

Notice of Section 401 Application Reception

File Number: 302024-14

Project Name: The Lake Forest Woods Sewer Improvements

Received: 7/25/2024

Date Posted: 8/06/2024

End of 21 Day Public Comment Period: 8/27/2024

Project City: Irvine

Project County: Orange

Applicant Organization: Irvine Ranch Water District

Applicant Name: Kevin Burton

Waterboard Staff: TBA

Brief Description of Project:

Project Description: The purpose of the project is to reduce risk to infrastructure caused by scour by relocating the existing sewer facilities in the creek to areas outside the scour zone where feasible, using stream bed improvements such as new grade control structures with the intention to potentially reduce stream erosion and scour at IRWD facilities and adding concrete encasement to protect new or existing sewer facilities that cannot be relocated outside the scour zone. The proposed project would also include access improvements for ongoing maintenance of the sewer facilities.

Project Activities: As described above, new pipelines would be installed via open trench construction or trenchless methods, either horizontal directional drilling or pipe jacking, as described further below. Trenching. Some of the pipeline replacement would use open cut construction methods. Trench depths would range between 4 and 19 feet with trench widths between 2 and 4 feet wide. Trenchless Methods. Pilot Tube Guided Auger Boring (PTGAB) would be used in areas where trenching would need to be avoided due to steep terrain and/or proximity to adjacent residences. These methods require excavation of entry and exit pits at the beginning and end of pipeline installation (usually at manhole locations) to accommodate the equipment and personnel. For this project, excavation pits would be at both ends of the trenchless segments. Trenchless jacking shafts would be approximately 10-feet by 26-feet (260 square feet) in size and vary in depth between 13 and 24 feet. Trenchless receiving shafts would be approximately 8-feet by 12-feet (96square feet) in size and vary in depth between 15 and 24 feet. Access for construction and staging would be via existing IRWD access roads off Toledo Way, Fallen Leaf Road, and Glenwood Drive. Construction equipment and materials would be staged within IRWD's existing 20- to 25-foot-wide easements. Staging would not take place within the creek channel. During project construction, the

contractor would employ the use of some heavy construction machinery, likely including excavator and/or backhoe, bobtail or larger trucks to off-haul spoils, dump trucks, pick-up trucks, and a crane and air compressor/generator. For trenchless construction, anticipated equipment for the proposed Project would consist of tracked excavators and/or backhoes, soil compactors, 0.5-ton and 0.75-ton trucks, truck-mounted crane, guided boring power pack (diesel engine or electric motor, pumps, and compressor). Refueling such equipment would be limited to designated areas in compliance with best management practices (BMP). In addition, the project contractor would provide containment under the construction vehicles to prevent leaks while vehicles are not being used. Construction of the proposed Project would require demolition and removal of approximately 110 tons of existing asphalt and concrete pavement. Additionally, project construction would require 2,629 cubic yards of imported soil and 1,654 cubic yards of soil export, for a total net import of 975 cubic yards of soil. Project construction is anticipated to start in October 2024 and would be completed by January 2026 (approximately 15 months). Construction activities would typically take place from 8:00 a.m. to 4:00 p.m., Monday through Friday. It is anticipated that project construction would require an approximately 10-person crew on site daily.