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San Diego Regional Water Quality Control Board

September 30, 2015

Ms. Kirsten Plonka  
District Engineer  
Carlsbad Municipal Water District  
5590 El Camino Real  
Carlsbad, CA 92008

**In reply refer to:**  
**401752: oosibodu**

**Subject: Notice of Applicability for Order WQ 2014-0090-DWQ, General Waste Discharge Requirements for Recycled Water Use: Recycled Water Fill Stations**

Ms. Plonka:

This Notice of Applicability (NOA) enrolls the use and transport of recycled water from Carlsbad Municipal Water District's (District) recycled water fill stations in Order No. WQ 2014-0090-DWQ, *General Waste Discharge Requirements for Recycled Water Use (General Order)*<sup>1</sup>. A copy of the General Order is enclosed with this letter. The District plans to operate a residential recycled water fill station, and may install and operate additional residential or commercial fill stations in the future. The recycled water fill stations will receive recycled water from the Carlsbad Water Recycling Facility (Carlsbad WRF). Recycled water transported from the fill stations may be used within San Diego County for the following purposes:

- Street sweeping and cleaning of sidewalks and outdoor work areas
- Dust control, soil compaction, and construction
- Sewer flushing and pressure testing of newly constructed tertiary recycled water pipelines, sewer force main pipelines, and gas pipelines
- Irrigation of commercial and residential landscapes, crops, and nursery stock
- Fire protection

The District submitted an Engineering Report and an abbreviated Notice of Intent (NOI), dated August 24, 2015, to enroll in the General Order. An abbreviated NOI is sufficient for enrollment in the General Order as other uses of recycled water produced from the Carlsbad WRF are regulated under Order No. 2001-352, *Master Reclamation Permit with Waste Discharge Requirements for Carlsbad Municipal Water District, Carlsbad*

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<sup>1</sup> A copy of the General Order is available online at:

[http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2014/wqo2014\\_0090\\_dwq\\_revised.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0090_dwq_revised.pdf)

*Water Recycling Facility, San Diego County.* In addition, the Engineering Report has been approved by the State Water Board Division of Drinking Water (DDW).

The NOA includes minimum requirements that the District must include in its Rules and Regulations for Recycled Water Use to ensure use and transport of recycled water from the fill stations will be protective of public health and the environment. The NOA also requires the District to submit an Annual Report to the San Diego Water Board by **February 1<sup>st</sup> each year.**

## **RULES AND REGULATION FOR USE AND TRANSPORT OF RECYCLED WATER FROM FILL STATIONS**

The District must submit updated Draft Rules and Regulations for Recycled Water Use to the San Diego Water Board, DDW, and County of San Diego Department of Environmental Health (County DEH) by **December 2, 2015** and updated Final Rules and Regulations for Recycled Water Use by **April 1, 2016**. In addition, the District must submit its draft program for training customers and haulers on proper handling of recycled water to the DDW and County DEH by **December 2, 2015**. The final training program must be submitted to the DDW and County DEH by **April 1, 2016**.

The District's updated Rules and Regulations for Recycled Water Use must include requirements that will be implemented to ensure the use and transport of recycled water from the fill stations is protective of public health and the environment. At a minimum the Rules and Regulations must include the requirements below.

The District or hauler must comply with the following requirements in sections A-C below, unless the DDW or County DEH determine that alternative criteria provide equivalent or better protection of public health and the environment:

### **A. General Requirements for Hauling or Transportation of Recycled Water**

1. Haulers interested in participating in this program must apply for a Recycled Water Use Permit issued by the District.
2. Use areas receiving hauled recycled water must follow the same requirements of titles 17 and 22, California Code of Regulations (Cal Code Regs.) as a similar use area receiving traditionally piped recycled water. These requirements must be addressed in the District's permitting process.
3. Before trucks or containers can be filled for the first time, all haulers are required to attend a brief on-site orientation or training in order to learn about using the filling station and the proper handling and safe use of recycled water. Annual refresher training should be required. The District must maintain records which document when each hauler completed the required training.

4. Once the hauler completes the on-site orientation or training and a Recycled Water Program inspector verifies the tanker truck or containers meet the recycled water use requirements, the inspector will issue a signed Recycled Water Use Permit. The Recycled Water Use Permit must be available for inspection at all times. The hauler must carry a copy in the vehicle at all times while hauling recycled water.
5. Recycled water must not be introduced into any potable water piping system and no connection shall be made between the tank and any part of a potable water system.
6. If the hauler requests to supply recycled water to a use area that uses any plumbed potable or recycled water distribution systems, the District must ensure that the end use complies with all applicable requirements of titles 17 and 22, Cal Code Regs., including cross connection control testing and backflow prevention device installation prior to allowing pick up of recycled water. Dual plumbed use areas can only receive recycled water from a recycled water agency that has been granted approval under title 22, Cal Code Regs., section 60313(a).
7. The hauler must keep a log book for each vehicle, tank, or container used to transport recycled water. The log book must be available for inspection at all times. The hauler must carry a copy in the vehicle at all times while hauling recycled water. The log book should include:
  - a. Date of delivery and use,
  - b. Volume of water delivered and used,
  - c. Intended use of water, and
  - d. Name and address of the recipient/customer.
8. The hauler or Recycled Water Site Supervisor must notify workers and the public when recycled water is used at a use site and inform workers and the public not to drink recycled water or use it for food preparation.
9. Precautions should be taken to avoid food coming in contact with recycled water while the use site is wet.
10. The hauler shall take adequate measures to prevent overspray, ponding, or run off of recycled water from the authorized recycled water use area.
11. No irrigation or impoundment of recycled water is allowed within a minimum of 50 feet of any domestic drinking water well.
12. No connection shall be made between a tank or container of recycled water and any part of a potable water system.

13. The Recycled Water Use Permit issued by the District must be available for inspection at all times.
14. Recycled water shall not be applied where it could spray on external drinking water fountains, passing vehicles, buildings, or areas where food is handled or eaten.
15. Tank trucks, containers, and appurtenances must be clearly identified as "non-potable," equipped with a legally sized air gap, and must not be used to provide potable water. Containers and hoses associated with hauling recycled water must not be used for potable water. Commercial hauling trucks that may be filled with potable water for non-potable uses must have two separate filling systems, one dedicated to potable water and one dedicated to recycled water. When the truck is filled from a potable water source, there must be a water agency or municipality provided meter and backflow device between the truck fill line and the potable source.
16. Vehicles, tanks, and containers must have water-tight valves and fittings, must not leak or spill contents during transport, and must be cleaned of contaminants. This must be checked by the hauler before each use. Water-containing vessels that are open to the atmosphere during hauling are not acceptable for use.
17. Haulers should not overfill containers or trucks.
18. Hoses used for the application of recycled water shall be removable and shall be stored in a disconnected condition during transport. Hoses should be inspected prior to filling to ensure that they are in serviceable condition and free from leaks.
19. In the event of an emergency concerning the recycled water hydrant, meter, fill pipe or hose (spillage, leaks, etc.), the hauler should call the emergency contact number listed on the filling station sign for further instructions.
20. The District may conduct use area visits to ensure proper use of recycled water according to all applicable requirements of titles 17 and 22, Cal Code of Regs., and Recycled Water Use Permit conditions. This may include follow up phone calls or surveys of end users about completion of the hauling process and recycled water application:
21. Conditions under which haulers may lose their permits should be clearly communicated by the District. Those conditions should specify that failure to follow program requirements, including adhering to applicable State, County or local codes, will result in suspension of the hauler's permit. Violations of such codes may also result in agencies levying fines and applicable administrative fees.
22. Residential hauling programs shall have fill stations staffed at all times by a representative from the District. This is to ensure proper handling and filling procedures are being conducted at the fill stations.

23. Residential hauling programs must limit onetime hauls to 300 gallons.
24. The permitted hauler shall notify the District prior to using recycled water for a use not approved by the District.
25. The District, San Diego Water Board, DDW, and County DEH have the right to enter any recycled water use site during reasonable hours to ensure the user is complying with these requirements and the District's Rules and Regulations for Recycled Water Use.

**B. Rules and Regulations for Hauling or Transportation of Recycled Water From Commercial Vehicle Fill Stations**

1. Trucks hauling recycled water that may also be filled with potable supplies for non-potable purposes shall have a dedicated potable use fill line through an air gap separation. The fill lines shall be properly labeled as potable or recycled water. As an alternative, the water supplier may install a reduced pressure principle backflow device on the potable system for filling trucks with potable water. Vehicles used to transport recycled water shall not be used to carry water for potable purposes.
2. The risers, hoses, and fittings for each supply shall be color coded or painted blue for potable and purple for recycled water.
3. The hoses, hydrants, and risers for each supply shall have separate and unique fittings (e.g., 2-1/2 inch diameter on the potable system and 2 inch diameter on the recycled water system) such that the potable system cannot accidentally be used on the recycled system and vice versa.
4. All vehicles used in transporting recycled water must be clearly marked with typical signage that reads: "CAUTION: RECYCLED WATER - DO NOT DRINK" in English and Spanish. The District shall conduct annual inspections of the trucks to ensure that all requirements in this Order are being met and that recycled water is being used in compliance with the requirements of this Order.
5. Vehicles used for transportation or distribution of recycled water, or for street sweeping must be equipped with an air gap to ensure backflow protection.
6. The use of recycled water for street sweeping or construction shall comply with the appropriate local storm water ordinance. Typical compliance measures include preventing overspray, ponding, or runoff of recycled water from the use area.
7. Haulers shall be required to enter the date and amount collected on the fill station log sheet during each visit. Include locations the recycled water will be used and approximate amounts.

8. For Hydrant Meter Filling Stations, ensure the meter is shut off before disconnecting the fill line and make sure no water is leaking from the meter or hydrant.
9. For Gate Access Filling Stations ensure no water is leaking from the fill pipe or hose and securely re-lock the gate after leaving the filling station.
10. A truck or tank that has contained material from a septic tank or cesspool shall not be used to distribute recycled water.

### **C. Rules and Regulations for Use of Recycled Water for Fire Fighting**

1. Unused recycled water must not be released into streams, rivers, or waterways.
2. Fire hydrants supplied with recycled water must be clearly identified by purple paints, signs, tags, stencils or other such labeling, in order to notify firefighters that the fire hydrants are supplied with recycled water.
3. Fire truck tanks must be disinfected following the use of recycled water for firefighting, since fire trucks could be used to distribute drinking water during civil emergencies.
4. Firefighting personnel must be adequately trained in safe use of recycled water. New and current firefighting personnel must receive periodic refresher courses regarding proper handling and use of recycled water.

### **MONITORING AND REPORTING REQUIREMENTS**

Pursuant to Attachment B (Monitoring and Reporting Program) of the General Order, the District must submit an Annual Report to the San Diego Water Board by **February 1<sup>st</sup> each year.**<sup>2</sup>

The Annual Report must include the following:

1. A list of all approved residential and commercial recycled water haulers. The District's annual list must also indicate any new recycled water haulers that were approved during the calendar year.
2. A list of users receiving or proposing to receive recycled water from the fill stations (including a list of uses of recycled water for each user).
3. A list of recycled water end use sites outside the District's recycled water service area.

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<sup>2</sup> Beginning on February 1, 2016.

4. A summary of the volume of recycled water used (in acre feet) from the fill stations each quarter during the calendar year.
5. A summary table listing all inspections conducted of recycled water use sites which received recycled water from the fill stations during the calendar year, and enforcement and corrective actions initiated by the District during the calendar year. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and General Order. Copies of any enforcement actions taken by the District shall be provided to the DDW, San Diego Water Board, and County DEH.
6. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.
7. Results of priority pollutant monitoring from a sample of the final effluent from the Carlsbad WRF pursuant to Attachment B (Monitoring and Reporting Program) of the General Order. The final effluent from the Carlsbad WRF shall be analyzed annually for priority pollutants.
8. The name and contact information for the recycled water operator or District staff member responsible for overseeing operation, maintenance, and system monitoring of the fill stations.

The Annual Report must be submitted in text searchable PDF format to the San Diego Water Board via email. The email submittals must include a signed transmittal letter (with the facility name, facility contact information, and reference code), and, unless directed otherwise by the Executive Officer, be sent via email to [sandiego@waterboards.ca.gov](mailto:sandiego@waterboards.ca.gov).

The transmittal letter shall summarize the numbers and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the District's duly authorized representative pursuant to Section B.1 of Attachment C (Standard Provisions and Reporting Requirements) of the General Order:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

In the subject line of any response, please include reference **401752: oosibodu**. Please contact Mr. Fisayo Osibodu at 619-521-8036, or at [Olufisayo.Osibodu@waterboards.ca.gov](mailto:Olufisayo.Osibodu@waterboards.ca.gov) if you have any questions or comments.

Respectfully,



David W. Gibson  
Executive Officer

DWG: jgs: jac:jro:oo

Enclosure: Order WQ 2014-0090-DWQ, *General Waste Discharge Requirements for Recycled Water Use*

cc via email w/o enclosure: Toby Roy; San Diego County Water Authority; [troy@sdcwa.org](mailto:troy@sdcwa.org)

Sean Sterchi; State Water Board Division of Drinking Water;  
[Sean.Sterchi@waterboards.ca.gov](mailto:Sean.Sterchi@waterboards.ca.gov)

Glen Leeks; County of San Diego Department of Environmental Health, Land and Water Quality Division;  
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Tech Staff Info & Use	
Reg. Measure ID	401752
Place ID	213270