



South Coast
AQMD

Proposed Amended Rule 1148.2 Requirements for Oil and Gas Wells



Public Consultation Meeting #2
December 21, 2022 – 1:00 PM

Join Zoom Webinar Meeting - from PC or Laptop

<https://scaqmd.zoom.us/j/93588296076>

Zoom Webinar ID: 935 8829 6076 (applies to all)

Teleconference Dial In +1 669 900 6833

One tap mobile +16699006833,,93588296076#

Agenda

- 
- Summary of Public Consultation Meeting
 - Additional Community Concerns
 - Proposed Amended Rule Language Update
 - Next Steps



Summary of Public Consultation Meeting

12/21/2022

3

Summary of Public Consultation Meeting

- In response to further actions requested during rule development:
 - Increased notification time from “no less than 48 hours” to “no less than 72 hours” prior to start of well-related operations
 - Reduced notification extensions to delay project from five to three
 - Adding additional CAS number integration into the notification system to reduce input errors
- Notification portal will be enhanced to generate annual report

R1148.2 (d) Notification

User Information

EForm Status	Date Stored	Time Stored
COMPLETED	03/16/2022	3:19:29

Notification Type

Notification Type *
EXTENSION

Has this Previous Event ID Been superseded?
N

Previous Event ID for Cancellation, Revision Date or Other
7034

Operator Information

Event ID
7038

Facility ID *
156613

Facility Name *
CALIFORNIA RESOURCES LONG BEACH, INC

Operator Name *
CALIFORNIA RESOURCES LONG BEACH INC

Extension Information

New extended date and time for well activity to begin	Number of previously requested extensions requested under the original notification
03/09/2022 11:59:00 PM	1

Well Information

Well Name /ID * S117	API Well Number * 04-037-03947
Well Type * OIL	Well Geographical Coordinates (NAD 83 Format)
County * LOS ANGELES	Well Latitude * 33.770756
Zip Code * 90802	Well Longitude * -118.206333
City LONG BEACH	Start Date and Time 03/10/2022 12:00:00 AM

Description of Well Activities

Select all that apply. If conducting a series of, or any combination of well production stimulation or treatment activities, identify all types of well production stimulation or treatment activity conducted.

Please click the Add button to the right to enter Well Activities

Well Activity
WELL REWORK

- Acidizing*
- Hydraulic Fracturing
- Gravel Packing
- Maintenance Acidizing
- Matrix Acidizing
- Acid Fracturing
- Other (Please List)

* Prior to April 2014, notifications did not distinguish between matrix and maintenance acidizing, and are reported as acidizing.

Nearest Sensitive Receptor Located within 1,500 feet of well

Well Has Sensitive Receptor

Receptor Type	Receptor Facility Name
SCHOOL (K-12)	CESAR CHAVEZ SCHOOL

Address
730 W 3RD ST

City
LONG BEACH

Zip Code
90802

Receptor Distance to Well in feet
1426

Certification Statement

Pursuant to SCAQMD Rule 1148.2(d), this form shall be submitted to the District no more than 10 days and no less than 24 hours prior to the start of well drilling, well completion, or well rework. If the start date(s) of subject activities is modified, the owner or operator shall notify the District at least 24 hours prior to the new start date if modified to occur earlier than the original start date, or within 24 hours prior to the original start date if modified to occur after the original start date, or if the original start date is cancelled. By clicking the checkbox below, I certify that I am the duly-authorized person to submit this form. I hereby attest, to the best of my knowledge, that the information contained herein is true, accurate and complete. With regard to information that I do not have personal knowledge of, I hereby attest that I have accurately entered the information contained herein from authorized personnel who represented that the information is true, accurate and complete.

I Agree to the above Certification Statement *

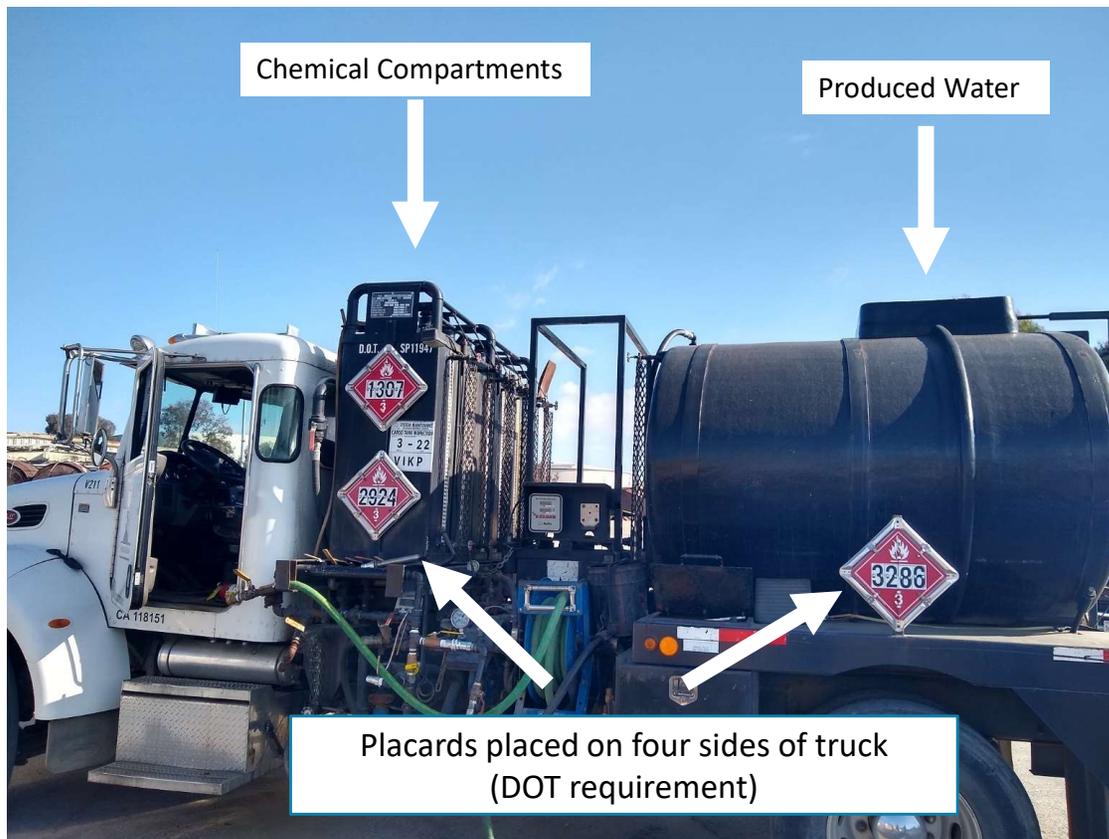
An aerial photograph showing an oil field with several pumpjacks (oil pumps) and a residential area with houses and trees. The image is slightly faded to allow text to be overlaid.

Additional Community Concerns After Public Consultation Meeting

Additional Community Concerns

Issue	Response
<p>Concern that acidification jobs are occurring without proper notification</p> <ul style="list-style-type: none">• Trucks observed onsite by community stakeholders	<p>Staff conducted multiple site visits at different oil and gas facilities to assess and evaluate issue</p> <ul style="list-style-type: none">• Chemical treatment is occurring <i>(further details in later slides)</i>
<p>Written notifications must be provided to nearest sensitive receptors prior to start of acid jobs</p>	<p>Staff proposing additional requirement for written notifications be provided to the nearest sensitive receptors</p>

Corrosion Inhibitor Use and Treater Trucks



- Standard required practice is to periodically apply chemical treatment to well casing to ensure stability
- Variety of chemical types are injected into the well casing to address corrosion, scaling, waxing, etc. by third party
- Chemicals transported on “treater trucks” in compartments (approximately 50-gallon capacity per compartment, 5-6 compartments total)
- Trucks also hold produced water in the larger tank (approximately 1,600-gallon capacity) that is used to help push the chemicals down the well

Chemical Injection Process

- At one site, staff observed injection of corrosion inhibitor in one well
 - Quantity typically is one to five gallons
 - Conducted in a closed loop system with hoses as shown
 - Frequency varies (weekly, biweekly, monthly) depending on condition of well casing
 - No odors detected while standing within 10 feet of well



Injection Process Inside Well Cellar

- For wells located inside a well cellar, treater trucks are parked in one location with multiple wells serviced one after another
- Activity can take up to 2 hours (depending on number of wells) instead of 15-20 minutes it would take to service one above ground well



Note: Red circle at bottom right indicates connected hose for corrosion inhibitor treatment

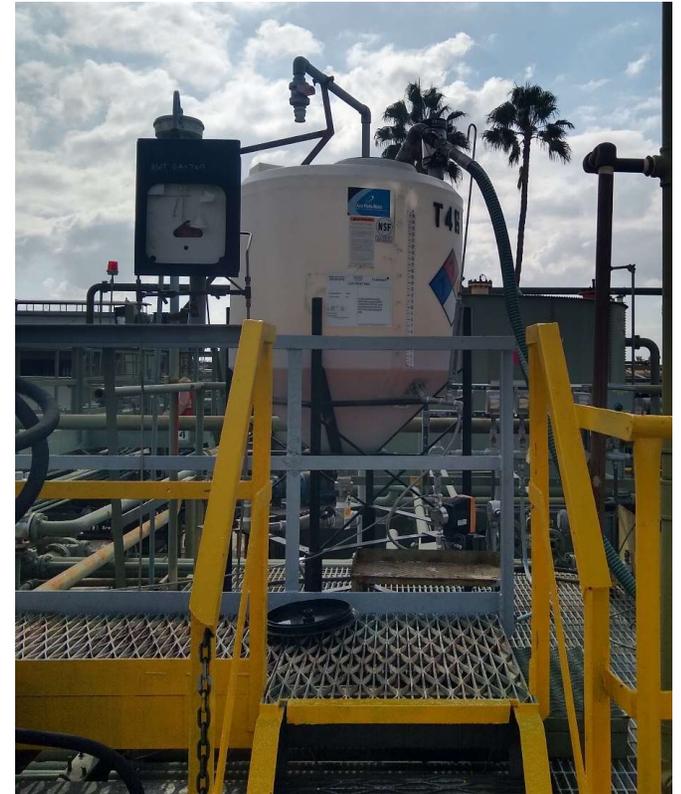
On-Site Corrosion Inhibitor Use



- Staff observed on-site totes that contain chemicals, such as a corrosion inhibitor shown in this picture
- From the totes, directly injected into pipelines in an enclosed system
- Used to treat pipelines downstream as oil is sent from wells to storage tanks
- Daily usage ranged from approximately 1-5 gallons
- Refilled once a month on average

On-Site Chemicals Used

- Corrosion Inhibitors used to protect piping and prevent degradation of metal
 - Naphtha as main ingredient (precursor to gasoline)
- Polymers used to separate oil from water
 - Sodium salt as a component
- Emulsifiers used to help combine oil and water
 - Naphtha as main ingredient





Proposed Amended Rule Language Update

12/21/2022

12

Use of Maintenance Chemicals in Wells

- Propose updating Rule 1148.2 (d)(1) section
 - Address concerns that other maintenance activities are not being reported
 - Would require notification if abnormally higher volumes of chemicals are used beyond regular maintenance

Proposed rule language including new definition:

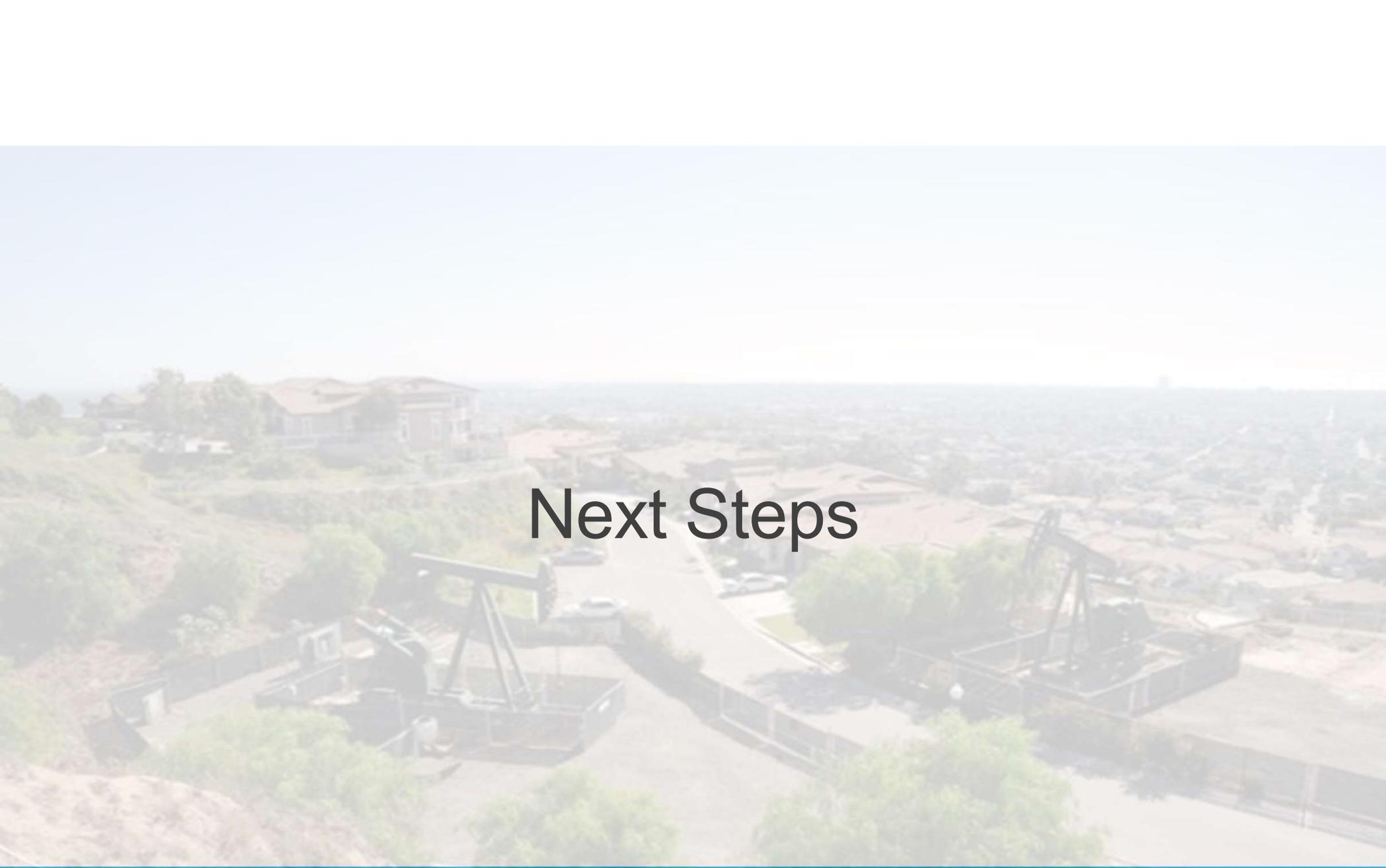
CHEMICAL TREATMENT means chemicals such as corrosion inhibitors used to prevent corrosion of pipes and tubing that are directly inserted into an oil and gas or injection well or pipelines. Chemicals used for acidizing are not applicable.

(d)(1) ... or conducting chemical treatment in quantities of fifty gallons or more, excluding water:



Proposed Rule Language for Hardcopy Notifications

- For oil and gas or injection wells located within 1,500 feet of a sensitive receptor
- Operator to send out a written notification to all sensitive receptors at least ten days prior to the commencement of an acidizing event
- Information in both English and Spanish
- Shall not apply to wells operated on islands located in either the Southern California Coastal Waters or Outer Continental Shelf Waters.

An aerial photograph showing an oil field with several pumpjacks in the foreground and middle ground. In the background, there are residential buildings and a city skyline under a clear blue sky. The text "Next Steps" is overlaid in the center of the image.

Next Steps

Next Steps for PAR 1148.2

Release 30-day Documents – January 4, 2023



Set Public Hearing – January 6, 2023



Stationary Source Committee – January 20, 2023



Public Hearing – February 3, 2023



SOUTH COAST AQMD

@SouthCoastAQMD



JOIN THE
CLEAN AIR TEAM!

NOW HIRING

Positions include Scientists, Policy Experts, Engineers, Inspectors, Chemists, Public Affairs, IT, Clerical and more!

Work in Southern California For A World-Renowned Air Quality Agency.
Clean the Air You Breathe and Protect Public Health.
Make A Difference in People's Lives.



4 Day Work Week



Retirement Plan



Telework up to 3 Days/Week



Life Insurance Benefits



Medical, Dental and Vision Insurance



Wellness Programs



13 Paid Holidays



Continued Education Reimbursement



APPLY ONLINE
www.aqmd.gov/careers

South Coast Air Quality Management District • 21865 Copley Dr. Diamond Bar, CA 91765

Staff Contacts

The following South Coast AQMD staff is available to assist you with any questions or comments



Jose Enriquez
Air Quality Specialist
(909) 396-2640
jenriquez1@aqmd.gov

Rodolfo Chacon
Program Supervisor
(909) 396-2726
rchacon@aqmd.gov

Michael Morris
Planning and Rules Manager
(909) 396-3282
mmorris@aqmd.gov

Michael Krause
Assistant Deputy Executive Officer
(909) 396-2706
mkrause@aqmd.gov