

# Carbon Scrubber Hydrogen Sulfide Removal Performance – 4Q FY08/09

File: OC.RS

Location	Capacity	Model	System	Date	Inlet H2S (ppm)	Outlet H2S (ppm)
<b>LA CIENEGA-JEFFERSON</b> AQMD Allowable Limit: 1.0 ppm	10,000 cfm	US Filter	ECIS	06/30/09	18.00	0.066
				06/24/09	23.00	0.052
				06/15/09	18.00	0.057
				06/11/09	6.90	0.002
				06/01/09	3.40	0.016
				05/26/09	6.86	0.005
				05/18/09	1.30	0.004
				05/11/09	2.90	0.007
				05/04/09	4.20	0.021
				04/27/09	4.70	0.004
				04/20/09	3.20	0.005
				04/14/09	9.40	0.039
				04/06/09	3.70	0.004

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****MISSION - JESSE**

10,000 cfm

US Filter

ECIS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	2.20	0.013
06/22/09	5.60	0.011
06/15/09	14.00	0.035
06/08/09	6.00	0.003
06/03/09	2.00	0.011
05/26/09	22.00	0.076
05/18/09	6.00	0.012
05/11/09	5.90	0.012
05/06/09	3.90	0.009
04/27/09	4.20	0.002
04/20/09	2.10	0.004
04/14/09	6.10	0.002
04/06/09	4.20	0.005

**Location**

**Capacity**

**Model**

**System**

**Date**

**Inlet  
H2S (ppm)**

**Outlet  
H2S (ppm)**

**North Outfall Treatment  
Facility**

10,000 cfm

US Filter

WLAIS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)

Unit Disconnected 08/05/08

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****RADFORD - WOODBRIDGE**

5,000 cfm

Barneby

NOS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	1.70	0.014
06/23/09	0.48	0.006
06/15/09	0.85	0.002
06/11/09	1.10	0.004
06/01/09	0.26	0.005
05/26/09	0.36	0.004
05/20/09	0.03	0.002
05/11/09	0.44	0.002
05/04/09	0.06	0.006
04/27/09	0.17	0.002
04/20/09	0.35	0.002
04/14/09	0.31	0.004
04/06/09	0.14	0.002

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****RODEO - MLK**

5,000 cfm

Barneby

Maze

AQMD Allowable Limit: 0.6 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	7.1	0.068
06/24/09	14.0	0.010
06/15/09	14.0	0.040
06/11/09	1.4	0.005
06/01/09	7.1	0.009
05/26/09	25.0	0.038
05/18/09	29.0	0.033
05/11/09	10.5	0.005
05/06/09	7.3	0.030
04/27/09	6.8	0.025
04/20/09	30.0	0.102
04/14/09	4.6	0.008
04/06/09	8.1	0.019

**Location****TRAFFIC ISLAND (Rodeo and Jefferson)**

AQMD Allowable Limit: 1.0 ppm

**Capacity**

10,000 cfm

**Model**

US Filter

**System**

NCOS

**Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
6/30/2009	1.10	0.004
6/22/2009	4.90	0.002
6/15/2009	6.40	0.002
6/11/2009	4.60	0.003
6/1/2009	0.21	0.007
5/26/2009	0.16	0.002
5/18/2009	3.90	0.007
5/11/2009	4.20	0.008
5/4/2009	4.70	0.004
4/27/2009	2.90	0.004
4/20/2009	4.70	0.004
4/14/2009	2.80	0.007
4/6/2009	7.00	0.006

**Location**

**Capacity**

**Model**

**System**

**Date**

**Inlet  
H2S (ppm)**

**Outlet  
H2S (ppm)**

**23RD AND SAN PEDRO**

10,000 cfm

US Filter

ECIS

AQMD Allowable Limit: 1.0 ppm

Date	Inlet H2S (ppm)	Outlet H2S (ppm)

Unit Disconnected 08/04/08

**Location****BALLONA CREEK**

AQMD Allowable: 0.14 ppm

**Capacity**

5,000 cfm

**Model**

Cameron

**System**

Marina

**Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	0.99	0.013
06/24/09	1.20	0.009
06/15/09	0.13	0.008
06/09/09	0.34	0.003
06/01/09	0.39	0.002
05/26/09	0.13	0.003
05/18/09	0.15	0.008
05/11/09	1.08	0.004
05/04/09	0.62	0.002
04/27/09	0.24	0.003
04/20/09	0.36	0.002
04/14/09	0.54	0.009
04/06/09	0.16	0.005

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****Genesee**

AQMD Allowable: 1.0 ppm

5,000 cfm

Barneby

LCSFVRS

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
6/30/09	0.86	0.020
6/22/09	0.62	0.004
6/15/09	0.71	0.007
6/11/09	0.47	0.020
6/1/09	0.20	0.009
5/26/09	0.96	0.002
5/18/09	0.63	0.015
5/11/09	0.26	0.010
5/4/09	0.11	0.009
4/27/09	0.71	0.004
4/20/09	0.65	0.005
4/14/09	0.14	0.004
4/6/09	0.21	0.005

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****Dacotah**

AQMD Allowable: 1.0 ppm

3,000 cfm

US Filter

Pump  
Plant

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	2.30	0.023
06/22/09	0.68	0.009
06/15/09	1.50	0.010
06/08/09	2.60	0.008
06/01/09	1.05	0.019
05/26/09	0.76	0.009
05/18/09	0.73	0.015
05/11/09	0.22	0.017
05/06/09	0.80	0.030
04/27/09	0.47	0.084
04/20/09	1.40	0.170
04/16/09	0.41	0.009
04/06/09	0.11	0.018

**Location****Humboldt**

AQMD Allowable: 1.0 ppm

**Capacity**

10,000 cfm

**Model**

US Filter

**System**

NEIS

**Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
06/30/09	0.03	0.003
06/24/09	0.01	0.011
06/15/09	0.01	0
06/08/09	0.01	0
06/03/09	7.20	0.008
05/26/09	0.00	0
05/18/09	0.01	0
05/11/09	0.00	0.001
05/06/09	0.01	0.008
04/27/09	0.00	0
04/20/09	0.40	0
04/14/09	10.40	0.043
04/06/09	0.01	0.002

**Location****Capacity****Model****System****Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)****NORS**

AQMD Allowable: 1.0 ppm

10,000 cfm

US Filter

NORS/ECIS

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
6/30/2009	12.00	0.050
6/24/2009	23.00	0.033
6/15/2009	4.30	0.009
6/9/2009	6.40	0.009
6/1/2009	6.80	0.007
5/26/2009	5.00	0.004
5/18/2009	3.10	0.002
5/11/2009	5.20	0.002
5/4/2009	2.20	0.008
4/27/2009	2.30	0.004
4/20/2009	2.60	0.002
4/14/2009	16.00	0.034
4/6/2009	3.00	0.003

**Location****Richmond**

AQMD Allowable: 1.0 ppm

**Capacity**

10000 cfm

**Model**

US Filter

**System**

NEIS

**Date****Inlet  
H2S (ppm)****Outlet  
H2S (ppm)**

Date	Inlet H2S (ppm)	Outlet H2S (ppm)
6/24/09	38.000	0.031
6/15/09	6.100	0.018
6/8/09	10.500	0.032
6/3/09	3.200	0.067
5/26/09	6.000	0.070
5/18/09	1.100	0.008
5/11/09	0.440	0.008
5/6/09	2.600	0.009
4/27/09	3.900	0.004
4/20/09	3.500	0.006
4/14/09	3.900	0.015
4/6/09	0.011	0.003