Township on this 10th day of May, 2011.

CONNEAUT TOWNSHIP

By: George D Greig
Chairman

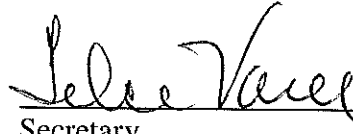
By: Timothy A Greig
Supervisor

By: _____
Supervisor

ATTEST:

Selva Vallen 5-10-11
Secretary

I hereby certify that the foregoing Ordinance was advertised in the Meadville Tribune on March 28, 2011, a newspaper of general circulation in Conneaut Township and was duly enacted and approved as set forth at a regular meeting of the Board of Supervisors of Conneaut Township held on May 10, 2011.

A handwritten signature in cursive script, appearing to read "Selma Vance", is written over a horizontal line.

Secretary

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ARTICLE I – GENERAL PROVISIONS

Section 101. Short Title

This Ordinance shall be known and may be cited as the “Conneaut Township Stormwater Management Ordinance.”

Section 102. Purpose

This Ordinance is adopted to meet the requirements of the Storm Water Management Act of Pennsylvania and to implement the Crawford County-Wide Watersheds Stormwater Management Plan adopted June 17, 2010 as required by the Act.

Section 103. [Reserved]

Section 104. Statutory Authority

This Ordinance is adopted pursuant to the authority of the Act of October 4, 1978, 32 P.S., P.L. 864 (Act 167), 32 P.S. § 680.1, *et seq.*, as amended, the “Storm Water Management Act,” and Sections 67701 through 67704 of the Second Class Township Code, 53 P.S. § 65101, *et seq.*, and the Act of July 31, 1968, P.L. 805, No. 247, the Pennsylvania Municipalities Planning Code, 53 P.S. § 10101, *et seq.*, as amended.

Section 105. Applicability

Except as set forth in Section 302 below, all “Regulated Activities” as defined below are subject to regulation by this Ordinance.

“Regulated Activities” are any earth disturbance activities or any activities that involve the alteration or development of land in a manner that may affect stormwater runoff. “Regulated Activities” include, but are not limited to, the following listed items:

- A. Earth Disturbance Activities
- B. Land Development
- C. Subdivision where earth disturbance activities are proposed
- D. Construction of new or additional impervious or semi-pervious surfaces
- E. Construction of new buildings or additions to existing buildings
- F. Alteration of any natural or man-made watercourse
- G. Installation of stormwater management facilities or appurtenances thereto
- H. Installation of stormwater BMPs

Section 106. Severability

The provisions of this Ordinance shall be severable, and if any of these provisions shall be held or declared illegal, invalid, or unconstitutional by any court of competent jurisdiction, the validity of the remaining provision of this Ordinance shall not be affected. It is hereby declared as the legislative intention that this Ordinance would have been adopted had such unconstitutional provisions not been included herein.

Section 107. Repealer

All ordinances or parts of ordinances inconsistent herewith are hereby repealed. In particular, any provisions of the Municipality's Subdivision and Land Development Ordinance, if any, are repealed to the extent they conflict with the provisions of this Ordinance.

Section 108. Compatibility with Other Ordinance Requirements

Approvals issued and actions taken pursuant to this Ordinance do not relieve the Applicant of the responsibility to comply with or to secure required permits or approvals for activities regulated by any other applicable codes, laws, rules, statutes or ordinances. To the extent that this Ordinance imposes more rigorous or stringent requirements for stormwater management, the specific requirements contained in this Ordinance shall be followed.

Earth disturbance activities and associated stormwater management controls are also regulated under existing state law and implementing regulations. This Ordinance shall be applied in a manner consistent with the state requirements, and the requirements of this Ordinance shall be no less restrictive than state law.

Section 109. [Reserved]

Section 110. Municipal Liability Disclaimer

Neither the granting of any approval under this Ordinance, nor the compliance with the provisions of this Ordinance, or with any condition imposed by a municipal official hereunder, shall relieve any person from any responsibility for damage to persons or property resulting therefrom, or as otherwise imposed by law nor impose any liability upon the Municipality for damages to persons or property.

The granting of a permit which includes any stormwater management facilities shall not constitute a representation, guarantee or warranty of any kind by the Municipality, or by an official or employee thereof, of the practicability or safety of any structure, use or other plan proposed, and shall create no liability upon or cause of action against such public body, official or employee for any damage that may result pursuant thereto.

ARTICLE II – DEFINITIONS

Section 201. General Rules of Interpretation

For the purpose of this Ordinance, certain terms and words used herein shall be interpreted as follows:

Words used in the present tense include the future tense; the singular number includes the plural; and the plural number includes the singular; words of masculine gender include feminine gender; and words of feminine gender include masculine gender.

The word “includes” or “including” shall not limit the term to the specific example but is intended to extend its meaning to all other instances of like kind and character.

The word “person” includes an individual, firm, association, organization, partnership, trust, company, corporation or any other similar entity.

The words “shall” and “must” are mandatory; the words “may” and “should” are permissive.

The words “used or occupied” include the words “intended, designed, maintained, or arranged to be used, occupied or maintained.”

Whenever reference is made to legislative, statutory or regulatory codes or provisions, the reference shall include amendments to such codes or provisions as well.

Section 202. Specific Definitions

Accelerated Erosion – The removal of the surface of the land through the combined action of human activity and natural processes at a rate greater than would occur because of the natural process alone.

Agricultural Activities - Activities associated with agriculture such as agricultural cultivation, agricultural operation, and animal heavy use areas. This includes the work of producing crops, tillage, land clearing, plowing, disking, harrowing, planting, harvesting crops, or pasturing and raising of livestock and installation of conservation measures. Construction of new buildings or impervious area is not considered an Agricultural Activity.

Alteration – As applied to land, a change in topography as a result of the moving of soil and rock from one location or position to another; changing of surface conditions by causing the surface to be more or less impervious; land disturbance.

Applicant - A landowner, developer, or other person who has filed an application for approval to engage in any Regulated Activities at a project site within the Municipality.

Best Management Practices (BMPs) - Activities, facilities, designs, measures or procedures used to manage stormwater impacts from Regulated Activities, to meet State Water Quality Requirements, to promote groundwater recharge and to otherwise meet the purposes of this

Ordinance. Stormwater BMPs are commonly grouped into one of two broad categories or measures: "non-structural" or "structural". "Non-structural" BMPs are measures referred to as operational and/or behavior-related practices that attempt to minimize the contact of pollutants with stormwater runoff whereas "structural" BMPs are measures that consist of a physical device or practice that is installed to capture and treat stormwater runoff. "Structural" BMPs include, but are not limited to, a wide variety of practices and devices, from large-scale retention ponds and constructed wetlands, to small-scale underground treatment systems, infiltration facilities, filter strips, low impact design, bioretention, wet ponds, permeable paving, grassed swales, riparian or forested buffers, sand filters, detention basins, and manufactured devices. "Structural" stormwater BMPs are permanent appurtenances to the project site.

Channel Erosion - The widening, deepening, and headward cutting of small channels and waterways, due to erosion caused by moderate to large floods.

Cistern – An underground reservoir or tank used for storing rainwater.

Conservation District – The Crawford County Conservation District. The Crawford County Conservation District has the authority under a delegation agreement executed with the Department of Environmental Protection to administer and enforce all or a portion of the regulations promulgated under 25 PA Code Chapter 102.

Culvert – A structure with appurtenant works that carries a stream and/or stormwater runoff under or through an embankment or fill.

Dam - An artificial barrier, together with its appurtenant works, constructed for the purpose of impounding or storing water or another fluid or semifluid, or a refuse bank, fill or structure for highway, railroad or other purposes which does or may impound water or another fluid or semifluid.

Design Storm - The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence (e.g., a 25-year storm) and duration (e.g., 24-hours), used in the design and evaluation of stormwater management systems. Also see Return Period.

Detention Basin - An impoundment structure designed to manage stormwater runoff by temporarily storing the runoff and releasing it at a predetermined rate.

Detention Volume - The volume of runoff that is captured and released into Waters of the Commonwealth at a controlled rate.

Developer - A person, partnership, association, corporation, or other entity, or any responsible person therein or agent thereof, that undertakes any Regulated Activity as regulated under this Ordinance.

Development Site - (Site) - The specific tract of land for which a Regulated Activity is proposed. Also see Project Site.

Disturbed Area – An unstabilized land area where an Earth Disturbance Activity is occurring or has occurred.

Drainage Conveyance Facility – A stormwater management facility designed to convey stormwater runoff and shall include streams, channels, swales, pipes, conduits, culverts, storm sewers, etc.

Drainage Easement – A right granted by a landowner to a grantee, allowing the use of private land for stormwater management, drainage, or conveyance purposes.

Drainageway – Any natural or artificial watercourse, trench, ditch, pipe, swale, channel, or similar depression into which surface water flows.

Earth Disturbance Activity – A construction or other human activity which disturbs the surface of the land, including, but not limited to, clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, timber harvesting activities, road maintenance activities, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock or earth materials.

Erosion – The movement of soil particles by the action of water, wind, ice, or other natural forces.

Erosion and Sediment Pollution Control Plan – A plan which is designed to minimize accelerated erosion and sedimentation.

Exceptional Value Waters – Surface waters of high quality, which satisfies PA Code Title 25 Environmental Protection, Chapter 93 Water Quality Standards 93.4b.(b) (relating to anti-degradation).

Existing Conditions – The initial condition of a project site prior to the proposed construction. If the initial condition of the site is undeveloped land and not forested, the land use shall be considered as “meadow” unless the natural land cover is documented to generate lower Curve Numbers or Rational “C” Coefficient.

FEMA – The Federal Emergency Management Agency.

Flood – A general but temporary condition of partial or complete inundation of normally dry land areas from the overflow of streams, rivers, and other Waters of the Commonwealth.

Flood Fringe – The remaining portions of the 100-year floodplain outside of the floodway boundary.

Floodplain – Any land area susceptible to inundation by water from any natural source or delineated by applicable Department of Housing and Urban Development, Federal Insurance Administration Flood Hazard Boundary – mapped as being a special flood hazard area. Included are lands adjoining a river or stream that have been or may be inundated by a 100-year flood. Also included are areas that comprise Group 13 Soils, as listed in Appendix A of the Pennsylvania Department of Environmental Protection (PADEP) Technical Manual for Sewage Enforcement Officers (as amended or replaced from time to time by PADEP).

Floodway – The channel of the watercourse and those portions of the adjoining floodplains that are reasonably required to carry and discharge the 100-year frequency flood. Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the 100-year frequency floodway, it is assumed – absent evidence to the contrary – that the floodway extends from the stream to 50 feet landward from the top of the bank of the stream.

Forest Management/Timber Operations – Planning and activities necessary for the management of forestland. These include timber inventory and preparation of forest management plans, silvicultural treatment, cutting budgets, logging road design and construction, timber harvesting, site preparation and reforestation.

Freeboard – A vertical distance between the elevation of the design high water and the top of a dam, levee, tank, basin, or diversion ridge. The space is required as a safety margin in a pond or basin.

Grade – A slope, usually of a road, channel or natural ground specified in percent and shown on plans as specified herein.

(To) Grade – To finish the surface of a roadbed, top of embankment or bottom of excavation.

Groundwater Recharge – Replenishment of existing natural underground water supplies.

High Quality Waters – Surface water having quality, which exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water by satisfying PA Code Title 25 Environmental Protection, Chapter 93 Water Quality Standards 93.4b(a).

Hydrologic Soil Group (HSG) – Infiltration rates of soils vary widely and are affected by subsurface permeability as well as surface intake rates. Soils are classified into one of four HSG (A, B, C, and D) according to their minimum infiltration rate, which is obtained for bare soil after prolonged wetting. The Natural Resource Conservation Service (NRCS) of the U.S. Department of Agriculture defines the four groups and provides a list of most of the soils in the United States and their group classification. The soils in the area of interest may be identified from a soil survey report from the local NRCS office or the County Conservation District.

Impervious Surface (Impervious Area) – A surface that prevents the infiltration of water into the ground. Impervious surface (or areas) include, but is not limited to: roofs, additional indoor living spaces, patios, garages, storage sheds and similar structures, parking or driveway areas, and any new streets and sidewalks. Any surface areas proposed to initially be gravel or crushed stone shall be assumed to be impervious surfaces.

Impoundment – A retention or detention basin designed to retain stormwater runoff and release it at a controlled rate.

Infiltration Structures – A structure designed to direct runoff into the ground (e.g., french drains, seepage pits, seepage trench, etc.).

Inlet – A surface connection to a closed drain. A structure at the diversion end of a conduit. The upstream end of any structure through which water may flow.

Land Development (Development) – (i) The improvement of one lot or two or more contiguous lots, tracts or parcels of land for any purpose involving (a) a group of two or more buildings, or (b) the division or allocation of land or space between or among two or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds, condominiums, building groups, or other features; (ii) Any subdivision of land; (iii) Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code.

Low Impact Development (LID) – An approach to land development that uses various land planning and design practices and technologies to simultaneously conserve and protect natural resource systems and reduce infrastructure costs. LID still allows land to be developed, but in a cost-effective manner that helps mitigate potential environmental impacts.

Landowner – The legal or beneficial owner or owners of land including the holder of an option or contract to purchase (whether or not such option or contract is subject to any condition), a lessee if he is authorized under the lease to exercise the rights of the landowner, or other person having a proprietary interest in land.

Manning Equation (Manning Formula) – A method for calculation of velocity of flow (e.g., feet per second) and flow rate (e.g., cubic feet per second) in open channels based upon channel shape, roughness, depth of flow and slope. “Open channels” may include closed conduits so long as the flow is not under pressure.

Municipality – Conneaut Township, Crawford County, Pennsylvania, and its governing body.

Municipalities Planning Code (MPC) – Act 247 of 1968 as reenacted and amended by Act 170 of 1988, as amended, 53 P.S. § 10101, *et seq.*

National Pollutant Discharge Elimination System (NPDES) – The federal government’s system for issuance of permits under the Clean Water Act, which is delegated to PADEP in Pennsylvania.

NOAA Atlas 14 – Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, Hydrometeorological Design Studies Center, Silver Spring, Maryland (2004). NOAA’s Atlas 14 can be accessed at internet address <http://hdsc.nws.noaa.gov/hdsc/pfds/>.

NRCS – Natural Resources Conservation Services (previously Soil Conservation Service (SCS)).

Open Channel – A drainage element in which stormwater flows with an open surface. Open channels include, but shall not be limited to, natural and man-made drainageways, swales, streams, ditches, canals, and pipes not under pressure.

Outfall – (i) Point where water flows from a conduit, stream, or drain; (ii) “Point Source” as described in 40 CFR § 122.2 at the point where the Municipality’s storm sewer system discharges to surface Waters of the Commonwealth.

Outlet – Points of water disposal from a stream, river, lake, tidewater, or artificial drain.

Owner – As related to stormwater management facilities, shall mean the person(s) with title to, proprietary or possessory interest in, or control of, or legal responsibility for the stormwater management facility(s) and their maintenance.

PADEP – The Pennsylvania Department of Environmental Protection or its successor.

Peak Discharge – The maximum rate of stormwater runoff from a specific storm event.

Person – An individual, partnership, public or private association or corporation, or a governmental unit, public utility or any other legal entity whatsoever which is recognized by law as the subject of rights and duties.

Pervious Area – Any area not defined as impervious.

Pipe – A culvert, closed conduit, or similar structure (including appurtenances) that conveys stormwater.

Project Site – The specific area of land where any Regulated Activities in the Municipality are planned, conducted or maintained.

Qualified Professional – Any person licensed by the Pennsylvania Department of State or otherwise qualified by law to perform the work required by the Ordinance.

Rational Formula – A rainfall-runoff relation used to estimate peak flow.

Regulated Activities – Any earth disturbance activities or any activities that involve the alteration or development of land in a manner that may affect stormwater runoff. (See Section 105)

Regulated Earth Disturbance Activity – Activity involving Earth Disturbance subject to regulation under 25 PA Code Chapter 92, Chapter 102, or the Clean Streams Law.

Release Rate – The percentage of pre-development peak rate of runoff from a site or subwatershed area to which the post-development peak rate of runoff must be reduced to protect downstream areas.

Release Rate District – Those subwatershed areas in which post-development flows must be reduced to a certain percentage of pre-development flows as required to meet the plan requirements and the goals of Act 167.

Responsible Person or **Person Responsible** – An owner, renter, tenant, lessor, lessee, manager, agent or any fiduciary person with power of attorney or other person who is occupying or having

charge of, possession or control of the premises or has the authority and ability to act on behalf of, or in the interest of, the owner.

Retention Basin – An impoundment in which stormwater is stored and not released during the storm event. Stored water may be released from the basin at some time after the end of the storm.

Retention Volume/Removed Runoff – The volume of runoff that is captured and not released directly into the surface Waters of this Commonwealth during or after a storm event.

Return Period – The average interval, in years, within which a storm event of a given magnitude can be expected to recur. For example, the 25-year return period rainfall would be expected to recur on the average once every twenty-five years; or stated in another way, the probability of a 25-year storm occurring in any one given year is 0.04 (i.e. a 4% chance).

Riparian Buffer – A vegetated area bordering perennial and intermittent streams and wetlands, that serves as a protective filter to help protect streams and wetlands from the impacts of adjacent land uses.

Riser – A vertical pipe extending from the bottom of a pond that is used to control the discharge rate from the pond for a specified design storm.

Road Maintenance – Earth disturbance activities within the existing road right-of-way, such as grading and repairing existing unpaved road surfaces, cutting road banks, cleaning or clearing drainage ditches, and other similar activities. Road maintenance activities that do not disturb the subbase of a paved road (such as milling and overlays) are not considered earth disturbance activities.

Runoff – Any part of precipitation that flows over the land surface.

Sediment – Soils or other materials transported by surface water as a product of erosion.

Sedimentation – The process by which mineral or organic matter is accumulated or deposited by the movement of water.

Seepage Pit/Seepage Trench – An area of excavated earth filled with loose stone or similar coarse material, into which surface water is directed for infiltration into the ground.

Separate Storm Sewer System – A conveyance or system of conveyances (including roads with drainage systems, Municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) primarily used for collecting and conveying stormwater runoff.

Sheet Flow – Runoff that flows over the ground surface as a thin, even layer, not concentrated in a channel.

Spillway (Emergency) – A depression in the embankment of a pond or basin, or other overflow structure, that is used to pass peak discharges greater than the maximum design storm controlled by the pond or basin.

State Water Quality Requirements – The regulatory requirements to protect, maintain, reclaim, and restore water quality under Title 25 of the Pennsylvania Code and the Clean Streams Law.

Storage Indication Method – A reservoir routing procedure based on solution of the continuity equation (inflow minus outflow equals the change in storage) with outflow defined as a function of storage volume and depth.

Storm Frequency – The number of times that a given storm “event” occurs or is exceeded on the average in a stated period of years. See also Return Period.

Storm Sewer – A system of pipes and/or open channels that convey intercepted runoff and stormwater from other sources, but excludes domestic sewage and industrial wastes.

Stormwater – Drainage runoff from the surface of the land resulting from precipitation, snow or ice melt.

Stormwater Hotspot – A land use or activity that generates higher pollutants than are found in typical stormwater runoff and have a high potential to endanger local water quality, and could potentially threaten ground water reservoirs.

Stormwater Management Facilities – Any structure, natural or man-made, that, due to its condition, design, or construction, conveys, stores, or otherwise affects stormwater runoff. Typical stormwater management facilities include, but are not limited to: detention and retention basins, open channels, storm sewers, pipes and infiltration facilities.

Stormwater Management Plan – The Crawford County Stormwater Management Plan for managing stormwater runoff in Crawford County as required by the Act of October 4, 1978, P.L. 864, (Act 167) and known as the “Storm Water Management Act.”

Stormwater Management Site Plan (SWM Site Plan) – The plan prepared by the Applicant or his representative indicating how stormwater runoff will be managed at the project site in accordance with this Ordinance.

Subwatershed Area – The smallest drainage unit of a watershed for which stormwater management criteria has been established in the Stormwater Management Plan.

Subdivision – The division or re-division of a lot, tract, or parcel of land by any means, into two or more lots, tracts, parcels or other divisions of land including changes in existing lot lines for the purpose, whether immediate or future, or lease, transfer of ownership, or building or lot development, provided; however, that the subdivision by lease of land for agricultural purposes into parcels of more than ten acres, not involving any new street or easement of access or any residential dwellings, shall be exempt (Pennsylvania Municipalities Planning Code, Act of July 31, 1968, P.L. 805, No. 247).

Swale – A low-lying stretch of land that gathers or carries surface water runoff.

Timber Operations – See “Forest Management.”

Time of Concentration (T_c) – The time for surface runoff to travel from the hydraulically most distant point of the watershed to a point of interest within the watershed. This time is the combined total of overland flow time and flow time in pipes or channels, if any.

USDA – The United States Department of Agriculture.

Watercourse – A channel or conveyance of surface water, such as a stream or creek, having defined bed and banks, whether natural or artificial, with perennial or intermittent flow.

Waters of the Commonwealth – Rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs and other bodies or channels of conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of the Commonwealth of Pennsylvania.

Watershed – Area drained by a river, watercourse, or other surface water, whether natural or artificial.

Wetland – Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs and similar areas. (The term includes but is not limited to wetland areas listed in the State Water Plan, the United States Forest Service Wetlands Inventory of Pennsylvania, the Pennsylvania Coastal Zone Management Plan and a wetland area designated by a river basin commission. This definition is used by the United States Environmental Protection Agency and the United States Army Corps of Engineers.)

ARTICLE III – STORMWATER MANAGEMENT STANDARDS

Section 301. General Requirements

- A. For all Regulated Activities, unless specifically exempted in Section 302:
 - 1. Preparation and implementation of an approved SWM Site Plan and Report is required.
 - 2. No Regulated Activities shall commence until the Municipality issues written approval of a SWM Site Plan and Report, which demonstrates compliance with the requirements of this Ordinance.
 - 3. The SWM Site Plan and Report shall demonstrate that adequate capacity will be provided to meet the Volume and Rate Control Requirements, as described under Sections 304 and 305 of this Ordinance.

- B. For all Regulated Activities, stormwater BMPs shall be designed, installed, implemented, operated, and maintained to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code and the Clean Streams Law, conform to the State Water Quality Requirements, meet all requirements under the Storm Water Management Act and any more stringent requirements as determined by the Municipality.

- C. For all Regulated Earth Disturbance Activities, erosion and sediment control BMPs shall be designed, implemented, operated, and maintained during the Regulated Earth Disturbance Activities (e.g., during construction) to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the PA Code (including, but not limited to Chapter 102 Erosion and Sediment Control) and the Clean Streams Law. Various BMPs and their design standards are listed in the *Erosion and Sediment Pollution Control Program Manual (E&S Manual)*, No. 363-2134-008 (April 15, 2000), as amended and updated.

- D. All Regulated Activities shall include, to the maximum extent practicable, measures to:
 - 1. Protect health, safety, and property.
 - 2. Meet the water quality goals of this Ordinance by implementing measures to:
 - a. Minimize disturbance to floodplains, wetlands, natural slopes, existing native vegetation and woodlands.
 - b. Create, maintain, or extend riparian buffers and protect existing forested buffers.
 - c. Provide trees and woodlands adjacent to impervious areas whenever feasible.
 - d. Minimize the creation of impervious surfaces and the degradation of Waters of the Commonwealth and promote groundwater recharge.
 - e. Protect natural systems and processes (drainageways, vegetation, soils, and sensitive areas) and maintain, as much as possible, the natural hydrologic regime.

f. Incorporate natural site elements (wetlands, stream corridors, mature forests) as design elements.

E. Impervious Areas:

1. The measurement of impervious areas shall include all of the impervious areas in the total proposed development, even if development is to take place in stages.
2. For developments taking place in stages, the entire development plan must be used in determining conformance with this Ordinance.

F. If diffused flow is proposed to be concentrated and discharged onto adjacent property, the Applicant must document that adequate downstream conveyance facilities exist to safely transport the concentrated discharge, or otherwise prove that no erosion, sedimentation, flooding, or other harm will result from the concentrated discharge.

1. Applicant must provide an easement for proposed concentrated flow across adjacent properties to a drainage way or public right-of-way.
2. Such stormwater flows shall be subject to the requirements of this Ordinance.

G. Stormwater drainage systems shall be provided in order to permit unimpeded flow along natural watercourses, except as modified by stormwater management facilities or open channels consistent with this Ordinance.

H. Where watercourses traverse a development site, drainage easements (to encompass the 100-year flood elevation with a minimum width of twenty (20) feet) shall be provided conforming to the line of such watercourses. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations that may adversely affect the flow of stormwater within any portion of the easement. Maintenance, including mowing of vegetation within the easement may be required.

I. All Regulated Activities subject to the requirements of 25 PA Code Chapter 105 (regarding dam safety and water management), including but not limited to wetland encroachments, shall be approved by PADEP by issuance of a permit by PADEP. When there is a question whether wetlands may be involved, it is the responsibility of the Applicant or his agent to show that the land in question cannot be classified as wetlands; otherwise approval to work in the area must be obtained from PADEP.

J. Any stormwater management facilities regulated by this Ordinance that will be located on, or discharged onto State highway rights-of-ways shall be subject to approval by the Pennsylvania Department of Transportation (PENNDOT).

K. Minimization of impervious surfaces and infiltration of runoff through seepage beds, infiltration trenches, etc., are encouraged, where soil conditions and geology permit, to reduce the size or eliminate the need for detention facilities.

L. Infiltration BMPs should be dispensed throughout the site, made as shallow as practicable, and located to maximize use of natural on-site infiltration features while still meeting the other requirements of this Ordinance.

- M. Roof drains shall not be connected to streets, sanitary or storm sewers, or roadside ditches in order to promote overland flow and infiltration/percolation of stormwater where it is advantageous to do so. When it is more advantageous to connect directly to streets or storm sewers, then the Municipality may permit it on advice of its engineer.
- N. Low Impact Development Practices to comply with the requirements of this Ordinance and State Water Quality Requirements is encouraged.
- O. When stormwater management facilities are proposed within 1,000 feet of a downstream municipality, the Developer shall notify the downstream municipality and, upon request, provide the SWM Site Plan to the downstream municipality's engineer for review and comment.

Section 302. Exemptions

- A. 1,000 Square Feet Exemption. Regulated Activities that create new impervious areas smaller than 1,000 square feet are exempt from Stormwater Management Planning, Rate Control and Volume Control requirements.
- B. 2,500 Square Feet Exemption. Regulated Activities that create new impervious areas greater than 1,000 square feet and smaller than 2,500 square feet, are exempt from Stormwater Management Planning, Rate Control and Volume Control requirements if:
 - 1. The developer submits a Small Project Application and demonstrates to the satisfaction of the Enforcement Officer that the new impervious area is less than 2,500 square feet.
 - 2. Upon review of information reasonably available, by the Enforcement Officer in consultation with the Municipal Engineer as needed, there is sufficient reason to conclude that the Regulated Activity will meet the requirements of Sections 302 D., 302 E. and 302 F., below.
- C. 5,000 Square Feet and Single-Family Home Exemption. Regulated Activities that create new impervious areas smaller than 5,000 square feet but larger than 2,500 square feet, or that are undertaken in conjunction with construction of a new single-family home, are not exempt from the Volume Control requirements of this Ordinance, but are exempt from Stormwater Management Planning and Rate Control requirements if:
 - 1. The developer submits a Small Project Application and demonstrates to the satisfaction of the Enforcement Officer that the new impervious area is less than 5,000 square feet or that the project is construction of one new single-family dwelling.
 - 2. Upon review by the Enforcement Officer in consultation with the Municipal Engineer as needed, there is sufficient reason to conclude that the Regulated Activities will meet the requirements of Sections 302 D., 302 E. and 302 F., below.

D. All Exempt Regulated Activities shall:

1. Meet applicable State Water Quality Standards and Requirements.
2. Meet special requirements for High Quality (HQ) and Exceptional Value (EV) watersheds as applicable.
3. Protect health, safety and property.

E. All Exempt Regulated Activities shall, to the maximum extent practicable:

1. Limit disturbance of Floodplains, Wetlands, Natural Slopes over fifteen-percent (15%), existing native vegetation, and other sensitive and special value features.
2. Maintain riparian and forested buffers.
3. Limit grading and maintain non-erosive flow conditions in natural flow paths.
4. Maintain existing tree canopies near impervious areas.
5. Minimize soil disturbance and reclaim disturbed areas with topsoil and vegetation.
6. Direct runoff to pervious areas.

F. No Exempt Regulated Activity shall cause a substantial adverse impact on the following:

1. Capacities of existing drainageways and storm sewer systems.
2. Velocities and erosion.
3. Quality of runoff if direct discharge is proposed.
4. Existing known problem areas.
5. Safe conveyance of the additional runoff.
6. Downstream property owners.

G. Impervious Areas. For purposes of application of these exemptions, a calculation of new impervious areas shall include all areas of a parcel on which impervious areas have been created by Regulated Activities since the adoption of this Ordinance, and any graveled surfaces created after the effective date of this Ordinance shall be considered impervious. For subdivisions and phased developments, the impervious area calculation shall include the entire tract being developed or subdivided.

H. Agricultural activity is exempt from the rate control and SWM Site Plan preparation requirements of this Ordinance provided the activities are performed according to the requirements of 25 PA Code Chapter 102.

- I. Forest management and timber operations are exempt from the Rate and Volume Control requirement and SWM Site Plan preparation requirement of this Ordinance provided the activities are performed according to the requirements of 25 PA Code Chapter 102. It should be noted that temporary roadways are not exempt.
- J. Regulated Activities may be exempted from various requirements of this Ordinance if documentation can be provided that a downstream man-made water body (i.e., reservoir, lake, or man-made wetlands) has been designed or modified to meet the Rate and Volume Control requirement for the Regulated Activities.

Section 303. Waivers

- A. Waivers. Waivers from the strict requirements of this Ordinance may be granted by the governing body under the standards set forth in this Section 303.
- B. Grounds for Waiver. If an applicant demonstrates that any mandatory provision of this Ordinance is unreasonable or causes unique or undue hardship as applied to the proposed Project, or that an alternate design may result in a superior result, the governing body of the Municipality upon obtaining the comments and recommendations of the Municipal Engineer may grant a waiver or relief so that substantial justice may be done and the public interest is secured; provided that such waiver will not have the effect of nullifying the intent and purpose of this Ordinance.
- C. Waivers shall not be issued from implementing such measures as necessary to:
 - 1. Meet State Water Quality Standards and Requirements.
 - 2. Protect health, safety and property.
 - 3. Meet special requirements for High Quality (HQ) and Exceptional Value (EV) watersheds.
- D. Application for Waiver. The Applicant shall submit all requests for waivers in writing and shall include such requests as a part of the plan review and approval process. The Applicant shall state in full the facts on which the request is based, the provision or provisions of the Ordinance that are involved, and the minimum waiver or relief that is necessary. The Applicant shall state how the requested waiver and how the Applicant's proposal shall result in an equal or better means of complying with the intent or purpose and general principles of this Ordinance.
- E. Fees. The Municipality may charge a fee for each waiver request, which shall be used to offset the administrative costs of reviewing the waiver request. The Applicant shall also agree to reimburse the Municipality for reasonable and necessary fees that may be incurred by the Municipal Engineer in any review of a waiver request.
- F. Standards for Waivers. Applications for waivers may be granted when the following findings are made, as relevant:
 - 1. That the waiver shall result in an equal or better means of complying with the intent of this Ordinance.

2. That the waiver is the minimum necessary to provide relief.
3. That the applicant is not requesting a waiver based on cost considerations.
4. That existing down gradient stormwater problems will not be exacerbated.
5. That runoff is not being diverted to a different drainage area.
6. That increased flooding or ponding on off-site properties or roadways will not occur.
7. That potential hazardous icing conditions will not occur.
8. That increase of peak flow (design storms up to 100-year) or volume (design storms up to 2-year) from the site will not occur.
9. That erosive conditions due to increased peak flows or volume will not occur.
10. That adverse impact to water quality will not result.
11. That an increase in 100-Year Floodplain levels will not result.
12. That increased or unusual municipal maintenance expenses will not result from the waiver.
13. That the amount of stormwater generated has been minimized to the greatest extent allowed.
14. That infiltration of runoff throughout the proposed site has been provided where practicable and pre-development ground water recharge protected.
15. That peak flow attenuation of runoff has been provided.
16. That long term operation and maintenance activities are established.
17. That the receiving streams and/or water bodies will not be adversely impacted in flood carrying capacity, aquatic habitat, channel stability and erosion and sedimentation.
18. That State Water Quality Standards and Requirements will be met.
19. That special requirements for High Quality (HQ) and Exceptional Value (EV) watersheds will be met.
20. That the waiver will not have adverse impact on health, safety and property.

G. Record. The Municipality shall keep a written record of all actions on waiver requests.

H. Conditions. In granting waivers, the Municipality may impose reasonable conditions as will, in its judgment, substantially secure the objectives of the standards or requirements that are to be modified.

I. The Municipality may accept alternative stormwater management controls to the Rate Control and/or Volume Control requirements provided that:

1. The Municipality, in consultation with PADEP, determines that meeting the Rate Control and/or Volume Control requirements (See Section 304) is not possible or places an undue hardship on the Applicant.
2. The alternative controls are documented to be acceptable to PADEP, for NPDES requirements pertaining to post-construction stormwater management requirements.
3. The alternative controls are in compliance with all other sections of this Ordinance, including but not limited to Sections 301 D. and 302 D., E. and F.

Section 304. Volume Controls

- A. The Low Impact Development Practices provided in the BMP Manual and in Appendix B of this Ordinance shall be utilized for all Regulated Activities to the maximum extent practicable.
- B. Stormwater runoff Volume Controls shall be implemented using the *Design Storm Method* or the *Simplified Method* as defined below. For Regulated Activity areas equal or less than one (1) acre that do not require hydrologic routing to design the stormwater facilities, this Ordinance establishes no preference for either method; therefore, the Applicant may select either method on the basis of economic considerations, the intrinsic limitations on applicability of the analytical procedures associated with each methodology, and other factors.
 1. The *Design Storm Method* (CG-1 in the BMP Manual) is applicable to any sized Regulated Activity. This method requires detailed modeling based on site conditions.
 - a. Do not increase the post-development total runoff volume when compared to the pre-development total runoff volume for the 2-year/24-hour storm event.
 - b. For hydrologic modeling purposes:
 - i. Existing non-forested pervious areas must be considered meadow (good condition) for pre-development hydrologic calculations.
 - ii. Twenty-percent (20%) of existing impervious area, when present within the proposed project site, shall be considered meadow (good condition) for pre-development hydrologic calculations for re-development.
 2. The *Simplified Method* (CG-2 in the BMP Manual) is independent of site conditions and should be used if the *Design Storm Method* is not followed. This method is not applicable to Regulated Activities greater than one (1) acre or for projects that require detailed design of stormwater storage facilities. For new impervious surfaces:
 - a. Stormwater facilities shall capture at least the first two (2) inches of runoff from all new impervious surfaces.
 - b. At least the first one (1) inch of runoff from new impervious surfaces shall be permanently removed from the runoff flow, i.e. it shall not be released into surface Waters of the Commonwealth. Removal options include reuse, evaporation, transpiration and infiltration.
 - c. Wherever possible, infiltration facilities should be designed to accommodate infiltration of the entire permanently removed runoff;

however, in all cases at least the first 0.5 inch of the permanently removed runoff should be infiltrated.

- d. Actual field infiltration tests at the location of the proposed elevation of the stormwater BMPs are required. Infiltration test shall be conducted in accordance with the BMP Manual. Notification of the Municipality shall be provided to allow witnessing of the testing.
 - e. Proposed graveled areas shall be considered impervious.
3. In cases where it is not possible or desirable to use infiltration-based best management practices to partially fulfill the requirements in either Section 304 B.1 or 304 B.2, the following procedure shall be used:

- a. At a minimum, the following documentation shall be provided to justify the decision to not use infiltration BMPs:
 - i. Description of and justification for field infiltration/permeability testing with respect to the type of test and test locations.
 - ii. An interpretive narrative describing existing site soils and their structure as these relate to the interaction between soils and water occurring on the site. In addition to providing soil and soil profile descriptions, this narrative shall identify depth to seasonal high water tables and depth to bedrock, and provide a description of all subsurface elements (fragipans and other restrictive layers, geology, etc.) that influence the direction and rate of subsurface water movement.
 - iii. A qualitative assessment of the site's contribution to annual aquifer recharge shall be made, along with identification of any restrictions or limitations associated with the use of engineered infiltration facilities.
 - iv. The provided documentation must be signed and sealed by a professional engineer or geologist.
- b. The following water quality pollutant load reductions will be required for all disturbed areas within the proposed development:

Pollutant Load	Units	Required reduction (%)
Total Suspended Solids (TSS)	Pounds	85
Total Phosphorous (TP)	Pounds	85
Total Nitrate (NO ₃)	Pounds	50

- c. The performance criteria for water quality best management practices shall be determined from the Pennsylvania Stormwater Best Management Practices Manual, most current version.

- C. The applicable Worksheets from the BMP Manual must be used in calculations to establish Volume Control. Worksheets documenting Volume Control Credits are also acceptable.

Section 305. Rate Controls

- A. For lands contained within Crawford County that have not had release rates established under an approved Act 167 Stormwater Management Plan: The post-development discharge rates shall not exceed the pre-development discharge rates for the 1-year, 2-year, 10-year, 25-year, 50-year and 100-year storms.
- B. For lands contained within Crawford County that have had release rates established under and approved Act 167 Stormwater Management Plan: The post-development peak discharge rates shall be in accordance with the approved release rate map for the individual watershed.

Section 306. Sensitive Areas and Stormwater Hotspots

- A. Sensitive Area Requirements. Regulated Activities in “Sensitive Areas” and “Stormwater Hotspots” as defined below shall meet the performance standards set forth below.
- B. Definitions.
 - 1. “Sensitive Areas” are defined as those areas that, if developed, have the potential to endanger a water supply. These areas consist of the delineated 1-year zone of contribution and direct upslope areas tributary to the water supply wells. Municipalities may update the sensitive area boundaries based on new research or studies as required.
 - 2. “Stormwater Hotspots” are land development projects that have a high potential to endanger local water quality, and could potentially threaten ground water reservoirs. The PADEP wellhead protection contaminant source list shall be used as a guide in these determinations. Industrial manufacturing site and hazardous material storage areas must provide NPDES SIC codes. Industrial sites referenced in 40 CFR § 125 are also examples of Stormwater Hotspots.
- C. Performance Standards
 - 1. The location of the boundaries of sensitive areas is set by drainage areas tributary to any public water supply. The exact location of these boundaries as they apply to a given development site, shall be determined using mapping at a scale which accurately defines the limits of the sensitive area. If the project site is within the sensitive area (in whole or in part), two (2) foot contour interval mapping shall be provided to define the limits of the sensitive area. If the project site is adjacent to but within 500 linear feet of a defined Sensitive Area, a five (5) foot contour interval map defining the limits of the Sensitive Area shall be included in the SWM Site Plan to document the site’s location relative to the sensitive area.

2. Developments may be required to prepare and implement a stormwater pollution prevention plan and file notice of intent as required under the provision of the EPA Industrial Stormwater NPDES Permit Requirements.
3. Stormwater Hotspot developments must use an acceptable pre-treatment BMP prior to volume control and/or rate control BMPs. Acceptable pre-treatment BMPs for these developments include those based on filtering, settling, or chemical reaction processes such as coagulation.

ARTICLE IV – PROTECTED WATERSHED STANDARDS

Section 401. Protected Watershed Requirements

- A. For any Regulated Activity within a protected watershed (High Quality or Exceptional Value), the applicant shall meet requirements as contained in 25 PA Code Chapter 93 as required and applicable, and those set forth in Section 401 of this Ordinance.
- B. An Existing Resources and Site Analysis Plan shall be prepared to provide the developer and the Municipality with a comprehensive analysis of existing conditions, both on the proposed development site and within 500 feet of the site. Conditions beyond the parcel boundaries may be described on the basis of existing published data available from governmental agencies and from aerial photographs. The Municipality shall review the plan to assess its accuracy, conformance with Municipal ordinances, and likely impact upon the natural and cultural resources on the property. The following information shall be required:
 1. Complete current perimeter boundary survey of the property to be subdivided or developed prepared by a registered surveyor, showing all courses, distances, and area and tie-ins to all adjacent intersections.
 2. A vertical aerial photograph enlarged to a scale not less detailed than one (1) inch equals 400 feet, with the site boundaries clearly marked.
 3. Natural features, including:
 - a. Contour lines at intervals of not more than two (2) feet. (Ten (10) foot intervals are permissible beyond the parcel boundaries, interpolated from USGS published maps.) Contour lines shall be based on information derived from a topographic survey for the property, evidence of which shall be submitted, including the date and source of the contours. Datum to which contour elevations refer and references to known, established benchmarks and elevations shall be included on the plan.
 - b. Steep slopes in the following ranges fifteen-percent (15%) to twenty-five-percent (25%), twenty-five-percent (25%) and greater. The location of these slopes shall be graphically depicted by category on the plan. Slope shall be measured over three (3) or more two (2) foot contour intervals.
 - c. Areas within the floodway, flood fringe, and approximated floodplain.
 - d. Watercourses, either continuous or intermittent and named or unnamed, and lakes, ponds or other water features as depicted on the USGS Quadrangle Map, most current edition.
 - e. Wetlands and wetland margins.
 - f. Riparian buffers.
 - g. Soil types and their boundaries, as mapped by the USDA Natural Resource Conservation Service, including a table listing the soil characteristics pertaining to suitability for construction and, in un-sewered

areas, for septic suitability. Alluvial and hydric soils shall specifically be depicted on the plan.

- h. Existing vegetation, denoted by type, including woodlands, hedgerows, tree masses, tree lines, individual freestanding trees over six inches DBH, wetland vegetation, pasture or croplands, orchards, permanent grass land, old fields, and any other notable vegetative features on the site. Vegetative types shall be described by plant community, relative age, and condition.
- i. Any identified Pennsylvania Natural Diversity Inventory (PNDI) site conflicts.
- j. Geologic formations on the tract, including rock outcroppings, cliffs, sinkholes, and fault lines, based on available published information or more detailed data obtained by the applicant.

4. Existing man-made features, including:

- a. Location, dimensions and use of existing buildings and driveways.
- b. Location, names, widths, center line courses, paving widths, identification numbers, and rights-of-way, of existing streets and alleys.
- c. Location of trails that have been in public use (pedestrian, equestrian, bicycle, etc.).
- d. Location and size of existing sanitary sewage facilities.
- e. Location and size of drainage facilities.
- f. Location of water supply facilities, including wellhead protection areas.
- g. Any easements, deed restrictions, rights-of-way, or any other encumbrances upon the land, including location, size and ownership.
- h. Site features or conditions such as hazardous waste, dumps, underground tanks, active and abandoned wells, quarries, landfills, sandmounds and artificial land conditions.

5. Total acreage of the tract, the adjusted tract area, where applicable, and the constrained land area with detailed supporting calculations.

C. Stormwater Management System Concept Plan. A written and graphic concept plan of the proposed post-development stormwater management system shall be prepared and include:

- 1. Preliminary selection and location of proposed structural stormwater controls;
- 2. Location of existing and proposed conveyance systems such as grass channels, swales, and storm drains;
- 3. Location of floodplain/floodway limits;
- 4. Relationship of site to upstream and downstream properties and drainages.
- 5. Preliminary location of proposed stream channel modifications, such as bridge or culvert crossings.

D. Consultation Meeting. Prior to any stormwater management permit application submission, the land owner or developer shall meet with the Municipality for a consultation meeting on a concept plan for the post-development stormwater management system to be utilized in the proposed project. This consultation meeting

shall take place at the sketch plan stage or prior to submitting the preliminary plan in the development process. The purpose of this meeting is to discuss the post-development stormwater management measures necessary for the proposed project, as well as to discuss and assess constraints, opportunities and potential ideas for stormwater management designs before the formal site design engineering is commenced.

E. All proposed Regulated Activities within a protected watershed shall utilize, to the maximum extent possible, Low Impact Development Practices as contained in Appendix B.

1. SWM Site Plan and Report shall address the following:

a. Design using nonstructural BMPs

i. Lot configuration and clustering.

- (a) Reduced individual lot impacts by concentrated/clustered uses and lots
- (b) Lots/development configured to avoid critical natural areas
- (c) Lots/development configured to take advantage of effective mitigative stormwater practices
- (d) Lots/development configured to fit natural topography

ii. Minimum disturbance

- (a) Define disturbance zones (excavation/grading) for the site and individual lots to protect maximum total site area from disturbance
- (b) Barriers/flagging proposed to protect designated non-disturbance areas
- (c) Considered mitigative practices for minimal disturbance areas (e.g., Soil Restoration)
- (d) Considered re-forestations and re-vegetation opportunities

iii. Reduce impervious coverage

- (a) Reduced road width
- (b) Reduced driveway lengths and widths
- (c) Reduced parking ratios and sizes
- (d) Utilized porous surfaces for applicable features

iv. Stormwater disconnected from impervious area

- (a) Disconnected drives/walkways/small impervious areas to natural areas
- (b) Use rain barrels and/or cisterns for lot irrigation

b. Apply structural BMP selection process that meets runoff quantity and quality needs.

- i. Manage close to source with collection and conveyance minimized
- ii. Consistent with site factors (e.g., soils, slope, available space, amount of sensitive areas, pollutant removal needs)

- iii. Minimize footprint and integrate into already disturbed areas/other building program components (e.g., recharge beneath parking areas, vegetated roofs)
- iv. Consider other benefits such as aesthetic, habitat, recreational and educational benefits
- v. BMP's selected based on maintenance needs that fit owner/users
- vi. BMP's sustainable using a long-term maintenance plan

ARTICLE V – RIPARIAN BUFFER STANDARDS

Section 501. Riparian Buffer Requirements

Where a Regulated Activity is proposed or undertaken, the developer must comply with all applicable riparian buffer requirements of the Department of Environmental Protection found at 25 PA Code, Chapter 102 or as same may be amended from time to time. Documentation that the Regulated Activity is compliant with these regulations shall be submitted to the Municipality.

Section 502. Riparian Buffer Easement

For all required Riparian Buffers to be maintained in accordance with a Stormwater Management Plan, an easement shall be provided. Easements shall be in accordance with Section 801 and recorded in accordance with Section 1303 of this Ordinance.

ARTICLE VI – DESIGN CRITERIA

Section 601. Design Criteria for Stormwater Management and Drainage Facilities

A. General Design Guidelines:

1. Stormwater shall not be transferred from one watershed to another, unless (1) the watersheds are sub-watersheds of a common watershed which join together within the perimeter of the property; (2) the effect of the transfer does not alter the peak rate discharge onto adjacent lands; or (3) easements from the affected landowner(s) are provided.
2. Consideration shall be given to the relationship of the subject property to the drainage pattern of the watershed. A concentrated discharge of stormwater to an adjacent property shall be within an existing watercourse or confined in an easement or returned to a pre-development flow type condition.
3. Stormwater BMPs and recharge facilities are encouraged (e.g., rooftop storage, drywells, cisterns, recreation area ponding, diversion structures, porous pavements, holding tanks, infiltration systems, in-line storage in storm sewers, and grading patterns). They shall be located, designed, and constructed in accordance with the latest technical guidance published by PADEP, provided they are accompanied by detailed engineering plans and performance capabilities and supporting site specific soils, geology, runoff and groundwater and infiltration rate data to verify proposed designs. Additional guidance from other sources may be accepted at the discretion of the Municipal Engineer (a pre-application meeting is suggested).
4. All existing and natural watercourses, channels, drainage systems and areas of surface water concentration shall be maintained in their existing condition unless an alteration is approved by the appropriate regulatory agency.
5. The design of all stormwater management facilities shall incorporate sound engineering principles and practices. The Municipality shall reserve the right to disapprove any design that would result in the continuation or exacerbation of a documented adverse hydrologic or hydraulic condition within the watershed, as identified in the Plan.
6. The design and construction of multiple use stormwater detention facilities are strongly encouraged. In addition to stormwater management, facilities should, where appropriate, allow for recreational uses including ball fields, play areas, picnic grounds, etc. Consultation with the Municipality and prior approval are required before design. Provision for permanent wet ponds with stormwater management capabilities may also be appropriate.

- a. Multiple use basins should be constructed so that potentially dangerous conditions are not created.
 - b. Water quality basins or recharge basins that are designed for a slow release of water or other extended detention ponds are not permitted for recreational uses, unless the ponded areas are clearly separated and secure.
7. Should any stormwater management facility require a dam safety permit under PADEP Chapter 105, the facility shall be designed in accordance with Chapter 105 and meet the regulations of Chapter 105 concerning dam safety.
- B. Stormwater Management Facility Design Considerations: All stormwater management facilities shall meet the requirements contained in the *Crawford County Stormwater Management Facility Design Criteria*.

Section 602. Calculation Methodology

- A. Calculations for design purposes shall be performed in accordance with recognized and accepted engineering standards, consistent with the guidelines set forth in the BMP Manual and with all applicable laws and regulations as may be amended from time to time.
- B. The Municipality has the authority to require that computed existing runoff rates be reconciled with field observations, conditions and site history. If the designer can substantiate, through actual physical calibration, that more appropriate runoff and time of concentration values should be utilized at a particular site, then appropriate variations may be made upon review and recommendation of the Municipality.

ARTICLE VII – SWM SITE PLAN AND REPORT REQUIREMENTS

Section 701. Regulated Activities

No subdivision or land development, earth disturbance activity, Regulated Activity or building construction shall be undertaken until a SWM Site Plan and Report has been prepared, submitted and approved in accordance with the provisions of this Ordinance.

Section 702. SWM Site Plan and Report Requirements

A. SWM Site Plan Requirements:

The SWM Site Plan shall be prepared by a professional engineer or other qualified professional as determined by the Municipality on one or more sheets of professionally prepared drawings which nearly present a plan of the project, with appropriate details, sectional and profile views, at a scale necessary to accurately and clearly demonstrate compliance with this Ordinance and to show the elements required below. The drawings shall be of sufficient detail to enable construction of proposed BMPs and stormwater conveyance facilities. The SWM Site Plan shall show the entire area proposed for development and immediate surroundings, and include the following:

1. Name and address of the landowner.
2. Name and address of the project developer.
3. Name and address of plan preparer.
4. Plan date and revision date. All revised submittals to the Municipality shall bear a new revision date.
5. North arrow and graphic scale.
6. Project location map.
7. Property boundaries.
8. Existing and proposed contours.
9. Elevation benchmark identified.
10. Soil types and boundaries as shown on NRCS mapping.
11. Location of soils and/or infiltration testing.
12. 100-year flood boundaries. Where development is proposed within a 100-year floodplain, the 100-year flood elevation shall also be noted, and plan elevations shall utilize the same benchmark elevation as the Federal Emergency Management Agency (FEMA) Flood Insurance Study (FIS).

13. Proposed area of disturbance, with the total area noted in acres.
14. Existing and proposed ground cover, structures, and other land use features.
15. Existing and proposed water wells, wellhead protection areas for public water supply wells, and on-lot wastewater facilities.
16. Existing and proposed drainageways. Pipe or channel sizes, materials, and invert elevations shall be noted.
17. Existing and proposed BMPs.
18. A signature block for municipal approval which states as follows: "Conneaut Township has reviewed this Stormwater Management Site Plan and accompanying Report and on this date certifies that the Stormwater Management Site Plan and Report are in substantial conformance with the requirements of the Conneaut Township Stormwater Management Ordinance No. 2011 - ____."

B. SWM Report Requirements

The SWM Report shall be prepared by a professional engineer or other qualified professional as determined by the Municipality and shall consist of a written narrative and calculations, exhibits, and appendices necessary to clearly demonstrate compliance with this Ordinance and to include the elements required below.

1. Name and address of the landowner.
2. Name and address of the project developer.
3. Name and address of plan preparer.
4. Report date and revision date. All revised submittals to the Municipality shall bear a new revision date.
5. Narrative description of the property, existing land use and ground cover.
6. Narrative description of the proposed project, including area of disturbance in acres.
7. Listing of permits required for the project.
8. Description of soil types and identification of applicable hydrologic soil groups.
9. Description and calculations associated with soils testing and/or infiltration testing.
10. Identification of surface waters which may receive runoff within or from the project site and their classification under 25 PA Code Chapter 93 (relating to water quality standards).

11. A written description of the type function, and location of existing and proposed non-structural and structural BMPs.
 12. Runoff calculations to document compliance with volume control and rate control requirements. The narrative shall describe the assumptions, criteria, and methodology used. A summary table shall be provided of the net change in volume and rate of stormwater from pre-development to post-development hydrology for both the entire project site and each drainage area. The runoff calculations shall include the following at a minimum:
 - a. Delineation of pre-development drainage areas.
 - b. Calculation of pre-development times of concentration with flow paths identified for each drainage area.
 - c. Hydrologic calculations for each pre-development drainage area, with routing calculations as necessary to combine flows from various drainage areas.
 - d. Delineation of post-development drainage areas.
 - e. Calculation of post-development times of concentration with flow paths identified for each drainage area.
 - f. Hydrologic calculations for each post-development drainage area, with routing calculations as necessary to combine flows from various drainage areas.
 - g. Routing calculations, including a stage-area-discharge table, through each BMP providing significant storage.
 14. Calculations comparing the full flow capacity of proposed pipes and channels to the design flow through them.
 15. A description of plans for site restoration and permanent stabilization.
 16. A sequence of project implementation and BMP installation in relation to earth disturbance activities of the project site and a schedule of inspections for critical stages of BMP installation. Estimated dates for implementation shall also be provided.
 17. A written maintenance plan including the duties to be performed, frequency of maintenance, and responsibility for maintenance and long-term ownership.
 18. Listing and description of easements to be established.
 19. Description of the effect of stormwater management on existing and proposed wells on site or where the development occurs within the wellhead protection area of a public water supply well.
- C. The SWM Site Plan and Report shall meet the requirements of the Crawford County Stormwater Management Facility Design Handbook.

Section 703. SWM Site Plan and Report Submission

- A. Preparation and submission of the SWM Site Plan and report shall be coordinated with the preparation and submission of subdivision and land development plans that may be required.
- B. Three (3) copies of the SWM Site Plan and Report shall be submitted to the Municipality, which shall forward one (1) copy to the Municipal Engineer for review.
- C. The SWM Site Plan and Report shall be accompanied by such fees as may be required, or by a properly executed Review Fee Reimbursement Agreement if required by the Municipality.

Section 704. SWM Site Plan and Report Review

- A. The Municipality shall require receipt of a complete SWM Site Plan and Report as specified in this Ordinance. The Municipality shall not approve any SWM Site Plan and Report that fails to meet the requirements of this Ordinance. When a SWM Site Plan and Report is found to be deficient, the Municipality may disapprove the submission and require a resubmission, or in the case of minor deficiencies, the Municipality may accept submission of modifications and additional documents or information to complete the Plan.
- B. Within forty-five (45) days of the receipt of the completed SWM Site Plan and Report as required by this Ordinance, the Governing Body shall act to approve or disapprove of the Plan and give the applicant written notice of the action. If disapproved, reasons shall be given with reference to the requirements of this Ordinance.
- C. If the SWM Site Plan and Report involves a Subdivision or Land Development Plan, the timing and process for review and approval shall follow the Subdivision and Land Development process as set forth in the applicable Subdivision and Land Development Ordinance.

Section 705. Modification of Plans

A modification to a submitted SWM Site Plan and Report for a development site that involves a change in stormwater management facilities or techniques, or that involves the relocation or re-design of stormwater management facilities, or that is necessary because soil or other conditions are not as stated on the SWM Site Plan as determined by the Municipality, shall require a resubmission of the modified SWM Site Plan in accordance with this Ordinance.

Section 706. Duration of Approved Plan

The Municipality's approval of a SWM Site Plan and Report authorizes the Regulated Activities contained in the SWM Site Plan for a maximum term of five (5) years following the date of approval. The Municipality may specify a term shorter than five (5) years in the approval for any specific SWM Site Plan. If stormwater management

facilities included in the approved SWM Site Plan have not been constructed, or if a Record Drawing of these facilities has not been submitted within this time, then the Municipality may consider the SWM Site Plan disapproved and may revoke any and all permits or approvals.

Section 707. Record Drawings, Completion Certificate and Final Inspection

- A. The Applicant shall be responsible for providing Record Drawings of all stormwater BMPs included in the approved SWM Site Plan. The Record Drawing and an explanation of any discrepancies with the approved SWM Site Plan shall be submitted to the Municipality as a prerequisite for the release of the guarantee or issuance of an occupancy permit.
- B. The Record Drawing shall include a certification of completion signed by a Qualified Professional verifying that all permanent stormwater BMPs have been constructed according to the approved SWM Site Plan and Report.
 - 1. Drawings shall show all approved revisions and elevations and inverts to all manholes, inlets, pipes and stormwater control facilities.
 - 2. Submission shall include a comparison of the constructed stage-storage (volume vs. elevation) of all above ground and below ground stormwater storage facilities to the approved design.
- C. After receipt of the Record Drawing and certification of completion by the Municipality, the Municipality, the Municipal Engineer and/or Municipal designee may conduct a final inspection to determine whether the constructed stormwater management facilities conform with the approved SWM Site Plan. The full costs for such final inspection and surveys shall be included in the Expenses Covered by Fees in Section 1302.

ARTICLE VIII – EASEMENTS

Section 801. Easements

- A. Easements shall be established to provide for the continued existence and maintenance of drainageways and stormwater management facilities and shall be provided in accordance with the requirements of this Section.
- B. Easements across lands adjacent to the lands on which the Regulated Activities occur shall be granted to the landowner of the property on which the stormwater activities are undertaken or to an approved entity responsible for its maintenance.
- C. Every easement shall provide the Municipality with a license to inspect, monitor, clear, repair and maintain the drainage facilities as may be necessary in the judgment of the Municipality.
- D. If in the judgment of the Municipality an easement should be accepted by the Municipality for purposes of protecting the public health, safety or welfare, the Municipality shall make such requirement a condition of plan approval.
- E. Where a tract is traversed by a watercourse, drainageway, channel or stream, there shall be provided an easement paralleling the line of such watercourse, drainageway, channel or stream with a width adequate to preserve the unimpeded flow of natural drainage in the 100-year floodplain.
- F. Easements shall be established for all on-site stormwater management or drainage facilities, including but not limited to: detention facilities (above or below ground), infiltration facilities, all stormwater BMPs, drainage swales, and drainage facilities (inlets, manholes, pipes, etc.).
- G. Easements are required for all areas used for off-site stormwater control.
- H. All easements shall be a minimum of twenty (20) feet wide and shall encompass the 100-year surface elevation of the proposed stormwater facility.
- I. Easements shall provide ingress to, egress from, a public right-of-way. In lieu of providing an easement to the public right-of-way, a note may be added to the plan granting the Municipality or their designees access to all easements via the nearest public right-of-way available for vehicle ingress and egress on grades of less than ten percent (10%) for carrying out inspection or maintenance activities.
- J. Where possible, easements shall be centered on side and/or rear lot lines.
- K. Nothing shall be planted or placed within the easement which would adversely affect the function of the easement, or conflict with any conditions associated with such easement and the easement shall so provide.

L. All easement agreements shall be recorded with a reference to the recorded easement indicated on the site plan. The format and content of the easement agreement shall be reviewed and approved by the Municipal Engineer and Solicitor.

ARTICLE IX – MAINTENANCE RESPONSIBILITIES

Section 901. Financial Guarantee

- A. When an approved SWM Site Plan requires the timely installation and proper construction of stormwater management controls, the Applicant shall provide Financial Security to the Municipality equal to 110% of the full construction cost of the required controls in accordance with the provisions and requirements of the Pennsylvania Municipalities Planning Code, Section 10509, 53 P.S. § 10509, as amended from time to time.
- B. At the completion of the project and as a prerequisite for the release of the Financial Security, the Applicant shall:
 - 1. Provide a certification of completion from an engineer, architect, surveyor or other qualified person, verifying that all permanent facilities have been constructed according to the SWM Site Plan and Report and approved revisions thereto.
 - 2. Provide a set of Record Drawings.
 - 3. Request a final inspection from the Municipality to certify compliance with this Ordinance, after receipt of the certification of completion and Record Drawings by the Municipality.

Section 902. Maintenance Responsibilities

- A. The SWM Site Plan and Report for the project site shall describe the future operation and maintenance responsibilities. The operation and maintenance description shall outline required routine maintenance actions and schedules necessary to ensure proper operation of the stormwater control facilities.
- B. The SWM Site Plan and Report for the project site shall establish responsibilities for the continuing operating and maintenance of all proposed stormwater control facilities, consistent with the following principals:
 - 1. To the greatest extent possible, stormwater control facilities shall be privately maintained by landowners.
 - 2. If a development consists of structures or lots that are to be separately owned and in which streets, sewers, and other public improvements are to be dedicated to the Municipality, stormwater control facilities/BMPs may, at the sole discretion of the Municipality, also be dedicated to and maintained by the Municipality. The Municipality is in no way obligated or required to accept maintenance responsibility for any privately constructed stormwater management facilities.
 - 3. If a development site is to be maintained in a single ownership or if sewers and other public improvements are to be privately owned and maintained, then the ownership and maintenance of stormwater control facilities/BMPs shall be the responsibility of the owner or other appropriate management entity.
 - 4. Facilities, areas, or structures used as stormwater BMPs shall be enumerated as permanent real estate appurtenances.

- C. The Municipality shall require that portions of the SWM Site Plan and Report and other instruments as necessary be recorded at the Crawford County Office of the Recorder of Deeds to document the operation and maintenance responsibilities.
- D. The Municipality, upon recommendation of the Municipal Engineer and Solicitor, shall make the final determination of the continuing maintenance responsibilities prior to final approval of the SWM Site Plan and Report. The Municipality may require a dedication of such facilities as part of the requirements for approval of the SWM Site Plan. Such a requirement is not an indication that the Municipality will accept the facilities. The Municipality reserves the right to accept or reject the ownership
- E. If the Municipality accepts ownership of stormwater BMPs, the Municipality may, at its discretion, require a fee from the Applicant to the Municipality to offset the future cost of inspections, operations, and maintenance. The amount of such fees, if any, shall be determined by the Municipal Engineer.

Section 903. Maintenance Agreement for Privately Owned Stormwater Facilities

- A. Where stormwater control facilities are to be maintained by the Municipality or by a person or entity other than the Municipality, prior to final approval of the SWM Site Plan and Report, the Applicant shall execute an Operation and Maintenance (O&M) Agreement to provide for the future maintenance of all stormwater control facilities that are to be privately or publically owned and maintained. The Operation and Maintenance (O&M) Agreement shall be recorded with the SWM Site Plan and made a part thereof.
- B. The Operation and Maintenance (O&M) Agreement where determined necessary to assure the satisfactory operation and maintenance of all BMP facilities shall be consistent with the terms of the model agreement attached to this Ordinance, and the terms of this Ordinance and the Stormwater Management Plan. It shall include additional provisions as reasonably required to provide for the proper maintenance of the stormwater control facilities. The Operation and Maintenance (O&M) Agreement shall be subject to the review and approval of the Municipality and the Municipal Solicitor.
- C. The owner is responsible for operation and maintenance of the stormwater BMPs. If the owner fails to adhere to the Operation and Maintenance (O&M) Agreement, the Municipality may perform the services required and charge the owner appropriate fees and take other action as appropriate to enforce the Agreement. Non-payment of fees may result in a lien against the property.

ARTICLE X – INSPECTIONS

Section 1001. Schedule of Inspections

- A. In addition to PADEP compliance programs, the Municipality, the Municipal Engineer, and/or the Municipality's designee may inspect all phases of the installation of temporary or permanent stormwater management facilities. The costs for such inspections shall be included in the Expenses Covered by Fees in Sections 1302 and 1303.
- B. During any stage of Earth Disturbance Activities, if the Municipality determines that the stormwater management facilities are not being installed in accordance with the approved SWM Site Plan, the Municipality shall notify the Applicant and the Applicant shall take action to address the issue. The Municipality may suspend or revoke any existing permits or approvals until the matter is addressed. In addition, the Municipality may require the Applicant to submit a revised SWM Site Plan for review and approval as specified in this Ordinance.
- C. After completion of construction, stormwater BMPs shall be inspected by the landowner, or the landowner's designee according to the inspection schedule described on the SWM Site Plan for each BMP. The landowner shall submit copies of the inspection reports to the Municipality, in a form stipulated by the Municipality.
- D. The Municipality, the Municipal Engineer and/or the Municipality's designee may also conduct inspections of the stormwater BMPs. The costs for such inspections shall be included in the Expenses Covered by Fees in Sections 1302 and 1303.

Section 1002. Right-of-Entry

- A. Upon presentation of proper credentials, the Enforcement Officer and any other duly authorized representatives of the Municipality may enter at reasonable times, upon any property within the Municipality, to inspect the implementation, condition, or operations and maintenance of the stormwater BMPs as regulated by this Ordinance.
- B. Landowners, owners and persons responsible for stormwater BMPs shall provide Municipal officers and representatives with access to all parts of the premises for the purposes of determining compliance with this Ordinance.
- C. Persons working on behalf of the Municipality shall have the right to temporarily locate on any stormwater BMP in the Municipality such devices, as are necessary, to conduct monitoring and/or sampling of the discharges from such stormwater BMP.
- D. Failure to allow the Municipality access to a stormwater BMP is a violation of this Ordinance.

ARTICLE XI – ENFORCEMENT AND PENALTIES

Section 1101. Prohibited Conduct

- A. It shall be unlawful for any landowner or person to undertake or engage in alteration or development of land that affects stormwater runoff, or in Regulated Activities without complying with the requirements of this Ordinance.
- B. It shall be unlawful to alter or remove any permanent BMP required by an approved SWM Site Plan, or to allow property to remain in a condition that does not conform to the approved SWM Site Plan.
- C. It shall be unlawful for any landowner, or Responsible Person to fail to construct, install or maintain any stormwater control facilities as required by an approved SWM Site Plan.
- D. No land shall be used, developed or occupied except in conformity with the regulations established by this Ordinance, except in conformity with permits issued in accordance with this Ordinance, and except in conformity with any approved SWM Site Plan.
- E. No person shall modify, remove, fill, landscape, or alter any existing stormwater BMP, facilities, areas or structures unless it is part of an approved maintenance program, without the written approval of the Municipality.
- F. No person shall place any structure, fill, landscaping or vegetation into a stormwater BMP, facilities, areas, structures, or within a drainage easement which would limit or alter the functioning of the BMP without the written approval of the Municipality.
- G. No subdivision or land development shall receive final approval, and no permits for buildings or occupancy of structures shall be granted under Zoning, Uniform Construction Code, or Floodplain Management regulations until a SWM Site Plan has been prepared, submitted and approved in accordance with the provisions of this Ordinance.
- H. No building or other permits for a Regulated Activity shall be issued unless all permits required under PADEP regulations have been obtained.
- I. Any landowner and any person engaged in the alteration or development of land which may affect stormwater runoff characteristics shall implement such measures consistent with the provisions of the Stormwater Management Plan as are reasonably necessary to prevent injury to health, safety or other property. Such measures shall include such actions as are required:
 - 1. to assure that the maximum rate of stormwater runoff is no greater after development than prior to development activities; or
 - 2. to manage the quantity, velocity and direction of resulting stormwater runoff in a manner which otherwise adequately protects health and property from possible injury.

Section 1102. Public Nuisance

As provided in Section 15 of the Storm Water Management Act, any activity conducted in violation of this Ordinance, the approved Stormwater Management Plan, or the Watershed Stormwater Plan is declared a public nuisance abatable as such.

Section 1103. Notice of Violation

In the event of a violation, the Enforcement Officer shall issue and serve a Notice of Violation which shall include the following information:

- A. The persons engaged in the Regulated Activity.
- B. The location of the land on which the Regulated Activity is occurring and the owner of record.
- C. A description of the violation and reference to the regulations being violated.
- D. Corrective action required and time for completion.
- E. Sanctions available for failure to correct violations.

The Notice of Violation may contain a Stop Work Order.

The Notice/Order shall be served on the Developer, Landowner and other person engaged in the Regulated Activity or their agent, by hand delivery or by certified mail return receipt requested. In the event service has not been made in either manner described above, service may be made by regular mail and posting the property.

Section 1104. Failure to Correct

In the event the violation is not corrected, the Municipality shall have the authority to pursue any of the remedies set forth in Sections 1105 through 1110 below.

Section 1105. Refusal to Grant Other Permits

In the event a violation has not been corrected, the Municipality may refuse to issue any permit or grant any approval necessary to further improve or develop any real property which has been developed. This authority to deny such a permit or approval shall apply to any of the following applicants:

- A. The owner of record at the time of such violation.
- B. The vendee or lessee of the owner of record at the time of such violation without regard as to whether such current owner had actual or constructive knowledge of the violation.

- C. The current owner of record who acquired the property subsequent to the time of violation without regard as whether such current owner had actual or constructive knowledge of the violation.
- D. The vendee or lessee of the current owner of record who acquired the property subsequent to the time of violation without regard as to whether such vendee or lessee had actual or constructive knowledge of the violation.

Section 1106. Penalty for Violation

The Municipality may institute a proceeding in the Magisterial District Court against any person who has violated the provisions of this Stormwater Management Ordinance. Upon being found liable therefor in a civil enforcement proceeding, the defendant shall pay a judgment of not more than \$500.00 plus all court costs, including the reasonable attorney fees incurred by the Municipality as a result thereof. No judgment shall commence or be imposed, levied, or payable until the date of the determination of a violation by the District Magistrate. If the defendant neither pays nor timely appeals the judgment, the Municipality may enforce the judgment pursuant to the applicable rules of civil procedure. Each day that a violation continues shall constitute a separate violation, unless the District Magistrate determining that there has been a violation further determines that there was a good faith basis for the person, partnership or corporation violating the ordinance to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation until the fifth day following the date of the determination of a violation by the District Magistrate and thereafter each day that a violation continues shall constitute a separate violation.

Section 1107. Suspension and Revocation

- A. In addition to other remedies, any approval or permit issued by the Municipality may be suspended or revoked for:
 - 1. Non-compliance with or failure to implement any provision of the approved SWM Site Plan or Operation and Maintenance (O&M) Agreement.
 - 2. A violation of any provision of this Ordinance or any other applicable law, ordinance, rule or regulation relating to the Regulated Activity.
 - 3. The creation of any condition or the commission of any act, during the Regulated Activity which constitutes or creates a hazard or nuisance, pollution or which endangers the life or property of others.
- B. A suspended approval or permit may be reinstated by the Municipality when:
 - 1. The Municipality or their designee has inspected and approved the corrections to the violation(s) that caused the suspension.
 - 2. The Municipality is satisfied that the violation(s) has been corrected.

C. An approval that has been revoked by the Municipality cannot be reinstated. The Applicant may apply for a new approval under the provisions of this Ordinance.

Section 1108. Other Remedies

In addition to other remedies, the Municipality may institute and maintain appropriate actions at law to restrain, correct or abate violations, to prevent unlawful Regulated Activities, and to recover damages including reasonable expenses and legal fees incurred in enforcement proceedings.

Section 1109. Private Remedies

Any person injured by conduct which violates Section 1101 I. above may under authority of Section 15 of the Storm Water Management Act recover damages caused by such violation from the landowner or other responsible person.

Section 1110. Land Owner Responsibility

In addition to a Developer or other person engaging in Regulated Activities, the owner of lands on which Regulated Activities are undertaken or planned and other Responsible Person shall be responsible for compliance with the provisions of this Ordinance.

ARTICLE XII – PROHIBITED DISCHARGES

Section 1201. Prohibited Discharges and Connections

Stormwater Management Site Plans shall include measures to prohibit and protect against the following discharges and connections:

- A. Any drain (including indoor drains and sinks), or conveyance whether on the surface or underground, that allows any non-stormwater discharge including sewage, process wastewater, and wash water to enter the Municipality's separate storm sewer system or Waters of the Commonwealth is prohibited.
- B. Any drain or conveyance connected from a commercial or industrial land use to the Municipality's separate storm sewer system, which has not been documented in plans, maps, or equivalent records, and approved by the Municipality is prohibited.
- C. No person shall allow, or cause to allow, discharges into the Municipality's storm sewer system or into surface Waters of the Commonwealth, which are not composed entirely of stormwater, except: (1) as provided in subsection 1201 D. below, and (2) discharges allowed under a state or federal permit.
- D. The following discharges are authorized unless they are determined to be significant contributors to pollution to the Waters of the Commonwealth:

- | | |
|--|--|
| -Discharges from fire fighting activities | -Water from crawl space pumps |
| -Potable water sources including dechlorinated water and fire hydrant flushings | -Flows from riparian habitats and wetlands |
| -Air conditioning condensate | -Uncontaminated water from foundations or from footing drains |
| -Springs | -Irrigation or Lawn watering |
| -Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used | -Dechlorinated swimming pool discharges |
| | -Water from individual residential car washing |
| | -Routine external building washdown (which does not use detergents or other compounds) |

ARTICLE XIII – ADMINISTRATION

Section 1301. Administration

This Ordinance shall be administered by a person appointed by the Municipality for such purpose who shall be referred to as the Enforcement Officer together with the Municipal Engineer. The Municipality may also appoint deputy enforcement officers as needed. The Municipality is also authorized to delegate the administration and enforcement of this Ordinance to a qualified agency or entity engaged in inter-municipal administration of such regulations in accordance with applicable law.

Section 1302. Municipal Review Fee

At the time a SWM Site Plan is submitted for review and approval, the Municipal Review Fee, as established from time to time by Resolution of the Municipality, shall be paid to the Municipality to reimburse the Municipality for its administrative costs and expenses incurred by the Municipality for review and reports of its Professional Consultants as that term is defined in the Pennsylvania Municipalities Planning Code.

Section 1303. Inspection Fees

As a condition of final approval of a SWM Site Plan, and Inspection Fee, as established from time to time by Resolution of the Municipality shall be charged and payable to the Municipality to reimburse the Municipality for the reasonable and necessary expenses incurred by the Municipality for the inspection of the stormwater management facilities, BMPs and drainage improvements during construction and when completed.

Such fees shall be reasonable and in accordance with the ordinary and customary fees charged by the Municipal Enforcement Officer and Engineer, or consultant, for work performed for similar services in the community, but in no event shall the fees exceed the rate or cost charged by the Engineer or consultant to the Municipality when fees are not reimbursed or otherwise imposed on the developer. In the event the developer disputes the amount of any such expense in connection with the inspection of improvements, the dispute shall be resolved in accordance with the applicable provisions of the Pennsylvania Municipalities Planning Code.

Section 1304. Recording of Approved SWM Site Plan and Related Agreements

- A. The owner of any land upon which permanent BMPs will be placed, constructed, or implemented, as described in the SWM Site Plan, shall record the following documents in the Office of the Recorder of Deeds of Crawford County, within ninety (90) days of approval of the SWM Site Plan by the Municipality:
 1. The SWM Site Plan:
 - i. Refer to the requirements of 1.A. of the *Crawford County Stormwater Management Facility Design Criteria*.

- ii. At a minimum, the items 1.A 1-7, 8-11, 13, 14, 16, 18 must be included on the recorded SWM Site Plan.
 2. Operations and Maintenance (O&M) Agreement.
 3. Easements under Section 801.
 4. Riparian buffer easements under Section 502.
- B. The Municipality may suspend or revoke any approvals granted for the project upon discovery of the failure of the owner to comply with this Section or take any other enforcement action authorized by this Ordinance.

Section 1306. Modification of Appendices

The Appendices attached to this Ordinance and incorporated as standards applicable for the administration of this Ordinance including the following may be amended and modified from time to time by Resolution of the Governing Body adopted at a duly advertised public meeting of the Governing Body.

Appendix A – Operation and Maintenance (O&M) Agreement

Appendix B – Low Impact Development Standards

Appendix C – Review Fee Reimbursement Standards

Appendix D – Small Projects SWM Application