



RHODE ISLAND  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

September 20, 2006

Theodore Garille  
General Manager  
Pascoag Utility District  
253 Pascoag Main Street  
Pascoag, RI 02859

Re: Freshwater Wetlands Application 05-0567 in reference to George Eddy Drive  
Utility Pole No. 51, Assessor's Plat 245, Lot 35  
Burrillville, RI

Dear Mr. Garille:

The Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of the **Preliminary Determination Application** filed by the Pascoag Utility District (PUD) regarding the proposed installation of subsurface utilities, construction of a new well pump station, and withdrawal of groundwater at the subject site. The proposed project is as described and detailed in the material and information submitted in support of your application and on site plans received by the DEM on August 17, 2006.

Our observations of the subject property, review of site plans and evaluation of the proposed project reveals that potential alterations of freshwater wetlands are proposed. However, pursuant to Rule 9.03 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act (Rules), this project may be permitted as an insignificant alteration to freshwater wetlands under the following terms and conditions:

Permit Terms and Conditions for Application No. 05-0567:

1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, Rhode Island General Laws (RIGL) Section 2-1-18 et seq.
2. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and received by the DEM on August 17, 2006. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project which would alter freshwater wetlands are not authorized without a permit from the DEM.
3. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.
4. You must notify this Program in writing immediately prior to the commencement of site alterations and upon completion of the project.

5. Within ten (10) days of the receipt of this permit, you must record this permit in the land evidence records of the Town of Burrillville and supply this Program with written documentation obtained from the Town showing this permit was recorded.
6. A copy of the stamped approved site plans and a copy of this permit must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this permit and the stamped approved plans must be made available for review by any DEM representative upon request.
7. The effective date of this permit is the date this letter was issued. This permit expires four (4) years from the date of issue.
8. Any material utilized in this project must be clean and free of matter which could pollute any freshwater wetland.
9. Temporary erosion and sediment controls detailed or described on the approved site plans shall be properly installed at the site prior to or commensurate with site alterations. Such controls shall be properly maintained, replaced, supplemented, or modified as necessary throughout the life of this project to minimize soil erosion and to prevent sediment from being deposited in any wetlands not subject to disturbance under this permit.
10. Prior to commencement of site alterations, you shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials "DEM" and the application number of this permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete or the DEM issues a Notice of Completion of Work for the project.
11. Upon permanent stabilization of all disturbed soils, temporary erosion and/or sediment controls consisting of silt fence or staked hay bales must be removed.
12. You are obligated to install, utilize and follow all best management practices detailed or described on the approved site plans in the construction of the project to minimize or prevent adverse impacts to any adjacent freshwater wetlands and the functions and values provided by such wetlands.
13. Bentonite check dams as detailed on Sheet C-3 shall be placed around the electrical conduit and water main at approximately Station 5+00 and Station 7+00. Bentonite check dams are not required elsewhere on the project under this permit.
14. The limit of disturbance in or near wetlands shall be the edge of the hay bales as shown on the plan and detail sheets of the submitted plans. No trees shall be removed within regulated wetlands or wetland perimeters.
15. Special care shall be taken to protect the amphibian breeding pool located just south of the proposed gravel road at Station 19+80 that is detailed on Sheet C-3 as the "Cartpath/wetland Crossing". No temporary or permanent filling, storage of materials, or other disturbance of any kind shall be allowed beyond the southern edge of the existing cartpath. The plans do not show the existence of a culvert crossing at that location. If a culvert is found during the construction, construction in that area shall cease and DEM must be contacted for review and approval of any plan change or replacement that may be proposed.

16. The applicant must install a staff gauge within the amphibian breeding pool that is located 60 feet southwest of existing monitoring Well # 4 (just south of the proposed gravel road at Station 19+80) to monitor the baseline condition of the pool and potential changes to the pool that may be caused by the extended pumping. The staff gauge shall be located approximately five (5) feet inward (towards the center of the pool) from the existing staff gauge and constructed so as to be capable of monitoring the full potential fluctuation of the water elevation in the pool. The staff gauge shall have clear visible markings in tenths of feet on its exterior of sufficient size to be readable from the pool edge. In addition, a piezometer shall be installed approximately three (3) feet outward from the edge of the pool and constructed so as to be capable of monitoring the piezometric head of groundwater at a depth of two (2) feet below the bottom of the pool at its deepest point.
17. A rainfall gauge shall be installed within an open and easily accessible area on the site, preferably at the pumping station.
18. The elevations of the staff gauge and all other fixed measurement points shall be surveyed to enable correlation.
19. Upon installation of the recording equipment specified above, you must contact DEM so that a compliance inspection may be conducted. No pumping may occur until the compliance inspection is completed and the installed equipment is deemed by DEM to be in compliance with this permit.
20. Baseline measurements of groundwater depths in Well # 4 and Well # 5, pool elevations, the water elevations in the piezometer, and rainfall totals shall be collected and recorded daily beginning a minimum of one (1) month prior to any pumping from Well # 5 and continued throughout the pump start-up period. The temperature of water in Well #5 and the amphibian breeding pool shall also be recorded daily
21. Once the start-up period is concluded and full production of water is to be initiated, continuous pumping shall commence a rate of 75 gpm. Intensive monitoring and measurements of the wells and other features named in Item 20 above shall be made at time intervals that would simulate a conventional five (5) day continuous extended pumping test (See 2003 report prepared by HydroSource Associates, Inc on your behalf as a reference). The temperature of the water withdrawn and the water in the amphibian breeding pool shall be recorded every four (4) hours. Water pumped during this period may be delivered into the distribution system or wasted to an area that will not interfere with the purposes of the measurement collection.
22. Following the testing during initial production as described in Item 21, pumping of Well # 5 may continue, as desired by the PUD, at a pumping rate not to exceed 75 gpm. Daily recordings shall be made of the pumping, including the hours of operation, the amount pumped each hour, and the total volume pumped. In addition, the drawdown depth and temperature of water in Well #5 and the amphibian breeding pool shall also be recorded daily.
23. All monitoring data shall be reported to DEM electronically on a monthly basis, by the 15<sup>th</sup> of the subsequent month. Depending on the results of the data, DEM may require changes to the data collection requirements. Within six (6) months of the initiation of pumping, you must submit a report detailing the results of the intensive monitoring during the initial five (5) day production period and any subsequent monitoring. The report shall evaluate the impact, if any, of the pumping on the amphibian breeding pool, and shall present findings, conclusions, and

any recommendations for future pumping withdrawals. An environmental consultant experienced in well water hydrology, wetland site assessments, aquatic environments and ecosystems must be employed to accomplish this work and ensure proper compliance with the terms and conditions of this permit.

- 24. Should impacts to wetland resources be demonstrated or detected, DEM reserves the right to amend the terms and condition contained in herein, require further analysis as to any impacts, and/or restrict the amount or period of withdrawals so as to limit impacts to acceptable levels. Also, upon review of the submitted reports or if requested by the PUD, DEM may alter, reduce, or eliminate the monitoring requirements above if deemed appropriate.
- 25. Within one (1) year of the commencement of pumping, and after a full review of all the data and reporting submitted, DEM will reconsider the terms and conditions of this permit, including your request to increase the pumping rate to 105 gpm.

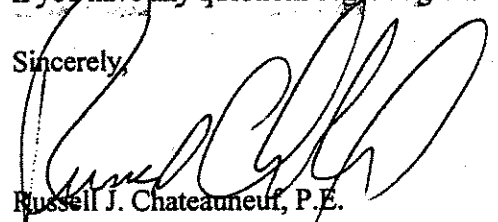
This permit is valid for the original applicant only and is not transferable to another person unless the new owner completes and submits an **Application for Permit Transfer** in accordance with Rule 9.08.

You are required to comply with the terms and conditions of this permit and to carry out this project in compliance with the Rules at all times. Failure to do so may result in an enforcement action against you by the DEM.

In permitting the proposed alterations, the Program assumes no responsibility for damages resulting from faulty design or construction. This permit does not remove your obligation to obtain any local, state, or federal approvals or permits required by ordinance or law and does not relieve you from any duties owed to adjacent landowners.

If you have any questions regarding this matter, you may contact me at 401-222-4700 Ext. 7700.

Sincerely,



Russell J. Chateaufort, P.E.  
Chief, Groundwater and Wetlands Protection  
Office of Water Resources

Enclosure:      Approved Site Plans

cc:      Russell Houde, C& E Engineering Partners, Inc  
         Marty Wencek  
         Alisa Richardson