# Region 10 Briefing Paper for the Office of the Regional Administrator

**MEETING/EVENT TITLE:** Lower Umatilla Basin Nitrates and GWMA
**MEETING DATE:** 3/17/2020 2:00 PM
**LOCATION:** 21-Tahoma
**PREPARED BY:** Anthony Barber, Mat Martinson
**DATE:** 3/4/2019
**ATTENDEES:** Chris Hladick, Michelle Pirzadeh, Ed Kowalski, Dan Opalski, Lucy Edmondson, Anthony Barber, Mat Martinson, Jeff Kenknight, Peter Contreras, Nick Peak, Cara Steiner-Riley
**EXTERNAL PARTICIPANTS:** None

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## I. REQUESTING OFFICE

ECAD, WD, OOO

## II. TIMING

EPA received the petition on January 16, 2020, with initial response from RA on January 19th. We completed initial review February 26th. We plan to meet with State of Oregon officials from ODA, ODEQ, and OHA on March 18, 2020. There is no legal procedural requirement or timeline to provide a written response to the petition.

## III. PURPOSE (Informational)

To provide an update on activities and outline next steps for evaluation of the information in the petition.

## IV. BACKGROUND/HISTORY

Region 10 ECAD, WD and ORC are evaluating a petition from Food & Water Watch and 8 other organizations asking EPA to use authorities under SDWA §1431 to respond to nitrate exceedance of drinking water standards in the Lower Umatilla Basin Groundwater Management Area in north central Oregon. While National Primary Drinking Water Standards under the SDWA are not directly enforceable on individual private wells, 10 ppm for nitrate is widely recognized as an acute human health threshold, above which drinking water may be unsafe, especially for infants. A sampling effort between November 2015 and April 2016 showed that about 48% of 255 wells sampled in the LUBGWMA exceeded 10 mg/L nitrate and 60% exceeded the 7 mg/L GWMA trigger level.

The petition identifies CAFOs as a concern and provides over 1500 pages of information to support their request, much of which is publicly available from the GWMA's efforts. The petitioners requested that EPA institute a moratorium on new CAFOs in the GWMA, and requests additional investigation, monitoring, enforcement, and provision of alternative drinking water. Region 10 is coordinating with OECA & OGC and making initial inquiries of state agency contacts for the GWMA at ODA, ODEQ and OHA as we evaluate the information submitted.

## V. KEY ISSUES

Key human health considerations that inform this briefing:

- Nitrate is an acute contaminant, meaning it can cause serious harm in hours or days at concentrations exceeding the 10 mg/L nitrate-N drinking water standard.

- The nitrate MCL is set to protect infants from methemoglobinemia, commonly known as blue baby syndrome, a condition in which oxygen is displaced in the blood. Infants are the most sensitive population because their digestive systems are underdeveloped. Methemoglobinemia if untreated can result in death.

Region 10 staff, in consultation with OECA & OGC, have conducted an initial analysis of the information in the petition to assess whether there is an imminent and substantial endangerment and if so whether state and local authorities have acted to address it. OECA/ OGC stressed that ensuring notice to people potentially affected by residential wells is the top priority.

To date, the EPA team has focused the inquiry and evaluation of information on the following human-health related outcomes as a result of the process of engaging the States:

Ex. 5 DP / Ex. 7(A)

**VI. ANTICIPATED STAKEHOLDER REACTION/INVOLVEMENT**

A spectrum of stakeholders exists for this situation. Petitioners focused, in part, on CAFOs – especially the former Lost Valley Dairy. Local animal and cropland agricultural interests are also heavily vested in the issue. The Port of Morrow has extensive land holdings and an interest in expanding industrial opportunities in the area, which could run counter to reducing nitrate inputs. State agencies involved include ODA, ODEQ, and OHA, and it remains to be seen what their various reactions may be, but all have indicated appreciation for EPA's primary focus to be on determining safety of drinking water.

**VII. ROLL-OUT / COMMUNICATIONS PLAN**

EPA Region 10 has had initial conversations with managers and staff with the ODA, ODEQ, and OHA to gather facts. EPA Region 10 is scheduled to meet with these three agencies on March 18th. The team participating is developing talking points and questions (see attached) to ensure that the message is on-point and achieves the intended outcomes. Following the completion of the discussions and inquiries, EPA Region 10 will reassess next steps for external communications.

Incidental to the petition, EPA has been invited to the April 2nd GWMA meeting to present on technical aspects of our work on nitrates in the Yakima Valley. Eric Winiecki is tentatively planning to attend for this purpose.

**VIII. NEXT STEPS / UPCOMING DEADLINES**

The next steps involve having management-level meeting with ODA, OHA, and ODEQ to (1) convey EPA's

Ex. 5 DP / Ex. 7(A)