



Rule 1148 Series Requirements for Oil and Gas Wells



Working Group Meeting No. 1
April 14, 2022 – 10 am

Zoom URL: <https://scaqmd.zoom.us/j/95047775854>

Dial In: 1 669 900 6833

Webinar ID: 950 4777 5854 (applies to all)

Agenda



Background & Rule 1148 Series

Community Concerns

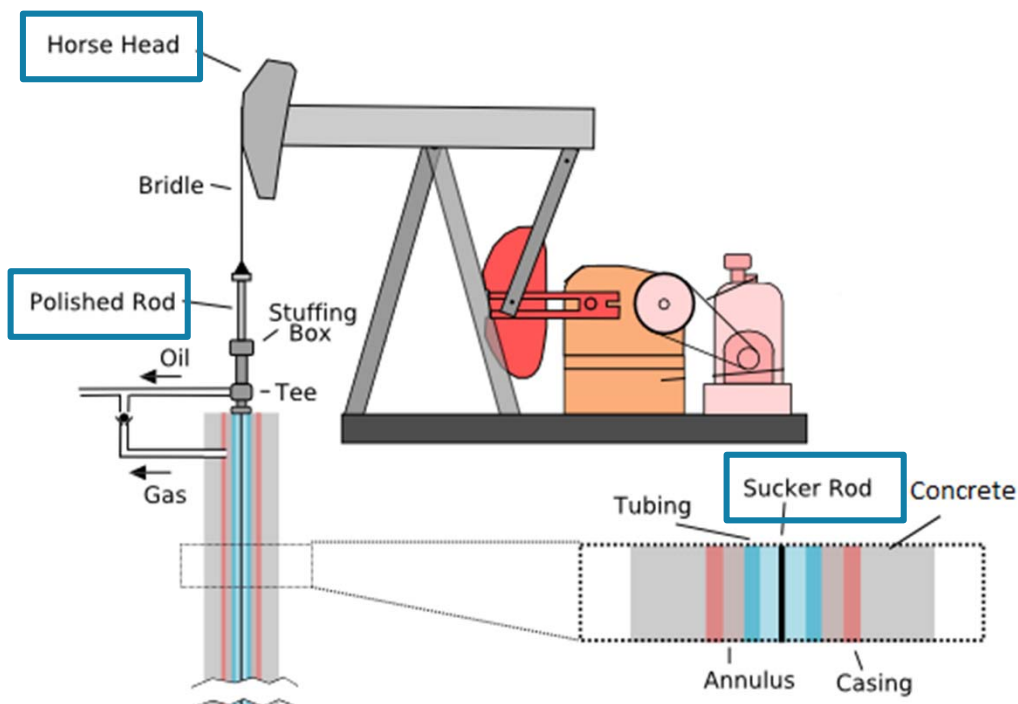
Rule Development Process and Next Steps



Background

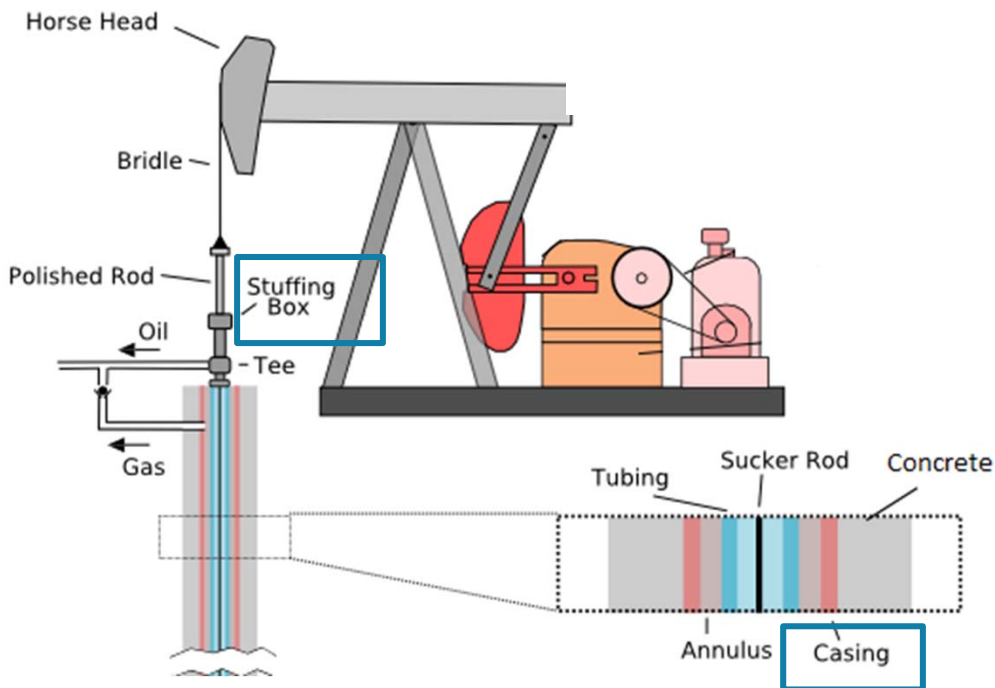
4/14/2022

Oil Wells – Pumpjack



- An oil well is a hole dug into the ground to primarily pump oil and natural gas
- A pumpjack, also known as a horsehead pump, is used to draw liquid and gas from the ground to the surface
- A polished rod moves in and out of the tubing without fluid escaping and is connected to sucker rods which run through the tubing

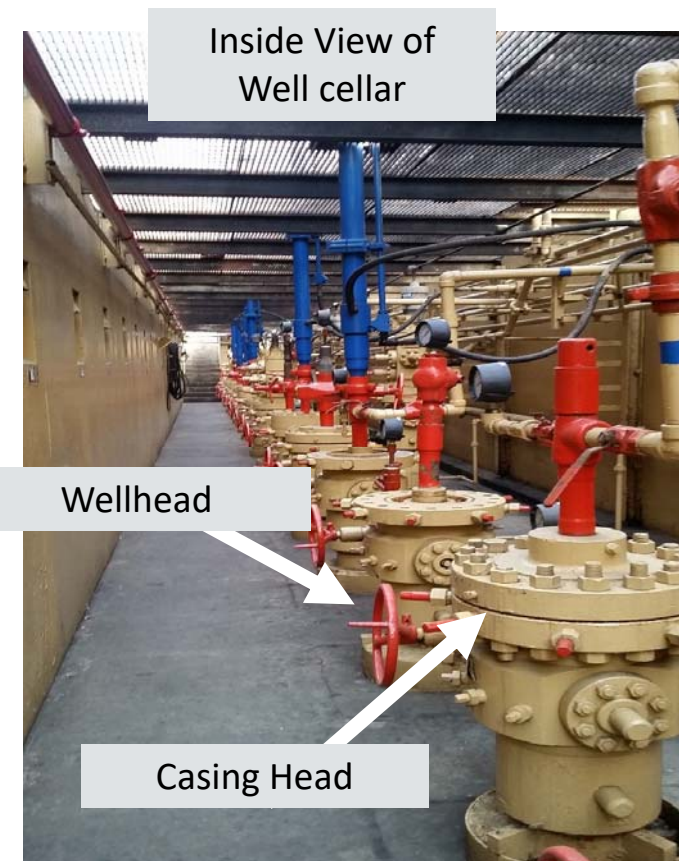
Oil Wells – Casing and Stuffing Box



- Well casing is lining that is inserted between edge of well and the well itself for structural support
- Stuffing Box is packing gland or “box” that holds packing material around moving pump rod to reduce escape of gas or liquid
- Horseheads are primarily driven by an electric motor

Oil Wells – Well Cellar and Wellhead

- Well cellar - a lined or unlined containment surrounding one or more oil wells
- Wellhead - an assembly of valves mounted to the casing head of an oil well
- Casing head - a metal flange welded or screwed onto the top of the casing and forms part of the wellhead system



Oil Wells – Oil and Gas Handling

- Oil pumped to holding tanks for water/oil separation
- Gas either routed to a flare or recovered for other uses
 - Gas cleaned up removing impurities and sold to Gas Company
 - Gas used in turbines for electrical production



South Coast AQMD Rule 1148 Series

Rules adopted to regulate oil field production sites:

Rule 1148 – Thermally Enhanced Oil Recovery Wells

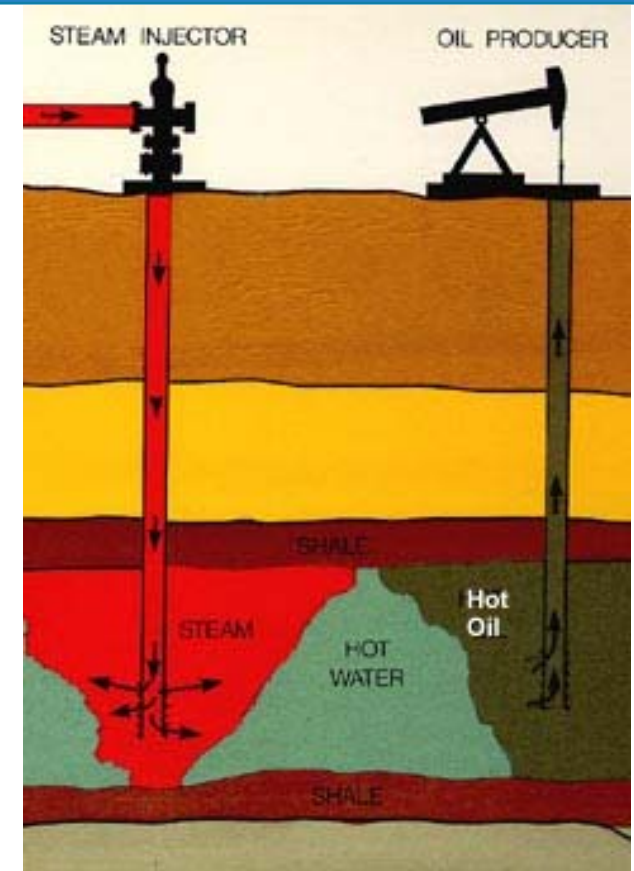
Rule 1148.1 – Oil and Gas Production Wells

Rule 1148.2 – Notification and Reporting Requirements for Oil and Gas Wells and Chemical Suppliers



Rule 1148 Requirements

- Adopted on November 5, 1982
- Established limits for VOC emissions on steam driven wells
- Steam driven wells combine oil production and steam injection wells
- Includes provisions if steam driven wells are connected to a vapor control system



Rule 1148.1 Requirements

- Last amended on September 4, 2015
- Established to reduce VOC and toxic emissions from wellheads, well cellars, and handling of produced gas
- Includes Odor Mitigation Plan requirement if following thresholds are met or exceeded
 - Notice of Violation for odor nuisance occurring on 2 or more days
 - 3 Confirmed Odor Events within previous 6 months



Rule 1148.2 Requirements



- Last amended September 4, 2015
- Established informational requirements for oil or gas wells
- Notification when conducting well drilling, well completion, or well reworks
- Includes reporting requirements for operators and chemical suppliers to disclose trade secret and non-trade secret chemicals used

Rule 1148.2 Requirements (continued)

- Notification to no less than 48 hours prior to start of drilling
- Allows up to five 24-hour extensions when start date and time is anticipated to occur after the originally projected start date and time
- Disaggregated of trade name product from chemical ingredients within the product
- Required reporting mass of each chemical ingredient supplied to the operator in order to reduce trade secret claims

Oil and Gas Well Electronic Notification and Reporting

Rule 1148.2 – Notification and Reporting Requirements for Oil and Gas Well and Chemical Suppliers was adopted on April 5, 2013. Effective June 4, 2013, oil and gas well operators and chemical suppliers are required to electronically submit to the South Coast AQMD various types of reports related to well drilling, well completion, and well reworks. In addition, the South Coast AQMD is required to make certain information regarding these activities available to the public.

Click on a tab below to access either of the *Notification and Reporting* or *Public Information* portals.

Operators & Chemical Suppliers	<i>Notification and Reporting Portal</i> - Create and manage account - File notifications and reports
Community Members	<i>Public Information Portal</i> - View well activity information and chemical usage - Sign up to receive emails for well event notifications
	<i>Rule 1148.2 Implementation Status Reports</i> - Current and past reports

Rule 1148.2 Notification website: <http://www.aqmd.gov/home/rules-compliance/compliance/1148-2>

Rule 1148.2 Notifications

- Notifications available to view online
- Includes Operator and Well Information
- Description of Well Activities
- Nearest Sensitive Receptor within 1,500 feet of well

R1148.2 (d) Notification

User Information

Eform Status	Date Stored	Time Stored
COMPLETED	03/18/2022	3:13 PM

Notification Type

Notification Type* EXTENSION Has this Previous Event ID Been superseded?

Previous Event ID for Cancellation, Revision Date or Other: 7036

Operator Information

Event ID: 7036

Facility ID*: 196013

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
03/18/2022 11:59:00 PM	1

Well Information

Well Name ID*: 5117	API Well Number*: 04-937-01947
Well Type*: DIL	Well Geographical Coordinates (NAD 83 Format)
County*: LOS ANGELES	Well Latitude*: 33.770756
Zip Code*: 90802	Well Longitude*: -118.206535
City*: LONG BEACH	Start Date and Time: 03/07/2022 12:30:00 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: SCHOOL [K-12]	Receptor Facility Name: CESAR CHAVEZ SCHOOL
Receptor Distance to Well in feet: 1476	Address: 730 W 3RD ST
	City: LONG BEACH
	Zip Code: 90802

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 *

Rule 1148.2 Notification website: <http://www.aqmd.gov/home/rules-compliance/compliance/1148-2>

An oil pumpjack is the central focus, situated in an industrial yard. The pumpjack is a large, dark metal structure with a long, light-colored walking beam. In the background, there are several blue and green shipping containers stacked together. The sky is a clear, bright blue with a very bright sun in the upper left corner, creating a lens flare effect. The ground is a flat, light-colored surface, possibly gravel or sand. A chain-link fence is visible in the foreground, partially obscuring the base of the pumpjack. The overall scene is an industrial setting under a clear sky.

Community Concerns

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Assembly Bill 617

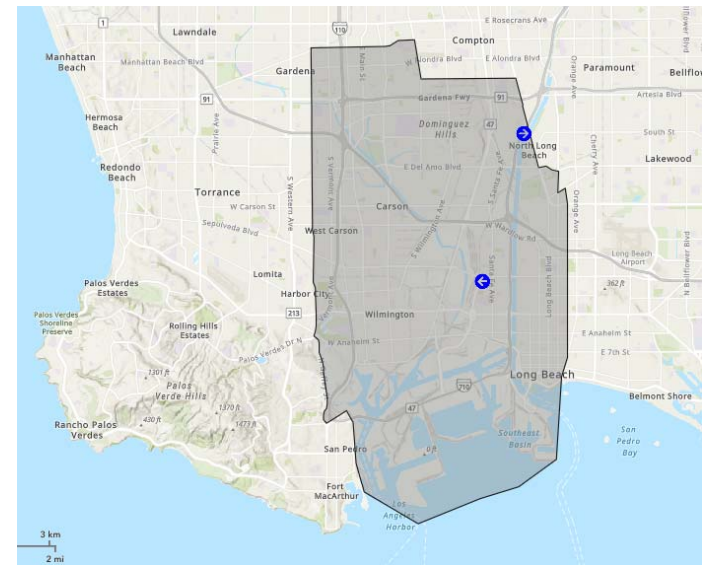
Requires air districts to create Community Emissions Reduction Plans (CERPs) for designated communities

Requires strategies to reduce toxic air contaminants and criteria air pollutants in disadvantaged communities

Two Communities Selected
* South Los Angeles (SLA)
* Wilmington, Carson, & West Long Beach (WCWLB)



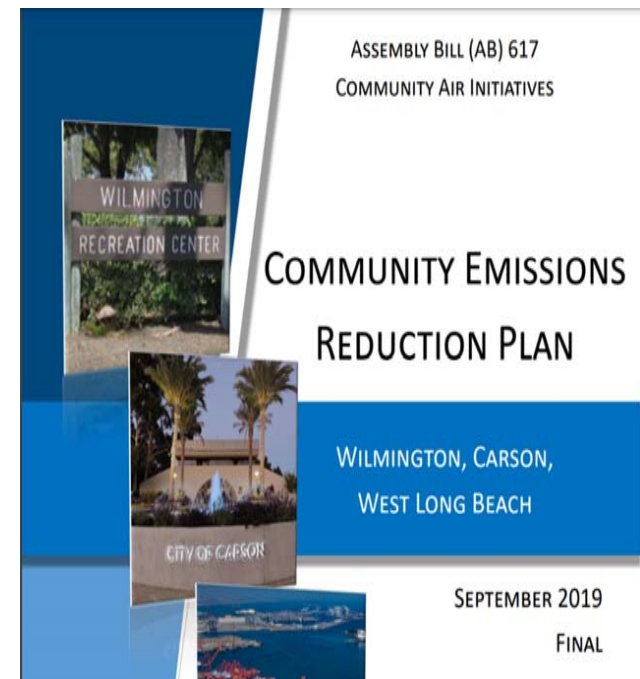
South LA



Wilmington, Carson and West Long Beach

AB617 and CERP

- AB617 Community Steering Committee (CSC) Meetings held in South Los Angeles (SLA) and Wilmington, Carson, and West Long Beach (WCWLB) areas
- Communities provided input to address local concerns
- WCWLB CERP was adopted in 2019 and the SLA CERP is currently in development
- Both WCWLB and SLA identified oil and gas production emissions as an area of concern



WCWLB CERP Regarding R1148 Series

Chapter 5 - Actions to Reduce Community Air Pollution listed 4 priorities regarding oil drilling & production:

Focused near facility air measurements & inspections to address leaks & odors from oil drilling & production

Improved public outreach & notifications

Additional requirements for oil production sites to submit annual reports to develop an accurate inventory of emissions & chemicals used

Require zero emission technology at drilling sites

SLA Draft CERP Regarding R1148 Series

AB617 Draft CERP,
Chapter 5F, Priorities
Related to Rule 1148
Series:

Air Measurement
Surveys

Additional Monitoring

Expand Notifications

Joint Inspections with
CARB

Summary of Community Concerns

WCWLB Concerns	Common Concerns	SLA Concerns
Requests for Annual Emission Reports	Air Measurements, Inspections, & Surveys	Additional Monitoring
Zero Emission Technology at Drilling Sites	Improved Public Outreach & Expand Notifications	Joint Inspections with CARB

Monitoring, Air Measurements, Surveys, & Inspections



- Evaluate feasibility of having additional/continuous monitoring at or near facilities
- Evaluate conducting air measurement surveys, including with mobile and/or stationary equipment
- Inspections already performed by AQMD Inspectors; will evaluate conducting joint inspections with CARB

Annual Reports, Improved Public Outreach, & Expanding Notifications

- Evaluate requests for annual emission reports
- Improved public outreach such as having website on signage outside facilities
- Evaluate amending Rule 1148.2 for notification expansion to include injection wells, drilling/work-over rig operations, and requirements for using odorants and chemicals



Zero Emission Technology at Drilling Sites



- Evaluate machinery and equipment normally used at drilling sites
- Review feasibility of electrifying diesel drilling and work-over rigs including access to electricity
- Examine availability and costs of replacements



Rule Development Process and Next Steps

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Rule Development Process

Information Gathering – Meet with Stakeholders



Define Rule Objective and Scope

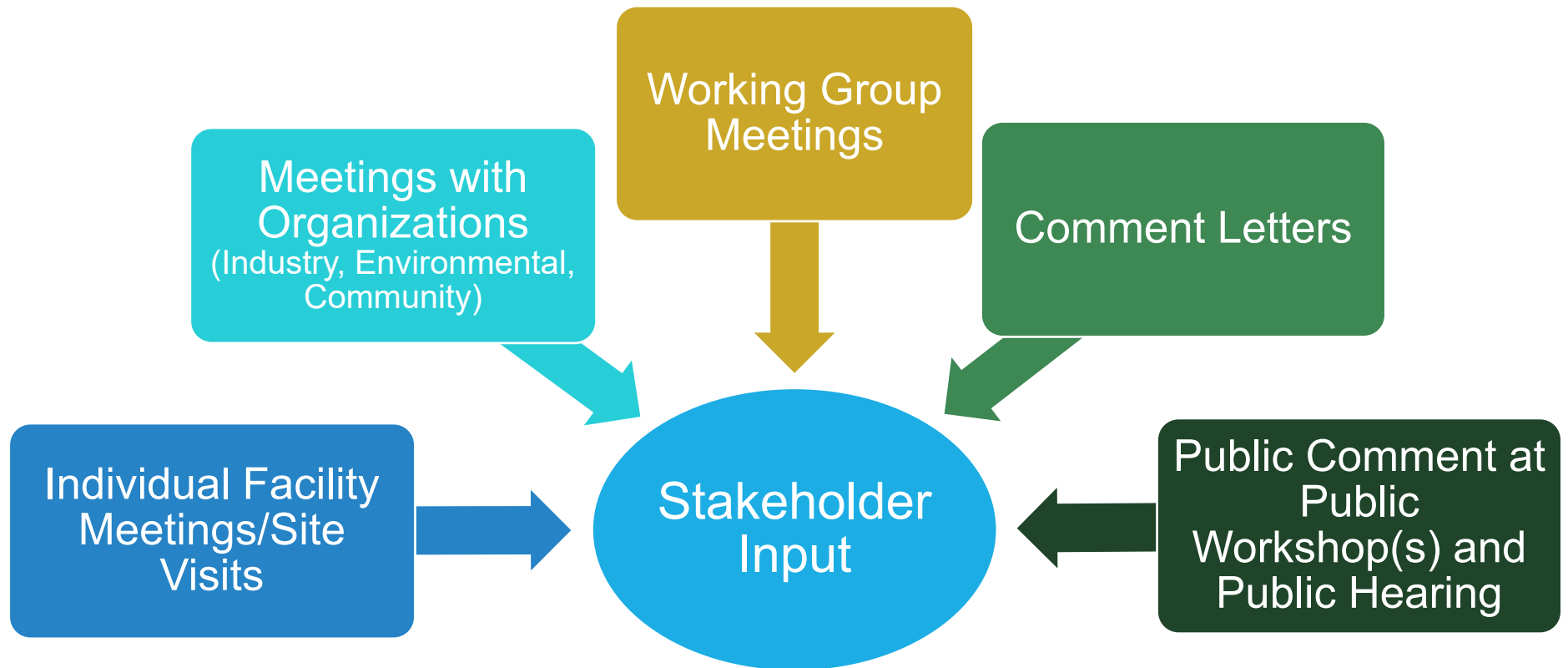


Develop Rule Concepts



Draft Proposed Rule Language

Stakeholder Input



Next Steps

Staff will continue with rule development process, which will include:

Continue information gathering

Site visits of affected facilities

Meetings with stakeholders

Rule concepts

Proposed Rule Schedule for PAR 1148.2



PAR 1148 and 1148.1 to be amended in 2023

Staff Contacts

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



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