$K = \frac{\Delta H}{\Delta P} = 20.0$

Clovis

RUN NO. Clovis
LOCATION 14ES Wave house
DATE 6/13/05
OPERATOR [illegible]
METER BOX NO. 4206
LOCAL TIME
START/STOP 1125/

STACK DIAMETER 12"
Ym: 0.973
H@: 1.752

0.84
3/8 in.
4 ft.

SAMPLE TRAIN LEAK TEST
BEFORE 15" dc in. ~~H2O~~ Hg
AFTER in. ~~H2O~~ Hg
PITOT TUBE LEAK TEST
BEFORE 4.7" dc AFTER

PAGE of
PROJECT NO. 04-014
PLANT NAME Clovis 3 Post Test
AMBIENT TEMP (F) 77
METER TEMP (F) 60
BAR. PRESS ("Hg) 29.89
STATIC PRESSURE ("H2O) -0.20
ASSUMED MOISTURE (%) <1%
ASSUMED O2 (%) 20.8
ASSUMED CO2 (%) <1
ASSUMED MW (WET, %)
ASSUMED MW (DRY, %)

	POINT	CLOCK TIME	DRY GAS METER (cu. ft.)	VELOCITY dP (in. H2O)	ORIFICE dH (in. H2O) DESIRED	ORIFICE dH (in. H2O) ACTUAL	TEMPERATURES (F) STACK	PROBE	FILTER	~~RESIN~~ Impgr	~~IMPGR~~	PUMP VAC (in. Hg)
0	START	0	691.20	—	—	—	—	—	—	—	—	
1	SW-1	5	695.21	0.09	1.8	1.8	76			56	73	7
2	2	10	699.34	0.10	2.0	2.0	76			56	76	8
3	3	15	703	0.10	2.0	2.0	76			54	74	8
4	4	20	707.65	0.10	2.0	2.0	77			53		8
5	5	25	711.92	0.11	2.2	2.2	77			52		8
6	6	30	716.35	0.11	2.2	2.2	77			52		8
7	7	35	721.00	0.14	2.8	2.8	77			52		11
8	8	40	725.85	0.14	2.8	2.8	79			53		11
9	9	45	731	0.15	3.0	3.0	77			53		11½
10	10	50	735.73	0.15	3.0	3.0	77			53		11½
11	11	55	741.[illegible]	0.16	3.2	3.2	77			53		12
12	12	60	745.86	0.15	3.0	3.0	77			54		12
13	SE- NW	65	750.72	0.17	3.4	3.4	78			54		13
14	NW-2	70	756.00	0.17	3.4	3.4	77			54		13
15	3	75	761.33	0.17	3.4	3.4	78			53		13
16	4	80	766.42	0.16	3.2	3.2	78			54		12
17	5	85	771.4	0.15	3.0	3.0	78			55		11
18	6	90	776.42	0.14	3.0	3.0	78			52		11
19	7	95	781.	0.10	2.0	2.0	78			49		8
20	8	100	785.5	0.10	2.0	2.0	78			49		8
21	9	105	789.5	0.11	2.2	2.2	78			49		8
22	10	11	793.15	0.10	2.0	2.0	79			49		8
23	11	11	798	0.12	2.4	2.4	79			49		
24	12	1	802.06	0.12	2.4	2.4				48		
		Th	110.86	avg √dP: 0.36		avg dH: 2.6	5					

California Air Resources Board
Monitoring & Laboratory Division

Method 425 Recovery Field Data Sheet

Project: Clovis 3
Project #: 04-014

Page: 1 of
Project Lead: D.Todd

Run #: C31	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
Final → pH	10-11	Final (gm) → 107.5	104.0	1166.0	---- 1377.5
Tare (gm)	0	101.6	101.6	1148.8	1352.0
Final (gm)	105.5	Diff → 5.9	2.4	17.2	25.5
pH → Diff (gm)	----	PH-10-11	PH 10-11	PH 10-11	

(31)

Run #: C32	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)		100.3	101.4	1158.7	
Final (gm)					
Diff (gm)	----				

Run #: C33	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH	10-11	10-11	10-11		----
Tare (gm)	0	100.3	101.0	1129.4	1330.7
Final (gm)	134.0	103.5	98.0	1143.0	1344.5
Diff (gm)	----	3.2	-3.0	13.6	13.8

13.8 (C33)

Run #: C32	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH	10-11	10-11	10-11		----
Tare (gm)	0	100.4	100.4	1160.6	1361.40
Final (gm)	133.6	119.7	84.0	1179.1	1382.80
Diff (gm)	----	19.3	-16.4	18.5	21.4

21.4 (C32)

Run #:	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)					
Final (gm)					
Diff (gm)	----				

California Air Resources Board
Monitoring & Laboratory Division

Method 425 Recovery Field Data Sheet

Project: Clovis 3
Project #:

Page: 2 of 2
Project Lead: D.Todd

Run #: C-34	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH		9.0	9.0		----
Tare (gm)	0	101.0	101.7	1143.0	1345.7
Final (gm)	145.8	94.3	105.1	1155.2	1354.6
Diff (gm)	----	-6.7	3.4	~~13.2~~ 12.2	8.9

8.9

Run #:	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)					
Final (gm)					
Diff (gm)	----				

Run #:	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)					
Final (gm)					
Diff (gm)	----				

Run #:	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)					
Final (gm)					
Diff (gm)	----				

Run #:	Container No.1 (Probe Rinse)	Container No. 2 (Impinger 1)	Container No. 3 (Impinger 2)	Silica Gel Cartridge (Weight Only)	Total Stack Moisture, gm
pH					----
Tare (gm)					
Final (gm)					
Diff (gm)	----				

Clovis Specialty Plating Test

wld

	Monday,	Tuesday,	Wednesday,	~~Thursday~~,
	X	5/24	5/25 AM	5/25 PM

Run 31

Totalizer, Amp-hrs

Sampling Start		13094 @ 1325	13480	13789
Dummy Parts End		13425 @ 1505	end 13789	* 14105 end
Sampling Stop		13479 @ 1535	—	
	Total	385 (331 dummies only)	309	316

Tank Parameters

Smoke Tested?		OK	OK	
Freeboard (AM), inches		6¼" - 5" (5 5/8")	6¼" - 5" (5 5/8")	6¼" - 5" (5 5/8")
Bath Temp (AM). °F		106 - 108	110	110
		99 @ Start 106 @ Run		

Comments

Fan Locations? Other facility changes? Etc.

~~C31~~ Fans @ Front window & Middle window - Both Blowing out

C31 → 1400 amps @ 6 volts DC for 2 mins ~~not~~ ~10 min. off.
Before Bath change ~1000 amps @ 6 volts DC

C32 ~2 min plating + ~10 min off.

C33 - Same as C31 & C32