



September 4, 2025

BCC Agenda Date/Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

**Approval of a Personal Services Contract with Otak for on-call engineering services.
Contract Value is \$1,000,000 for 5 years. Funding is through Water Environment Services
Construction Fund and Operating Fund. No County General Funds are involved.**

Previous Board Action/Review	N/A		
Performance Clackamas	1. This project supports the WES Strategic Plan Goal to strategically plan and execute capital projects to meet the growth, reliability, and regulatory needs of our service area at the lowest-life cycle cost. 2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.		
Counsel Review	Yes	Procurement Review	Yes
Contact Person	Jeff Stallard	Contact Phone	503-742-4694

EXECUTIVE SUMMARY: WES frequently encounters unanticipated projects and urgent engineering needs that arise outside of the annual planning and capital improvement process. These can include emergency repair design, regulatory compliance support, specialty technical analysis, and smaller capital or operational projects.

Under the current procurement process, engaging engineering services for these smaller or urgent projects often requires repetitive contracting efforts, which can be time-consuming and delay project delivery. Establishing on-call contracts will allow WES to streamline procurement, improve efficiency, and ensure timely response to our needs.

We conducted a competitive solicitation process to identify qualified engineering firms capable of providing services in four categories, Wastewater Conveyance and Treatment Engineering, Water Resources Engineering, Engineering Construction Services, and Wastewater Process Engineering and Operational Support. Work in these categories will include a wide range of services, including planning, design, permitting, and construction support. Multiple firms were selected to ensure adequate availability,

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specialized expertise, and competitive pricing.

The on-call contracts do not obligate funding at the time of award. Task orders issued under these contracts will be funded through approved operating or capital project budgets.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Contract #1285 with Otak, Inc. for engineering on-call services.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Greg Geist", with a long horizontal flourish extending to the right.

Greg Geist
Director, WES

Attachment: Contract #1285 Otak, Inc.



**WATER ENVIRONMENT SERVICES
PERSONAL SERVICES CONTRACT
Contract # 0000001285**

This Personal Services Contract (this "Contract") is entered into between Otak, Inc. ("Contractor"), and Water Environment Services, an intergovernmental entity formed pursuant to ORS Chapter 190 ("District").

ARTICLE I.

- 1. Effective Date and Duration.** This Contract shall become effective upon signature of both parties. Unless earlier terminated or extended, this Contract shall expire on **June 30, 2030**.
- 2. Scope of Work.** Contractor shall provide On-Call Engineering Services ("Work"), further described in **Exhibit A**. The Contractor is approved to provide services for the following classes of Work:

- ☐ 1) Wastewater Conveyance and Treatment Engineering
- ☒ 2) Water Resources Engineering
- ☐ 3) Engineering Construction Services
- ☐ 4) Wastewater Process Engineering and Operational Support

This Contract is on an "on-call" or "as-needed basis" for Work.

When the District wishes Contractor to perform the Work, the District will submit an official Clackamas District Task Order form (found at: <https://www.clackamas.us/finance/terms.html>) detailing the scope of Work, the entity on whose behalf the Work will be performed, and the total compensation, pursuant to the fee schedule set forth in this Contract. Contractor may not perform Work until the County Task Order form has been executed by the parties. In the event a project authorized under the County Task Order extends beyond the expiration of this Contract, the County Task Order shall remain in effect under the terms of this Contract until the completion or expiration of the authorized task.

No task order shall modify or amend the terms and conditions of this Contract.

- 3. Consideration.** The District agrees to pay Contractor, from available and authorized funds, a sum not to exceed **one million dollars (\$1,000,000.00)** for accomplishing the Work required by this Contract. Because this is an on-call or as-needed contract, and the exact amount of Work needed, if any, is unknown, nothing herein shall be construed as a promise to pay Contractor the full \$1,000,000.00 authorized herein. Consideration rates are on a time and materials basis in accordance with the rates and costs specified in Exhibit A. If any interim payments to Contractor are made, such payments shall be made only in accordance with the schedule and requirements in Exhibit A.
- 4. Invoices and Payments.** Unless otherwise specified, Contractor shall submit monthly invoices for Work performed. Invoices shall describe all Work performed with particularity, by whom it was performed, and shall itemize and explain all expenses for which reimbursement is claimed. The invoices shall include the total amount billed to date by Contractor prior to the current invoice. If Contractor fails to present invoices in proper form within sixty (60) calendar days after the end of the month in which the services were rendered, Contractor waives any rights to present such invoice thereafter and to receive payment therefor. Payments shall be made in accordance with ORS 293.462 to Contractor following the District's review and approval of invoices submitted by Contractor. Contractor shall not submit invoices for, and the District will not be obligated to pay, any amount in excess of the maximum compensation amount set forth above. If this maximum compensation

amount is increased by amendment of this Contract, the amendment must be fully effective before Contractor performs Work subject to the amendment.

Invoices shall reference the above Contract Number and be submitted to: Wes-Payables@clackamas.us

5. Travel and Other Expense. Authorized: ☐ Yes ☒ No

If travel expense reimbursement is authorized in this Contract, such expense shall only be reimbursed at the rates in the Clackamas County Contractor Travel Reimbursement Policy, hereby incorporated by reference and found at: <https://www.clackamas.us/finance/terms.html>. Travel expense reimbursement is not in excess of the not to exceed consideration.

6. Contract Documents. This Contract consists of the following documents, which are listed in descending order of precedence and are attached and incorporated by reference, this Contract, Exhibit A, and Exhibit B. Unless explicitly agreed to by the parties in this Contract, any additional terms and conditions that may be contained in Exhibit A are void.

7. Contractor and District Contacts.

Contractor	District
Administrator: Scott Dreher, PE Phone: 503-415-2445 Email: scott.drheher@otak.com	Administrator: TDB Phone: Email:

Payment information will be reported to the Internal Revenue Service (“IRS”) under the name and taxpayer ID number submitted. (See I.R.S. 1099 for additional instructions regarding taxpayer ID numbers.) Information not matching IRS records will subject Contractor payments to backup withholding.

ARTICLE II.

- 1. Access to Records.** Contractor shall maintain books, records, documents, and other evidence, in accordance with generally accepted accounting procedures and practices, sufficient to reflect properly all costs of whatever nature claimed to have been incurred and anticipated to be incurred in the performance of this Contract. District and their duly authorized representatives shall have access to the books, documents, papers, and records of Contractor, which are directly pertinent to this Contract for the purpose of making audit, examination, excerpts, and transcripts. Contractor shall maintain such books and records for a minimum of six (6) years, or such longer period as may be required by applicable law, following final payment and termination of this Contract, or until the conclusion of any audit, controversy or litigation arising out of or related to this Contract, whichever date is later.
- 2. Availability of Future Funds.** Any continuation or extension of this Contract after the end of the fiscal period in which it is written is contingent on a new appropriation for each succeeding fiscal period sufficient to continue to make payments under this Contract, as determined by the District in its sole administrative discretion.
- 3. Captions.** The captions or headings in this Contract are for convenience only and in no way define, limit, or describe the scope or intent of any provisions of this Contract.
- 4. Compliance with Applicable Law.** Contractor shall comply with all applicable federal, state and local laws, regulations, executive orders, and ordinances, as such may be amended from time to time.

5. **Counterparts.** This Contract may be executed in several counterparts (electronic or otherwise), each of which shall be an original, all of which shall constitute the same instrument.
6. **Governing Law.** This Contract, and all rights, obligations, and disputes arising out of it, shall be governed and construed in accordance with the laws of the State of Oregon and the ordinances of Clackamas County without regard to principles of conflicts of law. Any claim, action, or suit between District and Contractor that arises out of or relates to the performance of this Contract shall be brought and conducted solely and exclusively within the Circuit Court for Clackamas County, for the State of Oregon. Provided, however, that if any such claim, action, or suit may be brought in a federal forum, it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the District of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. Contractor, by execution of this Contract, hereby consents to the personal jurisdiction of the courts referenced in this section.
7. **Indemnity, Responsibility for Damages.** Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay which may be caused by, or result from, any act, omission, or neglect of Contractor, its subcontractors, agents, or employees. The Contractor agrees to indemnify and defend the District and Clackamas County, and their officers, elected officials, agents and employees from and against all claims, actions, losses, liabilities, including reasonable attorney and accounting fees, and all expenses incidental to the investigation and defense thereof, arising out of or based upon Contractor's acts or omissions in performing under this Contract. Provided, however, that pursuant to ORS 30.140(4), Contractor's duty to defend obligations arising from or related to Contractor's professional negligence, or related to professional services provided by Contractor, are limited to reimbursement of reasonable defense costs (including reasonable attorney fees) of District and Clackamas County in an amount not to exceed the proportionate fault of Contractor, as determined by adjudication, alternative dispute resolution, or otherwise resolved by settlement agreement.
- However, neither Contractor nor any attorney engaged by Contractor shall defend the claim in the name of District or Clackamas County ("County"), purport to act as legal representative of District or County, or settle any claim on behalf of District or County, without the approval of the Clackamas County Counsel's Office. District or County may assume their own defense and settlement at their election and expense.
8. **Independent Contractor Status.** The service(s) to be rendered under this Contract are those of an independent contractor. Although the District reserves the right to determine (and modify) the delivery schedule for the Work to be performed and to evaluate the quality of the completed performance, District cannot and will not control the means or manner of Contractor's performance. Contractor is responsible for determining the appropriate means and manner of performing the Work. Contractor is not to be considered an agent or employee of District for any purpose, including, but not limited to: (A) The Contractor will be solely responsible for payment of any Federal or State taxes required as a result of this Contract; and (B) This Contract is not intended to entitle the Contractor to any benefits generally granted to District employees, including, but not limited to, vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, Social Security, Workers' Compensation, unemployment compensation, or retirement benefits.
9. **Insurance.** Contractor shall secure at its own expense and keep in effect during the term of the performance under this Contract the insurance required and minimum coverage indicated below. The insurance requirements outlined below do not in any limit the amount of scope of liability of Contractor under this Contract. Contractor shall provide proof of said insurance and name the District

and Clackamas County as an additional insureds on all required liability policies. Proof of insurance and notice of any material change should be submitted to the following address: Clackamas County Procurement Division, 2051 Kaen Road, Oregon City, OR 97045 or the County Contract Analyst.

Required - Workers Compensation: Contractor shall comply with the statutory workers' compensation requirements in ORS 656.017, unless exempt under ORS 656.027 or 656.126.
☒ Required – Commercial General Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per claim, with an annual aggregate limit of \$2,000,000 for Bodily Injury and Property Damage.
☒ Required – Professional Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence, with an annual aggregate limit of \$2,000,000 for damages caused by error, omission or negligent acts.
☒ Required – Automobile Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per accident for Bodily Injury and Property Damage.

The policy(s) shall be primary insurance as respects to the District. Any insurance or self-insurance maintained by the District shall be excess and shall not contribute to it. Any obligation that District agree to a waiver of subrogation is hereby stricken.

- 10. Limitation of Liabilities.** This Contract is expressly subject to the debt limitation of Oregon counties set forth in Article XI, Section 10, of the Oregon Constitution, and is contingent upon funds being appropriated therefore. Any provisions herein which would conflict with law are deemed inoperative to that extent. Except for liability arising under or related to Article II, Section 13 or Section 20 neither party shall be liable for (i) any indirect, incidental, consequential or special damages under this Contract or (ii) any damages of any sort arising solely from the termination of this Contract in accordance with its terms.
- 11. Notices.** Except as otherwise provided in this Contract, any required notices between the parties shall be given in writing by personal delivery, email, or mailing the same, to the Contract Administrators identified in Article 1, Section 6. If notice is sent to District, a copy shall also be sent to: Clackamas County Procurement, 2051 Kaen Road, Oregon City, OR 97045. Any communication or notice so addressed and mailed shall be deemed to be given five (5) days after mailing, and immediately upon personal delivery, or within 2 hours after the email is sent during District's normal business hours (Monday – Thursday, 7:00 a.m. to 6:00 p.m.) (as recorded on the device from which the sender sent the email), unless the sender receives an automated message or other indication that the email has not been delivered.
- 12. Ownership of Work Product.** All work product of Contractor that results from this Contract (the "Work Product") is the exclusive property of District. District and Contractor intend that such Work Product be deemed "work made for hire" of which District shall be deemed the author. If for any reason the Work Product is not deemed "work made for hire," Contractor hereby irrevocably assigns to District all of its right, title, and interest in and to any and all of the Work Product, whether arising from copyright, patent, trademark or trade secret, or any other state or federal intellectual property law or doctrine. Contractor shall execute such further documents and instruments as District may reasonably request in order to fully vest such rights in District. Contractor forever waives any and all rights relating to the Work Product, including without limitation, any and all rights arising under 17 USC § 106A or any other rights of identification of authorship or rights of approval, restriction or limitation on use or subsequent modifications. Notwithstanding the above, District shall have no rights in any pre-existing Contractor intellectual property provided to District by Contractor in the performance of this Contract except to copy, use and re-use any such Contractor intellectual property for District use only.

- 13. Representations and Warranties.** Contractor represents and warrants to District that (A) Contractor has the power and authority to enter into and perform this Contract; (B) this Contract, when executed and delivered, shall be a valid and binding obligation of Contractor enforceable in accordance with its terms; (C) Contractor shall at all times during the term of this Contract, be qualified, professionally competent, and duly licensed to perform the Work; (D) Contractor is an independent contractor as defined in ORS 670.600; and (E) the Work under this Contract shall be performed in accordance with the standard of professional skill and care required for a project of similar size, location, scope, and complexity, during the time in which the Work is being performed. The warranties set forth in this section are in addition to, and not in lieu of, any other warranties provided. The Contractor shall be responsible for the technical accuracy of its services and documents resulting therefrom, and District shall not be responsible for discovering deficiencies therein. The Contractor shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in information furnished by the District.
- 14. Survival.** All rights and obligations shall cease upon termination or expiration of this Contract, except for the rights and obligations set forth in Article II, Sections 1, 6, 7, 10, 12, 13, 14, 15, 17, 20, 21, 25, 27, 28 and 32, and all other rights and obligations which by their context are intended to survive. However, such expiration shall not extinguish or prejudice the District's right to enforce this Contract with respect to: (a) any breach of a Contractor warranty; or (b) any default or defect in Contractor performance that has not been cured.
- 15. Severability.** If any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.
- 16. Subcontracts and Assignments.** Contractor shall not enter into any subcontracts for any of the Work required by this Contract, or assign or transfer any of its interest in this Contract by operation of law or otherwise, without obtaining prior written approval from the District, which shall be granted or denied in the District's sole discretion. In addition to any provisions the District may require, Contractor shall include in any permitted subcontract under this Contract a requirement that the subcontractor be bound by this Article II, Sections 1, 7, 8, 13, 16, and 27 as if the subcontractor were the Contractor. District's consent to any subcontract shall not relieve Contractor of any of its duties or obligations under this Contract.
- 17. Successors in Interest.** The provisions of this Contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective authorized successors and assigns.
- 18. Tax Compliance Certification.** The Contractor shall comply with all federal, state and local laws, regulation, executive orders and ordinances applicable to this Contract. Contractor represents and warrants that it has complied, and will continue to comply throughout the duration of this Contract and any extensions, with all tax laws of this state or any political subdivision of this state, including but not limited to ORS 305.620 and ORS chapters 316, 317, and 318. Any violation of this section shall constitute a material breach of this Contract and shall entitle District to terminate this Contract, to pursue and recover any and all damages that arise from the breach and the termination of this Contract, and to pursue any or all of the remedies available under this Contract or applicable law.
- 19. Termination.** This Contract may be terminated for the following reasons: (A) by mutual agreement of the parties or by the District (i) for convenience upon thirty (30) days written notice to Contractor, or (ii) at any time the District fails to receive funding, appropriations, or other expenditure authority as solely determined by the District; or (B) if Contractor breaches any Contract provision or is declared insolvent, District may terminate after thirty (30) days written notice with an opportunity to cure.

Upon receipt of written notice of termination from the District, Contractor shall immediately stop performance of the Work. Upon termination of this Contract, Contractor shall deliver to District all documents, Work Product, information, works-in-progress and other property that are or would be deliverables had the Contract Work been completed. Upon District's request, Contractor shall surrender to anyone District designates, all documents, research, objects or other tangible things needed to complete the Work.

- 20. Remedies.** If terminated by the District due to a breach by the Contractor, then the District shall have any remedy available to it in law or equity. If this Contract is terminated for any other reason, Contractor's sole remedy is payment for the goods and services delivered and accepted by the District, less any setoff to which the District is entitled.
- 21. No Third Party Beneficiaries.** District and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.
- 22. Time is of the Essence.** Contractor agrees that time is of the essence in the performance this Contract.
- 23. Foreign Contractor.** If the Contractor is not domiciled in or registered to do business in the State of Oregon, Contractor shall promptly provide to the Oregon Department of Revenue and the Secretary of State, Corporate Division, all information required by those agencies relative to this Contract. The Contractor shall demonstrate its legal capacity to perform these services in the State of Oregon prior to entering into this Contract.
- 24. Force Majeure.** Neither District nor Contractor shall be held responsible for delay or default caused by events outside the District or Contractor's reasonable control including, but not limited to, fire, terrorism, riot, acts of God, or war. However, Contractor shall make all reasonable efforts to remove or eliminate such a cause of delay or default and shall upon the cessation of the cause, diligently pursue performance of its obligations under this Contract.
- 25. Waiver.** The failure of District to enforce any provision of this Contract shall not constitute a waiver by District of that or any other provision.
- 26. Public Contracting Requirements.** Pursuant to the public contracting requirements contained in Oregon Revised Statutes ("ORS") Chapter 279B.220 through 279B.235, Contractor shall:
- a. Make payments promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the work provided for in the Contract.
 - b. Pay all contributions or amounts due the Industrial Accident Fund from such Contractor or subcontractor incurred in the performance of the Contract.
 - c. Not permit any lien or claim to be filed or prosecuted against District on account of any labor or material furnished.
 - d. Pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
 - e. As applicable, the Contractor shall pay employees for work in accordance with ORS 279B.235, which is incorporated herein by this reference. The Contractor shall comply with the prohibitions set forth in ORS 652.220, compliance of which is a material element of this Contract, and failure to comply is a breach entitling District to terminate this Contract for cause.
 - f. If the Work involves lawn and landscape maintenance, Contractor shall salvage, recycle, compost, or mulch yard waste material at an approved site, if feasible and cost effective.

27. No Attorney Fees. In the event any arbitration, action or proceeding, including any bankruptcy proceeding, is instituted to enforce any term of this Contract, each party shall be responsible for its own attorneys' fees and expenses.

28. Reserved.

29. Reserved.

30. Key Persons. Contractor acknowledges and agrees that a significant reason the District is entering into this Contract is because of the special qualifications of certain Key Persons set forth in the contract. Under this Contract, the District is engaging the expertise, experience, judgment, and personal attention of such Key Persons. Neither Contractor nor any of the Key Persons shall delegate performance of the management powers and responsibilities each such Key Person is required to provide under this Contract to any other employee or agent of the Contractor unless the District provides prior written consent to such delegation. Contractor shall not reassign or transfer a Key Person to other duties or positions such that the Key Person is no longer available to provide the District with such Key Person's services unless the District provides prior written consent to such reassignment or transfer.

31. Reserved.

32. Merger. THIS CONTRACT CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES WITH RESPECT TO THE SUBJECT MATTER REFERENCED THEREIN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. NO AMENDMENT, CONSENT, OR WAIVER OF TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY ALL PARTIES. ANY SUCH AMENDMENT, CONSENT, OR WAIVER SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. CONTRACTOR, BY THE SIGNATURE HERETO OF ITS AUTHORIZED REPRESENTATIVE, IS AN INDEPENDENT CONTRACTOR, ACKNOWLEDGES HAVING READ AND UNDERSTOOD THIS CONTRACT, AND CONTRACTOR AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

By their signatures below, the parties to this Contract agree to the terms, conditions, and content expressed herein.

Otak, Inc.

Water Environment Services

Scott Dreher

Digitally signed by Scott Dreher
DN: C=US, E=scott.dreher@otak.com,
CN=Scott Dreher
Date: 2025.05.21 11:34:59-07'00'

Authorized Signature

Date

Signature

Date

Name / Title (Printed)

Name: _____

Title: _____

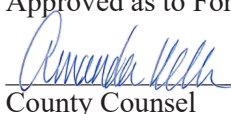
153321-17

Oregon Business Registry #

Approved as to Form:

DBC/Oregon

Entity Type / State of Formation


County Counsel

6/26/2025

Date

EXHIBIT A
RFP 2025-01
Water Environment Services Engineering Master Contract
On-Call Engineering Services
Published January 27, 2025

EXHIBIT B
CONTRACTOR'S PROPOSAL

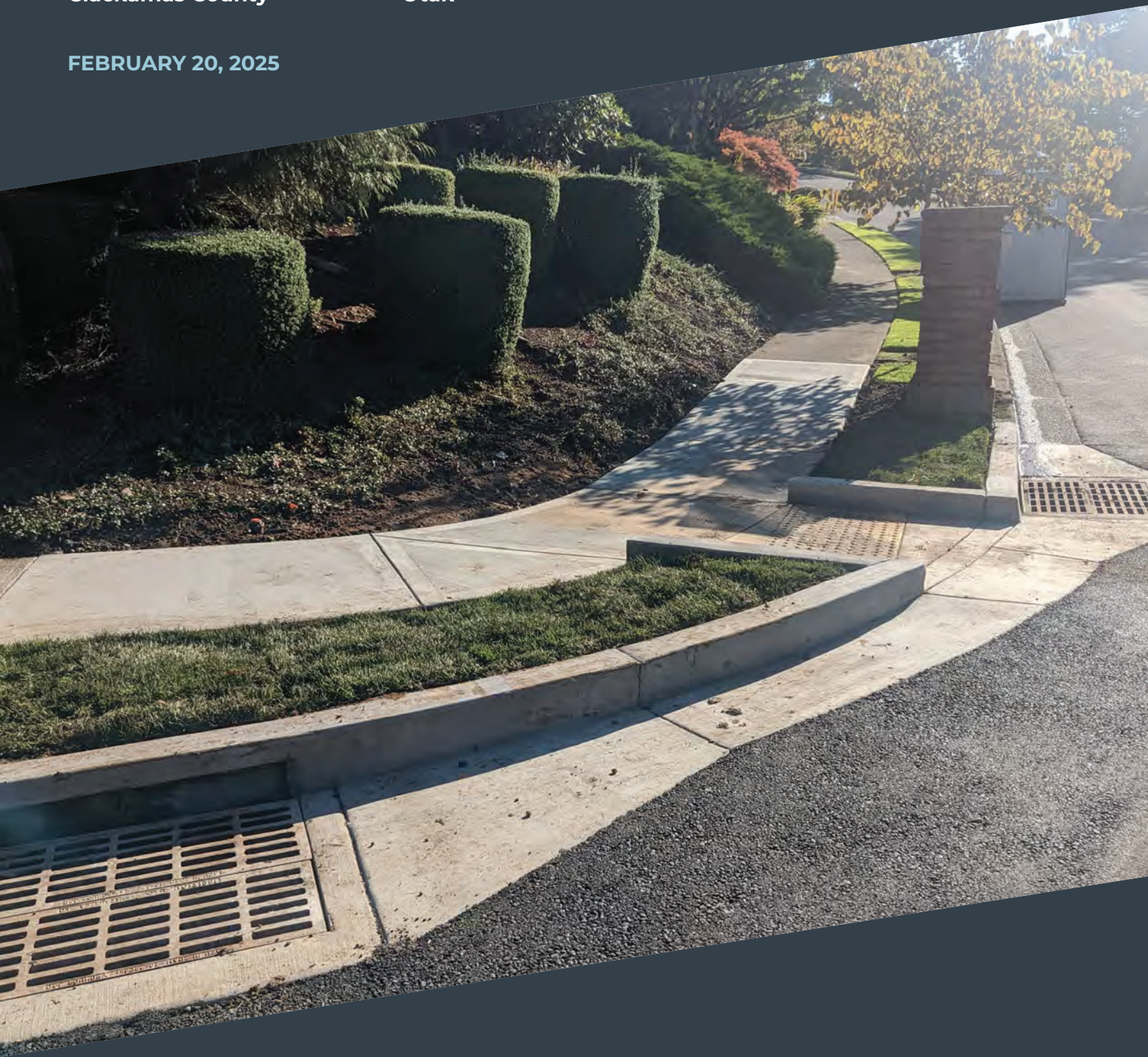
PROPOSAL

Water Environment Services Engineering Master Contract On-Call Engineering Services

Submitted to
Clackamas County

Submitted by
Otak

FEBRUARY 20, 2025



February 20th, 2025

Gary Schmidt, County Administrator
Ryan Rice, Contract Analyst
Clackamas County Water Environmental Services
150 Beaver Creek Road
Oregon City, OR 97045

Re: Water Environment Services Engineering Master Contract On-Call Engineering Services

Dear Mr. Schmidt, Mr. Rice, and Members of the Selection Team,

We are pleased to submit our proposal for the Engineering Master On-Call Services contract with Clackamas County. Otak has a longstanding commitment to quality engineering and collaboration, and we are excited about the opportunity to bring our expertise in water resource engineering to support Clackamas County's growing needs. Our full-services firm currently holds over 60 on-call contracts with counties, cities, and state agencies. With this experience, we understand how to work effectively as an extension of county staff with a proven approach to deliver a wide range of services to improve communities.

We are pleased to provide this proposal for the following discipline:

- **Water Resource Engineering**

Our approach emphasizes efficiency, reliability, and close collaboration. We recognize the importance of adaptive project management and a proactive approach to align our work with Clackamas County's strategic infrastructure goals and community values. Our team's commitment to responsiveness and communication will ensure that each project phase, from planning and design to implementation and final review, meets your high standards.

Founded in 1981, Otak has grown to become a leader in the AEC industry. With our headquarters in Portland, we are well-positioned to provide efficient on-call services. We have staff members living in Portland to bring personal familiarity and insight and with a vested interest in the County's success.

Thank you for your consideration of Otak for this contract. We look forward to the opportunity to work alongside Clackamas County in advancing infrastructure solutions that benefit the community.

This proposal is valid for ninety (90) days.

Sincerely,



Philip Kenyon, PE, CESCL
Project Manager
philip.kenyon@otak.com
(503) 415-2308
Otak, Inc.



Scott Dreher, PE
Chief Operating Officer
scott.dreher@otak.com
(503) 415-2445
Otak, Inc.

5.3 Firm Resources

Firm Experience & Resources

We are strongly committed to meeting your needs for on-call planning services, providing you with responsiveness, flexibility, strong technical skills, relevant project experience, and cost-effective delivery.

The professional team at Otak has provided full-service planning, design, permitting, and construction services for projects throughout Oregon and Washington since 1981. Otak has managed both simple and complicated projects, with small-scale to multi-million-dollar budgets, for clients in both private and public sectors. Project time scales range from fast-track emergency responses to planning efforts lasting years. We understand that project success depends on strong coordination among multiple professions; our work history demonstrates this proficiency.

Our in-house interdisciplinary services benefit many projects and communities through an integrated design approach. **We apply a clear vision, positive energy, and a client-centric focus to every project we touch.**

Our Team

Otak employs one of the largest water resource teams in the Pacific Northwest, specializing in river restoration design, hydrology, hydraulics, and stormwater management.

Otak's Water and Natural Resources (WNR) services range from planning and regulatory compliance to design and permitting, to construction management and engineering. Our familiarity with Clackamas County enables us to tackle challenges with precision and effectiveness.



OTAK CORPORATE INFORMATION

8

Offices
across 3 states
(headquartered
in Portland, OR)



- Portland, OR
- Bend, OR
- Salem, OR
- Vancouver, WA

- Redmond, WA
- Everett, WA
- Louisville, CO
- Denver, CO

Our Portland office will have the primary responsibility for providing these services and/or execution of the work for Clackamas County.



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Employees

Main Contact:
Philip Kenyon
PE, CESCL
(503) 415-2308



Local Office:
808 SW Third Ave. Suite 800,
Portland, OR 97204

For more than a decade, Otak has built a strong, collaborative partnership with Clackamas County. Through numerous projects and task orders, we have gained valuable insight into your organization's vision, priorities, and processes while fostering strong relationships with many Clackamas County project managers. We look forward to continuing to deliver the high-quality work you expect from Otak.

Clackamas WES 2015 On-Call for Surface Water Technical Services • Clackamas County Stormwater Management Program Support • WES and Happy Valley Storm System Master Plan • 2021 Storm Inlet Replacements • WES Stormwater Management Plan Update 2022 • SE 108th Ave Drainage Improvements • Upper Kellogg Creek (SE Aldercrest) Flood Mitigation and Stream Restoration • SE Clackamas Rd. Drainage Improvements • Foster Creek (Bakers Ferry Rd) Bridge Scour Repair



Water Resource Engineering Experience

Otak has extensive experience in implementing stream and wetland related restoration projects and can provide most services for a project, including project and construction management, project design, survey, hydraulic modeling, engineering, and permitting.

STORMWATER MODELING AND DESIGN SERVICES

We have a team of stormwater engineers experienced in modeling urban hydrology and hydraulics. We have supported Clackamas County and other municipalities throughout western and central Oregon with open-channel and closed system stormwater conveyance, robust inlet capture systems, energy dissipators, LID and mechanical water quality treatment systems, and detention for both peak storm events and to mitigate for hydromodification. We are familiar with simplified and complex energy equation hydraulic modeling using MS Excel, HydroCAD, and XP-SWMM softwares. Our stormwater professionals work on a variety of projects including public improvements, stormwater retrofits, stormwater master planning projects, private design tasks, stormwater plan reviews, and construction support tasks, giving us a broad range of experiences and innovative solutions to help meet whatever needs we have.

SURFACE WATER HYDROLOGY AND HYDRAULIC MODELING

We tailor our modeling approach to each project, combining techniques and software for optimal detail and efficiency. Our team has extensive experience in hydrologic and hydraulic analysis, from simple inundation assessments to complex 1-D and 2-D modeling. We apply sound hydraulic principles without a one-size-fits-all approach, ensuring accurate, site-specific results. Using GIS-compatible software, we conduct incipient motion analyses, structural performance evaluations, field discharge measurements, flood probability assessments, and channel flow modeling to meet each project's unique needs.

FLOODPLAIN MANAGEMENT

Our collaborative, science-driven approach to floodplain design uses hydraulic modeling to identify restoration opportunities. We document floodway and surface water changes, provide mapping, no-rise certifications, and LOMR/CLOMR documentation. With certified floodplain managers and riparian ecologists, we have improved connectivity, removed barriers, restored channels, and enhanced habitats across Oregon and Washington.

STREAM AND WETLAND ENHANCEMENT DESIGN AND ENGINEERING

Otak's restoration approach prioritizes long-term solutions that support natural functions, watershed dynamics, and stakeholder goals. We ensure floodplain wetlands remain hydrologically connected through detailed analysis of overbank inundation and groundwater interaction. Our hydraulic engineers and landscape architects collaborate to establish plant communities suited to site conditions. We design wetlands that enhance habitat, aesthetics, and mitigation compliance, offering delineation, permitting, and construction services for wetland banking, enhancement, water quality, and wildlife habitat. Where appropriate, we incorporate beaver analogs and reintroduction. Our in-channel habitat improvements use process-based principles to create natural, stable conditions. We have restored degraded streams across urban, coastal, and upland environments, applying bioengineered solutions to reduce out-of-channel degradation. Large wood structures improve habitat diversity for salmonids, fish, amphibians, birds, and mammals. With decades of experience restoring rivers and streams in Washington and Oregon, we emphasize sustainable habitat quality, diversity, and function. Our comprehensive approach—from feasibility to construction—ensures lasting ecological benefits.

CULVERT AND BRIDGE HYDRAULICS

Otak has led feasibility studies, design, and implementation of numerous culvert and bridge removal projects across Oregon and Washington. We assess fish passage barriers and design effective solutions to restore connectivity. Our team integrates natural sciences and engineering to evaluate and manage structure removal, addressing sediment transport, hydrology, channel creation, stormwater, and permitting. With expertise across structural, geomorphic, and water resource engineering, we work seamlessly to anticipate and resolve design challenges.

PERMITTING

Otak assists clients in securing federal, state, and local permits, navigating regulatory requirements and timelines. Our team collaborates with stakeholders and agencies to balance design goals with permitting needs, ensuring a smooth approval process.

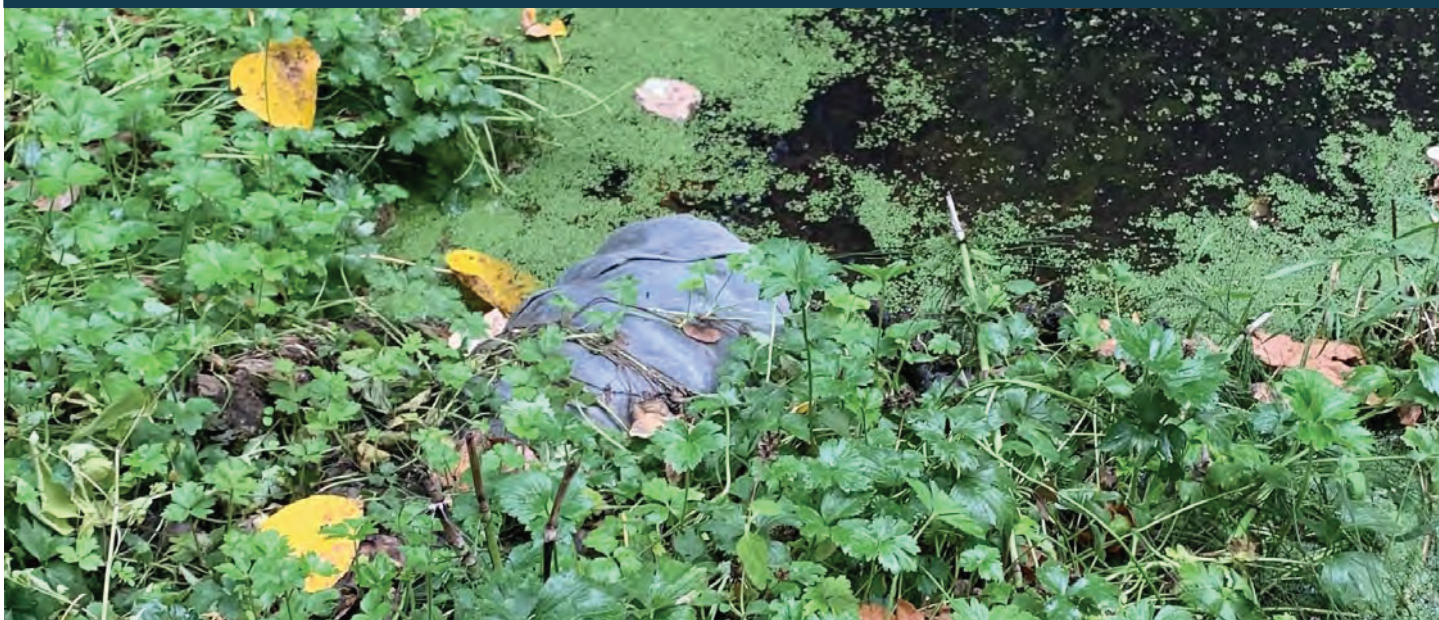
5.4 Local Experience

SERVICE CATEGORY KEY

A = STORMWATER

B = WATER RECOVERY

C = SUSTAINABLE WATERSHED
MANAGEMENT



Metro On-Call

Otak has been providing on-call professional services to Metro Parks and Nature for 10 years. The current design services agreement includes Water Resources, Environmental Science, and Forest Road On-Call services.

During the last five years, Otak has assisted Metro with the following projects:

- C** Smith & Bybee Lakes Seepage Cutoff Wall
- C** Jonsson Center Culvert & Access Road Improvements
- C** Meyers Quarry Site Restoration Concepts
- ✓ Oxbow Park Bridge Railing Retrofit
- C** Pearce Property Site Prep
- C** Brookwood Property Demo and Site Prep
- C** Matzke Property Demo and Site Prep
- C** Farmington Paddle Launch Bank Stabilization
- C** Lower Tualatin Headwater Target Ecological Assessment

REFERENCE

Brian Vaughn

Principal Natural Resource Scientist

(503) 797-1919

Brian.Vaughn@oregonmetro.gov





Clean Water Services On-Call

Otak has been providing on-call professional services to Clean Water Services for 13 years. The current price agreement includes services in the category of Conveyance Engineering, Environmental Services, Planning, Survey, and Water Resources -Stormwater.

During the last five years, Otak has assisted the District with the following projects:

- ✓ Three Small Sanitary Sewer Extension Projects
- C** Butternut Creek Reach 1 Design Support
- C** Butternut Creek Reach 2 Project Survey
- A** Upgrades to Tualatin River Urban Stormwater Tool
- A C** South Bull Mountain Regional Stormwater Strategy
- A C** Red Rock Creek Regional Stormwater Management Strategy
- C** Chicken Creek Maintenance Road Bridges

REFERENCE

Chris Faulkner
 Planning Manager
 (503) 681-3692
FaulknerC@CleanWaterServices.org

SERVICE CATEGORY KEY

A

= STORMWATER

B

= WATER RECOVERY

C

= SUSTAINABLE WATERSHED MANAGEMENT





Consultant of Record for City of Salem

Otak has been providing on-call professional services to City of Salem for 25 years. The current consultant of record purchase orders includes services in the category of General Civil Engineering, Watershed Management, and Stormwater/Floodplains/Modeling.

During the last five years, Otak has assisted the City with the following projects under consultant of record purchase orders:

- C** Pringle Creek Restoration
- A** Ammon Street Detention Pond Retrofit
- A** Mountainview Drive Stormwater Detention Facility
- A** Public Works Design Standards Update
- C** Deerhaven Culvert Evaluation
- C** Mill Creek Trail Feasibility
- A** Salem Land Use Stormwater Checklist
- C** Mill Creek Revetment Monitoring Survey
- A** Development Reviews for Stormwater
- C** Shelton Ditch Erosion Repair
- C** Waller Dam Sediment Removal Analysis
- A C** MCCC Southern Open Space Design and Construction Management

REFERENCE

Allen Dannen

City Engineer

(503) 588-6211 ext. 7380

ADannen@cityofsalem.net



SERVICE CATEGORY KEY

A = STORMWATER

B = WATER RECOVERY

C = SUSTAINABLE WATERSHED MANAGEMENT

5.5 Project Team

Key Personnel

The nature of on-call contracts requires a team with the staff and material resources necessary to respond quickly and efficiently to project needs. These projects, at times, require immediate response related to emergencies such as landslides, flooding, or washouts where public safety is a top priority. By proposing for this work, we are committing our resources will be available with short notice and for long durations.

Otak is committed to completing projects under this on-call contract promptly, and with 198 team members in Oregon & SW Washington and more than 120 additional team members nationwide, we have more than enough capacity to provide the services under this contract within the timelines we may be given for each project.



KEVIN TIMMINS, PE
Principal/Contract Manager

Registrations & Certifications:
Professional Engineer,
WA, #39418; OR, #74834

Availability: 10%

Relevant Projects:

- Pringle Creek Stream Restoration; Salem, OR
- Cedar Crossing Restoration Project; Portland, OR
- Red Rock Creek Subbasin Strategy and Implementation; Tigard, OR
- Wade Creek Park Restoration & Community Improvements; Estacada, OR
- Conveyance Engineering; Washington County, OR



NICK COOK, PHD, PE
Hydraulics Engineer

Registrations & Certifications:
Professional Engineer, WA,
#23022976; OR, #96803; WSDOT

Fish Passage and Stream Restoration (FPSRD) program, #FPT20-42384; WSDOT Scour Certification, #SCR23-04044

Availability: 10%

Relevant Projects:

- Pringle Creek Stream Restoration; Salem, OR
- Columbia Bottomlands Mitigation Banks; Multnomah County, OR
- Upper Kellogg Creek Capital Improvements; Clackamas County, OR
- Kellogg Creek Bridge Replacement; Milwaukie, OR



PHILIP KENYON, PE, CESCL
*Project Manager,
Water Resources Engineer*

Registrations & Certifications:
Professional Engineer, WA,
#24027634; OR, #94499PE, CESCL

Availability: Able to adapt as project needs vary, can dedicate bursts up to 35% availability.

Relevant Projects:

- WES Inlet Replacements; Clackamas County, OR
- WES and Happy Valley Storm System Master Plan; Clackamas County, OR
- Mt. Scott Drainage Study, Clackamas County, OR
- Red Rock Creek Subbasin Strategy and Implementation; Tigard, OR



KARINA NORDAHL, PE
Stormwater Management

Registrations & Certifications:
Professional Engineer,
OR, #75683PS, WA, #56510

Availability: 30%

Relevant Projects:

- Cedar Crossing Stream Restoration; Portland, OR
- WES Storm System Master Plan; Clackamas County, OR
- Butternut Creek Enhancement at Witzig Reservoir; Washington County, OR
- Pringle Creek Demolition & Restoration; Salem, OR



**ROSE HORTON, PE,
LEED AP BD+C, ENV SP**
Water Resources Engineer

Registrations & Certifications:

Professional Engineer, WA,
#21015311; OR, #83955PE; LEED

AP BD+C; Envision Sustainability Professional (ENV SP)

Availability: 30%

Relevant Projects:

- Metro Stormwater Ordinance Review; Portland, OR
- Conveyance Engineering; Washington County, OR
- Public Works Design Standards Stormwater Update; Salem, OR
- Springwater Wetlands Restoration; Portland, OR



JOE BRASCHER
Senior Hydrologist

Availability: 40%

Relevant Projects:

- Hillsboro Stormwater Master Plan; Hillsboro, OR
- WSDOT NW Region GEC for Fish Passage Program; Statewide, WA
- City of Everett On-Call Stormwater Plan Review; Everett, WA
- Drainage Engineering On-Call Services; Snohomish County, WA



CLACKAMAS
WATER
ENVIRONMENT
SERVICES



Organizational Chart

We are pleased to present a team of professionals assembled specifically for the task orders that may arise from this on-call contract. Due to the abundance of experience and skill, the project team has the resources to address questions that may arise during the project. In addition to key personnel team members, our org chart shows additional team resources we can utilize if needed.

Key Personnel Availability & Commitment

On-call contracts demand a team with the resources to respond quickly, especially in emergencies like landslides or flooding. Otak is committed to rapid, long-term availability, ensuring projects are completed on time. With 300+ team members nationwide, we have the capacity to meet all contract needs. *See key personnel bios for key personnel availability.*

Otak Software Capabilities

Surface Water Hydrology and Hydraulic Modeling

We tailor our modeling approach to each project, combining techniques and software for optimal detail and efficiency. Precise hydrologic and hydraulic analyses are essential for designing wet natural resource components.

Our staff has extensive experience in hydraulic modeling, ranging from simple inundation analysis using topographic data and surface analysis, to complex hydraulic interactions using 1-D and 2-D computer models. We understand the hydraulic and hydrologic principles the models are based on and can apply these principles to varied scale and resolutions of projects, while not using a cookie-cutter approach or over- or under-analyzing problems. We regularly utilize GIS-compatible hydraulic modeling software.

We regularly conduct incipient motion analyses, hydraulic performance of structures, field discharge measurements, statistical analysis of flood probabilities and return intervals, synthetic derivation of channel flow, and determination of channel forming discharge using a variety of methods and models catered to each project site.

Otak's licensed hydraulic engineers specialize in hydrologic and hydraulic analyses, staying current with advancing modeling technologies. Count on us for technically sound, project-appropriate investigations.

KEY PERSONNEL:

Kevin Timmins, PE

Local On-Call Contract Manager

Phil Kenyon, PE, CESCL

Project Manager

Nick Cook, PE, PhD

Floodplain/Hydraulics

Karina Nordahl, PE

Stormwater Management

Rose Horton, PE,

LEED AP BD+C, ENV SP

Stormwater Management

Joe Brascher

Hydrologist

ADDITIONAL TEAM RESOURCES:

John Rogers

GIS Specialist

Tracy Emmanuel

Geomorphologist

Ethan Ader

Geomorphologist

Jeff Gray, PWS

Wetland Biologist

Jamie Cornwell

Environmental Permitting

Rod Lundberg, PE

Watershed Restoration

Amy Thatcher, PE

Industrial Stormwater

Trista Kobluskie, PE

Software Planning

& Regulatory Compliance

Roger Tiffany, PE

Stormwater Management

5.6 Approach

Project Approach

UNDERSTANDING & APPROACH TO ON-CALL SERVICES

Otak has significant experience in providing on-call services to government agencies and private industry clients throughout the Pacific Northwest. Otak's successful performance on other on-call contracts for the last 40+ years is based on our ability to provide the communication, responsiveness, and customer service needed. *It is our role and ambition to augment Clackamas County's capabilities — providing services to expand your internal resources or provide a specialty service not currently available within the County's staff.*

We recognize the nature of on-call agreements requires a team to mobilize quickly and efficiently since often time is of the essence. Otak currently has on-call agreements with many public sector clients, so we are familiar with the urgency and unique response needs for these assignments. We move swiftly and have a sound method of maintaining a well-organized approach to this process.



UNDERSTANDING OF ROLES & RESPONSIBILITIES

Otak has 40+ years' experience providing on-call services to government agencies and private industry clients throughout the Pacific Northwest. Our team views the County as both the client and as a vital member of the project team, fostering collaboration at every stage. Once a task order is issued, we will thoroughly gather all relevant information, including insights gained from County staff directly. This engagement allows us to fully understand the project's goals and address any concerns. We are committed to maintaining a strong partnership with the County, approaching every request with responsiveness and a focus on resolving challenges effectively and collaboratively.

Assigning Technical work

We will assign team members to technical assignments based on their expertise, experience, and alignment with the specific needs of the County. By carefully evaluating the requirements of each task, we ensure that the most qualified professionals are matched to the work. Our team's diverse skill set allows us to tackle a wide range of technical challenges efficiently and effectively. Additionally, we maintain flexibility to adapt assignments as project demands evolve, ensuring the County always benefits from the best-suited expertise at the right time.

Quality Assurance/Peer Review

Otak is committed to providing quality design through the implementation of our Quality Management Program that addresses both quality assurance (QA) and quality control (QC) throughout the lifecycle of our task orders. Our process consists of the following:

- **Quality Assurance** | Our QA approach defines the quality control steps for each type of project/task order, outlining how quality control will be carried out.
- **Quality Control** | The purpose of QC reviews is to identify and correct errors that may occur in preparing designs, plans, and specifications.



PROJECT DELIVERABLES

For an on-call project, deliverables ensure timely, efficient responses tailored to the scope and objectives. These may include task schedules, progress reports, technical analyses, design plans, feasibility studies, or stakeholder presentations. Each is developed collaboratively to ensure quality, accuracy, and alignment with client needs. The flexible nature of on-call work allows for rapid adjustments, maintaining focus on delivering value and meeting goals efficiently within agreed timelines. This approach ensures deliverables are both responsive and aligned with the project's overarching objectives.

LOCALLY LOCATED

Otak's Portland office location will provide a landing spot and access to local colleagues and business resources when our Portland-based project managers and technical experts are on site. Our project manager, **Philip Kenyon**, is located in Portland and will serve as a local contact. He will coordinate directly with the County and our team to ensure task orders are assigned to the appropriate disciplines, enabling us to deliver the best possible results to the County.



Otak's WNR team meeting in our Portland office.



RESUMES

Appendix

Kevin Timmins, PE

Vice President/Water Resources Engineer



Kevin has 26 years of engineering experience working with and managing multi-disciplinary design teams for public agency projects in Oregon and Washington. He has spent his entire career working in water resource engineering, hydrology, and hydraulics. His expertise includes hydrologic and hydraulic modeling, watershed analysis, flood reduction, stormwater management, low-impact development, water quality, fish passage culverts, scour analysis, stream and wetland restoration, and large woody debris design. He has a solid understanding of the regulatory and environmental permitting process and is an excellent communicator. Kevin is an active member of the American Public Works Association (APWA), having served for nine years as the Water Resources committee chair for the Oregon APWA Chapter.

EXPERIENCE

26 years

EDUCATION

M.S., Environmental Engineering (Washington State University)

B.S., Environmental Engineering (Tulane University)

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, WA, #39418, 2002

Professional Engineer, OR, #74834, 2004

AFFILIATIONS

American Society of Civil Engineers (ASCE) member

Oregon Chapter American Public Works Association (APWA) member, former Water Resource Committee Chair

TRAINING

XP-SWMM, 2001
HSPF, 2002
HEC6-T, 2003

Selected Project Experience

Upper Kellogg Creek Capital Improvements; Clackamas County, OR

Principal-in-Charge—Otak was selected to complete hydrologic modeling, hydraulic modeling, alternatives analysis, and PS&E development to carry three CIP projects forward to construction. The three project were identified in the Stormwater Master Plan. Otak built an HSPF and XP-SWMM model to develop accurate hydrology for the system, then tested alternatives using hydraulic modeling. Once an alternative was selected, Otak has carried the design to bid and construction is slated to begin in Summer 2025.

Pringle Creek Stream Reconstruction; Salem, OR

Project Manager/Principal-in-Charge—Otak carried forward a project at the 60% design phase at the site of the old Boise Cascade Mill on Pringle Creek in Salem, Oregon. The project included demolition of an overhead slab and supporting columns as well as a holding tank at ground level and a concrete fish ladder. Pringle Creek was historically confined by these structures; Otak designed a new stream channel through this urban reach to restore a more natural stream condition and improve fish passage. We also provided large wood structures for habitat, performed restoration design calculations for bed gradation and channel geometry, and developed construction plans for the site. Construction was completed in 2019.

Cedar Crossing Restoration Project; Portland, OR

Principal-in-Charge—Otak was selected by the City of Portland to prepare design and construction documents and complete modeling for a stream restoration project on Johnson Creek downstream of the Cedar Crossing bridge. The project involved the removal of WPA-era wall, reconnection of the stream to its floodplain, large wood structures, hydraulic modeling, and calculations to support the design, and the submittal of CLOMR documents to FEMA. Construction of the project was completed in 2022.

Red Rock Creek Subbasin Strategy (Clean Water Services) and Implementation; Tigard, OR

Principal-in-Charge—Building on the City of Tigard's Stormwater Master Plan and Red Rock Creek Area Plan, Otak is developing Sub-Basin Strategy and Project Implementation Plans (Plans) for Red Rock Creek in Tigard. The Red Rock Creek Sub-Basin includes the Tigard Triangle, where the City of Tigard is planning for significant redevelopment and significant changes to transportation infrastructure with the potential for Light Rail. The Plans allow the City to address Clean Water Services' hydromodification post-construction requirement using a suite of approaches to convey and manage flows while enhancing stream ecology and preventing further degradation. Otak is working closely with Clean Water Services to ensure

that adequate technical justification is given to support the alternative solutions to the default hydromodification control requirement.

Wade Creek Park Restoration & Community Improvements; Estacada, OR

Project Manager/Principal-in-Charge—Otak led the hydrologic and hydraulic modeling, grading of alternatives, flow control structure design, and geomorphic assessment for the preliminary design phase of this restoration project. The hydrologic analysis evaluated peak flows from the upstream basin under full-built conditions, while the hydraulic model assessed water surface elevations for each alternative. Results from the geomorphic, hydrologic, and hydraulic analyses were compiled in a Technical Memorandum to guide the City's selection of the preferred alternative. The final design will transform Wade Creek Pond into a natural stream, enhance flood control, and provide additional community park amenities.

Conveyance Engineering; Washington County, OR

Principal-in-Charge—The District (Clean Water Services) is actively managing three Local Improvement District (LID) and Reimbursement District (RD) projects to extend the public sanitary sewer system within existing public rights-of-way, providing service to homes currently without access to sanitary sewer infrastructure. The first of the three projects involved approximately 550 LF of sanitary sewer main with a winning bid of \$273,924. The second project is expected to be similar in scope to the first, while the third project will be larger, with design work yet to begin. Otak is responsible for delivering a comprehensive range of services to prepare construction bid documents: including survey; design of sanitary sewer gravity main, restoration work, erosion control, and local permitting. This ensures all aspects of the projects are addressed, facilitating smooth execution and alignment with district objectives.

Clackamas County WES Storm System Master Plan and Implementation; Clackamas County, OR

Principal-in-Charge—Otak is assisting Water Environment Services to prepare a Storm System Master Plan covering the District's service areas and selected planning areas in the urban growth boundary. The plan addressed existing challenges, while also finding solutions to support redevelopment and accommodate new growth. Practical solutions were identified, developed, and prioritized to form the basis of a Capital Improvement Program. The plan includes stormwater infrastructure recommendations to support the community planning process underway for the Pleasant Valley/North Carver subarea in the City of Happy Valley.

Metro-Smith & Bybee Natural Area Water Management Solution; Portland, OR

Principal-in-Charge—Metro manages the water levels in Smith Lake and Bybee Lake for a variety of objectives, including the simulation of spring freshet floodplain functions, control of invasive species, and habitat for migratory waterfowl. A control structure was constructed in 2003 to aid in this management. However, the water levels in Smith Lake were not responsive to changes in the control structure due to sedimentation and partial obstruction in the channel that connects Smith Lake to Bybee Lake. An evaluation of options to manage hydrology in Smith Lake recommended restoring the capacity of the connection channel through excavation. Otak performed 2D hydraulic modeling of the system to compare the benefits derived from different levels of channel excavation.

Butternut Creek; Washington County, OR

Principal-in-Charge—Otak, operating under a Clean Water Services On-Call Task Order, is working on Butternut Creek from SW 198th Avenue to SW 209th Avenue, a single-thread, heavily incised creek with a wide disconnected floodplain dominated with reed canary grass. Centered in the half-mile stream reach is an artificial impoundment that hinders wet weather flows and dry weather water quality. In partnership with Washington County, the District has evaluated the corridor to identify and implement enhancement actions to the streams, wetlands, and riparian corridor of the 29-acre Project area. Water resource planning and design services are essential for successful implementation of the Butternut Creek.

Philip Kenyon PE, CESCL

Water Resources Engineer



Philip Kenyon has 9 years of experience supporting the planning, permitting, design, and construction of new and retrofit stormwater systems and natural systems engineering projects in the Pacific Northwest. He is skilled in the design of urban and rural stormwater systems including hydrology, hydraulic conveyance calculations, water quantity calculations, and inlet capacity calculations. In support of urban systems durability, he has also developed knowledge of maintenance operations, maintenance access, constructability, and erosion control, including RUSLE-2 modeling. Philip has also cultivated skills in support of natural systems restoration projects including AutoCAD Civil3D grading, groundwater monitoring, and soil amendment design. Philip is known for his ability to coordinate with teams and manage tasks to ensure that critical-path design items are addressed first to keep the team moving efficiently and to allow time for the design process to be completed.

EXPERIENCE

9 Years

EDUCATION

MS, Civil & Environmental Engineering (University of Washington)

BS, Civil & Environmental Engineering (Washington State University)

REGISTRATIONS & CERTIFICATIONS

Professional Engineer (Oregon #94499PE and Washington #24027634)

Certified Erosion and Sediment Control Lead (CESCL)

AFFILIATIONS

American Society of Civil Engineers (ASCE)
Portland Younger Members Forum (YMF),
Communications Chair

Sustainable Stormwater Symposium, Planning Committee Secretary
2020-2023

Selected Project Experience

WES Inlet Replacements; Clackamas County, OR

Project Engineer—Otak developed construction plans for a stormwater retrofit project for Water Environment Services. This project included hydrologic and hydraulic analysis of existing roadway and neighborhood development for conveyance and inlet capacity assessments. The project involved the addition or replacement of existing G-1 inlets with CG-2 inlets and connections to the existing storm sewer main. Otak provided construction support and observation to ensure work was completed correctly and utility conflicts were resolved.

WES and Happy Valley Storm System Master Plan; Clackamas County, OR

Water Resources Engineer—Otak is assisting Water Environment Services to prepare a Storm System Master Plan covering the Districts Service Areas and selected planning areas in the urban growth boundary. The plan addresses existing challenges while finding solutions to support redevelopment and accommodate new growth. The Plan includes stormwater infrastructure recommendations to support the Community Planning process currently underway for the Pleasant Valley/North Carver subarea in the City of Happy Valley.

Mt Scott Drainage Study, Clackamas County, OR

Civil Engineer—Phil assisted Water Environment Services (WES) with a detailed analysis of a number of drainage issues located in the Mt Scott Neighborhood of Happy Valley, Oregon. Nuisance flooding is occurring during large storm events that floods roads and homes in the area. Phil helped develop an XP-SWMM model of the area neighborhood including storm pipes, ditches, and catch basins to understand the drainage issues. The model was able to replicate the flooding patterns seen in large storm events.

Red Rock Creek Subbasin Strategy (Clean Water Services) and Implementation; Tigard, OR

Project Engineer—Building on the City of Tigard's Stormwater Master Plan and Red Rock Creek Area Plan, Otak is developing Sub-Basin Strategy and Project Implementation Plans (Plans) for Red Rock Creek in Tigard. The Red Rock Creek Sub-Basin includes the Tigard Triangle, where the City of Tigard is planning for significant redevelopment and significant changes to transportation infrastructure with the potential for Light Rail. The Plans allow the City to address Clean Water Services' hydromodification post-construction requirement using a suite of approaches to convey and manage flows while enhancing stream ecology and preventing further degradation. Otak is working closely with Clean Water Services to ensure

that adequate technical justification is given to support the alternative solutions to the default hydromodification control requirement.

Beaverton Water Quality Retrofit Project; Beaverton, OR

Water Resources Engineer—The City of Beaverton invested in two regional underground public stormwater treatment facilities to help promote redevelopment in areas that are targeted for increased density and pedestrian connectivity according to the Central City Strategy of the Civic Plan, including portions of SW Canyon Road. These regional stormwater treatment facilities are located at the downstream end of two large tributary areas that could see multiple redevelopment projects, allowing the tributary areas to develop without having to provide on-site treatment. Philip provided engineering design support modeling the existing storm system contributing to the proposed water quality vault locations based on field survey and as-built drawing review. Philip also coordinated with utility providers and provided onsite construction engineering during a time-critical stage.

Springwater Wetlands Enhancement; Portland, OR

Water Resources Engineer—Otak assisted the City of Portland in designing several wetlands to be enhanced along the Springwater Corridor. Philip assisted on the project by providing technical AutoCAD support including acting as the primary grading designer of the proposed North and Central Wetlands, the access berms in both, the connections of the berms to 115th, 117th, the Springwater Corridor, 111th/Harold, and Reedway. The proposed grading was also heavily informed by the scale of the project (~30,000 CY of excavation including over excavation) and the requirement to not reduce the amount of any existing wetland types onsite, requiring a high degree of proficiency and precision in the proposed grading operations. In addition to the grading, Philip assisted with quantity takeoffs for permitting and estimating.

5th and Seneca Water Quality Retrofit; Eugene, OR

Project Manager—Otak is supporting the City of Eugene with hydrologic & hydraulic modeling, design detail support, and constructability considerations. This project involves the design of a Contech Continuous Deflective Separator (CDS) unit to provide water quality pretreatment for approximately 300 acres of existing commercial-industrial development. This project requires careful consideration of location due to the size of the structure (12-foot diameter manhole) and the depth to sump (25 feet below ground surface). The structure will be constructed in summer 2024. Phil led the modeling effort and coordination with Contech and supported project management responsibilities.

Columbia Bottomlands; Scappoose, OR

Project Engineer—Otak is currently assisting ODOT and Mason Bruce & Girard on an 88-acre wetland restoration project on the Columbia River. This project will restore wetlands and streams in an area impacted by agricultural activity and creating a wetland mitigation bank. The project has a complex hydrologic regime caused by riverine tributaries like Scappoose Creek and Teal Creek and tidal backwater conditions and flood flows from the Columbia River. Otak is responsible for restoration design, hydrology and hydraulic analysis, and surveying. The project will also provide habitat restoration for endangered salmonids. This site has the potential to support juvenile rearing and adult off-channel refugia for 13 different populations of salmon and steelhead that utilize the Columbia River. The final design must be reviewed and approved by many regulatory agencies including the Oregon Department of State Lands, U.S. Army Corps of Engineers, state and federal fish and wildlife agencies, and local jurisdictions.

OR219: Aldercrest to Quail; Newberg, OR

Water Resources Engineer—The City of Newberg, in partnership with ODOT, selected Otak to design and manage the construction phase of this half-mile long improvement project. Otak staff provided full-time construction management and inspection, and performed all construction administration and documentation, according to ODOT and FHWA standards. The project widened and curbed OR219, constructed 11 bioinfiltration ponds to collect and treat stormwater, installed nearly 3,000 lineal feet of storm pipe, and added new sidewalk and landscaping.

Nicholas Cook PhD, PE

Hydraulics Engineer



Nick, a seasoned water resources engineer brings expertise and a PhD in biological systems engineering, coupled with a master's degree in civil, environmental, and infrastructure engineering. His professional journey has been dedicated to stream restoration, stream ecology, surface water quality, advanced hydrology, and hydraulic modeling of stream environments. Specializing in the assessment of culverts and bridges, stream restoration design, and floodplain extents and dynamics, Nick utilizes AutoCAD Civil3D for construction plan sets and employs the ArcGIS suite for spatial data management and analysis. Proficient in 1D (HEC-RAS) and 2D (HEC-RAS, SRH2D) modeling programs, he supports HSPF modeling, scour analysis, bed gradation sizing, channel geometry analysis, floodplain mapping, and floodplain dynamics assessment. Nick's analytical skills extend to using the R software environment for statistical computing in hydrologic data analysis, showcasing his comprehensive skill set in water resources engineering.

EXPERIENCE

14 years

EDUCATION

PhD, Biological Systems Engineering (Virginia Polytechnic Institute and State University)

MS, Civil and Environmental, and Infrastructure Engineering (George Mason University)

BS, Physics (University of Mississippi)

REGISTRATIONS

Professional Engineer, OR, #96803, 2020

Professional Engineer, WA, #23022976, 2024

WSDOT Fish Passage and Stream Restoration (FPSRD) program (#FPT20-42384)

WSDOT Scour Certification (#SCR23-04044)

Selected Project Experience

Upper Kellogg Creek Capital Improvements; Clackamas County, OR

Lead Hydraulics, Restoration Engineer—Otak was selected to complete hydrologic modeling, hydraulic modeling, alternatives analysis, and PS&E development to carry three CIP projects forward to construction. The three projects were identified in the Stormwater Master Plan. Otak built an HSPF and XP-SWMM model to develop accurate hydrology for the system, then tested alternatives using hydraulic modeling. Once an alternative was selected, Otak has carried the design to bid and construction is slated to begin in Summer 2025. Nick led the hydraulic modeling, restoration design, and contributed to the PS&E development and RFI responses.

Pringle Creek Stream Restoration; Salem, OR

Engineering Designer—Otak carried forward a project at the 60 design phase at the site of the old Boise Cascade Mill on Pringle Creek in Salem, Oregon. The project included demolition of an overhead slab and supporting columns as well as a holding tank at ground level and a concrete fish ladder. Pringle Creek was historically confined by these structures and Otak designed a new stream channel through this urban reach to restore a more natural stream condition, improve fish passage, and provide large wood structures for habitat. Nick performed restoration design calculations for bed gradation, channel geometry, and developed construction plans for the site. Construction was completed in 2019.

Columbia Bottomlands Mitigation Banks; Multnomah County, OR

Hydraulic Engineer—Otak is leading the design for a mitigation bank for the Oregon Department of Transportation (ODOT). ODOT proposes to utilize an 87-acre site as a mitigation/conservation bank to offset environmental impacts to wetlands and streams from future ODOT projects. Otak is completing the topographic survey, conducting a hydraulic study including modeling, conducting an existing conditions geomorphic assessment, and completing engineering design plans, specifications, and cost estimate. Nick led the hydraulic modeling and contributed to restoration design and large wood design for the site.

Kellogg Creek Bridge Replacement; Milwaukie, OR

Engineering Designer—Otak developed construction plans for a replacement bridge on Kellogg Creek for the City of Milwaukie that included demolition of the current bridge and replacement with a larger bridge downstream. In addition to scour analysis and rock sizing calculations, the Otak team analyzed tidal river stage data and flow data from Kellogg Creek to develop bank

stabilization measures including complex large wood structures. Nick performed the initial scour analysis and rock sizing, worked on construction documents, developed large wood structure design, and oversaw large wood structure construction in the field. Construction was completed in the fall of 2018.

Cedar Crossing Stream Restoration Project; Portland, OR

Engineering Design Lead, Lead Hydraulic Engineer—Otak was selected by the City of Portland to prepare design and construction documents and complete modeling for a stream restoration project on Johnson Creek downstream of the Cedar Crossing bridge. The project involved the removal of WPA-era wall, reconnection of the stream to its floodplain, large wood structures, hydraulic modeling, and calculations to support the design, and the submittal of CLOMR/LOMR documents to FEMA. Nick performed all design and technical analysis tasks as well as the 1D and 2D hydraulic modeling in support of the project efforts and the CLOMR/LOMR submittal. Construction of the project was completed in 2022.

Rock Creek Floodplain Enhancement; Portland, OR

Hydrologic and Hydraulic Modeling—Otak prepared design and construction documents for 20 large wood structures (300 pieces) and minor floodplain grading (800 CY) to simulate beaver dam construction on an existing agricultural ditch to reduce velocities, spread flow, and increase the frequency and complexity of inundation on the floodplain. Clean Water Services performed the construction work and restoration of the plant communities in summer 2017. Nick provided 1D and 2D hydraulic modeling of the Rock Creek floodplain on the PCC Rock Creek campus to evaluate and inform the design of the floodplain enhancements. He also developed the design of large wood structures recommended for the site. Construction completed in 2017.

McGilchrist Street SE and 22nd Street SE; Salem, OR

Hydraulic Engineer—Otak worked with the City of Salem to bring 60 designs for over 2,000 feet of linear roadway, an intersection, and a crossing of East Fork Pringle Creek near the Salem Airport. Nick led the hydraulic site investigation, stream design, large woody material design, and performed the bulk of the hydraulic analysis to support FEMA no-rise and ODFW fish passage requirements for the project and support the structure design. Upon determining TS&L for the structure, Nick supported scour and riprap calculations and design, plan set development, and cost estimate and specification finalization. The project is scheduled for 2024 construction.

Hydraulic Modeling for the Springwater Wetlands Project; Portland, OR

Engineering Designer, Hydraulic Modeling—Otak was selected to develop a hydraulic model for the Springwater Wetlands enhancement project. The project restores the Springwater Wetlands complex on public property north of Foster Road to manage flooding by expanding upon a complex of existing wetlands. Nick worked with Gary Wolff in updating the detailed unsteady-state HEC-RAS model originally developed for the Lents Collaborative project to evaluate wetland expansion options for flood storage, changes in flooding extents, changes to downstream flow, and to evaluate impacts to public and private property in the vicinity of the project. The project involved analysis of groundwater data for use in the modeling effort.

Gresham Water Resources Engineering On Call; Gresham, OR

Engineering Designer, Hydraulic Modeling—During the past several years, Otak has provided engineering support for several monitoring efforts, engineering projects, and assessment programs. Nick's contributions included field work for the assessment of stream-infrastructure risk on streams draining the buttes in south Gresham as well as execution of the water level monitoring program on Fairview Creek. The stream-infrastructure analysis included GIS mapping, analysis, and reporting, while the Fairview Creek effort included hydraulic modeling and data analysis. Other supporting efforts have included hydraulic modeling on Burlingame/Kelly Creek at the NE Kane Drive crossing and data management of a bird survey database for the City of Gresham.

Karina Nordahl PE

Senior Project Engineer Water Resources



Karina has led the water resources design on a wide range of projects, including wetland and floodplain restoration, urban stormwater retrofits, culvert/bridge replacements, stream restoration, flood prevention, and stormwater masterplans. Karina's expertise includes conducting hydrologic and hydraulic analysis, bridge/culvert design, fish passage design, floodplain analysis, water quality treatment design, hydromodification/flow control design, and conveyance system design. She has generated and calibrated hydraulic models using HEC-RAS and XP-SWMM. Karina has created designs and details using AutoCAD Civil 3D and MicroStation Inroads software, and delivered all phases of project development, ranging from conceptual design to construction documents. She has a passion for solving problems and working as a team to find creative solutions.

EXPERIENCE

19 Years

EDUCATION

BS, Civil Engineering
(University of Portland)

Associate of Science,
Physics (Clark College)

REGISTRATIONS & CERTIFICATIONS

Professional Engineer (OR
#75683PE and WA
#56510)

AFFILIATIONS

American Society of Civil
Engineers

Selected Project Experience

WES Storm System Master Plan; Clackamas County, OR

Water Resources Engineer—Otak is developed a new stormwater system master plan for Water Environment Services (WES) in Clackamas County. The plan recommended programs and capital improvements to protect infrastructure and property, reduce maintenance, and plan for growth in the Pleasant Valley/North Carver planning area in Happy Valley. Karina led the development of known issues, conducting site visits with the maintenance staff and developing the cost estimates for the toolkit.

Butternut Creek Enhancement at Wit ig Reservoir; Washington County, OR

Water Resources Engineer—Otak, operating under a Clean Water Services On-Call Task Order, is working on Butternut Creek from SW 198th Avenue to SW 209th Avenue, a single-thread, heavily incised creek with a wide disconnected floodplain dominated with reed canary grass. Centered in the half-mile stream reach is an artificial impoundment that hinders wet weather flows and dry weather water quality. In partnership with Washington County for the SW 198th Avenue Improvements Project, the District has evaluated the corridor to identify and implement enhancement actions to the streams, wetlands and riparian corridor of the 29-acre Project area. Water resource planning and design services are essential for successful implementation of the Butternut Creek Enhancement at Witzig Reservoir Project.

Pringle Creek Demolition and Restoration; Salem, OR

Water Resources Engineer—Otak carried forward a project at the 60 design phase at the site of the old Boise Cascade Mill on Pringle Creek in Salem, Oregon. The project included demolition of an overhead slab and supporting columns, a holding tank at ground level and a concrete fish ladder. Pringle Creek was historically confined by these structures Otak designed a new stream channel through this urban reach to restore a more natural stream condition, improve fish passage, and provide large wood structures for habitat. Karina was involved with construction engineering support.

Cedar Crossing Stream Restoration; Portland, OR

Water Resources Engineer—Otak was selected by the City of Portland to prepare design and construction documents and hydraulic model for a stream restoration project on Johnson Creek downstream of the Cedar Crossing bridge. The project involves the removal of WPA-era wall, reconnection of the stream to its floodplain, large wood structures, hydraulic modeling and calculations to support the design, and the submittal of CLOMR documents to FEMA for the project. Karina performed the C of the final construction documents and assisted with construction inspection.

Wade Creek Park Phase III Preliminary and Final Design; City of Estacada, OR

Project Manager and Water Resources Lead—As a sub-consultant to Greenworks, Otak worked with the City of Estacada on a preliminary and final design for Wade Creek Park Phase III. The City had a vision of turning a pond located behind the library into a flowing stream and improving the outfall for maintenance and safety. The preliminary design presented two alternatives to the public. The selected alternative and final design were comprised of a riffle, pool, channel complex with riparian plantings, an amphitheater, community building, and walking trails with a boardwalk and overlook. For the preliminary design, Karina led the hydrologic and hydraulic modeling, grading of the alternatives, design of the outfall structure, fish passage for the new box culvert under the road, and assisted with the geomorphic assessment. In final design, Karina led the technical aspects of the multi-disciplinary team.

Tualatin Moving Forward Stormwater; Tualatin, OR

Water Resources Engineer—The City has proposed a series of transportation improvements throughout Tualatin to improve traffic congestion, neighborhood traffic safety, ADA access, and access to schools and parks and part of the Tualatin Moving Forward Bond Program. The individual projects ranged in size from a few hundred square feet of impervious area to 1.5 acres. Otak provided the permitting approach for meeting CWS hydromodification and water quality treatment standards. The project qualified for a fee-in-leu approach for meeting the hydromodification standards and was determined to be the most cost-effective method. For water quality, a regional water quality facility at the Sandalwood Village Condominiums is proposed. The project will convert an open conveyance ditch has had maintenance issues into a vegetated swale. Karina led the alternatives analysis for the stormwater permitting strategy.

Kellogg Creek Bridge Design Build; Milwaukie, OR

Water Resources Engineer—The project was a 3 million design-build bridge replacement project over Kellogg Creek at Riverfront Park along the Willamette River. This location had unusual hydraulics as it consisted of backwater from the Willamette River under large storm events with potential high flows from Kellogg Creek, causing significant scour. A clear span design solved both the flooding and scour issues and protected the unique fish ladder that existed under the bridge during construction. The south bank below the bridge was enhanced by adding large woody debris for fish habitat along with rock revetment for bank stabilization. Otak services included civil, structural, hydraulics, stormwater, landscaping, and construction management and inspection. Karina provided the stormwater C review for each submittal.

Reed s Crossing East Greenway; Hillsboro, OR

Project Manager/Water Resources Lead—Reeds Crossing is a 420-acre residential development in South Hillsboro that includes a large greenway area that combines stormwater management with passive recreation. Otak was hired to review the hydraulic design of the regional stormwater facilities and develop design recommendations to optimize the available capacity in the system. The stormwater system was a complex system of linked ponds with multiple piped conveyance connections, overflows, and bypasses. Otak eliminated the need for three upstream detention ponds proposed to serve future development by revising the flow control design in the greenway ponds. Karina was responsible for reviewing the original stormwater system design, finding ways the system could be optimized, creating a model of the entire system with the proposed changes in XP-SWMM, getting the changes approved by the City, and writing an amendment to the original Drainage Report.

Bayocean and Miami Foley Road Culvert Replacement; Tillamook County, OR

Deputy Project Manager and Stormwater Lead—Otak was selected by ODOT to assist in emergency repair of three culvert locations in Tillamook County to replace failed culvert locations with new fish-passable structures. Bridges are proposed at all three sites. Karina is leading coordination with the subconsultants, communication with the client, C review, and documentation for ODOT. Karina is also providing stormwater and water quality design at each site to meet FAHP requirements.

Rose Horton PE, LEED AP BD C, ENV SP

Water Resources Engineer



Rose has over 16 years of experience as a water resource engineer. She has participated in design projects ranging from housing and commercial development to utility, roadway, bridge, and stream restoration. She has experience in drainage master planning, hydrologic and hydraulic analyses, low impact BMP design, scour analysis, stream and wetland restoration, and large wood debris design. Rose is skilled in various hydrologic and hydraulic modeling programs and is knowledgeable about preparing construction documents, technical specifications, and technical reports.

EXPERIENCE

16 Years

EDUCATION

MS, Civil Engineering
(Colorado State University)

BS, Civil Engineering
(University of Texas)

REGISTRATIONS & CERTIFICATIONS

Professional Engineer
(Oregon #83955PE and Washington #21015311)

LEED AP BD C

Envision Sustainability
Professional (ENV SP)

AFFILIATIONS

American Society of Civil
Engineers

AWARDS & HONORS

None

Selected Project Experience

Springwater Wetlands Restoration; Portland, Oregon

Water Resources Engineer—Otak assisted the City of Portland in developing the project to reconnect and restore the Johnson Creek floodplain on public property north of Foster Road to manage flooding by expanding upon a complex of existing and historic wetlands. Otak worked iteratively with BES to develop the hydraulic connections to convey flood flows to and from the wetlands and worked with PBOT to design trail connections to connect the neighborhood with the Springwater trail. Rose led the team to develop construction plans and specifications and has provided response to questions during construction.

Conveyance Engineering; Washington County, OR

Project Manager—The District (Clean Water Services) is actively managing three Local Improvement District (LID) and Reimbursement District (RD) projects to extend the public sanitary sewer system within existing public rights-of-way, providing service to homes currently without access to sanitary sewer infrastructure. The first of the three projects involved approximately 550 LF of sanitary sewer main with a winning bid of \$273,924. The second project is expected to be similar in scope to the first, while the third project will be larger, with design work yet to begin. Otak is responsible for delivering a comprehensive range of services to prepare construction bid documents including survey design of sanitary sewer gravity main, restoration work, erosion control, and local permitting. This ensures all aspects of the projects are addressed, facilitating smooth execution and alignment with district objectives.

McGilchrist Street SE Corridor Improvements; Salem, OR

Water Resources Engineer—Otak completed the 60% design for the entire corridor, and construction for phase 1 will begin in the summer of 2023. Phase 1 included realigning approximately 850ft of 22nd St SE, a culvert replacement at the Pringle Creek East Fork crossing, and new roadway construction of approximately 1,050 ft along McGilchrist St SE. Rose provided final design of the stormwater treatment and conveyance system through the Phase 1 and phase 2 project corridor.

Public Works Design Standards Stormwater Update; Salem, OR

Water Resources Engineer—City of Salem engaged Otak to provide professional engineering services for revisions to the Public Works Design Standards (PWDS) related to stormwater analysis and design. The updates are being made in conjunction with the City's NPDES permit renewal process. Rose is part of the team identifying and making updates to the PWDS.

Metro Stormwater Ordinance Review; Portland, OR

Stormwater Designer—Rose was part of the team that reviewed stormwater manuals and wrote the final technical memorandum summarizing codes and requirements and describe reasons for adopting standards. Metro selected Otak to review other local stormwater management agencies' rules and regulations and design standards and prepare a summary of regulations and policies for each jurisdiction on the following topics: flow control, runoff treatment, conveyance, LID practices, approved planting list for stormwater facilities, and monitoring and maintenance.

MCCD Stormwater Engineering On call Task Order: Halsey Floodplain Study; Troutdale, OR

Hydraulic Modeler—Otak was contracted to determine Base Flood Elevations (BFE's) for the North Halsey property in Troutdale. The property was mapped in the Special Flood Hazard Area (SFHA). Rose developed a model of site drainage patterns to determine base flood elevations and was a part of the team that applied to the Federal Emergency Management Agency (FEMA) for a Letter of Map Revision (LOMR).

Skyview Station; Clark County, WA

Water Resources Engineer—Otak provided site design for Skyview Station, an 8.66-acre commercial shopping center development in Clark County. The project included frontage improvements to NE 139th St and a redesign of NE 10th Ave to include a roundabout at the intersection of NE 141st St. Rose was part of the team that provided design of water quality treatment facilities and underground flow control facilities for the private and public improvements.

Scappoose Airport Industrial Subdivision Phases 1 ; Scappoose, OR

Water Resources Engineer—The project follows Otak's 2006 master plan for a 190-acre mixed-use district surrounding the west side of the airport. The multi-phase project includes a roadway connection from the southern boundary with the Crown ellerbach road to the northern end of the airport and provided a park and a well to expand the City's water supply. Rose provided stormwater design for the roadway LIDA facilities and the regional stormwater management facilities to serve the private development parcels.

Alamo Manhattan Greenway and Blocks B 1, B 2; S Waterfront; Portland, OR

Stormwater Engineer—Otak is providing civil engineering, stormwater/bank stabilization design, surveying, and land use planning support for the Alamo Manhattan Blocks project along the Willamette River in the South Waterfront District in Portland. The proposed development consists of four new multistory, mixed-use building, new public roadways and pedestrian accessways, Willamette River Greenway improvements and riverbank stabilization. Rose provided design of stormwater treatment facilities for the private development and public improvements along with analysis of the proposed stormwater system.

Mill Creek Corporate Center (Industrial Park Master Plan); Salem, OR

Water Resources Designer—Rose was part of the team that mapped and monitored ground water data, updated the XP SWMM model with site hydrology and hydraulic data, designed conveyance through berms in wetland cells and flow control structures, and detailed habitat features. Otak led the preparation of the Mill Creek District Plan which includes land use, stormwater management, and infrastructure plans to guide the development of the Oregon Department of Corrections 2,000-acre farm property in southeast Salem. This area was selected to be one of 25 shovel-ready sites as employment centers by the governor and a focused master plan was prepared for approximately 800-acres to be developed through a joint partnership of the State of Oregon and the City of Salem.

oe Brascher

Senior Hydrologist



oe has over 30 years of experience in numerous aspects of hydrologic modeling, stormwater management, and software development. He has experience with HSPF, EPA SWMM, and numerous other hydrologic models. oe continues to be a recognized leader in the application and use of EPA's HSPF model. He has also pioneered the integration of the EPA SWMM and EPA HSPF models. These efforts have produced seamlessly integrated continuous simulation models that incorporate the strengths of both models. oe was also the project manager and chief architect for the Western Washington Hydrology Model (WWHM) project for the Washington State Department of Ecology. This project involved the development of a software design tool that is based on EPA's HSPF continuous simulation model but incorporates the Washington State Department of Ecology standards for development in an extremely user-friendly interface.

EXPERIENCE

31 Years

EDUCATION

BS, Civil Engineering
(Evergreen State College)

MODELING

HEC6
HEC-RAS
XP-SWMM
HSPF
EPA SWMM

Selected Project Experience

Hillsboro Stormwater Master Plan; Hillsboro, OR

Senior Hydrologist—Otak assisted the City of Hillsboro with preparation of a Stormwater Master Plan covering the city limits and selected planning areas in the urban growth boundary. The plan recommends and prioritizes capital improvement projects, discusses system management and maintenance improvements, suggests programs to address routine and systemic needs, and evaluates funding needs and strategies. The plan also focuses on preparing for growth by identifying storm sewer extensions and locating sites for regional stormwater quality and quantity off-site mitigation facilities. Additional services include updating and calibration of the Rock Creek Watershed HSPF model, review of the FEMA 100-year floodplain elevations, hydraulic modeling of the downtown core, and evaluation of impacts related to changes to standards by Clean Water Services.

WSDOT NW Region GEC for Fish Passage Program; Statewide, WA

Senior Hydrologist—Otak, as a key subconsultant, is providing on-call support for WSDOT's fish passage barrier removal program and leading a package of ten culvert projects from preliminary through final design. Located along state highways, work includes preliminary design development through the WSDOT Preliminary Hydraulic Design (PHD) process for culvert replacements in the Snoqualmie and Sammamish River basins. As part of the PHD process, Otak is conducting watershed and site assessments, hydrology and peak flow estimates, hydraulic analysis and design, channel design, floodplain storage, climate resilience, and review fish passage structure types and hydraulic opening widths and lengths.

City of Everett On Call Stormwater Plan Review; Everett, WA

Senior Hydrologist—Work included review of stormwater elements of development applications for commercial and residential projects. Otak represented the Public Works department in pre-application meetings with developers to discuss stormwater standards and design elements. The primary need for assistance was generated when the volume of development applications exceeded the capacity of staff to review in a timely manner. In addition, Otak provided support when unusual or complex projects had elements that the City lacked the technical knowledge to review. These situations included modeling, geotechnical and hydrogeological concerns, and unusual/highly technical types of development that required assistance from licensed civil, structural, and geotechnical engineers. Through this on-call, Otak also conducted site assessments at locations with flooding and drainage issues and developed a bundle of 22 planning level CIPs for incorporation into the City's Surface Water Comprehensive Plan.

Drainage Engineering On Call Services; Snohomish County, WA

Hydrologic and Hydraulic Modeler—Since 2000, Otak has completed over 150 surface water projects through this drainage on-call contract, which has been renewed three times. Task order/project fees typically range from 20,000 to 50,000 per work assignment and include neighborhood flood reduction analysis and preparation of construction documents for drainage improvements. Typical tasks include HSPF modeling, XP-SWMM modeling, HEC-RAS modeling, surveying, alternatives analysis, preparing construction documents, permit assistance, and services during construction. oe directed Otak engineering staff in the development of the existing conditions and proposed conditions PCSWMM hydraulic models. oe led the effort to use the existing conditions model to evaluate problem areas and the proposed alternative models were used to evaluate potential solutions.

Swans Slough Road Culvert Replacement; Snohomish County, WA

Senior Hydrologist—Otak is designing a fish passage structure to replace existing twin 48-inch diameter culverts located near Mile Post 0.04 of Swans Slough Road in unincorporated Snohomish County. The existing culverts are failing and require maintenance due to ongoing beaver activity. The culverts convey Swan Trail Slough under the roadway. A six-foot diameter tidegate and pump system is located to the north where Swan Trail Slough discharges into Ebey Slough and influences water levels at the site. A 44-foot span bridge has been designed at the Swans Slough Road crossing and the road will be raised by approximately two feet to improve safety based on the stopping sight distance of the vertical profile. The bridge design also includes analyses for potential scour from flood flows over nearby dikes during large river flood events from the Snohomish River.

Gilliam Creek Fish Barrier Removal; Tukwila, WA

Senior Hydrologist—Otak is leading this project that will remove fish barriers and restore fish access to Gilliam Creek while improving existing flood protection. It will restore access and shoreline habitat as part of a watershed-wide effort to restore ESA-listed Chinook salmon and will be designed to allow juvenile fish access between the creek and the river, which are tidally influenced. Options will be evaluated for replacing the existing tide gate at a different location and opening the confluence with the Green River with a pedestrian bridge for the Green River Trail. Habitat enhancements will occur both upstream and downstream of the existing culvert. The project will also address recreational, aesthetic, and educational opportunities and constraints associated with the adjacent Green River Trail and trailside park area.

Whipple Creek Planning Study; Clark County, WA

Senior Hydrologist—Otak provided support to complete watershed-scale stormwater planning requirements as identified in Ecology's 2013-2018 Phase I Municipal Stormwater Permit. The County originally submitted a scope of work to Ecology in June 2014 outlining the stormwater planning effort anticipated for the Whipple Creek watershed. Otak assisted the County with hydrology and water-quality modeling portions of that effort in 2015 and 2016. The project progress to date includes hydrology model development, calibration, and reporting water-quality model development, partial calibration, and draft reporting and the initial stages of developing strategies to improve water quantity and quality conditions within the watershed. The efficacy of these strategies will be modeled, and a subset will be integrated into an implementation plan to improve beneficial uses of Whipple Creek and its tributaries. Work on this task includes completing model development and calibration strategy and scenario modeling scenario selection and planning and reporting requirements through the final watershed-scale stormwater plan. oe is assisting with HSPF hydrology and water quality modeling of existing and future conditions.

5th Avenue SE Monte Villa Parkway Drainage Study; Bothell, WA

Senior Hydrologist—oe was the hydrologic and hydraulic modeler for alternatives development to resolve flooding along 35th Avenue SE near Monte Villa Parkway. oe helped develop models for several flooding scenarios, including an anticipated road widening.

otak

PROPOSAL CERTIFICATION FORM

Appendix



PROPOSAL CERTIFICATION

RFP #2025-01

Submitted by: Otak, Inc., an Oregon corporation
(Must be entity's full legal name, and State of Formation)

Each Proposer must read, complete and submit a copy of this Proposal Certification with their Proposal. Failure to do so may result in rejection of the Proposal. By signature on this Proposal Certification, the undersigned certifies that they are authorized to act on behalf of the Proposer and that under penalty of perjury, the undersigned will comply with the following:

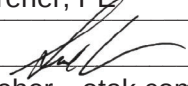
SECTION I. OREGON TAX LAWS: As required in ORS 279B.110(2)(e), the undersigned hereby certifies that, to the best of the undersigned's knowledge, the Proposer is not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means the tax laws of the state or a political subdivision of the state, including ORS 305.620 and ORS chapters 316, 317 and 318. If a contract is executed, this information will be reported to the Internal Revenue Service. Information not matching IRS records could subject Proposer to 24% backup withholding.

SECTION II. NON-DISCRIMINATION: That the Proposer has not and will not discriminate in its employment practices with regard to race, creed, age, religious affiliation, sex, disability, sexual orientation, gender identity, national origin, or any other protected class. Nor has Proposer or will Proposer discriminate against a subcontractor in the awarding of a subcontract because the subcontractor is a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns or an emerging small business that is certified under ORS 200.055.

SECTION III. CONFLICT OF INTEREST: The undersigned hereby certifies that no elected official, officer, agent or employee of Clackamas County is personally interested, directly or indirectly, in any resulting contract from this RFP, or the compensation to be paid under such contract, and that no representation, statements (oral or in writing), of the County, its elected officials, officers, agents, or employees had induced Proposer to submit this Proposal. In addition, the undersigned hereby certifies that this proposal is made without connection with any person, firm, or corporation submitting a proposal for the same material, and is in all respects fair and without collusion or fraud.

SECTION IV. COMPLIANCE WITH SOLICITATION: The undersigned further agrees and certifies that they:

1. Have read, understand and agree to be bound by and comply with all requirements, instructions, specifications, terms and conditions of the RFP (including any attachments); and
2. Are an authorized representative of the Proposer, that the information provided is true and accurate, and that providing incorrect or incomplete information may be cause for rejection of the Proposal or contract termination; and
3. Will furnish the designated item(s) and/or service(s) in accordance with the RFP and Proposal; and
4. Will use recyclable products to the maximum extent economically feasible in the performance of the contract work set forth in this RFP.

Name: <u>Scott Dreher, PE</u>	Date: <u>2/20/2025</u>
Signature: <u></u>	Title: <u>Chief Operating Officer</u>
Email: <u>scott.dreher otak.com</u>	Telephone: <u>(503) 415-2445</u>
Oregon Business Registry Number: <u>153321-17</u>	OR CCB # (if applicable): _____

Business Designation (check one):

☒ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Non-Profit ☐ Limited Liability Company

☒ Resident Quoter, as defined in ORS 279A.120

☐ Non-Resident Quote. Resident State: _____