## Sonja Loyd

**From:** Gardner-Leblanc, Cynthia <cgleblanc@loopllc.com>
**Sent:** Wednesday, May 21, 2014 11:36 AM
**To:** Sonja Loyd
**Cc:** Gardner-Leblanc, Cynthia; 'Doug LaBar' (doug.labar@c-ka.com)
**Subject:** RE: LOOP LLC, Deepwater Port Complex (PER20130001, LA0049492, AI 4634)

Sonja,

Please see the information below. I will forward a drawing under a separate email.

Please let me know if you need anything else.

Cindy

*Cynthia A. Gardner-LeBlanc*
*Senior Regulatory Representative*
*LOOP LLC*
*(985) 276-6299*
*Fax (985) 276--6290*
*cgleblanc@loopllc.com*

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**From:** Sonja Loyd [mailto:Sonja.Loyd@LA.GOV]
**Sent:** Wednesday, May 14, 2014 12:29 PM
**To:** Gardner-Leblanc, Cynthia
**Cc:** 'Doug LaBar'
**Subject:** LOOP LLC, Deepwater Port Complex (PER20130001, LA0049492, AI 4634)

Hello Cindy,

I'm in need of the following information for the Outfall 004 diffuser:

1. Maximum flow rate in bbl/day
   225,000 to 250,000 barrels per day
2. Density of the brine
   1.2 specific gravity
3. The depth of the diffuser at the discharge point
   The diffuser is approximately 40 to 50 feet below the surface of water on the Gulf of Mexico floor.
4. Diffuser parameters and description
   a. Diffuser length
      Approximately 515 feet
   b. Port height
      The ports on the diffuser are 4-inch pipes that extend 3 to 4 inches above the top of the 30-inch diffuser pipe.
   c. Port diameter
      4-inches
   d. Total # of ports
      26
   e. # of risers if any



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None

5. A description of the configuration and orientation of ports/nozzles (include any technical drawings of the diffuser array).

The diffuser is a 30-inch, straight pipe that branches off of the end of the 30-inch brine disposal line. The ports are evenly spaced in straight line on the top of the diffuser pipe. The ports extend up 3 to 4 inches above the top of the pipe. The diffuser is located on the sea floor.

Take care,
Sonja