

**Western Virginia Water Authority
Interceptor Improvements at Wasena Park**

Joint Permit Application

PREPARED FOR:

**WESTERN VIRGINIA WATER AUTHORITY
601 SOUTH JEFFERSON STREET
ROANOKE, VA 24011**

PREPARED BY:



**OLVER INCORPORATED
1116 SOUTH MAIN STREET
BLACKSBURG, VIRGINIA 24060**

SEPTEMBER 4, 2008

PROJECT No. 12307.08

PLEASE PRINT OR TYPE ALL ANSWERS. If a question does not apply to your project, please print N/A (not applicable) in the space provided. If additional space is needed, attach extra 8 1/2 x 11 inch sheets of paper.

CHECK ONE, if applicable:	Pre-Construction Notification (PCN) <input type="checkbox"/> (For Nationwide Permits ONLY)	SPGP <input type="checkbox"/>
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1. PROJECT LOCATION INFORMATION (Attach a copy of a detailed map, such as a USGS topographic map or street map showing the site location and project boundary, so that it may be located for inspection. Include an arrow indicating the north direction.)	
Address Wasena Park	City/County Roanoke
Subdivision	Lot/Block/Parcel #
Name of water body(ies) within project boundaries and drainage area (acres or square miles) Roanoke River	
Tributary(ies) to: Basin: Roanoke River Subbasin: Roanoke River (Example: Basin: James River Subbasin: Middle James River)	
Special Standards (based on DEQ Water Quality Standards 9VAC25-260 et seq.):	
Project type (check one) <input type="checkbox"/> Single user (private, non-commercial, residential) <input checked="" type="checkbox"/> Multi-user (community, commercial, industrial, government)	
Latitude and longitude at center of project site: 37 - 15 - 59 / 79 - 57 - 51	
USGS topographic map name: Roanoke	
8- digit USGS Hydrologic Unit Code (HUC) for your project site (See www.epa.gov/surf/): 03010101 If known, indicate the 10-digit and 12-digit USGS HUCs (see http://www.dcr.virginia.gov/soil & water/hu.shtml):	
Name of your project (Example: Water Creek driveway crossing) WVWA Interceptor Improvements at Wasena Park	
Is there an access road to the project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No. If yes, check all that apply: <input checked="" type="checkbox"/> public <input type="checkbox"/> private <input checked="" type="checkbox"/> improved <input type="checkbox"/> unimproved	
Provide driving directions to your site, giving distances from the best and nearest visible landmarks or major intersections: Travel I-581 through City of Roanoke. Exit at Elm Avenue and travel east towards the Roanoke Community Hospital. Turn left onto Main Street SW. Cross over the Roanoke River. Turn right on Winona Avenue on 9th Street; left on Winchester Avenue, and right on Wiley Drive. See Appendix A.	
Does your project site cross boundaries of two or more localities (i.e. cities/counties/towns)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If so, name those localities:	

FOR AGENCY USE ONLY	
JPA#	Notes:

2. APPLICANT, AGENT, PROPERTY OWNER, AND CONTRACTOR INFORMATION

The applicant(s) is/are the legal entity to which the permit may be issued. The applicant(s) can either be the property owner(s) or the person/people/company(ies) that intend(s) to undertake the activity. The agent is the person or company that is representing the applicant(s). If a company, please use the company name that is registered with the State Corporation Commission (SCC), or indicate no registration with the SCC.

Applicant(s) (For a company, use SCC-registered name) Western Virginia Water Authority			Agent (if applicable) (For a company, use SCC-registered name) Olver Inc., Lawrence Hoffman, Director of Env. Services		
Mailing address 601 South Jefferson Street			Mailing address 1116 South Main Street		
City Roanoke	State VA	Zip Code 24011	City Blacksburg	State VA	Zip Code 24060
Phone number w/area code 540-853-5700	Fax 540-853-1600		Phone number w/area code 540-552-5548	Fax 540-552-5577	
Mobile/pager	E-mail see box below		Mobile/pager	E-mail lhoffman@olver.com	
State Corporation Commission ID number (if applicable) Mike.McEvoy@WesternVAWater.org			State Corporation Commission ID number (if applicable) 0147460-0		
Certain permits or permit authorizations may be provided via electronic mail. If the applicant wishes to receive their permit via electronic mail, please provide an e-mail address here: _____					

Property owner(s), if different from applicant (For a company, use SCC-registered name)			Contractor, if known (For a company, use SCC-registered name)		
Mailing address			Mailing address		
City	State	Zip code	City	State	Zip code
Phone number w/area code	Fax		Phone number w/area code	Fax	
Mobile/pager	E-mail		Mobile/pager	E-mail	
State Corporation Commission ID number (if applicable)			State Corporation Commission ID number (if applicable)		

3. PROVIDE A DESCRIPTION OF THE PROJECT, PROJECT PRIMARY AND SECONDARY PURPOSES, PROJECT NEED, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose must include any new development or expansion of an existing land use and/or proposed future use of residual land
- Describe the physical alteration of surface waters
- Include a description of alternatives considered to avoid or minimize impacts to surface waters, including wetlands, to the maximum extent practicable. Include factors such as, but not limited to, alternative construction technologies, alternative project layout and design, alternative locations, local land use regulations, and existing infrastructure
- For utility crossings, include both alternative routes and alternative construction methodologies considered
- For major surface water withdrawals, public surface water supply withdrawals, or projects that will alter instream flows, include the water supply issues that form the basis of the proposed project.

See Appendix B.

3. PROVIDE A DESCRIPTION OF THE PROJECT (Continued)Date of proposed commencement of work (MM/DD/YYYY)
October 15, 2008Date of proposed completion of work (MM/DD/YYYY)
~February 1, 2009Are you submitting this application at the direction of any State,
local, or Federal agency? ____ Yes ☒ NoHas any work commenced or has any portion of the project for
which you are seeking a permit been completed?
____ Yes ☒ No

If you answered "yes" to either question above, give details stating when the work was completed and/or when it commenced, who performed the work, and which agency (if any) directed you to submit this application. In addition, you will need to clearly differentiate between completed work and proposed work on your project drawings.

Are you aware of any unresolved violations of environmental law or litigation involving the property? ____ Yes ☒ No
(If yes, please explain)

4. PREVIOUS SITE VISITS AND/OR PERMITS RELATED TO THE PROPOSED WORK (Include all Federal, State, and Local pre-application coordination or previous permits)

Agency	Activity	Permit/Project number, and explanation of non-reporting Nationwide permits previously used	Action taken ** and Date of Action	If denied, give reason for denial

** Issued, denied, site visit

5. PROJECT COSTS

Approximate cost of the entire project, including materials and labor: \$ 1,200,000

Approximate cost of only the portion of the project affecting State waters (below mean low water in tidal areas and below ordinary high water mark in nontidal areas): \$ 600,000

6. PUBLIC NOTIFICATION (Attach additional sheets if necessary)

- Complete information for all property owners adjacent to the project site and across the waterway, if the waterway is less than 500 feet in width. If your project is located within a cove, you will need to provide names and mailing addresses for all property owners within the cove.
- If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.

Property owner's name	Mailing address	City	State	Zip code
The Western Virginia Water Authority and the City of Roanoke own all property adjacent to the project. Both are in support of this project.				
Name of newspaper having general circulation in the area of the project: <u>Roanoke Times</u>				
Address and phone number (including area code) of newspaper: <u>P.O. Box 2491 Roanoke, VA 24010-2491</u> <u>540-346-1234</u>				
Have adjacent property owners been notified with forms in Appendix A? <u>Yes</u> <input checked="" type="checkbox"/> <u>No</u> (attach copies of distributed forms)				

7. THREATENED AND ENDANGERED SPECIES INFORMATION

Please provide any information concerning the potential for your project to impact state and/or federally threatened and endangered species (listed or proposed). Attach correspondence from agencies and/or reference materials that address potential impacts, such as database search results or your Corps' waters and wetlands delineation confirmation. Contact information for the Virginia Department of Game and Inland Fisheries and the Virginia Department of Conservation and Recreation, Division of Natural Heritage can be found on page 4 of this package.

See Appendix C.

8. HISTORIC RESOURCES INFORMATION

Note: Historic properties include but are not limited to archeological sites, battlefields, Civil War earthworks, graveyards, buildings, bridges, canals, etc. Prospective permittees should be aware that section 110k of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant.

Are any historic properties located within or adjacent to the project site? Yes ☒ No Uncertain

If Yes, please provide a map showing the location of the historic property within or adjacent to the project site.

Are there any buildings or structures 50 years old or older located on the project site? Yes ☒ No Uncertain
If Yes, please provide a map showing the location of these buildings or structures on the project site.

Is your project located within a historic district? Yes ☒ No Uncertain

If Yes, please indicate which district: _____

8. HISTORIC RESOURCES INFORMATION (Continued)

Has a survey to locate archeological sites and/or historic structures been carried out on the property?
 ___ Yes X No ___ Uncertain

If Yes, please provide the following information: Date of Survey: _____

Name of firm: _____

Is there a report on file with the Virginia Department of Historic Resources? Yes No ☒ Uncertain

Title of Cultural Resources Management (CRM) report: _____

Was any historic property located? ☐ Yes ☐ No ☐ Uncertain

9. WETLANDS, WATERS, AND DUNES/BEACHES IMPACT INFORMATION

Report each impact site in a separate column. If needed, attach additional sheets using a similar table format. Please ensure that the project is not repeated in a column. Check the following:

ensure that the associated project drawings clearly depict the location and footprint of each numbered impact site. For dredging, mining, and excavating projects, use Section 18.			
	Impact site number	Impact site number	Impact site number

[illegible]

9. WETLANDS/WATERS IMPACT INFORMATION (Continued)

DEQ classification of impacted resource(s):

Estuarine Class II
Non-tidal waters Class III
Mountainous zone waters Class IV
Stockable trout waters Class V
Natural trout waters Class VI
Wetlands Class VII

Mountainous Zone Waters
Class IV

For DEQ permitting purposes, also submit as part of this section a wetland and waters boundary delineation map⁽⁴⁾ – see the Footnotes section in the form instructions.

See Appendix D

For DEQ permitting purposes, also submit as part of this section a written disclosure of all wetlands, open water, or streams that are located within the proposed project or compensation areas that are also under a deed restriction, conservation easement, restrictive covenant, or other land-use protective instrument.

Roanoke River

10. APPLICANT, AGENT, OWNER, AND CONTRACTOR CERTIFICATIONS

If the Applicant(s), Agent(s), Owner(s), or Contractor(s) is/are a company, please use the company name(s) that is/are registered with the State Corporation Commission (SCC).

READ ALL OF THE FOLLOWING CAREFULLY BEFORE SIGNING

PRIVACY ACT STATEMENT: The Department of the Army permit program is authorized by Section 10 of the Rivers and Harbors Act of 1899, Section 404 of the Clean Water Act, and Section 103 of the Marine Protection Research and Sanctuaries Act of 1972. These laws require that individuals obtain permits that authorize structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters prior to undertaking the activity. Information provided in the Joint Permit Application will be used in the permit review process and is a matter of public record once the application is filed. Disclosure of the requested information is voluntary, but it may not be possible to evaluate the permit application or to issue a permit if the information requested is not provided.

CERTIFICATION: I am hereby applying for permits typically issued by the DEQ, VMRC, U.S. Army Corps of Engineers, and/or Local Wetlands Boards for the activities I have described herein. I agree to allow the duly authorized representatives of any regulatory or advisory agency to enter upon the premises of the project site at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit and after permit issuance to determine compliance with the permit.

In addition, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

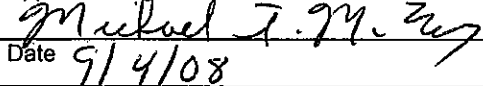
Is/Are the Applicant(s) and Owner(s) the same? ____ Yes ☒ No

Applicant's name & title (printed or typed)

Michael T. McEvoy, Exec. Director, Wastewater Services

Second applicant's name & title, if applicable (printed or typed)

Applicant's signature



Second applicant's signature

Date

9/4/08

Date

(Required for VMRC permit actions only)

Property owner's name, if different from Applicant

(Required for VMRC permit actions only)

Second property owner's name, if applicable

Owner's signature, if different from Applicant

Second owner's signature

Date

Date

10. APPLICANT, AGENT, OWNER, AND CONTRACTOR CERTIFICATIONS (Continued)

If the Applicant(s), Agent(s), Owner(s), or Contractor(s) is/are a company, please use the company name(s) that is/are registered with the State Corporation Commission (SCC).

CERTIFICATION OF AUTHORIZATION TO ALLOW AGENT(S) TO ACT ON APPLICANT'S(S) BEHALF (IF APPLICABLE)

I (we), Michael T. McEvoy, WVWA (and) _____,
 APPLICANT'S NAME(S) – complete the second blank if more than one Applicant

hereby certify that I (we) have authorized Lawrence Hoffman, Olver Inc. (and) _____
 AGENT'S NAME(S) – complete the second blank if more than one Agent

to act on my (our) behalf and take all actions necessary to the processing, issuance, and acceptance of this permit and any and all standard and special conditions attached. I (we) hereby certify that the information submitted in this application is true and accurate to the best of my (our) knowledge.

Applicant's signature <u>Michael T. McEvoy</u>	Second applicant's signature, if applicable
Date <u>9/4/08</u>	Date
Agent's signature and title <u>Lawrence Hoffman</u> <u>Director of Environmental Services</u> <u>Olver Incorporated</u>	Second agent's signature and title, if applicable
Date <u>9/4/08</u>	Date

CONTRACTOR ACKNOWLEDGEMENT (IF APPLICABLE)

I (we), _____ (and) _____,
 APPLICANT'S NAME(S) – complete the second blank if more than one Applicant

have contracted _____ (and) _____
 CONTRACTOR'S NAME(S) – complete the second blank if more than one Contractor

to perform the work described in this Joint Permit Application, signed and dated _____.

I (we) will read and abide by all conditions as set forth in all Federal, State, and Local permits as required for this project. I (we) understand that failure to follow the conditions of the permits may constitute a violation of applicable Federal, State, and Local statutes and that we will be liable for any civil and/or criminal penalties imposed by these statutes.

In addition, I (we) agree to make available a copy of any permit to any regulatory representative visiting the project site to ensure permit compliance. If I (we) fail to provide the applicable permit upon request, I (we) understand that the representative will have the option of stopping our operation until it has been determined that we have a properly signed and executed permit and are in full compliance with all of the terms and conditions.

Contractor's name or name of firm (printed/typed)	Contractor's or firm's mailing address	
Contractor's signature and title	Contractor's license number	Date
Applicant's signature	Second applicant's signature, if applicable	
Date	Date	



END OF GENERAL INFORMATION

The following sections are activity-specific. Fill out only the sections that apply to your particular project.

19. FILL (not associated with backfilled shoreline structures) AND OTHER STRUCTURES (other than piers and boathouses) IN WETLANDS OR WATERS, OR ON DUNES/BEACHES

Source and composition of fill material (percentage sand, silt, clay, rock): _____

Provide documentation (i.e. laboratory results or analytical reports) that fill material from off-site locations is free of toxics. If not free of toxics, provide documentation of proper disposal (i.e. bill of lading from commercial supplier or disposal site). Documentation is not necessary for fill material obtained from on-site areas.

Explain the purpose of the filling activity and the type of structure to be constructed over the filled area (if any):

Describe any structure that will be placed in wetlands/waters or on a beach dune and its purpose:

Will the structure be placed on pilings? ____ Yes ____ No

Total area occupied by any structure.
_____ Square Feet

How far will the structure be placed channelward from the back edge of the dune? _____ feet

How far will the structure be placed channelward from the back edge of the beach? _____ feet

20. NONTIDAL STREAM CHANNEL MODIFICATIONS FOR RESTORATION OR ENHANCEMENT, or TEMPORARY OR PERMANENT RELOCATIONS

If proposed activities are being conducted for the purposes of compensatory mitigation, please attach separate sheets of paper providing all information required by the most recent version of the stream assessment methodology approved by the Norfolk District of the U.S. Army Corps of Engineers and the Virginia Department of Environmental Quality, in lieu of completing the questions below. Required information outlined by the methodology can be found at: <http://155.78.20.211/Technical%20Services/Regulatory%20Branch/USM.asp> or <http://www.deq.virginia.gov/wetlands/mitigate.html>.

Has the stream restoration project been designed by a local, state, or federal agency? ☒ Yes ____ No. If yes, please include the name of the agency here: US Fish and Wildlife Service (partial)

Is the agency also providing funding for this project? ☒ Yes ____ No

Linear feet of stream impact: _____

Contributing drainage area: 395 acres or _____ square miles

Existing average stream flow at site (flow rate under normal rainfall conditions): 250 cfs

Proposed average stream flow at site after modifications (flow rate under normal rainfall conditions): 250 cfs

Explain, in detail, the method to be used to stabilize the banks:

VDOT Class I Riprap; match existing riverbank profile

Explain the composition of the existing stream bed (percent cobble, rock, sand, etc.):

Bedrock 3%, Boulder 10%, Cobble 18%, Gravel 43%, Sand 28%, Silt/clay 0%

20. NONTIDAL STREAM CHANNEL MODIFICATIONS (Continued)

Will low-flow channels be maintained in the modified stream channel? ☒ Yes ☐ No.

Describe how:

Will coffer no more than 50% of channel at one time

Will any structure(s) be placed in the stream to create riffles, pools, meanders, etc.? ☐ Yes ☒ No

If yes, please explain:

21. UTILITY CROSSINGS

Type of crossing: ☐ overhead ☒ trenched ☐ directionally-drilled

Method of clearing corridor of vegetation (check all that apply): ☐ mechanized land clearing that disturbs the soil surface
☐ cutting vegetation above the soil surface

Describe the materials to be used in the installation of the utility line (including gravel bedding for trenched installations, bentonite slurries used during direction-drilling, etc.) and a sequence of events to detail how the installation will be accomplished (including methods used for in-stream and dry crossings).

A coffer dam or other diversion technique will be used on half the stream at a time to excavate the trench. Concrete will be used in the trench to protect and isolate the interceptor. The original sediment will be backfilled on top of the concrete until original grade of the stream bed is restored.

For overhead crossings over navigable waterways (including all tidal waterways), please indicate the height of other overhead crossings or bridges over the waterway relative to mean high water, mean low water, or ordinary high water mark:

N/A

Nominal system voltage, if project involves power lines: N/A

Will there be an excess of excavated material? ☒ Yes ☐ No

If so, describe the method that will be undertaken to dispose of, and transport, the material to its permanent disposal location and give that location:

A small amount of excavation material will be displaced by the utility. The excess material will be used as backfill if the material is acceptable. If the material is unacceptable or if any additional materials are in excess of what can be used, the remainder will be disposed of by off-site contractor.

Will any excess material be stockpiled in wetlands? ☐ Yes ☒ No

If so, will the stockpiled material be placed on filter fabric or some other type of impervious surface? ☐ Yes ☐ No

21. UTILITY CROSSINGS (Continued)

Will permanent access roads be placed through wetlands/streams? ____ Yes ☒ No

If yes, will the roads be _____ at grade or _____ above grade (check one)?

Will the utility line through wetlands/waters be continually maintained (e.g. via mowing or herbicide)? ____ Yes ☒ No

If maintained, what is the maximum width? _____ feet

22. ROAD CROSSINGS

Have you conducted hydraulic studies to verify the adequacy of the culverts? ____ Yes ____ No

If so, please attach a copy of the hydraulic study/report.

Virginia Department of Transportation (VDOT) standards require that the backwater for a 100 year storm not exceed 1 foot for all road, culvert, and bridge projects within FEMA-designated floodplains.

Will the culverts be countersunk below the stream bottom? ____ Yes ____ No. If no, explain: _____

If the project entails a bridged crossing and there are similar crossings in the area, what is the vertical distance above mean high water, mean low water, or ordinary high water mark of those similar structures? _____ feet above _____
For all bridges proposed over navigable waterways (including all tidal water bodies), you will be required to contact the U.S. Coast Guard to determine if a permit is required of their agency.

On separate sheets of paper, describe the materials to be used, the method of construction (including the use of cofferdams), and the sequence of construction events. Include cross sections and profile plans of the culvert crossings including wing walls or rip rap.

23. PRIVATE AND COMMERCIAL AQUACULTURE ACTIVITIES

Please review VMRC regulations related to aquaculture activities if you are completing this section. An abbreviated application is available for certain private oyster gardening activities by a riparian owner. Also, separate information is required by the VMRC Fisheries Management Division for the review of commercial projects that may qualify for the Virginia Marine Resources Commission General Permit #4 FOR TEMPORARY PROTECTIVE ENCLOSURES FOR SHELLFISH. The VMRC aquaculture regulations can be found on the agency web page at: <http://www.mrc.state.va.us/regulations/regindex.shtml>. Please see regulations 4 VAC 20-335-10 et seq., 4 VAC 20-336-10 et seq., and 4 VAC 20-1130-10 et seq.

Briefly describe your proposed aquaculture activity from the time of acquisition (seed, fingerlings, etc.) to time of harvest, and indicate which species you intend to culture. Attach additional sheets if needed.

Source of the animals/plants that you want to culture: _____

Note: VMRC Regulation 4VAC 20-754 et seq. "Pertaining to the Importation of Fish, Shellfish or Crustacea" sets forth the requirements for importing organisms from out of state.

Describe below the number, type, and dimensions of the structures that will be used (e.g., 4' x 2' x 18" floats, 3' x 3' x 1' bottom cages, etc.) and the overall dimensions of the area to be occupied by the aquaculture structures (e.g., two 40-foot by 10-foot bottom plots).