



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

December 5, 2011

RE: LAKE COUNTY
VILLAGE OF WAITE HILL
CONSTRUCTION STORM WATER
PARKER RESIDENTIAL LOT
(Parcel #25A0060000100)

Reeve Parker
12695 Barfield Dr.
Chesterland, OH 44026

Dear Mr. Parker:

On November 29, 2011, I met with you and inspected the above referenced construction site in response to a complaint received by a neighboring property owner. The complainant indicated that potentially concrete-impacted runoff was discharging from the property via a recently installed 8-inch diameter drain pipe. The complainant was further concerned about longer-term erosion due to the installation of the drain pipe. Our records indicate that storm water discharges from this project are authorized under the Ohio EPA General National Pollutant Discharge Elimination System (NPDES) Permit for Construction Activities #3GC05473*AG.

You indicated that the 8-inch diameter drain pipe was added to collect footer drains and rooftop runoff. Further, you indicated that you would be adding a level spreader at the end of the pipe to diffuse storm water flows before they went onto adjacent property. Specifications for the level spreader were provided to you by Tim Lannon of CT Consultants, Village engineers.

My inspection revealed the following:

Administrative Issues

- A storm water pollution prevention plan (SWP3) for this project was not located on site. Although Sheet C-1 is a civil site plan, it does not contain all of the information required of an SWP3. Information that must be added includes, but is not limited to: (a) the limits of clearing and grading and soils information, (b) the location of storm water drainage systems to be installed, (c) detail drawings for the installation of sediment and erosion controls, (d) post-construction storm water best management practices and their long-term maintenance plan, (e) temporary and permanent stabilization notes, (f) construction site inspection requirements including the log of BMP inspection findings), (g) contractor and sub-contractor certifications, (h) controls for dewatering activities and (i) non-sediment pollution controls. Please develop an SWP3 for this project as required by the NPDES permit.
- Grading and other earth disturbance appears to have exceeded the 1.25 acres indicated on the Notice of Intent (NOI) submitted to Ohio EPA to obtain NPDES permit coverage. The disturbance on the NOI must correspond to the total area where any clearing,

grubbing, grading, filling or excavating will occur. This includes soil stockpiles; buildings, driveways, sidewalks and other areas where impervious area will be created; lawn and landscape areas; areas disturbed to install utilities and other infrastructure; areas cleared for the location of home sewage treatment systems; and equipment and material staging areas used during construction. Please determine the cumulative total disturbance associated with this project and notify Ohio EPA if any changes must be made to the disturbance listed on the NOI. You must notify our Central Office in writing if changes are required. Please send notification to: Ohio EPA, ATTN: Michael Joseph, DSW, P.O. Box 1049, Columbus, OH 43216-1049. Please reference your NPDES permit number in the correspondence. **NOTE:** If disturbance exceeds 5.99 acres, an additional permit fee of \$20 per whole acre must be sent with the notification.

Implementation of Control Measures

- Sediment is being kept on site, primarily due to maintaining a buffer of the existing vegetation and site grading. The silt fence depicted on Sheet C-1 of the plan set was installed, but requires some maintenance. The portion of the silt fence that had been removed to install the 8-inch drain pipe has been reinstalled, but needs to be trenched and backfilled better to ensure runoff ponds along it and seeps through it, rather than flowing underneath it. Silt fence was also installed along a stretch of Hobart Road, but runoff that flows toward Hobart Road comes back onto the subject property where it pools in the NE corner or flows back toward the silt fence depicted on Sheet C-1.
- A drainage system has been installed behind the privacy mounds along Hobart Road. This system currently outlets onto the subject property and sediment-laden runoff is contained to the site. However, storm drain inlet protection should be provided on catch basins to minimize the sediment entering the drainage system. Further, the drainage system should not discharge onto disturbed earth. You indicated that you would likely be tying this pipe into the aforementioned 8-inch drain pipe. Please complete the construction of this drainage system or provide another stable conveyance for this runoff so that it does not become sediment-laden as it traverses the site.
- Soil stockpiles and other areas of disturbance that have remained or will remain idle for 21 days or longer must be temporarily stabilized. As we are past the growing season, you may stabilize by applying straw mulch. The recommended application rate is 2-3 straw bales per 1,000 square feet. Areas at final grade, e.g., privacy mounds along Hobart Road, can also be temporarily stabilized now and then permanently stabilized in Spring 2012 when the growing season resumes, or you may elect to permanently stabilize at this time with dormant seeding (see enclosed specifications). Stabilization is to be initiated within seven days of reaching final grade or within seven days of most recent activity if the area is at an interim grade and will not be re-disturbed for at least 21 days.
- A concrete washout pit has not been provided. As a result, I observed evidence of past washout activity onto the ground. Please be aware that concrete washwater and other

rinse waters are wastewater and are not authorized to be discharged from this site. The installation of a washout pit will help retain these wastewaters on site.

- The fuel tank should be stored within a containment dike to minimize the migration of spills. A spill kit should be kept on site to allow for proper clean-up of spills should they occur.

Post-Construction Water Quality Control

- The civil site plan does not provide any post-construction water quality practices as required by Part III.G.2.e of the NPDES permit. A number of options are possible, but runoff from single family homes may best be addressed through practices such as rain gardens, vegetated filter strips, permeable pavements and rain barrels. Please review these options with your engineer and amend the SWP3 to provide permanent water quality practices for the site. The most logical solution may be to provide a vegetative filter strip beyond the planned level spreader (see enclosures).

Please provide me with a letter of response indicating the actions you have taken to correct these deficiencies. Include a copy of the SWP3 with your response. Your response should be received no later than December 23, 2011.

If you have any questions, please contact me at (330) 963-1145.

Sincerely,



Dan Bogoevski
District Engineer
Division of Surface Water

DB/cs

Enclosures

Cc: Tim Lannon, Engineer, Village of Waite Hill
Chad Edgar, Lake SWCD

Ec: Michael F Joseph, Ohio EPA, DSW, CO

Bcc: Sue & Bob Meil

PARKER RESIDENTIAL LOT
Village of Waite Hill Lake County

Photos Taken: November 29, 2011
By: Dan Bogoevski, DSW, NEDO



Fig 1 & 2. There is no storm drain inlet protection on catch basins installed near the privacy mounds along Hobart Road.



Fig 3 & 4. Sediment-laden runoff from the front of the property flows back onto the property and pools within the NE corner of the site.



Fig 5 & 6. Runoff around the homesite flows toward the NW corner of the property, however the silt fence and remaining vegetative buffer appear to be minimizing the discharge of sediment from the site. The drain pipe pictured on the RIGHT will discharge rooftop runoff in addition to footer drainage, thus a post-construction BMP is required for this discharge.



Fig 7. Panorama view of site looking from the SW corner of disturbance. It appears that disturbance has exceeded the 1.25 acres reported on the NOI.