



**South Coast
Air Quality Management District**

21865 Copley Drive, Diamond Bar, CA 91765

(909) 396-2000, www.aqmd.gov

STATIONARY SOURCE COMMITTEE MEETING

Committee Members

Council Member Ben Benoit, Chair

Supervisor Janice Hahn

Mayor Judith Mitchell

Supervisor V. Manuel Perez

Supervisor Janice Rutherford

**April 19, 2019 ♦ 10:30 a.m. ♦ CC8
21865 Copley Dr., Diamond Bar, CA 91765**

TELECONFERENCE LOCATION

Wildomar City Hall
City Council Chambers
23873 Clinton Keith Road
Wildomar, CA 92595

302 West 5th Street
Suite 200
San Pedro, CA 90731

73710 Fred Waring Drive
Suite 222
Palm Desert, CA 92260

(The public may attend at any location listed above.)

Call-in for listening purposes only is available by dialing:

Toll Free: 866-244-8528

Listen Only Passcode: 5821432

In addition, a webcast is available for viewing and listening at:

<http://www.aqmd.gov/home/library/webcasts>

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54854.3(a)). Please provide a Request to Address the Committee card to the Committee Secretary if you wish to address the Committee on an agenda item. If no cards are available, please notify SCAQMD staff or a Board Member of your desire to speak. All agendas for regular meetings are posted at District Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.

CALL TO ORDER

INFORMATIONAL ITEMS (Item 1-2)

- 1. Update on Implementation of Rule 1180 – Refinery Fenceline and Community Air Monitoring (No Motion Required)** (10mins.) Jason Low
Assistant Deputy
Executive Officer
Rule 1180 requires all major refineries in the Basin to continuously monitor a comprehensive list of criteria pollutants, VOCs and toxic air contaminants at their fenceline and also requires the refineries to pay a fee for community air monitoring. SCAQMD staff is developing the plan for refinery-related community air monitoring systems. This update describes the progress and next steps towards the implementation of Rule 1180.
(Written Material Attached)
- 2. Compliance Update on Rule 1403 – Asbestos Emissions from Demolition/Renovation Activities (No Motion Required)** (10mins.) Terrence Mann
Assistant Deputy
Executive Officer
Rule 1403 governs work practice requirements for asbestos in renovation and demolition activities. This update describes a recent Advisory Notice and related issues concerning compliance with the requirements of the current version of Rule 1403.
(Written Material Attached)

WRITTEN REPORTS (Items 3-5)

- 3. Monthly Update of Staff's Work with U.S. EPA on New Source Review Issues for the Transition of RECLAIM Facilities to a Command and Control Regulatory Program (No Motion Required)** Susan Nakamura
Assistant Deputy
Executive Officer
This is a summary of staff's work with U.S. EPA over the past month to resolve New Source Review issues for the transition of RECLAIM facilities to a command and control regulatory program.
(Written Material Attached)

- 4. Notice of Violation Penalty Summary (*No Motion Required*)**
This report provides the total penalties settled in March of 2019 which includes Civil, Supplemental Environmental Projects, Mutual Settlement Assessment Penalty Program, Hearing Board and Miscellaneous.
(*Written Material Attached*)

Bayron Gilchrist
General Counsel

- 5. Twelve-month and Three-month Rolling Price RTCs for Compliance Years 2018 and 2019 (*No Motion Required*)**
The attached quarterly report summarizes the twelve-month and three-month rolling averages prices of NOx and SOx RTCs.
(*Written Material Attached*)

Laki Tisopulos
Deputy Executive
Officer

OTHER MATTERS

6. Other Business

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

7. Public Comment Period

At the end of the regular meeting agenda, an opportunity is also provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

- 8. Next Meeting Date:** Friday, May 17, 2019 at 10:30 am

ADJOURNMENT

Americans with Disabilities Act

The agenda and documents in the agenda packet will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't. Code Section 54954.2(a)). Disability-related accommodations will also be made available to allow participation in the Stationary Source Committee meeting. Any accommodations must be requested as soon as practicable. Requests will be accommodated to the extent feasible. Please contact Catherine Rodriguez at 909.396-2735 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to Crodriguez@aqmd.gov.

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available prior to the meeting for public review at the South Coast Air Quality Management District, Public Information Center, 21865 Copley Drive, Diamond Bar, CA 91765.



Rule 1180 Goals and Objectives

- Monitor air pollution levels at the refinery fenceline in real-time and establish fee to install air monitors in nearby communities
- Provide communities with information on air pollution levels at refinery boundaries
 - Variations
 - Trends

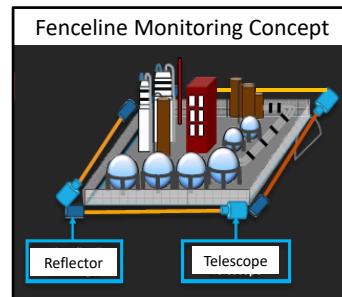
Pollutants to be monitored for Fenceline Air Monitoring Systems

Criteria Air Pollutants
Sulfur Dioxide
Nitrogen Oxides
Volatile Organic Compounds
Total VOCs (Non-Methane Hydrocarbons)
Formaldehyde
Acetaldehyde
Acrolein
1,3-Butadiene
Styrene
BTEX Compounds (Benzene, Toluene, Ethylbenzene, Xylenes)
Other Compounds
Hydrogen Sulfide
Carbonyl Sulfide
Ammonia
Black Carbon
Hydrogen Cyanide
Hydrogen Fluoride*

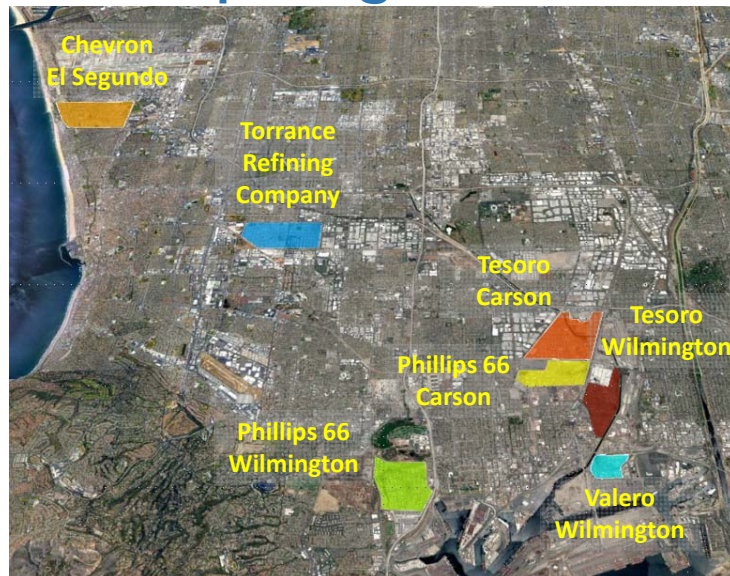
**For Torrance and Valero refineries only*

Fenceline Air Monitoring

- Conducted by the refineries
- Fenceline air monitoring plans consistent with Rule 1180 guidelines
- Fenceline monitoring system to provide real-time air quality information
- Fenceline monitoring data shared with the public via dedicated website

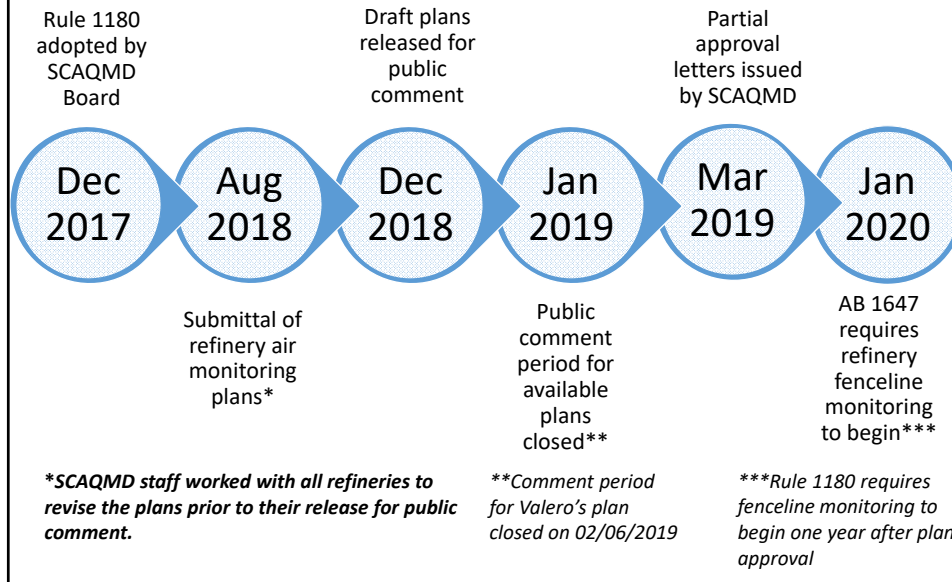


Participating Refineries



Paramount Petroleum (now owned and operated by Delek U.S. Holdings Inc.) voluntarily accepted a permit condition limiting its throughput of crude oil to no more than 39,500 barrels per day, and is exempt from Rule 1180 requirements.

Rule 1180 Implementation Timeline



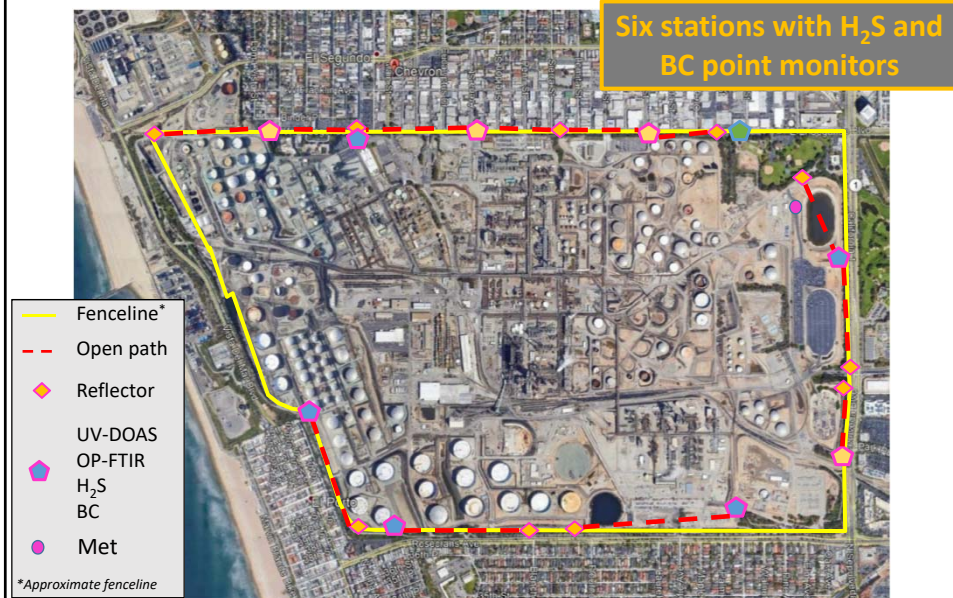
Plan Requirements

- Fenceline air monitoring plans must be consistent with Rule 1180 Plan Guidelines and detail the following:
 - Fenceline air monitoring coverage
 - Proximity to nearby communities, sensitive receptors
 - Meteorological data
 - Description of refinery emissions and dispersion modeling
 - Analysis of other neighboring emission sources
- Data presentation to the public
- Public notification system
- Quality Assurance
- Equipment maintenance and failure plan

Plan Review and Approval

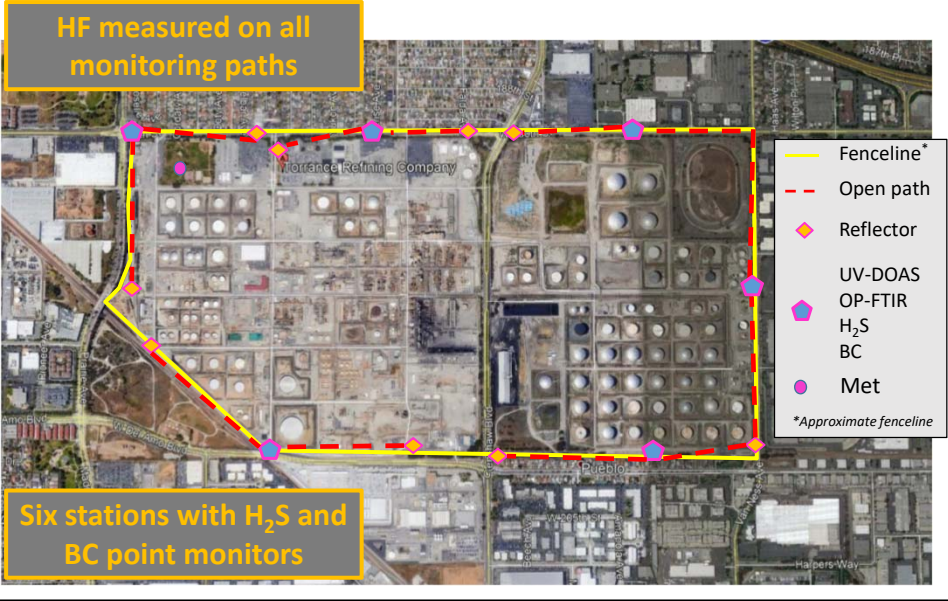
- Ongoing discussions to improve air monitoring plans
 - Worked with each refinery individually to improve and resubmit initial plans
 - Provided plans for public comment
 - Further improvements based on 5 week public comment period
- Issued partial approval letters for fenceline elements of the plans for all refineries
 - Conditions of the partial approval with required refinery certification
 - All refineries signed and returned the certification
- **The approved fenceline coverage is greatly improved from the plans released for public review**
- Will continue working with refineries on data presentation, notification and quality assurance elements of the plans

Chevron El Segundo Fenceline



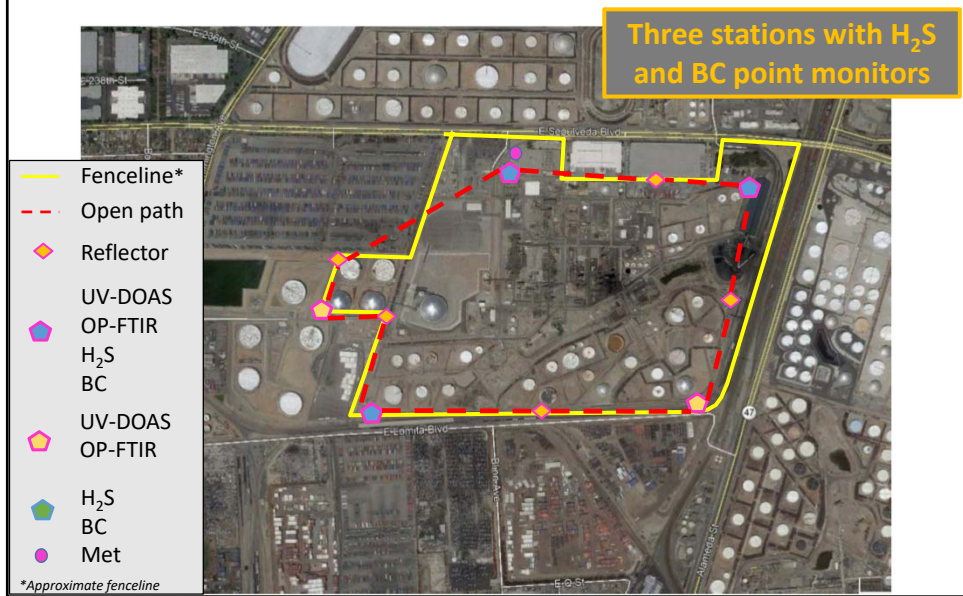
Torrance Refinery

Fenceline

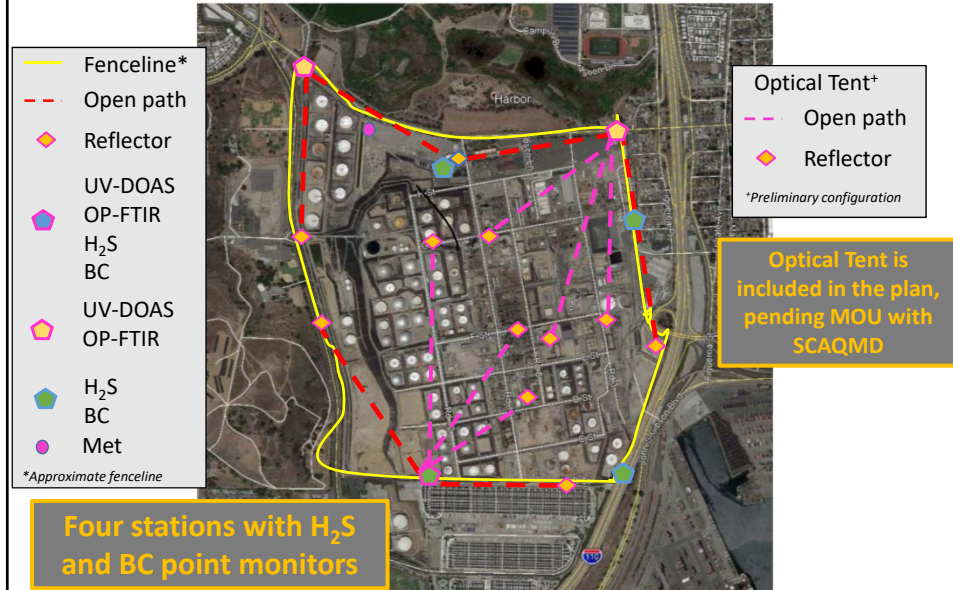


Phillips 66 Carson

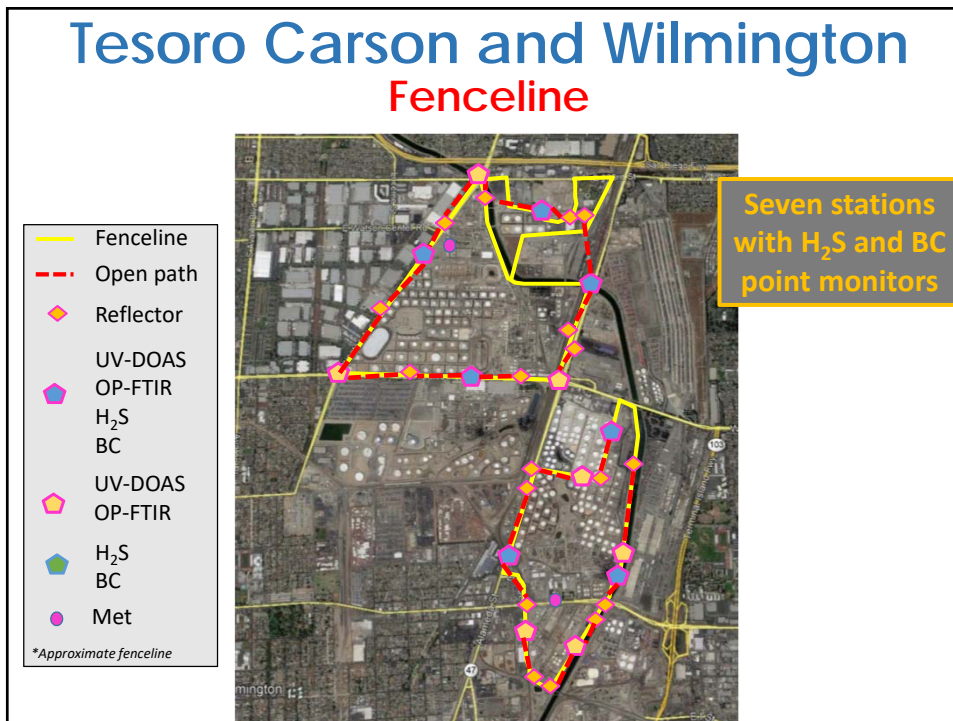
Fenceline



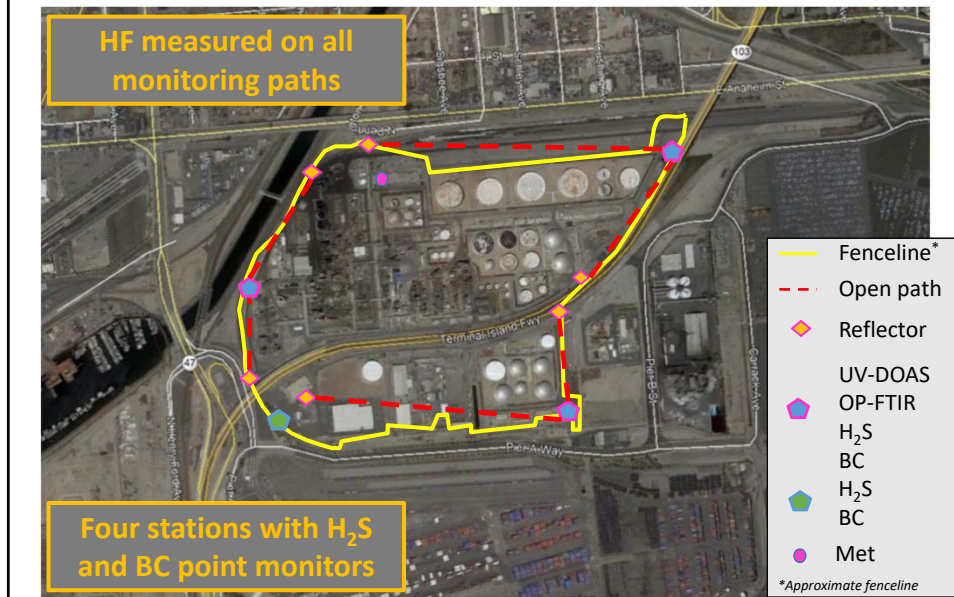
Phillips 66 Wilmington Optical Tent



Tesoro Carson and Wilmington Fenceline

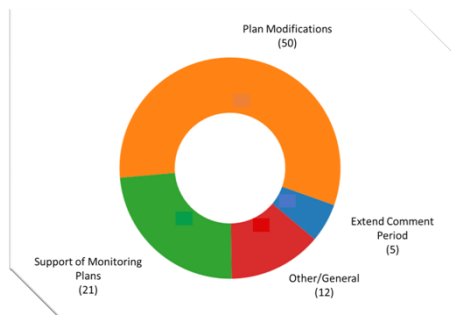


Valero Refinery Fenceline



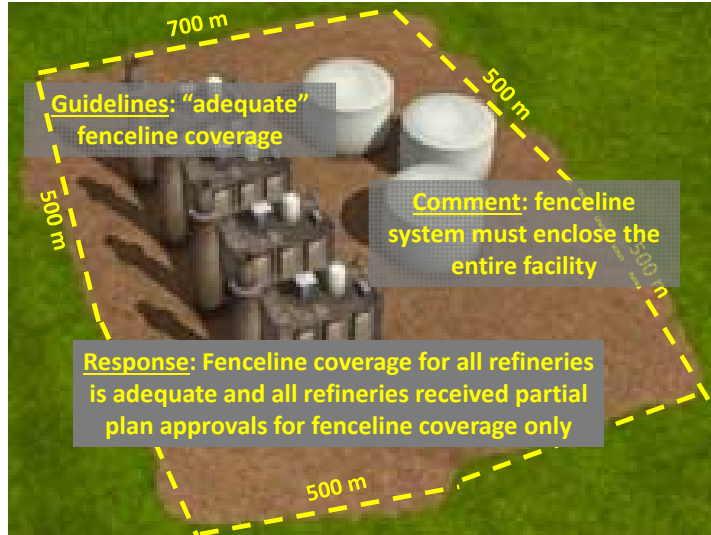
Public Comments Overview

- 88 comments received from
 - Community organizations
 - Private citizens
 - Government organizations
 - School district
 - City governments
 - Businesses
- Public comments have been reviewed and considered before partially approving the refinery plans
- A document summarizing staff responses to comments will be posted online soon



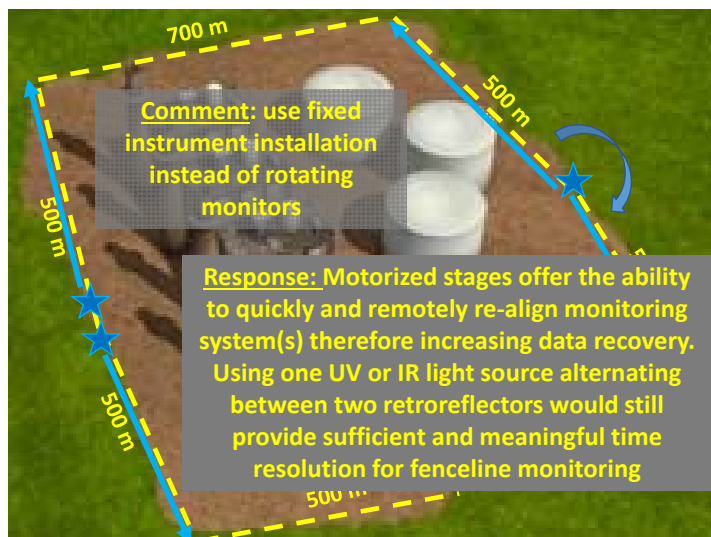
Plans Requirements & Comments

Fenceline



Plans Requirements & Comments

Fenceline



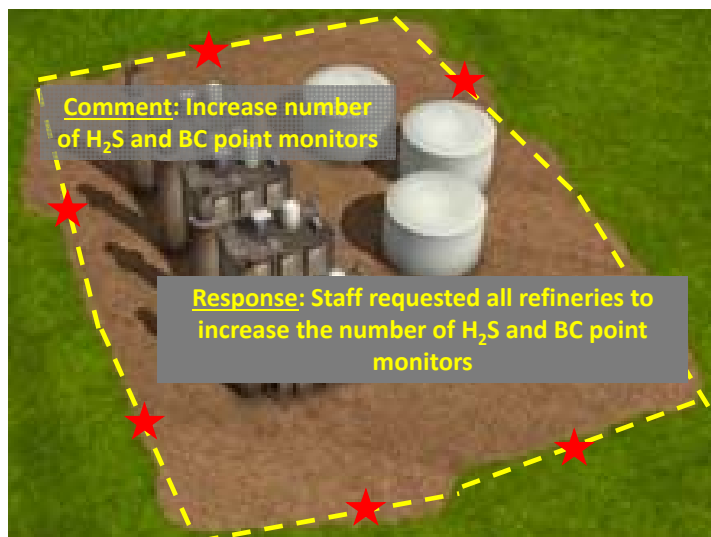
Plans Requirements & Comments

Fenceline



Plans Requirements & Comments

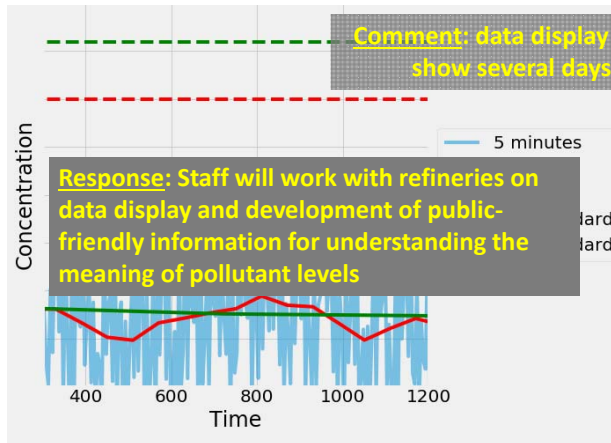
Fenceline



Plan Requirements & Comments Data Reporting

Guideline: data “displayed online in a relevant, useful and understandable manner”

Comment: data must be displayed in real-time and as 1-hr and 8-hr averages*



Comment: data display must show several days

Response: Staff will work with refineries on data display and development of public-friendly information for understanding the meaning of pollutant levels

*This is to relate data to RELs

Plan Requirements & Comments Data Notification

Guideline: thresholds based on available information/resources (e.g., NAAQS, CAAQS, and OEHHA)

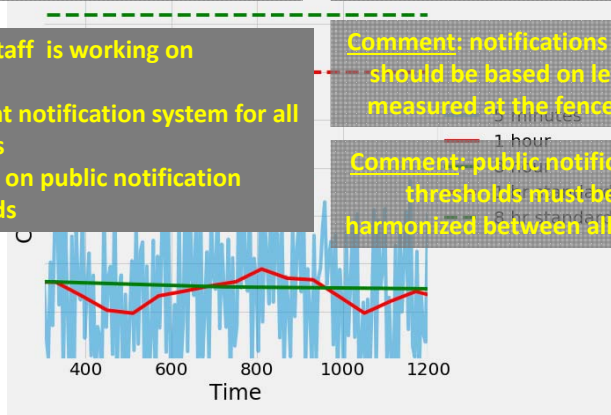
Comment: notifications for all refineries must be linked to well established health-based standards (e.g. OEHHA RELs)

Response: Staff is working on developing

- consistent notification system for all refineries
- guidance on public notification thresholds

Comment: notifications levels should be based on levels measured at the fenceline

Comment: public notification thresholds must be harmonized between all plans



Plan Requirements & Comments

QA/QC

Guideline: plans shall include proper QA/QC documentation (e.g., QAPP, SOPs, etc.)

Comment: instruments make/model must be included in the plans

Response: Staff will work with all refineries to finalize and approve the QA/QC portions of all plans prior to starting monitoring

Comment: QAPPs and SOPs must be finalized before approval of the plans



Next Steps

- Community meetings (Spring 2019)
 - Present and explain each refinery fence line air monitoring plan
 - Present and solicit feedback on potential community monitoring locations and community monitoring strategy
- Establish community monitoring sites (Fall/Winter 2019)
 - Select and procure air monitoring sites and equipment
 - Set up monitoring sites
 - Develop public data portal
- Finalize and approve remaining portions of the Refinery Fence Line Monitoring Plans (Fall 2019)
 - Data display
 - Public notification
 - Notification thresholds
 - Educational materials
 - QA/QC and SOP's
- Implement Community and Fence Line Air Monitoring Network (January 2020)

Agenda Item # 2

Terrence Mann
Assistant Deputy Executive Officer
Compliance & Enforcement

Update on Advisory Notice for Rule 1403 and
Related Issues

Background

- Rule 1403 governs work practice requirements to limit asbestos emissions from demolition and renovation activities.
- Increased inspections/field activities identified substantial noncompliance at job sites throughout the District.
- Rulemaking process also revealed significant lack of awareness of current rule requirements, including among municipalities, school districts, and government agencies.
- Staff issued an Advisory Notice in March 2019.

The Advisory Notice

- Notice was distributed by e-mail to:
 - Over 1,500 individuals registered to submit notifications using the online web app.;
 - Building and safety offices (both city and county); and
 - All persons and organizations subscribed to receive notifications regarding proposed amendments to Rule 1403.
- It was also posted on the SCAQMD website.

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The Advisory Notice (cont.)

- Highlighted three current requirements of Rule 1403:
 1. Onsite Surveys;
 2. Online Notifications; and
 3. Removal and Clean-Up Procedures.

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1. Onsite Surveys

- Onsite survey for Asbestos-Containing Materials (ACM) **must** be conducted **prior to** commencement of any renovation or demolition.
- Only exception is for renovations of single-unit residences where <100 square feet of surface area of ACM being removed or stripped.
- Survey must be documented in writing.
- Person conducting survey must have specific certification/training.

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2. Online Notifications

- SCAQMD **must** be notified **prior to** any work activities taking place for:
 - Renovations that impact ACM, except for those involving <100 square feet of total ACM surface area;
 - All renovations involving clean-up of damaged or disturbed ACM; and
 - All demolitions.
- Notifications must be submitted using the online web app.

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3. Removal and Clean-up Procedures

- Rule 1403 identifies five procedures for proper asbestos abatement, such as:
 - Total enclosure with HEPA filtration to provide negative pressure (Procedure 1); and
 - Adequate wetting (Procedure 3).
- Procedure 5 is the “Approved Alternative” for special circumstances, including damaged or disturbed ACM. **A Procedure 5 plan must be submitted whenever there is damaged or disturbed ACM, regardless of the size of the project.**

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For questions concerning Rule 1403, the public and regulated community may contact us via the Asbestos Hotline at (909) 396-2336 or by email to Rule1403Notifications@aqmd.gov

Thank you!

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April 2019 Update on Work with U.S. EPA on New Source Review Issues for the RECLAIM Transition

Staff has been working with U.S. EPA to resolve New Source Review (NSR) issues as RECLAIM facilities exit to a command and control regulatory structure. At the October 5, 2018 Governing Board Meeting, the Board directed staff to provide the Stationary Source Committee with a monthly update of staff's work with U.S. EPA regarding resolving NSR issues for the transition of facilities from RECLAIM to a command and control regulatory structure. The table below summarizes key activities over the past month.

Item	Discussion
Teleconference with U.S. EPA – March 7, 2019	<ul style="list-style-type: none"> • Discussed agenda items for the March 14, 2019 in person meeting at U.S. EPA Region IX
In person meeting with U.S. EPA – March 14, 2019	<ul style="list-style-type: none"> • Staff presented the following three key NSR issues with the RECLAIM transition <ul style="list-style-type: none"> ○ Offsetting obligations ○ Permitting ○ Offset availability • Discussed NSR and Federal Clean Air Act requirements for an equivalency demonstration • Discussed calculation methodologies for NSR events. • U.S. EPA expressed concerned with retaining only some provisions of Regulation XX, since RECLAIM was approved as a whole program • U.S. EPA recommends that facilities remain in RECLAIM until NSR, Regulation XX, and command and control rules are amended/adopted and SIP approved <ul style="list-style-type: none"> ○ Will require amendment to Rule 2001 in order to remove RECLAIM opt-out provisions
Teleconference with U.S. EPA – April 9, 2019	<ul style="list-style-type: none"> • Follow-up discussion from the March 14, 2019 meeting at U.S. EPA Region IX • U.S. EPA provided additional guidance on exiting facilities
RECLAIM Working Group Meeting – April 11, 2019	<ul style="list-style-type: none"> • Provided an overview of the meeting with U.S. EPA • Discussed approach for demonstrating equivalency for the 12 tpd RECLAIM shave and RECLAIM NSR • Discussed concept for amendments to Rule 2001 to remove the opt-out provision

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
General Counsel's Office**

Item # 4

[Back to Agenda](#)

**March 2019 Settlement Penalty Report
DRAFT**

Total Penalties

Civil Settlements:	\$132,250.00
Self-Reported Settlements:	\$6,000.00
MSPAP Settlements:	\$21,890.00
Hearing Board Settlements:	\$24,000.00

Total Cash Settlements: \$184,140.00

Total SEP Value: \$0.00

Fiscal Year through 3 / 2019 Cash Total: \$5,578,181.50

Fiscal Year through 3 / 2019 SEP Value Only Total: \$265,000.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
Civil Settlements						
115394	AES ALAMITOS, LLC	2012(c)(3)(A)	3/13/2019	SH	P62083	\$1,000.00
118406	CARSON COGENERATION COMPANY	2004 2012	3/27/2019	VKT	P65804	\$2,500.00
800030	CHEVRON PRODUCTS CO.	1176	3/8/2019	TRB	P64039	\$2,500.00
136128	DALLAS CLEANERS, JESUS CRISTAL	203(a) 1421	3/5/2019	SMP	P64464	\$5,000.00
181072	FLYERS #4422	461 H&S 41960	3/13/2019	KCM	P68404	\$1,800.00
184354	GEMTECH COATINGS	203(b)	3/26/2019	DH	P64091	\$500.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
129816	INLAND EMPIRE ENERGY CENTER, LLC	2004 2012 Appen A	3/13/2019	VKT	P64409	\$4,000.00
147371	INLAND EMPIRE UTILITIES AGENCY	3002 3004	3/1/2019	KCM	P65034	\$9,850.00
16338	KAISER ALUMINUM FABRICATED PRODUCTS, LLC	2004 2012 2012 Appen A 3002(c)(1)	3/26/2019	SH	P60280 P61611 P61735 P62067 P64381 P64384 P64410	\$60,500.00
58563	MERCURY PLASTICS INC	3002 3003	3/26/2019	BST	P65383	\$24,000.00
20203	RECONSERVE OF CALIFORNIA LOS ANGELES INC	2004 2012	3/8/2019	TRB	P57875 P57879 P57880 P66207	\$9,000.00
52517	REXAM BEVERAGE CAN COMPANY	2004(f)(1) 2012 Appen A 3002(c)(1)	3/13/2019	SH	P61731 P67360	\$5,000.00
105277	SULLY MILLER CONTRACTING CO	2004 2012	3/19/2019	ML	P60576 P66851	\$6,600.00

Total Civil Settlements: \$132,250.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
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Self-Reported Settlements

89127	TRI-STAR ELECTRONICS INTERNATIONAL INC <i>Self-Reported Violation# SRV2018-5</i>	203	3/1/2019	DH		\$6,000.00
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Total Self-Reported Settlements: \$6,000.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
MSPAP Settlements						
122876	ALL AMERICAN ASPHALT	403(d)(1)	3/27/2019	GC	P65214	\$3,060.00
179811	ASEPTIC TECHNOLOGY LLC	201 203 1415	3/8/2019	GC	P65763	\$1,600.00
186472	CLEANSTREET	403	3/8/2019	GC	P66302	\$800.00
116146	COSTCO WHOLESALE	203	3/8/2019	GC	P68407	\$1,530.00
171881	EMBASSY SUITES SANTA ANA	222 1415	3/27/2019	GC	P63866	\$1,300.00
154407	GREEN VALLEY MARKET	461	3/27/2019	GC	P64923	\$1,100.00
183372	H & M INC DBA ARCO OF FULLERTON	461	3/27/2019	GC	P65746	\$400.00
186575	IMPERIAL VALLEY CLEANERS	203	3/27/2019	GC	P65768	\$400.00
178873	LOS ANGELES COMMUNITY HOSPITAL AT BELLFL	203(a)	3/8/2019	TF	P65219	\$800.00
187773	PIONEER COACH INC.	13 CCR 2485	3/27/2019	TF	P66812	\$1,200.00
187197	RC HOBBS	403	3/27/2019	TF	P67654	\$800.00
19390	SULLY-MILLER CONTRACTING CO.	2004	3/8/2019	TF	P66161	\$500.00
187774	TAYLOR TOURS LLC.	13 CCR 2485	3/27/2019	TF	P66809	\$1,200.00
62986	TTM TECHNOLOGIES INC	203(b)	3/8/2019	TF	P64092	\$7,200.00
Total MSPAP Settlements: \$21,890.00						

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
Hearing Board Settlements						
118389	ARCO AM/PM, NYGREN/CARR PROPERTIES,INC	203 461 H&S 41960.2	3/19/2019	NAS	6130-1	\$4,000.00
104234	MISSION FOODS CORPORATION	202 203(b) 1153.1 1303	3/7/2019	KCM	5400-4	\$15,000.00
117807	SERFAS SERVICE STN/ARCO #81851	461 H&S 41960.2	3/14/2019	NAS	6129-1	\$5,000.00

Total Hearing Board Settlements: \$24,000.00

**DISTRICT'S RULES AND REGULATIONS INDEX
FOR MARCH 2019 PENALTY REPORT**

REGULATION II - PERMITS

- Rule 201 Permit to Construct
- Rule 202 Temporary Permit to Operate
- Rule 203 Permit to Operate
- Rule 218 Continuous Emission Monitoring
- Rule 222 Filing Requirements for Specific Emission Sources Not Requiring a Written Permit Pursuant to Regulation II

REGULATION IV - PROHIBITIONS

- Rule 403 Fugitive Dust - Pertains to solid particulate matter emitted from man-made activities
- Rule 461 Gasoline Transfer and Dispensing

REGULATION XI - SOURCE SPECIFIC STANDARDS

- Rule 1153.1 Emissions of Oxides of Nitrogen from Commercial Food Ovens
- Rule 1176 Sumps and Wastewater Separators

REGULATION XIII - NEW SOURCE REVIEW

- Rule 1303 Requirements

REGULATION XIV - TOXICS

- Rule 1415 Reduction of Refrigerant Emissions from Stationary Refrigeration and Air Conditioning Systems
- Rule 1421 Control of Perchloroethylene Emissions from Dry Cleaning Operations

REGULATION XX - REGIONAL CLEAN AIR INCENTIVES MARKET (RECLAIM)

- Rule 2004 RECLAIM Program Requirements
- Rule 2012 Requirements for Monitoring, Reporting, and Recordkeeping for Oxides of Nitrogen (NO_x) Emissions
- Appendix A
 - Rule 2012 Protocol for Monitoring, Reporting, and Recordkeeping for Oxides of Nitrogen (NO_x) Emissions

REGULATION XXX - TITLE V PERMITS

- Rule 3002 Requirements for Title V Permits
- Rule 3003 Applications
- Rule 3004 Permit Types and Content

CALIFORNIA HEALTH AND SAFETY CODE

- 41960 Certification of Gasoline Vapor Recovery System
- 41960.2 Gasoline Vapor Recovery

CALIFORNIA CODE OF REGULATIONS

- 13 CCR 2485 Airborne Toxic Control Measure to Limit Diesel-Fueled Commercial Motor Vehicle Idling



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

Twelve-Month and Three-Month Rolling Average Price of Compliance Years 2018 and 2019 NOx and SOx RTCs

April 2019 Quarterly Report to Stationary Source Committee

Table I

Twelve-Month Rolling Average Price Data for Compliance Year 2018 NOx RTCs
(Report to Governing Board if rolling average price greater than \$22,500/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2018 NOx RTC					
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price ¹ (\$/ton)
Jan-18	Jan-17 to Dec-17	91.6	\$974,592	3	\$10,639
Feb-18	Feb-17 to Jan-18	91.6	\$974,592	3	\$10,639
Mar-18	Mar-17 to Feb-18	100.7	\$1,041,091	4	\$10,337
Apr-18	Apr-17 to Mar-18	51.6	\$497,246	5	\$9,643
May-18	May-17 to Apr-18	56.6	\$527,075	8	\$9,320
Jun-18	Jun-17 to May-18	53.1	\$502,575	7	\$9,473
Jul-18	Jul-17 to Jun-18	72.6	\$625,883	14	\$8,618
Aug-18	Aug-17 to Jul-18	80.0	\$660,279	19	\$8,251
Sep-18	Sep-17 to Aug-18	86.8	\$698,621	28	\$8,050
Oct-18	Oct-17 to Sep-18	104.3	\$759,871	29	\$7,287
Nov-18	Nov-17 to Oct-18	196.3	\$1,069,361	47	\$5,447
Dec-18	Dec-17 to Nov-18	167.5	\$706,811	49	\$4,219
Jan-19	Jan-18 to Dec-18	270.4	\$1,023,944	57	\$3,786
Feb-19	Feb-18 to Jan-19	521.6	\$1,460,268	87	\$2,800
Mar-19	Mar-18 to Feb-19	625.6	\$1,534,266	97	\$2,452
Apr-19	Apr-18 to Mar-19	636.4	\$1,581,537	98	\$2,485

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

Table II

Twelve-Month Rolling Average Price Data for Compliance Year 2019 NOx RTCs
(Report to Governing Board if rolling average price greater than \$22,500/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2019 NOx RTC					
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price¹ (\$/ton)
Jan-19	Jan-18 to Dec-18	18.2	\$103,000	5	\$5,646
Feb-19	Feb-18 to Jan-19	19.0	\$108,200	6	\$5,682
Mar-19	Mar-18 to Feb-19	19.0	\$108,200	6	\$5,682
Apr-19	Apr-18 to Mar-19	29.6	\$181,921	8	\$6,153

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

Table III

Three-Month Rolling Average Price Data for Compliance Year 2018 NOx RTCs
 (Report to Governing Board if rolling average price greater than \$35,000/ton)

Three-Month Rolling Average Price Data for Compliance Year 2018 NOx RTC					
Reporting Month	3-Month Period	Total Volume Traded with Price During Past 3-month (tons)	Total Price of Volume Traded During Past 3-month (\$)	Number of Trades with Price	Rolling Average Price (\$/ton)
Jan-18	Oct-17 to Dec-17	38.1	\$400,092	1	\$10,500
Feb-18	Nov-17 to Jan-18	38.1	\$400,092	1	\$10,500
Mar-18	Dec-17 to Feb-18	9.1	\$66,499	1	\$7,300
Apr-18	Jan-18 to Mar-18	10.0	\$72,654	3	\$7,295
May-18	Feb-18 to Apr-18	15.0	\$102,483	6	\$6,855
Jun-18	Mar-18 to May-18	5.8	\$35,984	5	\$6,160
Jul-18	Apr-18 to Jun-18	24.6	\$153,137	10	\$6,235
Aug-18	May-18 to Jul-18	27.0	\$157,704	12	\$5,848
Sep-18	Jun-18 to Aug-18	33.7	\$196,046	21	\$5,813
Oct-18	Jul-18 to Sep-18	31.7	\$133,988	15	\$4,233
Nov-18	Aug-18 to Oct-18	116.3	\$409,081	28	\$3,517
Dec-18	Sep-18 to Nov-18	118.9	\$408,282	22	\$3,435
Jan-19	Oct-18 to Dec-18	204.3	\$664,165	29	\$3,251
Feb-19	Nov-18 to Jan-19	363.4	\$790,999	41	\$2,177
Mar-19	Dec-18 to Feb-19	467.2	\$893,954	49	\$1,914
Apr-19	Jan-19 to Mar-19	375.9	\$630,248	44	\$1,677

Table IV

Three-Month Rolling Average Price Data for Compliance Year 2019 NOx RTCs
(Report to Governing Board if rolling average price greater than \$35,000/ton)

Three-Month Rolling Average Price Data for Compliance Year 2019 NOx RTC					
Reporting Month	3-Month Period	Total Volume Traded with Price During Past 3-month (tons)	Total Price of Volume Traded During Past 3-month (\$)	Number of Trades with Price	Rolling Average Price (\$/ton)
Jan-19	Oct-18 to Dec-18	18.2	\$102,300	4	\$5,621
Feb-19	Nov-18 to Jan-19	19.0	\$107,500	5	\$5,658
Mar-19	Dec-18 to Feb-19	14.0	\$80,000	4	\$5,714
Apr-19	Jan-19 to Mar-19	11.3	\$78,922	3	\$6,969

Please Note:

Table listing "Twelve-Month Rolling Average Price Data for Infinite-Year Block NOx RTCs" is removed pursuant to October 5, 2018 amendment to Rule 2002, which eliminated the requirement to calculate infinite-year block NOx RTC prices and report to the Governing Board if prices fall below \$200,000 per ton.

Table V

Twelve-Month Rolling Average Price Data for Compliance Year 2018 SOx RTCs
 (Report to Governing Board if rolling average price greater than \$50,000/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2018 SOx RTC					
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price¹ (\$/ton)
Jan-18	Jan-17 to Dec-17	None	-	-	-
Feb-18	Feb-17 to Jan-18	None	-	-	-
Mar-18	Mar-17 to Feb-18	None	-	-	-
Apr-18	Apr-17 to Mar-18	None	-	-	-
May-18	May-17 to Apr-18	None	-	-	-
Jun-18	Jun-17 to May-18	34.2	\$23,974	3	\$700
Jul-18	Jul-17 to Jun-18	34.2	\$23,974	3	\$700
Aug-18	Aug-17 to Jul-18	80.2	\$57,354	5	\$715
Sep-18	Sep-17 to Aug-18	95.2	\$67,854	6	\$713
Oct-18	Oct-17 to Sep-18	163.3	\$135,429	10	\$829
Nov-18	Nov-17 to Oct-18	173.3	\$165,429	11	\$955
Dec-18	Dec-17 to Nov-18	173.3	\$165,429	11	\$955
Jan-19	Jan-18 to Dec-18	173.3	\$165,429	11	\$955
Feb-19	Feb-18 to Jan-19	218.3	\$209,829	14	\$961
Mar-19	Mar-18 to Feb-19	259.7	\$292,629	16	\$1,127
Apr-19	Apr-18 to Mar-19	259.7	\$292,629	16	\$1,127

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

Table VI

Twelve-Month Rolling Average Price Data for Compliance Year 2019 SOx RTCs
 (Report to Governing Board if rolling average price greater than \$50,000/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2019 SOx RTC					
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price¹ (\$/ton)
Jan-19	Jan-18 to Dec-18	None	-	-	-
Feb-19	Feb-18 to Jan-19	None	-	-	-
Mar-19	Mar-18 to Feb-19	25.0	\$50,000	1	\$2,000
Apr-19	Feb-18 to Jan-20	25.0	\$50,000	1	\$2,000

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.