THIRD QUARTERLY AIR QUALITY MONITORING REPORT for the HEWITT PIT LANDFILL

July-September 2005

Facility I.D.: 3530; Sector: PB
Application #343861
7245 Laurel Canyon Boulevard
North Hollywood, CA 91605-3709

Submitted to

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive
Diamond Bar, California 91765

Prepared by

GC ENVIRONMENTAL, INC.
1230 North Jefferson Street, Suite J
Anaheim, California 92807

On behalf of

CALMAT PROPERTIES
3200 San Fernando Road
Los Angeles, California 90065

Project Number 1003-11
October 2005

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
THIRD QUARTER 2005 QUARTERLY MONITORING REPORT
FOR THE
HEWITT PIT LANDFILL

Facility I.D.: 3530; Sector: PB
Application #343861
7245 Laurel Canyon Boulevard
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Prepared for:
CALMAT PROPERTIES
3200 San Fernando Road
Los Angeles, California 90065

Project 1003-11

R. Prosser

Richard Prosser
Principal

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1.0 INTRODUCTION

This Third Quarter Air Quality Monitoring Report has been prepared for the Hewitt Pit Landfill in accordance with the South Coast Air Quality Management District's (SCAQMD) approved Rule 1150.1 Compliance Plan issued on December 17, 1999. The Hewitt Landfill is in compliance with all requirements of the 1150.1 Plan.

The highest methane level in any probe recorded for the period was 0.6% at Probe 9 (ID# 16M of **Attachment 1**) on June 21, 2005, found at the northern property line on **Figure 1**. Probes were monitored weekly during most of the quarter. All probes were below the 5% regulatory limit for methane during the quarter during each monitoring event. Flare emissions destruction efficiency was within permitted limits.

The conditions of the plan and the monitoring results are summarized on the following table. **Figure 1** shows a layout of the landfill.

SUMMARY OF REQUIRED MONITORING, SCHEDULE AND RESULTS

Required Monitoring	Schedule	Results
TOCs in subsurface refuse boundary sampling probes (probes) to be less than 5%.	Monthly (minimum)	There were no TOC exceedances measured in any of the probes. Probe monitoring data is attached to this report as **Attachment 1**. A probe identification table, shown as **Attachment 2**, corresponds to the monitoring probe locations on **Figure 1**. Monitoring was performed weekly for this quarter.
TACs in probes.	Annually 2nd Quarterly Report.	Not required for this quarter.
Integrated surface sampling to be less than 50 ppmv as TOCs.	Annually 2nd Quarterly Report	Not required for this quarter.
Instantaneous surface monitoring to be less than 500 ppmv as TOCs.	Annually 2nd Quarterly Report	Not required for this quarter.
TOCs and TACs in the main gas collection header inlet.	Annually, included with this report.	Laboratory results listed in **Attachment 3**.
Flare source test and destruction of NMOCs as specified in SCAQMD Rule 1150.1 Section (j)(1)(B).	Annually, included with this report.	The annual source test report is attached to this compliance report as **Attachment 4**. The flare destruction efficiency was 97.15%. The NMOC exhaust concentration was 1.9 ppmv hexane at 3% oxygen, well below the 20 ppmv concentration limit.

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Figure 1

PROBE LOCATIONS

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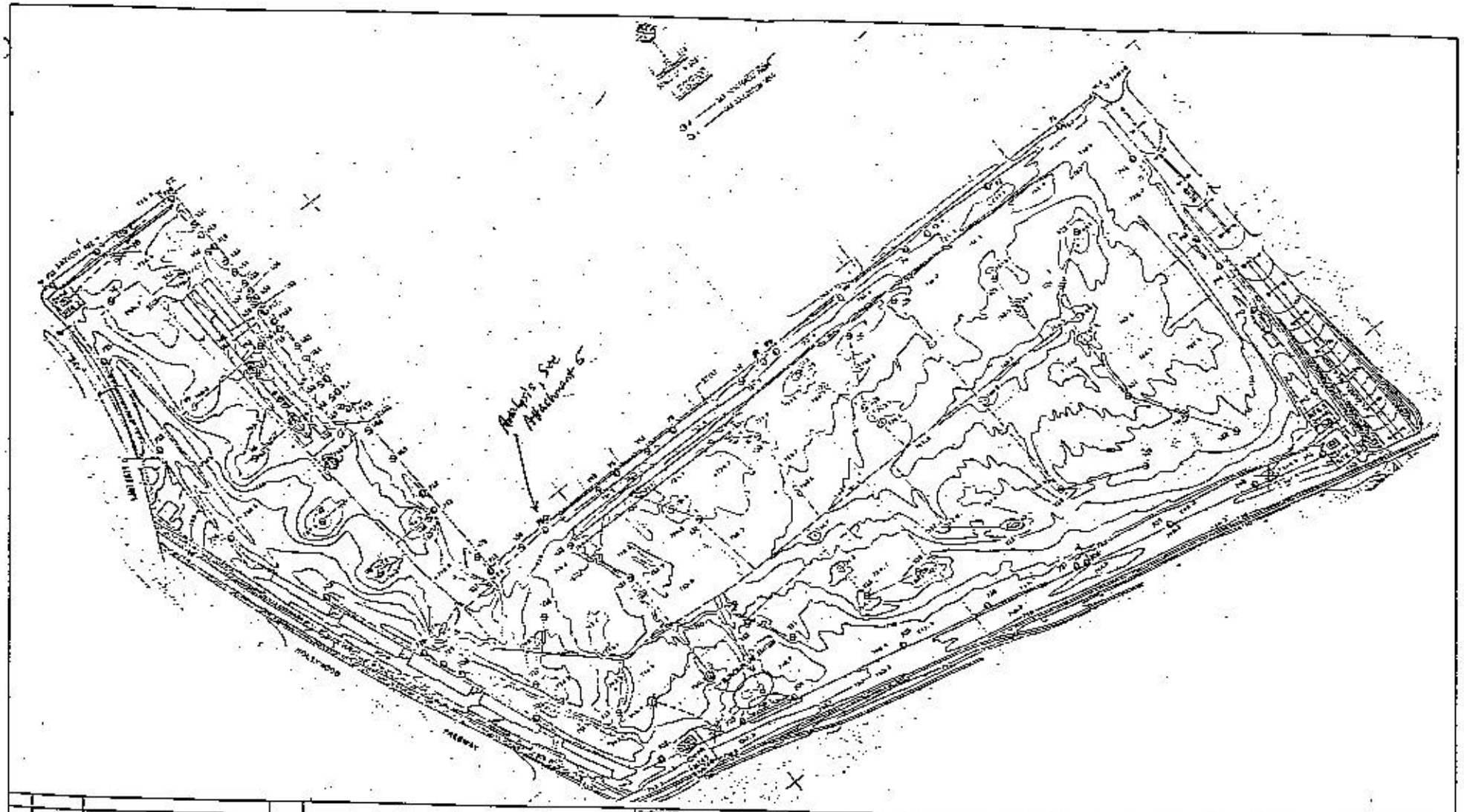

REV.	DATE	DESCRIPTION	BY

ENGINEER: GC ENVIRONMENTAL, INC.
1230 NORTH JEFFERSON ST. SUITE J
ANAHEIM CA. 92807, (714) 632-9060

PROJECT LOCATION: HEWITT PIT LANDFILL
N. HOLLYWOOD, CA

DESCRIPTION: GAS MONITORING PROBE LOCATIONS

PROJECT NO. 1303-1 | REF. DWGS. | FILE NAME

SHEET: FIG. 1

Attachment 1

GAS PROBE

MONITORING DATA

July through September 2005

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Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Field Technicion and Weather Conditions						
Technician	Date	Ambient Temp	Barometric Pressure (in - Hg)	General Weather	Wind Speed	Wind Direction
AdrianG	07/03/2005	69	29.8	Mostly Clear	Light Wind	E
AdrianG	07/05/2005	79	29.8	Clear	Light Wind	SE
AdrianG	07/12/2005	68	29.5	Clear	Light Wind	E
mike	07/19/2005	85	29.6	Clear	Light Wind	E
JVelazquez	07/26/2005	100	29.9	Clear	Light Wind	SW
JVelazquez	08/04/2005	99	29.9	Clear	Light Wind	SW
JVelazquez	08/09/2005	89	29.9	Clear	Light Wind	SW
JVelazquez	08/16/2005	90	29.9	Clear	Light Wind	SW
JVelazquez	08/25/2005	90	29.0	Clear	Light Wind	SW
JVelazquez	08/30/2005	90	29.9	Clear	Light Wind	SW
JVelazquez	09/08/2005	90	29.9	Clear	Light Wind	SW
JVelazquez	09/13/2005	90	29.9	Clear	Light Wind	SW
JVelazquez	09/21/2005	90	29.9	Clear	Light Wind	SW
JVelazquez	09/29/2005	100	29.9	Clear	Light Wind	SW

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
01M	07/05/2005	12:10	0.0	0.9	19.5	79.6	0.0	-
01M	07/12/2005	11:30	0.0	0.3	20.0	79.7	0.0	-
01M	07/19/2005	08:49	0.0	2.0	18.6	79.4	0.0	-
01M	07/26/2005	10:36	0.0	1.4	18.5	80.1	0.0	-
01M	08/04/2005	08:34	0.0	1.5	18.8	79.7	0.0	-
01M	08/09/2005	09:05	0.0	1.6	18.3	80.1	0.0	-
01M	08/16/2005	08:36	0.0	1.7	18.9	79.4	0.0	-
01M	08/25/2005	09:23	0.0	2.0	17.6	80.4	0.0	-
01M	08/30/2005	09:06	0.0	2.3	17.5	80.2	0.0	-
01M	09/08/2005	08:49	0.0	2.0	17.8	80.2	0.0	-
01M	09/13/2005	10:07	0.0	1.9	18.2	79.9	0.0	-
01M	09/21/2005	07:32	0.0	2.1	18.0	79.9	0.0	-
01M	09/29/2005	12:06	0.0	2.0	16.7	81.3	-0.1	-
02M	07/05/2005	12:11	0.0	0.4	20.3	79.3	0.0	-
02M	07/12/2005	11:29	0.0	0.6	20.1	79.3	0.0	-
02M	07/19/2005	08:50	0.0	0.0	20.3	79.7	0.0	-
02M	07/26/2005	10:37	0.0	0.0	19.9	80.1	0.0	-
02M	08/04/2005	08:35	0.0	0.0	20.0	80.0	0.0	-
02M	08/09/2005	09:06	0.0	0.0	19.9	80.1	0.0	-
02M	08/16/2005	08:37	0.0	0.0	20.5	79.5	0.0	-
02M	08/25/2005	09:25	0.0	0.3	18.8	80.9	0.0	-
02M	08/30/2005	09:07	0.0	0.8	18.6	80.6	0.0	-
02M	09/08/2005	08:50	0.0	0.0	19.8	80.2	0.0	-
02M	09/13/2005	10:08	0.0	0.0	19.8	80.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
02M	09/21/2005	07:33	0.0	0.0	19.9	80.1	0.0	-
02M	09/29/2005	12:07	0.0	1.9	16.8	81.3	0.0	-
03M	07/05/2005	12:17	0.0	0.2	20.3	79.5	0.0	-
03M	07/12/2005	11:26	0.0	1.2	19.8	79.0	0.0	-
03M	07/19/2005	08:57	0.0	1.1	19.6	79.3	0.0	-
03M	07/26/2005	10:40	0.0	0.6	19.3	80.1	0.0	-
03M	08/04/2005	08:38	0.0	0.4	19.9	79.7	0.0	-
03M	08/09/2005	09:11	0.0	0.0	19.8	80.2	0.0	-
03M	08/16/2005	08:40	0.0	0.1	20.3	79.6	0.0	-
03M	08/25/2005	09:27	0.0	0.8	19.2	80.0	0.0	-
03M	08/30/2005	09:10	0.0	1.4	18.9	79.7	0.0	-
03M	09/08/2005	08:53	0.0	0.6	19.3	80.1	0.0	-
03M	09/13/2005	09:23	0.0	0.4	19.8	79.8	0.0	-
03M	09/21/2005	07:38	0.0	1.1	18.8	80.1	0.0	-
03M	09/29/2005	11:56	0.0	2.9	15.6	81.5	0.0	-
04M	07/05/2005	12:18	0.0	0.1	20.6	79.3	0.0	-
04M	07/12/2005	11:25	0.0	2.1	19.5	78.4	0.0	-
04M	07/19/2005	08:58	0.0	0.6	20.0	79.4	0.0	-
04M	07/26/2005	10:41	0.0	0.4	19.7	79.9	0.0	-
04M	08/04/2005	08:39	0.0	0.9	19.4	79.7	0.0	-
04M	08/09/2005	09:12	0.0	0.4	19.4	80.2	0.0	-
04M	08/16/2005	08:41	0.0	0.8	19.8	79.4	0.0	-
04M	08/25/2005	09:29	0.0	2.1	18.0	79.9	0.0	-
04M	08/30/2005	09:12	0.0	4.7	15.0	80.3	0.0	-
04M	09/08/2005	08:54	0.0	1.9	17.9	80.2	0.0	-
04M	09/13/2005	09:24	0.0	1.2	19.1	79.7	0.0	-
04M	09/21/2005	07:40	0.0	3.0	16.6	80.4	0.0	-
04M	09/29/2005	11:57	0.0	5.0	13.2	81.8	0.0	-
05M	07/05/2005	12:21	0.3	7.7	11.7	80.3	0.0	-
05M	07/12/2005	11:22	0.0	2.3	14.8	82.9	0.0	-
05M	07/19/2005	09:01	0.0	0.1	20.5	79.4	0.0	-
05M	07/26/2005	10:44	0.0	4.2	15.0	80.8	0.0	-
05M	08/04/2005	08:42	0.0	3.5	16.7	79.8	0.0	-
05M	08/09/2005	09:18	0.0	3.1	16.8	80.1	0.0	-
05M	08/16/2005	08:43	0.0	4.2	16.2	79.6	0.0	-
05M	08/25/2005	09:32	0.0	5.3	14.2	80.5	0.0	-
05M	08/30/2005	09:14	0.0	5.4	14.3	80.3	0.0	-
05M	09/08/2005	08:57	0.0	4.8	15.0	80.2	0.0	-
05M	09/13/2005	09:20	0.0	4.5	15.8	79.7	0.0	-
05M	09/21/2005	07:44	0.0	6.3	13.8	79.9	0.0	-
05M	09/29/2005	11:52	0.4	10.9	8.7	80.0	0.0	-
06M	07/05/2005	12:25	0.5	2.6	15.7	81.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
06M	07/12/2005	11:17	0.0	0.1	20.3	79.6	0.0	-
06M	07/19/2005	09:03	0.0	1.5	19.2	79.3	0.0	-
06M	07/26/2005	10:46	0.0	0.8	19.2	80.0	0.0	-
06M	08/04/2005	08:43	0.0	0.6	19.4	80.0	0.0	-
06M	08/09/2005	09:15	0.0	0.3	19.4	80.3	0.0	-
06M	08/16/2005	08:45	0.0	0.5	19.8	79.7	0.0	-
06M	08/25/2005	09:33	0.0	2.2	17.2	80.6	0.0	-
06M	08/30/2005	09:16	0.0	0.1	19.7	80.2	0.0	-
06M	09/08/2005	08:58	0.0	0.0	19.8	80.2	0.0	-
06M	09/13/2005	09:17	0.0	0.0	20.1	79.9	0.0	-
06M	09/21/2005	07:46	0.0	0.1	19.8	80.1	0.0	-
06M	09/29/2005	11:50	0.0	0.6	18.2	81.2	0.0	-
07M	07/05/2005	12:27	0.0	0.8	19.7	79.5	0.0	-
07M	07/12/2005	11:16	0.0	0.2	20.1	79.7	0.0	-
07M	07/19/2005	09:04	0.0	1.6	19.0	79.4	0.0	-
07M	07/26/2005	10:47	0.0	0.2	19.8	80.0	0.0	-
07M	08/04/2005	08:44	0.0	0.3	19.9	79.8	0.0	-
07M	08/09/2005	09:16	0.0	0.2	19.8	80.0	0.0	-
07M	08/16/2005	08:46	0.0	0.0	20.5	79.5	0.0	-
07M	08/25/2005	09:34	0.0	0.0	19.8	80.2	0.0	-
07M	08/30/2005	09:18	0.0	2.2	17.2	80.6	0.0	-
07M	09/08/2005	09:00	0.0	0.1	20.0	79.9	0.0	-
07M	09/13/2005	09:18	0.0	0.0	20.1	79.9	0.0	-
07M	09/21/2005	07:48	0.0	1.6	18.3	80.1	0.0	-
07M	09/29/2005	11:49	0.0	0.8	17.9	81.3	0.0	-
08M	07/05/2005	12:30	0.0	0.3	20.4	79.3	0.0	-
08M	07/12/2005	11:13	0.0	0.3	20.1	79.6	0.0	-
08M	07/19/2005	09:07	0.0	0.0	20.4	79.6	0.0	-
08M	07/26/2005	10:50	0.0	0.2	19.7	80.1	0.0	-
08M	08/04/2005	08:47	0.0	0.0	20.1	79.9	0.0	-
08M	08/09/2005	09:22	0.0	0.0	19.8	80.2	0.0	-
08M	08/16/2005	08:48	0.0	0.0	20.4	79.6	0.0	-
08M	08/25/2005	09:37	0.0	0.0	19.9	80.1	0.0	-
08M	08/30/2005	09:21	0.0	0.0	19.9	80.1	0.0	-
08M	09/08/2005	09:03	0.0	0.0	20.0	80.0	0.0	-
08M	09/13/2005	09:13	0.0	0.0	20.0	80.0	0.0	-
08M	09/21/2005	07:54	0.0	3.1	16.5	80.4	0.0	-
08M	09/29/2005	07:55	0.0	0.0	19.9	80.1	0.0	-
09M	07/05/2005	12:32	0.0	0.5	19.6	79.9	0.0	-
09M	07/12/2005	11:12	0.0	0.7	19.8	79.5	0.0	-
09M	07/19/2005	09:08	0.0	4.1	14.8	81.1	0.0	-
09M	07/26/2005	10:51	0.0	0.8	19.2	80.0	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
09M	08/04/2005	08:48	0.0	0.3	20.0	79.7	0.0	-
09M	08/09/2005	09:23	0.0	1.0	19.3	79.7	0.0	-
09M	08/16/2005	08:49	0.0	0.0	20.4	79.6	0.0	-
09M	08/25/2005	09:38	0.0	0.0	19.9	80.1	0.0	-
09M	08/30/2005	09:22	0.0	5.6	13.6	80.8	0.0	-
09M	09/08/2005	09:04	0.0	0.0	20.0	80.0	0.0	-
09M	09/13/2005	09:14	0.0	0.0	20.1	79.9	0.0	-
09M	09/21/2005	07:55	0.0	3.1	16.9	80.0	0.0	-
09M	09/29/2005	07:56	0.0	1.2	18.0	80.8	0.0	-
10M	07/05/2005	12:34	0.0	1.2	15.7	83.1	0.0	-
10M	07/12/2005	11:09	0.0	0.8	14.2	85.0	0.0	-
10M	07/19/2005	09:12	0.0	2.4	17.3	80.3	0.0	-
10M	07/26/2005	10:53	0.0	1.0	17.4	81.6	0.0	-
10M	08/04/2005	08:50	0.0	0.0	20.0	80.0	0.0	-
10M	08/09/2005	09:31	0.0	1.1	17.7	81.2	0.0	-
10M	08/16/2005	08:51	0.0	0.8	19.0	80.2	0.0	-
10M	08/25/2005	09:40	0.0	0.3	19.3	80.4	0.0	-
10M	08/30/2005	09:25	0.0	0.1	19.6	80.3	0.0	-
10M	09/08/2005	09:06	0.0	1.0	17.7	81.3	0.0	-
10M	09/13/2005	09:08	0.0	1.8	18.1	80.1	0.0	-
10M	09/21/2005	07:59	0.0	1.8	15.7	82.5	0.0	-
10M	09/29/2005	07:59	0.0	1.7	17.4	80.9	0.0	-
11M	07/05/2005	12:36	0.0	1.0	15.6	83.4	0.0	-
11M	07/12/2005	11:08	0.0	0.6	15.6	83.8	-0.1	-
11M	07/19/2005	09:13	0.0	1.0	15.5	83.5	0.0	-
11M	07/26/2005	10:54	0.0	0.4	17.7	81.9	0.0	-
11M	08/04/2005	08:51	0.0	0.0	20.1	79.9	0.0	-
11M	08/09/2005	09:32	0.0	0.3	18.9	80.8	0.0	-
11M	08/16/2005	08:52	0.0	0.2	19.9	79.9	0.0	-
11M	08/25/2005	09:41	0.0	0.4	19.1	80.5	0.0	-
11M	08/30/2005	09:26	0.0	0.3	19.4	80.3	0.0	-
11M	09/08/2005	09:08	0.0	0.2	19.7	80.1	0.0	-
11M	09/13/2005	09:09	0.0	0.1	19.7	80.2	0.0	-
11M	09/21/2005	08:00	0.0	0.4	19.1	80.5	0.0	-
11M	09/29/2005	08:00	0.0	0.9	17.4	81.7	0.0	-
12M	07/05/2005	12:37	0.0	2.0	17.4	80.6	0.0	-
12M	07/12/2005	11:07	0.0	0.1	17.9	82.0	-0.1	-
12M	07/19/2005	09:14	0.0	3.9	15.2	80.9	0.0	-
12M	07/26/2005	10:57	0.0	4.1	14.8	81.1	0.0	-
12M	08/04/2005	08:53	0.0	2.7	17.5	79.8	0.0	-
12M	08/09/2005	09:33	0.0	2.7	16.8	80.5	0.0	-
12M	08/16/2005	08:53	0.0	2.5	17.7	79.8	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
12M	08/25/2005	09:43	0.0	4.6	14.2	81.2	0.0	-
12M	08/30/2005	09:29	0.0	6.3	12.3	81.4	0.0	-
12M	09/08/2005	09:09	0.0	3.8	15.9	80.3	0.0	-
12M	09/13/2005	09:10	0.0	3.1	17.2	79.7	0.0	-
12M	09/21/2005	08:02	0.0	3.4	16.5	80.1	0.0	-
12M	09/29/2005	08:01	0.0	5.8	13.6	80.6	0.0	-
13M	07/05/2005	12:40	0.0	2.4	16.7	80.9	0.0	-
13M	07/12/2005	11:05	0.0	0.0	20.3	79.7	0.0	-
13M	07/19/2005	09:16	0.0	3.8	16.0	80.2	0.0	-
13M	07/26/2005	10:59	0.0	3.2	15.9	80.9	0.0	-
13M	08/04/2005	08:54	0.0	0.0	20.0	80.0	0.0	-
13M	08/09/2005	09:35	0.0	4.8	14.3	80.9	0.0	-
13M	08/16/2005	08:55	0.0	4.9	15.1	80.0	0.0	-
13M	08/25/2005	09:44	0.0	5.4	13.3	81.3	0.0	-
13M	08/30/2005	09:31	0.0	5.9	13.0	81.1	0.0	-
13M	09/08/2005	09:11	0.0	3.1	16.8	80.1	0.0	-
13M	09/13/2005	09:05	0.0	3.8	16.5	79.7	0.0	-
13M	09/21/2005	08:03	0.0	5.1	14.5	80.4	0.0	-
13M	09/29/2005	08:03	0.0	3.1	16.5	80.4	0.0	-
14M	07/05/2005	12:41	0.0	1.3	19.9	78.8	0.0	-
14M	07/12/2005	11:04	0.0	0.0	20.3	79.7	0.0	-
14M	07/19/2005	09:17	0.0	0.0	20.4	79.6	0.0	-
14M	07/26/2005	11:00	0.0	0.0	19.8	80.2	0.0	-
14M	08/04/2005	08:55	0.0	0.0	20.1	79.9	0.0	-
14M	08/09/2005	09:36	0.0	0.3	19.4	80.3	0.0	-
14M	08/16/2005	08:56	0.0	0.0	20.4	79.6	0.0	-
14M	08/25/2005	09:45	0.0	0.0	19.8	80.2	0.0	-
14M	08/30/2005	09:33	0.0	0.0	19.7	80.3	0.0	-
14M	09/08/2005	09:13	0.0	2.7	16.7	80.6	0.0	-
14M	09/13/2005	09:06	0.0	0.0	19.9	80.1	0.0	-
14M	09/21/2005	08:04	0.0	0.0	19.8	80.2	0.0	-
14M	09/29/2005	08:05	0.0	0.0	19.9	80.1	0.0	-
15M	07/05/2005	12:45	0.0	0.2	20.2	79.6	0.0	-
15M	07/12/2005	11:01	0.0	0.0	19.3	80.7	0.0	-
15M	07/19/2005	09:20	0.0	1.0	19.6	79.4	0.0	-
15M	07/26/2005	11:02	0.0	0.8	19.3	79.9	0.0	-
15M	08/04/2005	08:59	0.0	1.3	19.2	79.5	0.0	-
15M	08/09/2005	09:57	0.0	0.6	18.8	80.6	0.0	-
15M	08/16/2005	08:58	0.0	1.4	19.0	79.6	0.0	-
15M	08/25/2005	09:48	0.0	1.5	17.8	80.7	0.0	-
15M	08/30/2005	09:36	0.0	1.9	17.5	80.6	0.0	-
15M	09/08/2005	09:14	0.0	0.6	19.4	80.0	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
15M	09/13/2005	09:03	0.0	0.4	19.9	79.7	0.0	-
15M	09/21/2005	08:08	0.0	1.5	18.5	80.0	0.0	-
15M	09/29/2005	08:11	0.0	0.6	19.5	79.9	0.0	-
16M	07/05/2005	12:48	0.6	2.7	15.4	81.3	-0.2	-
16M	07/12/2005	10:59	0.0	0.0	20.2	79.8	-0.1	-
16M	07/19/2005	09:22	0.0	0.0	20.4	79.6	0.0	-
16M	07/26/2005	11:05	0.0	0.6	19.2	80.2	0.0	-
16M	08/04/2005	09:01	0.0	0.0	20.1	79.9	0.0	-
16M	08/09/2005	10:00	0.0	0.0	19.7	80.3	0.0	-
16M	08/16/2005	09:00	0.0	0.0	20.4	79.6	0.0	-
16M	08/25/2005	09:50	0.0	0.0	19.9	80.1	0.0	-
16M	08/30/2005	09:39	0.0	0.0	19.8	80.2	0.0	-
16M	09/08/2005	09:17	0.0	0.0	20.0	80.0	0.0	-
16M	09/13/2005	09:01	0.0	0.0	20.2	79.8	0.0	-
16M	09/21/2005	08:11	0.0	0.0	19.9	80.1	0.0	-
17M	07/05/2005	12:51	0.0	0.7	20.2	79.1	0.0	-
17M	07/12/2005	10:57	0.0	0.0	20.2	79.8	0.0	-
17M	07/19/2005	09:25	0.0	0.4	20.2	79.4	0.0	-
17M	07/26/2005	11:07	0.0	0.1	19.7	80.2	0.0	-
17M	08/04/2005	09:04	0.0	0.0	20.1	79.9	0.0	-
17M	08/09/2005	10:03	0.0	0.2	19.5	80.3	0.0	-
17M	08/16/2005	09:02	0.0	0.2	20.3	79.5	0.0	-
17M	08/25/2005	09:53	0.0	0.3	19.5	80.2	0.0	-
17M	08/30/2005	09:42	0.0	0.1	19.7	80.2	0.0	-
17M	08/30/2005	09:42	0.0	0.1	19.7	80.2	0.0	-
17M	09/08/2005	09:20	0.0	0.1	20.0	79.9	0.0	-
17M	09/13/2005	08:58	0.0	0.1	20.2	79.7	0.0	-
17M	09/21/2005	08:14	0.0	0.3	19.8	79.9	0.0	-
17M	09/29/2005	08:17	0.0	0.0	20.1	79.9	0.0	-
18M	07/05/2005	12:52	0.0	0.3	20.1	79.6	0.0	-
18M	07/12/2005	10:55	0.0	0.0	20.1	79.9	0.0	-
18M	07/19/2005	11:05	0.0	0.4	19.9	79.7	0.0	-
18M	07/26/2005	11:09	0.0	0.2	19.7	80.1	0.0	-
18M	08/04/2005	09:06	0.0	0.1	20.0	79.9	0.0	-
18M	08/09/2005	10:05	0.0	0.0	19.7	80.3	0.0	-
18M	08/16/2005	09:04	0.0	0.2	20.3	79.5	0.0	-
18M	08/25/2005	09:54	0.0	0.2	19.7	80.1	0.0	-
18M	08/30/2005	09:43	0.0	0.3	19.5	80.2	0.0	-
18M	09/08/2005	09:22	0.0	0.1	20.0	79.9	0.0	-
18M	09/13/2005	08:59	0.0	0.1	20.1	79.8	0.0	-
18M	09/21/2005	08:15	0.0	0.2	19.8	80.0	0.0	-
18M	09/29/2005	08:19	0.0	0.2	19.9	79.9	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
19M	07/05/2005	12:55	0.0	0.2	20.4	79.4	0.0	-
19M	07/12/2005	10:53	0.0	0.0	20.1	79.9	0.0	-
19M	07/19/2005	09:28	0.0	0.0	20.5	79.5	0.0	-
19M	07/26/2005	11:11	0.0	0.0	20.0	80.0	0.0	-
19M	08/04/2005	09:10	0.0	0.0	20.1	79.9	0.0	-
19M	08/09/2005	10:07	0.0	0.0	19.8	80.2	0.0	-
19M	08/16/2005	09:05	0.0	0.0	20.5	79.5	0.0	-
19M	08/25/2005	09:57	0.0	0.0	19.9	80.1	0.0	-
19M	08/30/2005	09:46	0.0	0.0	20.0	80.0	0.0	-
19M	09/08/2005	09:25	0.0	0.0	20.1	79.9	0.0	-
19M	09/13/2005	08:56	0.0	0.0	20.2	79.8	0.0	-
19M	09/21/2005	08:20	0.0	0.0	20.0	80.0	0.0	-
19M	09/29/2005	08:21	0.0	0.0	20.1	79.9	0.0	-
20M	07/05/2005	12:58	0.0	0.1	20.4	79.5	0.0	-
20M	07/12/2005	10:51	0.0	0.0	20.2	79.8	0.0	-
20M	07/19/2005	09:30	0.0	0.0	20.5	79.5	0.0	-
20M	07/26/2005	11:14	0.0	0.0	20.0	80.0	0.0	-
20M	08/04/2005	09:36	0.0	0.0	20.1	79.9	0.0	-
20M	08/09/2005	10:11	0.0	0.0	19.8	80.2	0.0	-
20M	08/16/2005	09:07	0.0	0.0	20.4	79.6	0.0	-
20M	08/25/2005	10:00	0.0	0.0	19.9	80.1	0.0	-
20M	08/30/2005	09:50	0.0	0.0	20.0	80.0	0.0	-
20M	09/08/2005	09:27	0.0	0.0	20.1	79.9	0.0	-
20M	09/13/2005	08:54	0.0	0.0	20.2	79.8	0.0	-
20M	09/21/2005	08:22	0.0	0.0	19.9	80.1	0.0	-
20M	09/29/2005	08:24	0.0	0.0	20.1	79.9	0.0	-
21M	07/05/2005	13:00	0.0	0.0	20.3	79.7	0.0	-
21M	07/12/2005	10:49	0.0	0.0	20.2	79.8	0.0	-
21M	07/19/2005	09:32	0.0	0.0	20.5	79.5	0.0	-
21M	07/26/2005	11:16	0.0	0.8	18.8	80.4	0.0	-
21M	08/04/2005	09:38	0.0	0.0	20.2	79.8	0.0	-
21M	08/09/2005	10:13	0.0	0.0	19.8	80.2	0.0	-
21M	08/16/2005	09:09	0.0	0.0	20.5	79.5	0.0	-
21M	08/25/2005	10:02	0.0	0.0	19.9	80.1	0.0	-
21M	08/30/2005	09:51	0.0	0.0	20.0	80.0	0.0	-
21M	09/08/2005	09:53	0.0	0.0	20.1	79.9	0.0	-
21M	09/13/2005	08:52	0.0	0.0	20.3	79.7	0.0	-
21M	09/21/2005	08:25	0.0	0.0	19.9	80.1	0.0	-
21M	09/29/2005	08:26	0.0	0.0	20.1	79.9	0.0	-
22M	07/05/2005	13:01	0.0	0.0	20.4	79.6	0.0	-
22M	07/12/2005	10:48	0.0	0.0	20.0	80.0	0.0	-
22M	07/19/2005	09:33	0.0	0.0	20.4	79.6	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
22M	07/26/2005	11:18	0.0	1.7	17.9	80.4	0.0	-
22M	08/04/2005	09:40	0.0	0.5	19.6	79.9	0.0	-
22M	08/09/2005	10:16	0.0	0.0	19.8	80.2	0.0	-
22M	08/16/2005	09:11	0.0	0.0	20.4	79.6	0.0	-
22M	08/25/2005	10:03	0.0	0.0	19.9	80.1	0.0	-
22M	08/30/2005	09:54	0.0	0.0	19.9	80.1	0.0	-
22M	09/21/2005	08:27	0.0	0.0	20.0	80.0	0.0	-
22M	09/29/2005	08:28	0.0	0.0	20.1	79.9	0.0	-
23M	07/05/2005	13:03	0.0	0.0	19.9	80.1	0.0	-
23M	07/12/2005	10:46	0.0	0.0	20.1	79.9	0.0	-
23M	07/19/2005	09:35	0.0	0.7	19.9	79.4	0.0	-
23M	07/26/2005	11:20	0.0	2.0	17.5	80.5	0.0	-
23M	08/04/2005	09:42	0.0	0.0	20.1	79.9	0.0	-
23M	08/09/2005	10:18	0.0	0.0	19.8	80.2	0.0	-
23M	08/16/2005	09:13	0.0	0.0	20.5	79.5	0.0	-
23M	08/25/2005	10:06	0.0	0.5	19.3	80.2	0.0	-
23M	08/30/2005	09:56	0.0	0.0	19.9	80.1	0.0	-
23M	09/08/2005	09:55	0.0	0.0	20.1	79.9	0.0	-
23M	09/13/2005	08:50	0.0	0.0	20.3	79.7	0.0	-
23M	09/21/2005	08:30	0.0	0.0	19.9	80.1	0.0	-
23M	09/29/2005	08:30	0.0	0.0	20.0	80.0	0.0	-
24M	07/05/2005	13:05	0.0	0.0	20.3	79.7	0.0	-
24M	07/12/2005	10:45	0.0	0.0	20.1	79.9	0.0	-
24M	07/19/2005	09:36	0.0	0.0	20.4	79.6	0.0	-
24M	07/26/2005	11:22	0.0	0.0	19.8	80.2	0.0	-
24M	08/04/2005	09:44	0.0	0.0	20.2	79.8	0.0	-
24M	08/09/2005	10:21	0.0	0.0	19.8	80.2	0.0	-
24M	08/09/2005	10:22	0.0	0.0	19.8	80.2	0.0	-
24M	08/16/2005	09:14	0.0	0.0	20.5	79.5	0.0	-
24M	08/25/2005	10:07	0.0	0.0	19.9	80.1	0.0	-
24M	08/30/2005	09:57	0.0	0.0	20.0	80.0	0.0	-
24M	09/08/2005	09:56	0.0	0.0	20.1	79.9	0.0	-
24M	09/13/2005	08:47	0.0	0.0	20.2	79.8	0.0	-
24M	09/21/2005	08:32	0.0	0.0	20.0	80.0	0.0	-
24M	09/21/2005	08:32	0.0	0.0	20.0	80.0	0.0	-
24M	09/29/2005	08:32	0.0	0.0	20.0	80.0	0.0	-
25M	07/05/2005	13:06	0.0	0.0	20.1	79.9	0.0	-
25M	07/12/2005	10:44	0.0	0.1	20.1	79.8	0.0	-
25M	07/19/2005	09:37	0.0	0.5	19.9	79.6	0.0	-
25M	07/26/2005	11:23	0.0	0.5	19.2	80.3	0.0	-
25M	08/04/2005	09:45	0.0	0.0	20.2	79.8	0.0	-
25M	08/09/2005	10:23	0.0	0.2	19.3	80.5	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
25M	08/16/2005	09:15	0.0	0.0	20.4	79.6	0.0	-
25M	08/25/2005	10:08	0.0	0.0	19.9	80.1	0.0	-
25M	08/30/2005	09:59	0.0	0.6	19.1	80.3	0.0	-
25M	09/08/2005	09:58	0.0	0.0	20.1	79.9	0.0	-
25M	09/13/2005	08:48	0.0	0.0	20.3	79.7	0.0	-
25M	09/21/2005	08:33	0.0	0.0	20.0	80.0	0.0	-
25M	09/29/2005	08:33	0.0	0.0	20.0	80.0	0.0	-
26M	07/05/2005	13:07	0.0	0.0	20.4	79.6	0.0	-
26M	07/12/2005	10:41	0.0	0.1	20.1	79.8	0.0	-
26M	07/19/2005	09:38	0.0	0.0	20.5	79.5	0.0	-
26M	07/26/2005	11:36	0.0	0.5	19.1	80.4	0.0	-
26M	08/04/2005	09:47	0.0	0.0	20.2	79.8	0.0	-
26M	08/09/2005	10:25	0.0	0.0	19.8	80.2	0.0	-
26M	08/16/2005	09:17	0.0	0.0	20.4	79.6	0.0	-
26M	08/25/2005	10:10	0.0	0.0	19.9	80.1	0.0	-
26M	08/30/2005	10:00	0.0	0.5	19.2	80.3	0.0	-
26M	09/08/2005	10:00	0.0	0.5	19.4	80.1	0.0	-
26M	09/13/2005	08:46	0.0	0.6	19.8	79.6	0.0	-
26M	09/21/2005	08:35	0.0	0.5	19.4	80.1	0.0	-
26M	09/29/2005	08:35	0.0	1.0	19.1	79.9	0.0	-
27M	07/05/2005	13:08	0.0	0.1	20.2	79.7	-130.6	-
27M	07/12/2005	10:40	0.0	0.3	19.7	80.0	-6.0	-
27M	07/19/2005	09:39	0.0	0.0	20.4	79.6	0.0	-
27M	07/26/2005	11:38	0.0	0.0	19.6	80.4	0.0	-
27M	08/04/2005	09:48	0.0	0.0	20.1	79.9	0.0	-
27M	08/09/2005	10:27	0.0	0.1	19.5	80.4	0.0	-
27M	08/16/2005	09:18	0.0	0.0	20.3	79.7	0.0	-
27M	08/25/2005	10:11	0.0	0.0	19.6	80.4	0.0	-
27M	08/30/2005	10:02	0.0	0.1	19.7	80.2	0.0	-
27M	09/08/2005	10:02	0.0	0.0	19.9	80.1	0.0	-
27M	09/13/2005	08:43	0.0	0.0	20.4	79.6	0.0	-
27M	09/21/2005	08:37	0.0	0.0	19.8	80.2	0.0	-
27M	09/29/2005	08:37	0.0	0.0	20.0	80.0	0.0	-
28M	07/05/2005	13:09	0.0	0.3	19.3	80.4	0.0	-
28M	07/12/2005	10:39	0.0	0.1	19.4	80.5	0.0	-
28M	07/19/2005	09:41	0.0	1.1	19.4	79.5	0.0	-
28M	07/26/2005	11:39	0.0	1.2	17.7	81.1	0.0	-
28M	08/04/2005	09:50	0.0	0.4	19.8	79.8	0.0	-
28M	08/09/2005	10:28	0.0	1.3	18.2	80.5	0.0	-
28M	08/16/2005	09:19	0.0	0.0	20.4	79.6	0.0	-
28M	08/25/2005	10:13	0.0	2.1	17.4	80.5	0.0	-
28M	08/30/2005	10:03	0.0	0.8	19.2	80.0	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
28M	09/08/2005	10:03	0.0	0.1	19.9	80.0	0.0	-
28M	09/13/2005	08:44	0.0	0.0	20.3	79.7	0.0	-
28M	09/21/2005	08:38	0.0	3.0	16.8	80.2	0.0	-
28M	09/29/2005	08:38	0.0	1.9	18.1	80.0	0.0	-
29M	07/05/2005	13:11	0.0	0.2	20.3	79.5	0.0	-
29M	07/12/2005	10:38	0.0	0.0	20.3	79.7	0.0	-
29M	07/19/2005	09:43	0.0	0.0	20.5	79.5	0.0	-
29M	07/26/2005	11:41	0.0	0.0	19.7	80.3	0.0	-
29M	08/04/2005	09:51	0.0	0.0	20.1	79.9	0.0	-
29M	08/09/2005	10:30	0.0	0.0	19.7	80.3	0.0	-
29M	08/16/2005	09:20	0.0	0.0	20.4	79.6	0.0	-
29M	08/25/2005	10:14	0.0	0.0	19.9	80.1	0.0	-
29M	08/30/2005	10:05	0.0	0.0	19.9	80.1	0.0	-
29M	09/08/2005	10:04	0.0	0.0	20.0	80.0	0.0	-
29M	09/13/2005	08:40	0.0	0.0	20.4	79.6	0.0	-
29M	09/21/2005	08:39	0.0	0.0	20.0	80.0	0.0	-
29M	09/29/2005	08:39	0.0	0.0	20.0	80.0	0.0	-
30M	07/05/2005	13:12	0.0	0.2	20.2	79.6	0.0	-
30M	07/12/2005	10:37	0.0	0.0	20.2	79.8	-0.1	-
30M	07/19/2005	09:44	0.0	0.0	20.4	79.6	0.0	-
30M	07/26/2005	11:42	0.0	0.0	19.8	80.2	0.0	-
30M	08/04/2005	09:52	0.0	0.0	20.2	79.8	0.0	-
30M	08/09/2005	10:32	0.0	0.0	19.7	80.3	0.0	-
30M	08/16/2005	09:21	0.0	0.0	20.4	79.6	0.0	-
30M	08/25/2005	10:15	0.0	0.0	19.9	80.1	0.0	-
30M	08/30/2005	10:06	0.0	0.0	19.9	80.1	0.0	-
30M	09/08/2005	10:06	0.0	0.0	20.0	80.0	0.0	-
30M	09/13/2005	08:42	0.0	0.0	20.4	79.6	0.0	-
30M	09/21/2005	08:41	0.0	0.0	20.1	79.9	0.0	-
30M	09/29/2005	08:40	0.0	0.0	20.2	79.8	0.0	-
31M	07/05/2005	13:13	0.0	0.3	20.1	79.6	-155.5	-
31M	07/12/2005	10:35	0.0	0.2	20.0	79.8	-4.0	-
31M	07/19/2005	09:45	0.0	0.0	20.5	79.5	0.0	-
31M	07/26/2005	11:44	0.0	0.0	19.7	80.3	0.0	-
31M	08/04/2005	09:54	0.0	0.0	20.2	79.8	0.0	-
31M	08/09/2005	10:34	0.0	0.0	19.6	80.4	0.0	-
31M	08/16/2005	09:23	0.0	0.0	20.5	79.5	0.0	-
31M	08/25/2005	10:16	0.0	0.0	19.8	80.2	0.0	-
31M	08/30/2005	10:08	0.0	0.0	19.9	80.1	0.0	-
31M	09/08/2005	10:07	0.0	0.0	20.0	80.0	0.0	-
31M	09/13/2005	08:39	0.0	0.0	20.4	79.6	0.0	-
31M	09/21/2005	08:42	0.0	0.0	20.1	79.9	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
31M	09/29/2005	08:42	0.0	0.0	20.2	79.8	0.0	-
32M	07/05/2005	13:14	0.0	0.1	20.3	79.6	0.0	-
32M	07/12/2005	10:34	0.0	0.2	20.2	79.6	0.0	-
32M	07/19/2005	09:46	0.0	0.0	20.4	79.6	0.0	-
32M	07/26/2005	11:45	0.0	0.0	19.9	80.1	0.0	-
32M	08/04/2005	09:55	0.0	0.0	20.2	79.8	0.0	-
32M	08/09/2005	10:36	0.0	0.0	19.8	80.2	0.0	-
32M	08/16/2005	09:24	0.0	0.0	20.4	79.6	0.0	-
32M	08/25/2005	10:18	0.0	0.0	19.9	80.1	0.0	-
32M	08/30/2005	10:10	0.0	0.0	19.9	80.1	0.0	-
32M	09/08/2005	10:08	0.0	0.0	20.0	80.0	0.0	-
32M	09/13/2005	08:37	0.0	0.0	20.4	79.6	0.0	-
32M	09/21/2005	08:44	0.0	0.0	20.1	79.9	0.0	-
32M	09/29/2005	08:45	0.0	0.0	20.2	79.8	0.0	-
33M	07/05/2005	13:15	0.0	0.2	19.3	80.5	0.0	-
33M	07/12/2005	10:33	0.0	0.3	20.2	79.5	0.0	-
33M	07/19/2005	09:48	0.0	0.0	20.4	79.6	0.0	-
33M	07/26/2005	11:46	0.0	1.0	18.5	80.5	0.0	-
33M	08/04/2005	09:56	0.0	0.0	20.2	79.8	0.0	-
33M	08/09/2005	10:37	0.0	0.0	19.9	80.1	0.0	-
33M	08/16/2005	09:26	0.0	0.0	20.5	79.5	0.0	-
33M	08/25/2005	10:19	0.0	0.0	20.0	80.0	0.0	-
33M	08/30/2005	10:11	0.0	0.0	19.9	80.1	0.0	-
33M	09/08/2005	10:09	0.0	0.0	20.0	80.0	0.0	-
33M	09/13/2005	08:38	0.0	0.0	20.4	79.6	0.0	-
33M	09/21/2005	08:45	0.0	0.0	20.1	79.9	0.0	-
33M	09/29/2005	08:46	0.0	0.0	20.1	79.9	0.0	-
34M	07/05/2005	13:18	0.0	0.2	19.7	80.1	0.0	-
34M	07/12/2005	10:32	0.0	0.5	20.1	79.4	0.0	-
34M	07/19/2005	09:49	0.0	0.6	20.1	79.3	0.0	-
34M	07/26/2005	11:48	0.0	0.6	19.0	80.4	0.0	-
34M	08/04/2005	09:58	0.0	0.0	20.2	79.8	0.0	-
34M	08/09/2005	10:39	0.0	0.3	19.4	80.3	0.0	-
34M	08/16/2005	09:27	0.0	0.2	20.3	79.5	0.0	-
34M	08/25/2005	10:20	0.0	0.0	19.9	80.1	0.0	-
34M	08/30/2005	10:13	0.0	0.5	19.2	80.3	0.0	-
34M	09/08/2005	10:10	0.0	0.0	20.0	80.0	0.0	-
34M	09/13/2005	08:33	0.0	0.0	20.3	79.7	0.0	-
34M	09/21/2005	08:48	0.0	0.0	20.1	79.9	0.0	-
34M	09/29/2005	08:47	0.0	0.0	20.2	79.8	0.0	-
35M	07/05/2005	13:19	0.0	0.3	19.6	80.1	0.0	-
35M	07/12/2005	10:31	0.0	0.8	20.0	79.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
35M	07/19/2005	09:50	0.0	0.0	20.5	79.5	0.0	-
35M	07/26/2005	11:49	0.0	1.1	18.5	80.4	0.0	-
35M	08/04/2005	09:59	0.0	0.0	20.2	79.8	0.0	-
35M	08/09/2005	10:40	0.0	0.0	19.8	80.2	0.0	-
35M	08/16/2005	09:28	0.0	0.0	20.4	79.6	0.0	-
35M	08/25/2005	10:22	0.0	0.0	19.9	80.1	0.0	-
35M	08/30/2005	10:14	0.0	0.0	19.9	80.1	0.0	-
35M	09/08/2005	10:11	0.0	0.0	20.0	80.0	0.0	-
35M	09/13/2005	08:34	0.0	0.0	20.4	79.6	0.0	-
35M	09/21/2005	08:50	0.0	0.0	20.1	79.9	0.0	-
35M	09/29/2005	08:48	0.0	0.0	20.2	79.8	0.0	-
36M	07/05/2005	13:21	0.0	1.6	16.5	81.9	0.0	-
36M	07/12/2005	10:29	0.0	0.6	17.6	81.8	0.0	-
36M	07/19/2005	09:52	0.0	1.1	19.6	79.3	0.0	-
36M	07/26/2005	11:51	0.4	1.4	18.5	79.7	0.0	-
36M	08/04/2005	10:01	0.0	2.9	17.7	79.4	0.0	-
36M	08/09/2005	10:42	0.0	2.3	17.7	80.0	0.0	-
36M	08/16/2005	09:30	0.0	0.4	20.1	79.5	0.0	-
36M	08/25/2005	10:23	0.0	0.0	19.9	80.1	0.0	-
36M	08/30/2005	10:15	0.0	0.0	19.9	80.1	0.0	-
36M	09/08/2005	10:13	0.0	2.5	17.1	80.4	0.0	-
36M	09/13/2005	08:32	0.0	0.0	20.4	79.6	0.0	-
36M	09/21/2005	08:51	0.0	1.4	18.7	79.9	0.0	-
36M	09/29/2005	08:50	0.0	2.4	17.3	80.3	0.0	-
37M	07/05/2005	13:22	0.0	1.7	19.9	78.4	0.0	-
37M	07/12/2005	10:28	0.0	0.0	20.3	79.7	0.0	-
37M	07/19/2005	09:53	0.0	0.0	20.4	79.6	0.0	-
37M	07/26/2005	11:52	0.0	0.0	19.8	80.2	0.0	-
37M	08/04/2005	10:02	0.0	0.0	20.2	79.8	0.0	-
37M	08/09/2005	10:43	0.0	0.0	19.8	80.2	0.0	-
37M	08/16/2005	09:31	0.0	0.0	20.4	79.6	0.0	-
37M	08/25/2005	10:24	0.0	0.0	19.9	80.1	0.0	-
37M	08/30/2005	10:16	0.0	0.0	20.0	80.0	0.0	-
37M	09/08/2005	10:15	0.0	0.0	20.0	80.0	0.0	-
37M	09/13/2005	08:31	0.0	0.0	20.4	79.6	0.0	-
37M	09/21/2005	08:54	0.0	0.0	20.1	79.9	0.0	-
37M	09/29/2005	08:52	0.0	0.0	20.2	79.8	0.0	-
38M	07/05/2005	13:23	0.0	0.8	19.7	79.5	0.0	-
38M	07/12/2005	10:26	0.0	0.0	20.3	79.7	0.0	-
38M	07/19/2005	09:54	0.0	0.0	20.4	79.6	0.0	-
38M	07/26/2005	11:53	0.0	2.2	15.9	81.9	0.0	-
38M	08/04/2005	10:03	0.0	0.0	20.2	79.8	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
38M	08/09/2005	10:45	0.0	0.0	19.8	80.2	0.0	-
38M	08/16/2005	09:32	0.0	0.0	20.5	79.5	0.0	-
38M	08/25/2005	10:25	0.0	0.0	19.9	80.1	0.0	-
38M	08/30/2005	10:17	0.0	0.0	19.9	80.1	0.0	-
38M	09/08/2005	10:16	0.0	0.0	20.0	80.0	0.0	-
38M	09/13/2005	08:29	0.0	0.0	20.4	79.6	0.0	-
38M	09/21/2005	08:56	0.0	0.0	20.1	79.9	0.0	-
38M	09/29/2005	08:53	0.0	0.0	20.2	79.8	0.0	-
39M	07/05/2005	13:24	0.0	0.4	20.3	79.3	0.0	-
39M	07/12/2005	10:25	0.0	0.1	20.1	79.8	0.0	-
39M	07/19/2005	09:55	0.0	0.0	20.5	79.5	0.0	-
39M	07/26/2005	11:55	0.0	0.0	19.6	80.4	0.0	-
39M	08/04/2005	10:05	0.0	0.0	20.1	79.9	0.0	-
39M	08/09/2005	10:46	0.0	0.0	19.8	80.2	0.0	-
39M	08/16/2005	09:34	0.0	0.3	20.1	79.6	0.0	-
39M	08/25/2005	10:27	0.0	0.3	19.5	80.2	0.0	-
39M	08/30/2005	10:18	0.0	0.4	19.6	80.0	0.0	-
39M	09/08/2005	10:17	0.0	0.2	19.9	79.9	0.0	-
39M	09/13/2005	08:28	0.0	0.1	20.3	79.6	0.0	-
39M	09/21/2005	08:57	0.0	0.5	19.6	79.9	0.0	-
39M	09/29/2005	08:54	0.0	0.6	19.2	80.2	0.0	-
40M	07/05/2005	13:26	0.0	0.4	20.0	79.6	-51.8	-
40M	07/12/2005	10:24	0.0	0.2	20.1	79.7	0.0	-
40M	07/19/2005	09:56	0.0	0.0	20.5	79.5	0.0	-
40M	07/26/2005	11:56	0.0	0.4	19.2	80.4	0.0	-
40M	08/04/2005	10:06	0.0	0.4	19.9	79.7	0.0	-
40M	08/09/2005	10:48	0.0	0.5	19.4	80.1	0.0	-
40M	08/16/2005	09:35	0.0	0.5	20.1	79.4	0.0	-
40M	08/25/2005	10:28	0.0	0.4	19.5	80.1	0.0	-
40M	08/30/2005	10:20	0.0	0.4	19.6	80.0	0.0	-
40M	09/08/2005	10:18	0.0	0.3	19.8	79.9	0.0	-
40M	09/13/2005	08:27	0.0	0.3	20.1	79.6	0.0	-
40M	09/21/2005	08:59	0.0	0.3	19.8	79.9	0.0	-
40M	09/29/2005	08:56	0.0	0.2	19.9	79.9	0.0	-
41M	07/05/2005	13:27	0.0	0.6	19.1	80.3	0.0	-
41M	07/12/2005	10:22	0.0	0.3	20.1	79.6	0.0	-
41M	07/19/2005	09:57	0.0	1.0	19.6	79.4	0.0	-
41M	07/26/2005	11:57	0.0	1.1	18.4	80.5	0.1	-
41M	08/04/2005	10:07	0.0	0.0	20.2	79.8	0.0	-
41M	08/09/2005	10:49	0.0	0.2	19.5	80.3	0.0	-
41M	08/16/2005	09:36	0.0	0.0	20.4	79.6	0.0	-
41M	08/25/2005	10:30	0.0	0.0	19.9	80.1	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
41M	08/30/2005	10:21	0.0	0.0	19.9	80.1	0.0	-
41M	09/08/2005	10:20	0.0	0.2	19.8	80.0	0.0	-
41M	09/13/2005	08:24	0.0	0.0	20.4	79.6	0.0	-
41M	09/21/2005	09:00	0.0	0.0	20.1	79.9	0.0	-
41M	09/29/2005	08:57	0.0	0.0	20.2	79.8	0.0	-
42M	07/05/2005	13:28	0.0	0.9	18.3	80.8	0.0	-
42M	07/12/2005	10:21	0.0	0.5	20.1	79.4	0.0	-
42M	07/19/2005	09:58	0.0	0.8	19.7	79.5	0.0	-
42M	07/26/2005	11:59	0.0	3.2	15.1	81.7	0.0	-
42M	08/04/2005	10:09	0.0	0.0	20.2	79.8	0.0	-
42M	08/16/2005	09:37	0.0	0.0	20.4	79.6	0.0	-
42M	08/25/2005	10:31	0.0	0.0	19.9	80.1	0.0	-
42M	08/30/2005	10:22	0.0	0.0	19.9	80.1	0.0	-
42M	09/08/2005	10:21	0.0	0.4	19.5	80.1	0.0	-
42M	09/13/2005	08:26	0.0	0.0	20.4	79.6	0.0	-
42M	09/21/2005	09:01	0.0	0.0	20.1	79.9	0.0	-
42M	09/29/2005	08:58	0.0	0.0	20.2	79.8	0.0	-
43M	07/05/2005	13:30	0.0	1.1	18.5	80.4	0.0	-
43M	07/12/2005	10:19	0.0	0.7	19.6	79.7	0.1	-
43M	07/19/2005	09:59	0.0	1.7	18.3	80.0	0.0	-
43M	07/26/2005	12:00	0.0	1.2	18.4	80.4	0.0	-
43M	08/04/2005	10:11	0.0	0.0	20.1	79.9	0.0	-
43M	08/09/2005	10:53	0.0	0.9	19.0	80.1	0.0	-
43M	08/16/2005	09:38	0.0	0.0	20.3	79.7	0.0	-
43M	08/25/2005	10:33	0.0	0.4	19.3	80.3	0.0	-
43M	08/30/2005	10:24	0.0	1.3	18.3	80.4	0.0	-
43M	09/08/2005	10:23	0.0	1.5	18.2	80.3	0.0	-
43M	09/13/2005	08:22	0.0	0.8	19.5	79.7	0.0	-
43M	09/21/2005	09:05	0.0	1.5	18.1	80.4	0.0	-
43M	09/29/2005	09:00	0.0	1.1	18.6	80.3	0.0	-
44M	07/05/2005	13:31	0.0	1.1	18.8	80.1	0.0	-
44M	07/12/2005	10:18	0.0	0.9	20.0	79.1	0.0	-
44M	07/19/2005	10:00	0.0	1.0	19.3	79.7	0.0	-
44M	07/26/2005	12:02	0.0	1.8	17.7	80.5	0.0	-
44M	08/04/2005	10:13	0.0	0.0	20.2	79.8	0.0	-
44M	08/09/2005	10:54	0.0	0.6	19.0	80.4	0.0	-
44M	08/16/2005	09:39	0.0	0.0	20.4	79.6	0.0	-
44M	08/25/2005	10:34	0.0	0.5	19.2	80.3	0.0	-
44M	08/30/2005	10:25	0.0	0.0	19.9	80.1	0.0	-
44M	09/08/2005	10:25	0.0	1.2	18.8	80.0	0.0	-
44M	09/13/2005	08:23	0.0	0.0	20.3	79.7	0.0	-
44M	09/21/2005	09:07	0.0	0.3	19.7	80.0	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
44M	09/29/2005	09:01	0.0	0.0	20.2	79.8	0.0	-
45M	07/05/2005	13:32	0.0	2.0	16.0	82.0	0.0	-
45M	07/12/2005	10:16	0.0	1.0	18.0	81.0	0.0	-
45M	07/19/2005	10:02	0.0	3.2	17.3	79.5	0.0	-
45M	07/26/2005	12:04	0.0	0.0	19.5	80.5	0.0	-
45M	08/04/2005	10:14	0.0	0.0	20.1	79.9	0.0	-
45M	08/09/2005	10:56	0.0	2.5	17.1	80.4	0.0	-
45M	08/16/2005	09:41	0.0	2.2	18.2	79.6	0.0	-
45M	08/25/2005	10:36	0.0	2.1	16.7	81.2	0.0	-
45M	08/30/2005	10:27	0.0	1.5	17.5	81.0	0.0	-
45M	09/08/2005	10:27	0.0	6.4	12.5	81.1	0.0	-
45M	09/13/2005	07:24	0.0	3.7	16.7	79.6	0.0	-
45M	09/21/2005	09:09	0.0	3.5	16.6	79.9	0.0	-
45M	09/29/2005	09:03	0.0	0.8	19.3	79.9	0.0	-
46M	07/05/2005	13:34	0.0	2.5	17.5	80.0	0.1	-
46M	07/12/2005	10:15	0.0	0.6	20.1	79.3	0.0	-
46M	07/19/2005	10:03	0.0	0.0	20.5	79.5	0.0	-
46M	07/26/2005	12:05	0.0	0.0	19.8	80.2	0.0	-
46M	08/04/2005	10:15	0.0	0.0	20.2	79.8	0.0	-
46M	08/09/2005	10:58	0.0	0.0	19.8	80.2	0.0	-
46M	08/16/2005	09:42	0.0	0.0	20.5	79.5	0.0	-
46M	08/25/2005	10:37	0.0	1.5	18.4	80.1	0.0	-
46M	08/30/2005	10:28	0.0	0.0	19.8	80.2	0.0	-
46M	09/08/2005	10:28	0.0	0.0	19.8	80.2	0.0	-
46M	09/13/2005	07:20	0.0	0.0	20.2	79.8	0.0	-
46M	09/21/2005	09:10	0.0	3.6	16.5	79.9	0.0	-
46M	09/29/2005	09:04	0.0	0.0	20.1	79.9	0.0	-
47M	07/05/2005	13:35	0.0	1.4	19.6	79.0	0.0	-
47M	07/12/2005	10:14	0.0	0.9	20.0	79.1	-0.1	-
47M	07/19/2005	10:04	0.0	0.0	20.5	79.5	0.0	-
47M	07/26/2005	12:06	0.0	0.0	19.7	80.3	0.0	-
47M	08/04/2005	10:17	0.0	0.0	20.2	79.8	0.0	-
47M	08/09/2005	10:59	0.0	0.0	19.9	80.1	0.0	-
47M	08/16/2005	09:43	0.0	0.0	20.4	79.6	0.0	-
47M	08/25/2005	10:39	0.0	0.0	19.8	80.2	0.0	-
47M	08/30/2005	10:30	0.0	0.0	19.8	80.2	0.0	-
47M	09/08/2005	10:29	0.0	0.0	19.9	80.1	0.0	-
47M	09/13/2005	07:21	0.0	0.0	20.3	79.7	0.0	-
47M	09/21/2005	09:11	0.0	0.0	20.0	80.0	0.0	-
47M	09/29/2005	09:05	0.0	0.0	20.2	79.8	0.0	-
48M	07/05/2005	13:36	0.0	0.7	19.3	80.0	0.0	-
48M	07/12/2005	10:13	0.0	1.2	19.3	79.5	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
48M	07/19/2005	10:05	0.0	1.6	19.0	79.4	0.0	-
48M	07/26/2005	12:08	0.0	1.1	18.7	80.2	0.0	-
48M	08/04/2005	10:18	0.0	1.0	19.4	79.6	0.0	-
48M	08/09/2005	11:00	0.0	0.4	19.2	80.4	0.0	-
48M	08/16/2005	09:44	0.0	1.1	19.6	79.3	0.0	-
48M	08/25/2005	10:40	0.0	1.3	18.6	80.1	0.0	-
48M	08/30/2005	10:31	0.0	1.6	18.2	80.2	0.0	-
48M	09/08/2005	10:31	0.0	1.5	18.3	80.2	0.0	-
48M	09/13/2005	07:18	0.0	1.3	19.1	79.6	0.0	-
48M	09/21/2005	09:13	0.0	1.3	18.8	79.9	0.0	-
48M	09/29/2005	09:07	0.0	1.4	18.6	80.0	0.0	-
49M	07/05/2005	13:38	0.0	1.3	19.0	79.7	0.0	-
49M	07/12/2005	10:10	0.0	1.5	18.3	80.2	0.0	-
49M	07/19/2005	10:07	0.0	2.6	18.6	78.8	0.0	-
49M	07/26/2005	12:10	0.0	1.5	18.4	80.1	0.0	-
49M	08/04/2005	10:20	0.0	2.3	18.2	79.5	0.0	-
49M	08/09/2005	11:03	0.0	2.2	17.9	79.9	0.0	-
49M	08/16/2005	09:46	0.0	2.3	18.5	79.2	0.0	-
49M	08/25/2005	10:42	0.0	2.2	18.0	79.8	0.0	-
49M	08/30/2005	10:32	0.0	2.1	17.8	80.1	0.0	-
49M	09/08/2005	10:32	0.0	2.0	18.3	79.7	0.0	-
49M	09/13/2005	07:14	0.0	2.1	18.7	79.2	0.0	-
49M	09/21/2005	09:16	0.0	1.9	18.4	79.7	0.0	-
49M	09/21/2005	09:16	0.0	1.9	18.4	79.7	0.0	-
49M	09/29/2005	09:17	0.0	1.9	18.4	79.7	0.0	-
50M	07/05/2005	13:39	0.0	1.3	19.0	79.7	0.0	-
50M	07/12/2005	10:09	0.0	1.0	18.7	80.3	0.0	-
50M	07/19/2005	10:08	0.0	2.4	18.4	79.2	0.0	-
50M	07/26/2005	12:10	0.0	2.0	17.4	80.6	0.0	-
50M	08/04/2005	10:21	0.0	2.1	18.0	79.9	0.0	-
50M	08/09/2005	11:05	0.0	2.1	17.7	80.2	0.0	-
50M	08/16/2005	09:47	0.0	2.3	18.2	79.5	0.0	-
50M	08/25/2005	10:44	0.0	2.2	17.7	80.1	0.0	-
50M	08/30/2005	10:34	0.0	2.2	17.6	80.2	0.0	-
50M	09/08/2005	10:33	0.0	2.3	17.9	79.8	0.0	-
50M	09/13/2005	07:15	0.0	2.2	18.3	79.5	0.0	-
50M	09/21/2005	09:18	0.0	2.3	17.9	79.8	0.0	-
50M	09/29/2005	09:18	0.0	2.3	17.8	79.9	0.0	-
51M	07/05/2005	13:42	0.0	1.5	18.4	80.1	0.0	-
51M	07/12/2005	10:06	0.0	0.3	18.7	81.0	0.0	-
51M	07/19/2005	10:10	0.0	2.3	18.6	79.1	0.0	-
51M	07/26/2005	12:13	0.0	1.8	17.9	80.3	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
51M	08/04/2005	10:24	0.0	1.7	18.7	79.6	0.0	-
51M	08/09/2005	11:08	0.0	1.4	18.2	80.4	0.0	-
51M	08/16/2005	09:50	0.0	1.8	19.0	79.2	0.0	-
51M	08/25/2005	10:46	0.0	1.8	18.2	80.0	0.0	-
51M	08/30/2005	10:37	0.0	1.8	18.2	80.0	0.0	-
51M	09/08/2005	10:36	0.0	1.5	18.6	79.9	0.0	-
51M	09/13/2005	07:10	0.0	1.5	19.2	79.3	0.0	-
51M	09/21/2005	09:22	0.0	1.5	18.7	79.8	0.0	-
51M	09/29/2005	09:21	0.0	1.5	18.7	79.8	0.0	-
52M	07/05/2005	13:43	0.0	1.4	18.4	80.2	0.0	-
52M	07/12/2005	10:05	0.0	0.0	19.8	80.2	-0.1	-
52M	07/19/2005	10:12	0.0	1.8	18.5	79.7	0.0	-
52M	07/26/2005	12:14	0.0	1.8	17.4	80.8	0.0	-
52M	08/04/2005	10:25	0.0	1.9	18.1	80.0	0.0	-
52M	08/09/2005	11:09	0.0	0.2	19.5	80.3	0.0	-
52M	08/16/2005	09:51	0.0	0.5	19.9	79.6	0.0	-
52M	08/25/2005	10:47	0.0	1.5	17.9	80.6	0.0	-
52M	08/30/2005	10:38	0.0	1.8	17.8	80.4	0.0	-
52M	09/08/2005	10:37	0.0	1.9	18.1	80.0	0.0	-
52M	09/13/2005	07:11	0.0	1.7	18.7	79.6	0.0	-
52M	09/21/2005	09:23	0.0	0.9	19.2	79.9	0.0	-
52M	09/29/2005	09:22	0.0	1.8	18.1	80.1	0.0	-
53M	07/05/2005	13:45	0.0	1.0	19.4	79.6	0.0	-
53M	07/12/2005	10:03	0.0	0.0	20.1	79.9	0.0	-
53M	07/19/2005	10:13	0.0	1.3	19.6	79.1	-0.2	-
53M	07/26/2005	12:16	0.0	0.9	18.7	80.4	0.0	-
53M	08/04/2005	10:27	0.0	0.6	19.5	79.9	0.0	-
53M	08/09/2005	11:11	0.0	0.5	19.3	80.2	0.0	-
53M	08/16/2005	09:53	0.0	1.0	19.5	79.5	0.0	-
53M	08/25/2005	10:49	0.0	1.0	18.7	80.3	0.0	-
53M	08/30/2005	10:40	0.0	1.1	18.6	80.3	0.0	-
53M	09/08/2005	10:39	0.0	0.5	19.4	80.1	0.0	-
53M	09/13/2005	07:08	0.0	1.3	19.4	79.3	0.0	-
53M	09/21/2005	09:25	0.0	1.1	19.0	79.9	0.0	-
53M	09/29/2005	09:25	0.0	0.4	19.6	80.0	0.0	-
54M	07/05/2005	13:47	0.0	1.2	18.2	80.6	0.0	-
54M	07/12/2005	10:01	0.0	0.0	20.1	79.9	-0.1	-
54M	07/19/2005	10:15	0.0	0.8	19.7	79.5	0.0	-
54M	07/26/2005	12:18	0.0	0.8	18.7	80.5	0.0	-
54M	08/04/2005	10:29	0.0	0.0	20.0	80.0	0.0	-
54M	08/09/2005	11:13	0.0	0.2	19.5	80.3	0.0	-
54M	08/16/2005	09:54	0.0	0.0	20.4	79.6	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
54M	08/25/2005	10:51	0.0	0.1	19.6	80.3	0.0	-
54M	08/30/2005	10:42	0.0	0.1	19.6	80.3	0.0	-
54M	09/08/2005	10:41	0.0	1.0	18.9	80.1	0.0	-
54M	09/13/2005	07:06	0.0	0.0	20.4	79.6	0.0	-
54M	09/21/2005	09:28	0.0	0.0	19.8	80.2	0.0	-
54M	09/29/2005	09:27	0.0	0.0	20.0	80.0	0.0	-
55M	07/05/2005	13:49	0.0	0.6	19.9	79.5	0.0	-
55M	07/12/2005	09:59	0.0	0.0	20.1	79.9	0.0	-
55M	07/19/2005	10:17	0.0	0.0	20.4	79.6	0.0	-
55M	07/26/2005	12:20	0.0	0.0	19.4	80.6	0.0	-
55M	08/04/2005	10:31	0.0	0.3	19.9	79.8	0.0	-
55M	08/09/2005	11:15	0.0	0.0	19.6	80.4	0.0	-
55M	08/16/2005	09:56	0.0	0.0	20.4	79.6	0.0	-
55M	08/25/2005	10:53	0.0	0.0	19.7	80.3	0.0	-
55M	08/30/2005	10:45	0.0	0.0	19.7	80.3	0.0	-
55M	08/30/2005	10:46	0.0	0.0	19.7	80.3	0.0	-
55M	09/08/2005	10:43	0.0	0.6	19.1	80.3	0.0	-
55M	09/13/2005	07:02	0.0	0.0	20.3	79.7	0.0	-
55M	09/21/2005	09:30	0.0	0.0	19.8	80.2	0.0	-
55M	09/29/2005	09:29	0.0	0.0	19.9	80.1	0.0	-
56M	07/05/2005	13:50	0.0	0.4	20.0	79.6	0.0	-
56M	07/12/2005	09:56	0.0	0.0	19.8	80.2	0.0	-
56M	07/19/2005	10:18	0.0	1.0	19.7	79.3	0.0	-
56M	07/26/2005	12:21	0.0	0.6	18.9	80.5	0.0	-
56M	08/04/2005	10:33	0.0	1.3	18.9	79.8	0.0	-
56M	08/09/2005	11:18	0.0	0.1	19.5	80.4	0.0	-
56M	08/16/2005	09:57	0.0	0.1	20.3	79.6	0.0	-
56M	08/25/2005	10:54	0.0	0.3	19.4	80.3	0.0	-
56M	08/30/2005	10:47	0.0	0.4	19.3	80.3	0.0	-
56M	09/08/2005	10:45	0.0	0.6	19.2	80.2	0.0	-
56M	09/13/2005	07:00	0.0	0.6	19.8	79.6	0.0	-
56M	09/21/2005	09:32	0.0	0.4	19.4	80.2	0.0	-
56M	09/29/2005	09:31	0.0	0.3	19.6	80.1	0.0	-
57M	07/05/2005	13:52	0.0	0.4	19.4	80.2	0.0	-
57M	07/12/2005	09:53	0.0	0.1	20.1	79.8	0.0	-
57M	07/19/2005	10:20	0.0	1.3	19.4	79.3	0.0	-
57M	07/26/2005	12:23	0.0	1.6	18.2	80.2	0.0	-
57M	08/04/2005	10:35	0.0	0.6	19.4	80.0	0.0	-
57M	08/09/2005	11:21	0.0	0.0	19.7	80.3	0.0	-
57M	08/16/2005	09:59	0.0	0.0	20.5	79.5	0.0	-
57M	08/25/2005	10:56	0.0	0.0	19.7	80.3	0.0	-
57M	08/30/2005	10:49	0.0	0.0	19.6	80.4	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
57M	09/08/2005	10:46	0.0	0.6	19.3	80.1	0.0	-
57M	09/13/2005	06:58	0.0	0.0	20.5	79.5	0.0	-
57M	09/21/2005	09:34	0.0	0.6	19.3	80.1	0.0	-
57M	09/29/2005	09:35	0.0	0.0	19.9	80.1	0.0	-
58M	07/05/2005	13:54	0.0	0.4	19.9	79.7	0.0	-
58M	07/12/2005	09:51	0.0	0.2	19.8	80.0	0.0	-
58M	07/19/2005	10:21	0.0	0.5	20.1	79.4	0.0	-
58M	07/26/2005	12:25	0.0	0.9	18.7	80.4	0.0	-
58M	08/04/2005	10:37	0.0	0.0	19.8	80.2	0.0	-
58M	08/09/2005	11:23	0.0	0.0	19.7	80.3	0.0	-
58M	08/16/2005	10:00	0.0	0.0	20.4	79.6	0.0	-
58M	08/25/2005	10:58	0.0	0.0	19.7	80.3	0.0	-
58M	08/30/2005	10:51	0.0	0.1	19.5	80.4	0.0	-
58M	09/08/2005	10:48	0.0	0.6	19.2	80.2	0.0	-
58M	09/13/2005	06:56	0.0	0.0	20.5	79.5	0.0	-
58M	09/21/2005	09:37	0.0	0.3	19.4	80.3	0.1	-
58M	09/29/2005	09:38	0.0	0.0	19.8	80.2	0.0	-
59M	07/05/2005	13:56	0.0	0.4	19.8	79.8	0.0	-
59M	07/12/2005	09:49	0.0	0.3	19.8	79.9	0.0	-
59M	07/19/2005	10:23	0.0	1.1	19.3	79.6	0.0	-
59M	07/26/2005	12:27	0.0	0.4	19.1	80.5	0.0	-
59M	08/04/2005	10:39	0.0	0.5	19.4	80.1	0.0	-
59M	08/09/2005	11:25	0.0	0.0	19.6	80.4	0.0	-
59M	08/16/2005	10:02	0.0	0.0	20.5	79.5	0.0	-
59M	08/25/2005	11:00	0.0	0.1	19.5	80.4	0.0	-
59M	08/30/2005	10:53	0.0	0.0	19.7	80.3	0.0	-
59M	09/08/2005	10:50	0.0	0.5	19.1	80.4	0.1	-
59M	09/13/2005	06:54	0.0	0.0	20.5	79.5	0.0	-
59M	09/21/2005	09:38	0.0	0.2	19.5	80.3	0.0	-
59M	09/29/2005	09:40	0.0	0.6	18.9	80.5	0.0	-
60M	07/05/2005	13:57	0.0	0.5	19.4	80.1	0.0	-
60M	07/12/2005	09:48	0.0	0.5	19.5	80.0	0.0	-
60M	07/19/2005	10:25	0.0	1.3	19.0	79.7	0.0	-
60M	07/26/2005	12:29	0.0	0.9	18.7	80.4	0.0	-
60M	08/04/2005	10:40	0.0	0.8	19.1	80.1	0.0	-
60M	08/09/2005	11:27	0.0	0.6	18.8	80.6	0.0	-
60M	08/16/2005	10:04	0.0	0.0	20.5	79.5	0.0	-
60M	08/25/2005	11:01	0.0	0.5	19.0	80.5	0.0	-
60M	08/30/2005	10:54	0.0	1.0	18.7	80.3	0.0	-
60M	09/08/2005	10:52	0.0	1.3	18.4	80.3	0.0	-
60M	09/13/2005	06:50	0.0	0.0	20.3	79.7	0.0	-
60M	09/21/2005	09:40	0.0	0.8	19.0	80.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
60M	09/29/2005	09:43	0.0	0.9	18.8	80.3	0.0	-
61M	07/05/2005	13:59	0.0	0.4	20.1	79.5	0.0	-
61M	07/12/2005	09:45	0.0	0.7	19.5	79.8	0.0	-
61M	07/19/2005	10:27	0.0	0.3	20.1	79.6	0.0	-
61M	07/26/2005	12:33	0.0	1.0	18.4	80.6	0.0	-
61M	08/04/2005	10:42	0.0	0.2	19.6	80.2	0.0	-
61M	08/09/2005	11:29	0.0	0.3	19.1	80.6	0.0	-
61M	08/16/2005	10:05	0.0	0.3	20.2	79.5	0.0	-
61M	08/25/2005	11:03	0.0	0.3	19.2	80.5	0.0	-
61M	08/30/2005	10:56	0.0	0.5	19.0	80.5	0.0	-
61M	09/08/2005	10:59	0.0	1.2	18.4	80.4	0.0	-
61M	09/13/2005	06:48	0.0	0.4	19.9	79.7	0.0	-
61M	09/21/2005	09:42	0.0	0.6	19.0	80.4	0.0	-
61M	09/29/2005	09:45	0.0	0.1	19.5	80.4	0.0	-
62M	07/05/2005	14:01	0.0	0.6	18.3	81.1	0.0	-
62M	07/12/2005	09:43	0.0	0.6	18.2	81.2	0.0	-
62M	07/19/2005	10:28	0.0	2.1	18.2	79.7	0.0	-
62M	07/26/2005	12:35	0.0	1.0	17.5	81.5	0.0	-
62M	08/04/2005	10:44	0.0	1.9	17.7	80.4	0.0	-
62M	08/09/2005	11:31	0.0	1.7	17.3	81.0	0.0	-
62M	08/16/2005	10:07	0.0	2.0	18.3	79.7	0.0	-
62M	08/25/2005	11:05	0.0	1.7	17.2	81.1	0.0	-
62M	08/30/2005	10:58	0.0	1.9	17.2	80.9	0.0	-
62M	09/08/2005	11:01	0.0	2.0	17.1	80.9	0.0	-
62M	09/13/2005	06:47	0.0	1.8	18.2	80.0	0.0	-
62M	09/21/2005	09:44	0.0	2.2	17.0	80.8	0.0	-
62M	09/29/2005	09:47	0.0	2.2	16.7	81.1	0.0	-
63M	07/05/2005	14:03	0.0	0.7	19.8	79.5	0.0	-
63M	07/12/2005	09:41	0.0	0.6	19.7	79.7	0.0	-
63M	07/19/2005	10:30	0.0	1.5	18.6	79.9	0.0	-
63M	07/26/2005	12:37	0.0	0.3	19.0	80.7	0.0	-
63M	08/04/2005	10:46	0.0	0.3	19.5	80.2	0.0	-
63M	08/09/2005	11:33	0.0	0.3	19.0	80.7	0.0	-
63M	08/16/2005	10:09	0.0	0.5	19.9	79.6	0.0	-
63M	08/25/2005	11:07	0.0	1.2	18.2	80.6	0.0	-
63M	08/30/2005	11:00	0.0	1.4	17.8	80.8	0.0	-
63M	09/08/2005	11:04	0.0	1.2	18.2	80.6	0.0	-
63M	09/13/2005	06:44	0.0	0.9	19.5	79.6	0.0	-
63M	09/21/2005	09:47	0.0	1.2	18.6	80.2	0.0	-
63M	09/29/2005	09:51	0.0	1.5	18.1	80.4	0.0	-
64M	07/05/2005	14:05	0.0	0.5	20.6	78.9	-48.8	-
64M	07/12/2005	09:40	0.0	0.6	19.2	80.2	-50.7	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
64M	07/19/2005	10:31	0.0	0.3	20.2	79.5	0.0	-
64M	07/26/2005	12:38	0.0	0.0	19.5	80.5	0.0	-
64M	08/04/2005	10:48	0.0	2.1	18.4	79.5	0.0	-
64M	08/09/2005	11:35	0.0	0.2	19.2	80.6	0.0	-
64M	08/16/2005	10:11	0.0	1.1	19.8	79.1	0.0	-
64M	08/25/2005	11:09	0.0	0.1	19.3	80.6	0.0	-
64M	08/30/2005	11:02	0.0	0.1	19.5	80.4	0.0	-
64M	09/08/2005	11:06	0.0	0.0	19.5	80.5	0.0	-
64M	09/13/2005	06:42	0.0	0.0	20.1	79.9	0.0	-
64M	09/21/2005	09:50	0.0	0.0	19.7	80.3	0.0	-
64M	09/29/2005	09:54	0.0	0.0	19.8	80.2	0.0	-
65M	07/05/2005	14:07	0.0	0.3	20.4	79.3	0.0	-
65M	07/12/2005	09:38	0.0	0.4	19.8	79.8	0.0	-
65M	07/19/2005	10:33	0.0	0.6	19.6	79.8	0.0	-
65M	07/26/2005	12:41	0.0	0.2	19.2	80.6	0.0	-
65M	08/04/2005	10:50	0.0	0.1	19.5	80.4	0.0	-
65M	08/09/2005	11:37	0.0	0.2	19.2	80.6	0.0	-
65M	08/16/2005	10:13	0.0	0.3	20.1	79.6	0.0	-
65M	08/25/2005	11:11	0.0	0.4	19.0	80.6	0.1	-
65M	08/30/2005	11:04	0.0	0.8	18.7	80.5	0.0	-
65M	09/08/2005	11:08	0.0	0.3	19.2	80.5	0.0	-
65M	09/13/2005	09:30	0.0	0.3	19.7	80.0	0.0	-
65M	09/21/2005	09:54	0.0	0.5	19.0	80.5	0.0	-
65M	09/29/2005	10:05	0.0	0.5	18.8	80.7	0.0	-
66M	07/05/2005	14:09	0.0	0.3	20.4	79.3	-60.0	-
66M	07/12/2005	09:36	0.0	0.8	19.8	79.4	-45.4	-
66M	07/19/2005	10:35	0.0	0.4	20.0	79.6	0.0	-
66M	07/26/2005	12:42	0.0	0.1	19.3	80.6	0.0	-
66M	08/04/2005	10:52	0.0	0.0	19.7	80.3	0.0	-
66M	08/09/2005	11:39	0.0	0.1	19.3	80.6	0.0	-
66M	08/16/2005	10:15	0.0	0.2	20.1	79.7	0.0	-
66M	08/25/2005	11:13	0.0	0.2	19.2	80.6	0.0	-
66M	08/30/2005	11:09	0.0	0.2	19.6	80.2	0.0	-
66M	09/08/2005	11:10	0.0	0.2	19.4	80.4	0.0	-
66M	09/13/2005	09:32	0.0	0.2	19.9	79.9	0.0	-
66M	09/21/2005	09:56	0.0	0.0	19.4	80.6	0.0	-
66M	09/29/2005	10:06	0.0	0.0	19.3	80.7	0.0	-
67M	07/05/2005	14:12	0.0	0.2	20.4	79.4	0.0	-
67M	07/12/2005	09:34	0.0	1.1	19.9	79.0	0.0	-
67M	07/19/2005	10:37	0.0	0.5	20.1	79.4	0.0	-
67M	07/26/2005	12:45	0.0	0.1	19.2	80.7	0.0	-
67M	08/04/2005	10:55	0.0	0.0	19.8	80.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
67M	08/09/2005	11:41	0.0	0.0	19.4	80.6	0.0	-
67M	08/16/2005	10:18	0.0	0.1	20.4	79.5	0.0	-
67M	08/25/2005	11:17	0.0	0.1	19.4	80.5	0.0	-
67M	08/30/2005	11:09	0.0	0.1	19.4	80.5	0.0	-
67M	09/08/2005	11:21	0.0	0.1	19.4	80.5	0.0	-
67M	09/13/2005	09:35	0.0	0.1	20.0	79.9	0.0	-
67M	09/21/2005	10:00	0.0	0.2	19.2	80.6	0.0	-
67M	09/29/2005	10:09	0.0	0.0	19.5	80.5	0.0	-
68M	07/05/2005	14:13	0.0	0.7	19.0	80.3	0.0	-
68M	07/12/2005	09:33	0.0	2.2	19.7	78.1	0.0	-
68M	07/19/2005	10:39	0.0	0.0	20.2	79.8	0.0	-
68M	07/26/2005	12:47	0.0	0.5	18.9	80.6	0.0	-
68M	08/04/2005	10:56	0.0	0.0	19.8	80.2	0.0	-
68M	08/09/2005	11:43	0.0	0.0	19.6	80.4	0.0	-
68M	08/16/2005	10:20	0.0	0.0	20.4	79.6	0.0	-
68M	08/25/2005	11:19	0.0	0.0	19.7	80.3	0.0	-
68M	09/08/2005	11:23	0.0	0.1	19.6	80.3	0.0	-
68M	09/13/2005	09:36	0.0	0.0	20.0	80.0	0.0	-
68M	09/21/2005	10:01	0.0	0.0	19.1	80.9	0.0	-
68M	09/29/2005	10:11	0.0	0.0	19.7	80.3	0.0	-
69M	07/05/2005	11:32	0.0	0.9	19.0	80.1	0.0	-
69M	07/12/2005	09:31	0.0	4.0	19.2	76.8	0.0	-
69M	07/19/2005	08:14	0.0	0.6	20.1	79.3	0.0	-
69M	07/26/2005	09:58	0.3	0.0	19.4	80.3	0.0	-
69M	08/04/2005	07:56	0.0	0.4	19.7	79.9	0.0	-
69M	08/09/2005	08:23		0.3	20.1		0.0	-
69M	08/16/2005	08:07	0.0	0.2	20.0	79.8	0.0	-
69M	08/25/2005	08:51	0.0	0.4	19.4	80.2	0.0	-
69M	08/30/2005	08:31	0.0	0.5	19.1	80.4	0.0	-
69M	09/08/2005	08:14	0.0	0.4	20.1	79.5	0.0	-
69M	09/13/2005	09:41	0.0	0.3	19.8	79.9	0.0	-
69M	09/21/2005	10:03	0.0	0.3	19.0	80.7	0.0	-
69M	09/29/2005	10:13	0.0	0.3	19.5	80.2	0.0	-
70M	07/05/2005	11:34	0.0	0.9	18.9	80.2	0.0	-
70M	07/12/2005	12:00	0.0	0.1	19.2	80.7	0.0	-
70M	07/19/2005	08:16	0.0	2.2	18.0	79.8	0.0	-
70M	07/26/2005	10:02	0.3	0.4	18.7	80.6	0.0	-
70M	08/04/2005	07:58	0.0	0.6	19.4	80.0	0.0	-
70M	08/09/2005	08:26		1.6	18.5		0.0	-
70M	08/16/2005	08:09	0.0	1.0	19.3	79.7	0.0	-
70M	08/25/2005	08:53	0.0	0.1	19.3	80.6	0.0	-
70M	08/30/2005	08:34	0.0	3.2	15.9	80.9	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
70M	09/08/2005	08:16	0.0	1.1	19.1	79.8	0.0	-
70M	09/13/2005	09:42	0.0	0.9	19.3	79.8	0.0	-
70M	09/21/2005	10:05	0.0	0.6	18.3	81.1	0.0	-
70M	09/29/2005	10:15	0.0	0.9	18.4	80.7	0.0	-
71M	07/05/2005	11:37	0.0	0.6	20.1	79.3	0.0	-
71M	07/12/2005	11:57	0.0	0.1	19.9	80.0	0.0	-
71M	07/19/2005	08:18	0.0	0.0	20.1	79.9	0.0	-
71M	07/26/2005	10:04	0.2	0.0	19.7	80.1	0.0	-
71M	08/04/2005	08:00	0.0	0.0	20.1	79.9	0.0	-
71M	08/09/2005	08:33	0.0	0.0	19.8	80.2	0.0	-
71M	08/16/2005	08:12	0.0	0.0	20.1	79.9	0.0	-
71M	08/25/2005	08:57	0.0	0.0	19.5	80.5	0.0	-
71M	08/30/2005	08:37	0.0	0.0	19.5	80.5	0.0	-
71M	09/08/2005	08:19	0.0	0.0	20.1	79.9	0.0	-
71M	09/13/2005	09:45	0.0	0.0	20.0	80.0	0.0	-
71M	09/21/2005	10:07	0.0	0.0	19.0	81.0	0.0	-
71M	09/29/2005	10:18	0.0	0.0	19.6	80.4	0.0	-
72M	07/05/2005	11:41	0.0	0.3	20.3	79.4	0.0	-
72M	07/12/2005	11:55	0.0	0.2	19.8	80.0	0.0	-
72M	07/19/2005	08:21	0.0	0.0	20.1	79.9	0.0	-
72M	07/26/2005	10:08	0.2	0.0	19.8	80.0	0.0	-
72M	08/04/2005	08:03	0.0	0.0	20.1	79.9	0.0	-
72M	08/09/2005	08:36	0.0	0.0	20.0	80.0	0.0	-
72M	08/16/2005	08:14	0.0	1.2	18.6	80.2	0.0	-
72M	08/25/2005	08:59	0.0	0.3	19.1	80.6	0.0	-
72M	08/30/2005	08:40	0.0	0.0	19.5	80.5	0.0	-
72M	09/08/2005	08:21	0.0	0.0	19.9	80.1	0.0	-
72M	09/13/2005	09:47	0.0	0.0	19.9	80.1	0.0	-
72M	09/21/2005	10:10	0.0	0.1	18.9	81.0	0.0	-
72M	09/29/2005	10:21	0.0	0.0	19.5	80.5	0.0	-
73M	07/05/2005	11:43	0.0	0.3	20.4	79.3	0.0	-
73M	07/12/2005	11:54	0.0	0.1	20.1	79.8	0.0	-
73M	07/19/2005	08:23	0.0	0.3	20.0	79.7	0.0	-
73M	07/26/2005	10:10	0.2	0.0	19.8	80.0	0.0	-
73M	08/04/2005	08:05	0.0	0.0	20.0	80.0	0.0	-
73M	08/09/2005	08:38	0.0	0.0	20.0	80.0	0.0	-
73M	08/16/2005	08:15	0.0	0.0	20.1	79.9	0.0	-
73M	08/25/2005	09:00	0.0	0.1	19.4	80.5	0.0	-
73M	08/30/2005	08:42	0.0	0.4	19.2	80.4	0.0	-
73M	09/08/2005	08:23	0.0	0.3	19.8	79.9	0.0	-
73M	09/13/2005	09:48	0.0	0.1	20.0	79.9	0.0	-
73M	09/21/2005	10:12	0.0	0.2	19.2	80.6	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
73M	09/29/2005	10:22	0.0	0.5	18.9	80.6	0.0	-
74M	07/05/2005	11:47	0.0	0.2	20.0	79.8	0.0	-
74M	07/12/2005	11:52	0.0	0.3	20.0	79.7	0.0	-
74M	07/19/2005	08:25	0.0	0.4	19.9	79.7	0.0	-
74M	07/26/2005	10:13	0.3	0.4	19.3	80.0	0.0	-
74M	08/04/2005	08:07	0.0	0.5	19.6	79.9	0.0	-
74M	08/09/2005	08:41	0.0	0.2	19.6	80.2	0.0	-
74M	08/16/2005	08:18	0.0	0.4	19.8	79.8	0.0	-
74M	08/25/2005	09:03	0.0	0.5	19.1	80.4	0.0	-
74M	08/30/2005	08:44	0.0	0.5	19.2	80.3	0.0	-
74M	09/08/2005	08:26	0.0	0.2	19.9	79.9	0.0	-
74M	09/13/2005	09:50	0.0	0.5	19.7	79.8	0.0	-
74M	09/21/2005	10:14	0.0	0.6	19.1	80.3	0.0	-
74M	09/29/2005	10:25	0.0	0.5	19.2	80.3	0.0	-
74M	09/29/2005	• 10:25	0.0	0.5	19.2	80.3	0.0	-
75M	07/05/2005	11:50	0.0	0.2	20.5	79.3	0.0	-
75M	07/12/2005	11:49	0.0	0.5	20.1	79.4	0.0	-
75M	07/19/2005	08:28	0.0	0.1	20.2	79.7	0.0	-
75M	07/26/2005	10:16	0.2	0.0	19.8	80.0	0.0	-
75M	08/04/2005	08:09	0.0	0.3	19.8	79.9	0.0	-
75M	08/09/2005	08:43	0.0	0.0	19.9	80.1	0.0	-
75M	08/16/2005	08:20	0.0	0.4	19.9	79.7	0.0	-
75M	08/25/2005	09:05	0.0	0.5	19.1	80.4	0.0	-
75M	08/30/2005	08:47	0.0	0.4	19.4	80.2	0.0	-
75M	09/08/2005	08:29	0.0	0.4	19.7	79.9	0.0	-
75M	09/13/2005	09:52	0.0	0.8	19.5	79.7	0.0	-
75M	09/21/2005	10:16	0.0	0.5	19.2	80.3	0.0	-
75M	09/29/2005	10:28	0.0	0.6	19.0	80.4	0.0	-
76M	07/05/2005	11:52	0.0	0.2	20.7	79.1	0.0	-
76M	07/12/2005	11:46	0.0	0.9	20.1	79.0	0.0	-
76M	07/19/2005	08:30	0.0	0.2	20.2	79.6	0.0	-
76M	07/26/2005	10:19	0.3	0.0	19.9	79.8	0.0	-
76M	08/04/2005	08:11	0.0	0.0	20.1	79.9	0.0	-
76M	08/09/2005	08:46	0.0	0.0	19.8	80.2	0.0	-
76M	08/16/2005	08:23	0.0	0.0	20.2	79.8	0.0	-
76M	08/25/2005	09:08	0.0	0.0	19.4	80.6	0.0	-
76M	08/30/2005	08:49	0.0	0.0	19.6	80.4	0.0	-
76M	09/08/2005	08:31	0.0	0.0	19.9	80.1	0.0	-
76M	09/13/2005	09:54	0.0	0.0	20.0	80.0	0.0	-
76M	09/21/2005	10:18	0.0	0.0	19.5	80.5	0.0	-
76M	09/29/2005	10:31	0.0	0.0	19.5	80.5	0.0	-
77M	07/05/2005	11:54	0.0	0.1	20.6	79.3	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas - (% by vol)	Static Press (Inch H2O)	Comments
77M	07/12/2005	11:44	0.0	2.0	19.8	78.2	0.0	-
77M	07/19/2005	08:32	0.0	0.1	20.2	79.7	0.0	-
77M	07/26/2005	10:21	0.0	0.0	20.0	80.0	0.0	-
77M	08/04/2005	08:14	0.0	0.0	20.1	79.9	0.0	-
77M	08/09/2005	08:48	0.0	0.0	19.8	80.2	0.0	-
77M	08/16/2005	08:25	0.0	0.0	20.2	79.8	0.0	-
77M	08/25/2005	09:10	0.0	0.0	19.4	80.6	0.0	-
77M	08/30/2005	08:52	0.0	0.1	19.5	80.4	0.0	-
77M	09/08/2005	08:33	0.0	0.1	19.8	80.1	0.0	-
77M	09/13/2005	09:56	0.0	0.0	20.0	80.0	0.0	-
77M	09/21/2005	10:21	0.0	0.1	19.4	80.5	0.0	-
77M	09/29/2005	10:33	0.0	0.0	19.5	80.5	0.0	-
78M	07/05/2005	11:57	0.0	7.4	10.1	82.5	0.0	-
78M	07/12/2005	11:42	0.0	3.0	18.2	78.8	0.0	-
78M	07/19/2005	08:37	0.0	14.6	5.7	79.7	0.0	-
78M	07/26/2005	10:24	0.0	2.2	17.2	80.6	0.0	-
78M	08/04/2005	08:16	0.0	3.5	16.3	80.2	0.0	-
78M	08/09/2005	08:51	0.0	0.9	19.0	80.1	0.0	-
78M	08/16/2005	08:27	0.0	0.5	19.9	79.6	0.0	-
78M	08/25/2005	09:13	0.0	4.3	15.0	80.7	0.0	-
78M	08/30/2005	08:54	0.0	0.3	19.4	80.3	0.0	-
78M	09/08/2005	08:36	0.0	0.6	19.3	80.1	0.0	-
78M	09/13/2005	09:58	0.0	1.2	19.1	79.7	0.0	-
78M	09/21/2005	10:23	0.0	3.2	16.3	80.5	0.0	-
78M	09/29/2005	10:36	0.0	2.1	16.9	81.0	0.0	-
79M	07/05/2005	12:00	0.0	3.8	16.0	80.2	0.0	-
79M	07/12/2005	11:40	0.0	1.1	14.1	84.8	0.0	-
79M	07/19/2005	08:40	0.0	1.8	17.9	80.3	0.0	-
79M	07/26/2005	10:26	0.0	0.0	20.0	80.0	0.0	-
79M	08/04/2005	08:18	0.0	7.7	12.5	79.8	0.0	-
79M	08/09/2005	08:54	0.0	2.0	17.6	80.4	0.0	-
79M	08/16/2005	08:28	0.0	0.1	20.3	79.6	0.0	-
79M	08/25/2005	09:15	0.0	1.0	18.8	80.2	0.0	-
79M	08/30/2005	08:56	0.0	0.4	19.3	80.3	0.0	-
79M	09/08/2005	08:38	0.1	8.9	11.7	79.3	0.0	-
79M	09/13/2005	10:00	0.0	2.4	17.9	79.7	0.0	-
79M	09/21/2005	10:26	0.0	2.1	17.4	80.5	0.0	-
79M	09/29/2005	10:39	0.3	6.9	12.6	80.2	0.0	-
80M	07/05/2005	12:04	0.0	2.2	19.0	78.8	0.0	-
80M	07/12/2005	11:37	0.0	0.1	20.1	79.8	0.0	-
80M	07/19/2005	08:43	0.0	0.1	20.2	79.7	0.0	-
80M	07/26/2005	10:30	0.0	0.0	19.8	80.2	0.0	-

Hewitt Pit Probe Monitoring Data - 07/01/2005 through 09/30/2005

Name	Date	Time	Methane (% by vol)	Carbon Dioxide (% by vol)	Oxygen (% by vol)	Balance Gas (% by vol)	Static Press (Inch H2O)	Comments
80M	08/04/2005	08:26	0.0	1.4	18.7	79.9	0.0	-
80M	08/09/2005	09:03	0.0	0.1	19.9	80.0	0.0	-
80M	08/16/2005	08:32	0.0	0.0	20.4	79.6	0.0	-
80M	08/25/2005	09:17	0.0	0.0	19.5	80.5	0.0	-
80M	08/30/2005	09:00	0.0	0.0	19.8	80.2	0.0	-
80M	09/08/2005	08:43	0.0	0.0	19.6	80.4	0.0	-
80M	09/13/2005	10:01	0.0	0.3	19.3	80.4	0.0	-
80M	09/21/2005	10:29	0.0	1.2	17.7	81.1	0.0	-
80M	09/29/2005	10:42	0.0	0.0	19.3	80.7	0.2	-
81M	07/05/2005	12:06	0.0	0.9	20.3	78.8	0.0	-
81M	07/12/2005	11:33	0.0	0.3	20.1	79.6	0.0	-
81M	07/19/2005	08:45	0.0	1.0	20.0	79.0	0.0	-
81M	07/26/2005	10:32	0.0	0.4	19.8	79.8	0.0	-
81M	08/04/2005	08:22	0.0	0.3	19.5	80.2	0.0	-
81M	08/09/2005	09:01	0.0	0.1	19.8	80.1	0.0	-
81M	08/16/2005	08:33	0.0	0.1	20.4	79.5	0.0	-
81M	08/25/2005	09:19	0.0	0.0	19.7	80.3	0.0	-
81M	08/30/2005	09:02	0.0	0.5	19.7	79.8	0.0	-
81M	09/08/2005	08:45	0.0	0.4	19.6	80.0	0.0	-
81M	09/13/2005	10:04	0.0	0.2	19.8	80.0	0.0	-
81M	09/21/2005	10:31	0.0	0.0	19.5	80.5	0.0	-
81M	09/29/2005	10:44	0.0	0.3	19.5	80.2	0.0	-
FLARE	07/03/2005	08:03	28.0	28.1	2.0	41.9	15.0	-
FLARE	07/03/2005	08:21	25.8	27.5	2.5	44.2	15.2	-
FLARE	07/05/2005	11:06	22.5	24.6	3.6	49.3	14.0	-
FLARE	07/12/2005	08:45	21.4	20.5	4.6	53.5	16.2	-

Attachment 2

PROBE IDENTIFICATION TABLE

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HEWITT PIT LANDFILL

Probe I.D. Cross Reference List

Probe Data Reporting ID#	Site Map Probe ID#		Probe Data Reporting ID#	Site Map Probe ID#
1M	1		43M	7B'
2M	1A		44M	7C'
3M	2		45M	18B
4M	2A		46M	8B
5M	3B		47M	8C'
6M	4		48M	19
7M	4A		49M	20
8M	5		50M	20A
9M	5A		51M	22
10M	6B		52M	22A
11M	6C		53M	23
12M	6D		54M	24
13M	7		55M	24A
14M	7A		56M	25
15M	8A		57M	25A
16M	9		58M	26
17M	10		59M	26A
18M	10A		60M	26B
19M	11B		61M	27
20M	12B		62M	27A
21M	13B		63M	28
22M	13D		64M	30A
23M	13C		65M	31
24M	1B'		66M	31A
25M	1C'		67M	32
26M	13X		68M	32A
27M	14B		69M	33
28M	14C		70M	34
29M	2B'		71M	35
30M	2C'		72M	36B
31M	15A		73M	37
32M	3B'		74M	38
33M	3C'		75M	39
34M	4B'		76M	40
35M	4C'		77M	41
36M	16A		78M	42
37M	5B'		79M	43
38M	5C'		80M	45
39M	16X		81M	46
40M	17A			
41M	6A'			
42M	6C'			

Attachment 3

LABORATORY RESULTS FOR TOCs and TACs in MAIN GAS HEADER INLET

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AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250
environmental consultants
laboratory services

August 23, 2005

LTR/354/05

Brian Millage
GC Environmental
1230 N. Jefferson, Ste. J
Anaheim, CA 92807

re: Hewitt Pit

Dear Brian:

Please find enclosed the laboratory analysis report, quality assurance summary, and the original chain of custody form for one Tedlar bag sample received August 16, 2005.

The Tedlar bag sample was analyzed for TO-14 components, permanent gases, and total gaseous non-methane organics (TGNMO) as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Michael L. Porter
Laboratory Director

Encl.
MLP/bwf

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

Permanent Gases and Total Gaseous Non- Methane Organics (TGNMO)
Analysis in Landfill Gas Tedlar Bag Sample

Report Date: August 23, 2005
Client: GC Environmental
Project Location: Hewitt Pit Landfill
Client Project No.: 1003-9
Date Received: August 16, 2005
Date Analyzed: August 17, 2005

ANALYSIS DESCRIPTION

Permanent gases were measured by thermal conductivity detection/gas chromatography (TCD/GC). Total gaseous non-methane organics (TGNMO) was measured by flame ionization detection/total combustion analysis (FID/TCA), EPA Method 25.

AtmAA Lab No.: 02285-8
Sample I.D.: HP-Inlet

Components	(Concentration in %,v)
Nitrogen	48.6
Oxygen	4.86
Methane	22.3
Carbon dioxide	23.0
	(Concentration in ppmv)
TGNMO	550

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Hewitt Pit Landfill
Date Received: August 16, 2005
Date Analyzed: August 17, 2005

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	HP-Inlet	48.5	48.7	48.6	0.20
Oxygen	HP-Inlet	4.81	4.92	4.86	1.1
Methane	HP-Inlet	22.2	22.4	22.3	0.45
Carbon dioxide	HP-Inlet	23.0	22.9	23.0	0.22
		(Concentration in ppmv)			
TGNMO	HP-Inlet	555	546	550	0.82

One Tedlar bag sample, laboratory number 02285-8, was analyzed for permanent gases and TGNMO. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 5 repeat measurements from one Tedlar bag sample is 0.56%.

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LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

TO-14 Component Analysis in Landfill Gas Tedlar Bag Sample, by GC/MS

Report Date: August 23, 2005
Client: GC Environmental
Project Location: Hewitt Pit Landfill
Client Project No.: 1003-9
Date Received: August 16, 2005
Date Analyzed: August 17, 2005

AtmAA Lab No.:	02285-8
Sample ID:	HP-Inlet
Components	*(Concentations in ppbv)*
Freon-12	232
Methyl chloride	<40
Freon-114	73.4
Vinyl chloride	528
Methyl bromide	<40
Ethyl chloride	<30
Freon-11	<30
1,1-dichloroethylene	<30
Dichloromethane	<30
Freon-113	<30
1,1-dichloroethane	<30
c-1,2-dichloroethene	190
Chloroform	<20
1,2-dichloroethane	<20
1,1,1-trichloroethane	<20
Benzene	394
Carbon tetrachloride	<30
1,2-dichloropropane	<30
Trichloroethene	23.3
t-1,3-dichloropropene	<30
c-1,3-dichloropropene	<30
1,1,2-trichloroethane	<30
Toluene	478
1,2-dibromoethane	<30
Perchloroethylene	39.8
Chlorobenzene	143
Ethylbenzene	1070
m+p-xylenes	686
Styrene	<30
1,1,2,2-tetrachloroethane	<30
o-xylene	406
4-ethyl-toluene	193
1,3,5-trimethylbenzene	142
1,2,4-trimethylbenzene	466
m-dichlorobenzene	<20
p-dichlorobenzene	230
Benzylchloride	<40
o-dichlorobenzene	42.2
1,2,4-trichlorobenzene	<60
Hexachlorobutadiene	<50

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Hewitt Pit Landfill
Date Received: August 16, 2005
Date Analyzed: August 17, 2005

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Freon-12	HP-Inlet	232	231	232	0.22
Methyl chloride	HP-Inlet	<40	<40	---	---
Freon-114	HP-Inlet	73.1	73.6	73.4	0.34
Vinyl chloride	HP-Inlet	530	525	528	0.47
Methyl bromide	HP-Inlet	<40	<40	---	---
Ethyl chloride	HP-Inlet	<30	<30	---	---
Freon-11	HP-Inlet	<30	<30	---	---
1,1-dichloroethylene	HP-Inlet	<30	<30	---	---
Dichloromethane	HP-Inlet	<30	<30	---	---
Freon-113	HP-Inlet	<30	<30	---	---
1,1-dichloroethane	HP-Inlet	<30	<30	---	---
c-1,2-dichloroethene	HP-Inlet	185	195	190	2.6
Chloroform	HP-Inlet	<20	<20	---	---
1,2-dichloroethane	HP-Inlet	<20	<20	---	---
1,1,1-trichloroethane	HP-Inlet	<20	<20	---	---
Benzene	HP-Inlet	393	395	394	0.25
Carbon tetrachloride	HP-Inlet	<30	<30	---	---
1,2-dichloropropane	HP-Inlet	<30	<30	---	---
Trichloroethene	HP-Inlet	23.6	23.0	23.3	1.3
t-1,3-dichloropropene	HP-Inlet	<30	<30	---	---
c-1,3-dichloropropene	HP-Inlet	<30	<30	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
1,1,2-trichloroethane	HP-Inlet	<30	<30	---	---
Toluene	HP-Inlet	479	476	478	0.31
1,2-dibromoethane	HP-Inlet	<30	<30	---	---
Perchloroethylene	HP-Inlet	40.4	39.2	39.8	1.5
Chlorobenzene	HP-Inlet	145	141	143	1.4
Ethylbenzene	HP-Inlet	1080	1060	1070	0.93
m+p-xylenes	HP-Inlet	691	682	686	0.66
Styrene	HP-Inlet	<30	<30	---	---
1,1,2,2-tetrachloroethane	HP-Inlet	<30	<30	---	---
o-xylene	HP-Inlet	408	403	406	0.62
4-ethyl-toluene	HP-Inlet	193	193	193	0.0
1,3,5-trimethylbenzene	HP-Inlet	140	144	142	1.4
1,2,4-trimethylbenzene	HP-Inlet	467	464	466	0.32
m-dichlorobenzene	HP-Inlet	<20	<20	---	---
p-dichlorobenzene	HP-Inlet	230	230	230	0.0
Benzylchloride	HP-Inlet	<40	<40	---	---
o-dichlorobenzene	HP-Inlet	43.4	41.1	42.2	2.7
1,2,4-trichlorobenzene	HP-Inlet	<60	<60	---	---
Hexachlorobutadiene	HP-Inlet	<50	<50	---	---

One Tedlar bag sample, laboratory number 02285-8, was analyzed for listed TO-14 components by GC/MS. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 17 repeat measurements from the one Tedlar bag sample is 0.88%.

CHAIN OF CUSTODY RECORD

Client/Project Name: GC Environmental / Hewitt Pit LF

Project Location: Hewitt Pit Landfill, 7361 Laurel Canyon Rd., North Hollywood, CA

Project No.: 1003-9

Field Logbook No.:

Sampler: (Signature) Brian Millage

Chain of Custody Tape No.:

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	Fixed Gases	TGNMO	TO-14				REMARKS
HP-Inlet	8/16/05	1200	HP-Inlet	GAS	X	X	X				0805-8

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brian Millage (Brian Millage)	8/16/05	1515	[signature]	8/16/05	1515
[signature]	8/16/05	1605			

Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
			[signature]	8/16/05	4:00

Sample Disposal Method:	Disposed of by: (Signature)	Date	Time

SAMPLE COLLECTOR

~~HORIZON AIR MEASUREMENT SERVICES, INC~~
~~996 Lawrence Drive, Suite 108~~
~~Newbury Park, CA 91320~~
~~(805) 498-8781 Fax (805) 498-3133~~

GC Environmental
1230 N. Jefferson St.
Suite I
Anaheim, CA 92807
PH: 714-632-9969
FAX: 714-632-9968

ANALYTICAL LABORATORY

AtmAA, Inc.
Calabasas, CA

№ 8737

Attachment 4

ANNUAL SOURCE TEST REPORT

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HORIZON

AIR MEASUREMENT SERVICES, INC.

Horizon Test #: G21-008-FR
Date Tested: August 16, 2005
Report Date: September 14, 2005
Revision Number: 0

ANNUAL EMISSION COMPLIANCE TEST ON A LANDFILL GAS FLARE

Hewitt Landfill
Facility ID No. 3530 Sector PB
Application No. D96633

Prepared for:

GC Environmental
1230 North Jefferson Street, Suite J
Anaheim, California 92807

Facility:

Hewitt Landfill
7245 Laurel Canyon Boulevard
North Hollywood, California 91605

Prepared by:

Horizon Air Measurement Services, Inc.
996 Lawrence Drive, Suite 108
Newbury Park, California 91320

Regulatory Agency:

South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, California 91765

Scott H. Bunch by PAP

Scott H. Bunch
Project Manager

Richard J. Vacherot
Technical Director

HORIZON

AIR MEASUREMENT SERVICES, INC.

September 13, 2005

Mr. Brian Millage
GC Environmental
1230 N. Jefferson Street, Suite J
Anaheim, California 92807

Dear Mr. Millage:

Please find enclosed four final copies of the report entitled "Emission Compliance Test on a Landfill Gas Flare" for submittal to SCAQMD.

If you have any questions, please call me at (805) 498-8781.

Sincerely,

HORIZON AIR MEASUREMENT SERVICES, INC.

Richard Vacherot
Technical Director

SB:ng

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2. SUMMARY OF RESULTS ..... Page 3

3. FLARE DESCRIPTION AND OPERATION ..... Page 5
   - 3.1 Process Description ..... Page 5
   - 3.2 Equipment Description ..... Page 5
   - 3.3 Operating Conditions ..... Page 5

4. SAMPLING/ANALYSES ..... Page 6
   - 4.1 Sample Location ..... Page 6
   - 4.1.1 Flare Exhaust ..... Page 6
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APPENDIX A - Methods Description
APPENDIX B - Computer Printout of Results
APPENDIX C - Laboratory Data
APPENDIX D - Field Data
APPENDIX E - CEM Strip Charts
APPENDIX F - Process Data
APPENDIX G - Calibration Data
APPENDIX H - Permit to Operate

Table 1-1
Compounds of Interest
Hewitt Landfill Flare
August 2005

Parameter	Location	Method	No. of Test Runs per Condition
Total Non Methane Hydrocarbons	Inlet	SCAQMD Method 25.1	1 (in duplicate)
	Outlet	SCAQMD Method 25.3	1 (in duplicate)
Reduced Sulfur Compounds (C_1-C_3) Including H_2S	Inlet	SCAQMD Method 307.91	1
Speciated Organic Compounds	Inlet	Whole Air/GC-MS (1150 list)	1
	Outlet	Whole Air/GC-MS (1150 list)	1
Particulate Matter	Outlet	SCAQMD Method 5.1	1
Oxides of Nitrogen	Outlet	SCAQMD Method 100.1	1
Carbon Monoxide	Inlet	SCAQMD Method 25.1	1 (in duplicate)
	Outlet	SCAQMD Method 100.1	1
Oxygen	Inlet	SCAQMD Method 10.1	1 (in duplicate)
	Outlet	SCAQMD Method 100.1	1
Carbon Dioxide	Inlet	SCAQMD Method 25.1	1 (in duplicate)
	Outlet	SCAQMD Method 100.1	1
Methane	Inlet	SCAQMD Method 25.1	1 (in duplicate)
	Outlet	SCAQMD Method 25.3	1 (in duplicate)
Flow Rate/Temperature	Inlet	SCAQMD Method 1.1/2.1	1
	Outlet	Calculated	1
Moisture	Inlet	Wet Bulb/Dry Bulb	1
	Outlet	SCAQMD Method 5.1	1
BTU Content	Inlet	SCAQMD Method 25.1	1 (in duplicate)

2. SUMMARY OF RESULTS

The results of the testing program are provided in Table 2-1. All measured emission rates were within PTO limits.

Since the average measured exhaust stack gas velocity was below the lowest quantifiable limit of SCAQMD Method 2.1 (0.05 in. W.G. ΔP), the exhaust flow rate was calculated based upon the following equation:

$$\textit{Landfill Gas Flow Rate (scfm)} \times \textit{Expansion Factor} \times (20.92/20.92 - \%\ O_2)$$

Emission rate values are based upon calculated exhaust flow rates. Section 5 provides a more detailed discussion of results.

Table 2-1

Summary of Results
Hewitt Landfill Flare
August 16, 2005

Parameter	Measured Emissions	Allowable Emissions
Landfill Gas Flow Rate	627scfm	1500 scfm
Oxides of Nitrogen (as NO_2)	0.121 lb/hr 0.015 lb/MMBtu	1.2 lbs/hr 0.06 lb/MMBtu (Rule 1303)
Particulate Matter	0.03 lb/hr	3.6 lbs/hr
Carbon Monoxide	< 0.29 lb/hr	4.0 lbs/hr
Reactive Organic Gases (as CH_4)	0.050 lb/hr 1.9 ppm C_6 @ 3% O_2	2.0 lb/hr 20 ppm C_6 @ 3% O_2 (Rule 1150.1)
Oxides of Sulfur (as SO_2)*	0.14 lb/hr	0.15 lbs/hr

* Value calculated based upon the concentration of landfill gas reduced sulfur compounds measured at the flare inlet.

3. FLARE DESCRIPTION AND OPERATION

3.1 Process Description

Landfill gas, which contains 30% to 60% methane, is produced when buried refuse decomposes. The subject equipment collects and destroys the gas that is produced at the Hewitt Landfill. The gas collection system utilizes wells installed in refuse to collect the landfill gas (LFG). The depth of the wells varies with the depth of the waste. The destruction of the collected gas occurs in the ground flare.

3.2 Equipment Description

Following is a description of the subject landfill gas collection and flare system:

1. Flare, John Zink, Model ZTOF, 8'-0" Dia. X 24'-0" H., 20,000,000 Btu/hr, with an automatic shutoff valve on the landfill gas inlet, flame arrestor, UV scanner and two automatic temperature controlled air dampers.
2. Exhaust system with two 15 H.P. blowers collecting gas from the LFG collection wells.
3. Inlet separator for water and particulate removal, V101 1'-8" O.D. X 7'-6" H.
4. Condensate water pump, P101, pneumatic to transfer water from V101 to the 1,000 gallon holding tanks.
5. Condensate destruction station with an air compressor, two 1000 gallons capacity holding tanks, pneumatic pump and spray nozzle.

3.3 Operating Conditions

The following operating conditions are set by Permit conditions:

Maximum Gas Flow	1500 scf/minute
Stack Temperature	≥1400 °F
Condensate Flow Rate	≤2 gpm

The landfill gas flow rate and stack temperature were recorded by Horizon and are included in Appendix E - Process Data.

4. SAMPLING/ANALYSES

The sampling/analytical program had been designed to quantify the parameters of interest outlined in Table I-1.

4.1 Sample Location

4.1.1 Flare Exhaust

At the flare exhaust, 24 sample points (12 per diameter), determined in accordance with SCAQMD Method 1.1, were utilized for the determination of the following compounds:

- Particulate matter
- NO_X
- CO
- O_2/CO_2
- Flow Rate
- Moisture

A single sample point was utilized for the following compound sample collection:

- speciated organic compounds
- total non-methane hydrocarbons
- methane

4.1.2 Landfill Gas Supply Line

A single sample point was utilized for the collection of the following compounds:

- total non-methane hydrocarbons
- methane
- CO
- CO_2/O_2
- reduced sulfur compounds
- speciated organic compounds
- BTU content
- moisture

4.6 Carbon Monoxide, Carbon Dioxide, Oxygen and Nitrogen (Inlet)

Carbon monoxide and carbon dioxide concentrations of the landfill gas were determined using SCAQMD Method 25.1 total combustion analyses. Oxygen was determined using SCAQMD Method 10.1 analysis from Method 25.1 samples. Nitrogen was determined by difference. A description of SCAQMD Methods 10.1 and 25.1 are provided in Appendix A.

4.7 Hydrogen sulfide and C_1 - C_3 Sulfur Compounds (Inlet)

One hydrogen sulfide and C_1 - C_3 sulfur compound samples of the landfill gas were collected using the Tedlar bag collection system depicted in Appendix A. All system components coming in contact with the landfill gas were constructed of polypropylene or Teflon. All reduced sulfur samples were analyzed within twenty-four (24) hours of collection. Hydrogen sulfide and C_1 - C_3 sulfur compounds are analyzed using a Method 307.91 equivalent by AtmAA, Inc. Equivalency has been formally granted by SCAQMD to AtmAA, Inc. for this Method. A description of SCAQMD Method 307.91 equivalent is provided in Appendix A.

4.8 Speciated Organic Compounds - SCAQMD Rule 1150.1 List (Inlet/Exhaust)

Speciated organic compounds were collected at the landfill gas inlet and exhaust using the Tedlar bag collection system depicted in Appendix A. Speciated organic compounds were identified and quantified using GC/MS analytical procedures.

4.9 Total Non-Methane Hydrocarbons, Methane (Inlet)

Total non methane hydrocarbons and methane concentration of the landfill gas was determined using SCAQMD Method 25.1. A description of SCAQMD Method 25.1 is provided in Appendix A.

4.10 Total Non Methane Hydrocarbons and Methane (Exhaust)

Methane and total non-methane hydrocarbon (TNMHC) samples were collected at the outlet and analyzed using SCAQMD Method 25.3 procedures. A description of SCAQMD Method 25.3 is provided in Appendix A.

Table 5-1
Summary of Results
Hewitt Landfill
Flare
August 16, 2005

	LANDFILL GAS	FLARE EXHAUST
Run Number	1	1
STACK GAS CHARACTERISTICS		
Temperature, degrees F	NA	1496
Moisture, %	8.4	8.3
Flow Rate, acfm	684	
Flow Rate, dscfm	627	3323 *
Fixed Gases		
Oxygen, %	5.76	10.63
Carbon Dioxide, %	21.65	8.97
Methane, %	21.25	-
BTU Value, Btu/scf	215	-
EMISSIONS		
Oxides of Nitrogen		
ppm	-	4.99
ppm @ 3 % O2	-	8.70
lb/hr	-	0.121
lb/MMBtu	-	0.015
Carbon Monoxide		
ppm	-	< 20.0
ppm @ 3 % O2	-	< 34.9
lb/hr	-	< 0.29
lb/MMBtu	-	< 0.04
Total Particulate Matter		
gr/dscf	-	0.0010
lb/hr	-	0.03
Total Non-Methane Hydrocarbons (Reactive Organic Compounds)		
ppm, as Methane	1102	5.93
lb/hr, as Methane	1.74	0.050
Sulfur Compounds		
Hydrogen Sulfide, ppm	21.4	-
Total Sulfur, ppm as H2S	22.1	-
Oxides of Sulfur**		
lb/hr	-	0.140

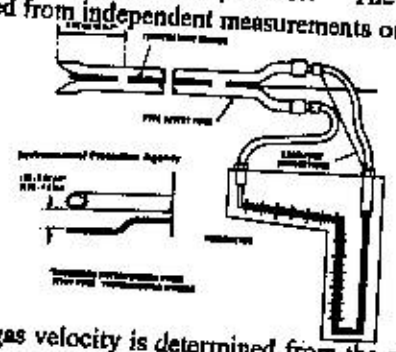
* Flow Rate calculated stoichiometrically
** Calculated from sulfur balance

Method: **Stack Gas Velocity and Volumetric Flow Rate**

Applicable for Methods: EPA Method 2, CARB 2, SCAQMD Method 2.1

Principle: The average gas velocity in a stack gas is determined from the gas density and from measurement of the average velocity head with a type S or standard pitot tube.

Sampling Procedure: Set up the apparatus as shown in the figure. Measure the velocity head and temperature at the traverse points specified by EPA Method 2, CARB Method 2 or SCAQMD Method 2.1. Measure the static pressure in the stack and determine the atmospheric pressure. The stack gas molecular weight is determined from independent measurements of O_2, CO_2 and H_2O concentrations.



Sample Recovery: and Analyses: The stack gas velocity is determined from the measured average velocity head, the measured dry concentrations of O_2 and CO_2 and the measured concentration of H_2O. The velocity is determined from the following set of equations:

Where,

ΔP = velocity head, inches in H_2O
Ts = gas/temperature, degrees R
Ps = absolute static pressure
Mwd = dry molecular weight
Mw = molecular weight
Cp = pitot flow coefficient

Dry molecular weight of stack gas

$$Mwd = 0.44\ (\%CO_2) + 0.32\ (\%O_2) + 0.28\ (\%N_2 + \%CO)$$

Molecular weight of stack gas, wet basis

$$M_w = (M_{wd}\ x\ M_d) + 18\ (1 - M_d)$$

$$Where,\ M_d = \frac{100 - Bws}{100}$$

Stack gas velocity

$$(V_s)\ avg. = (5130)\ C_p\ x\ \sqrt{\Delta P}\ avg.\ x\ \sqrt{T_s}\ x\ \left(\frac{1}{P_s\ x\ M_w}\right)^{1/2}$$

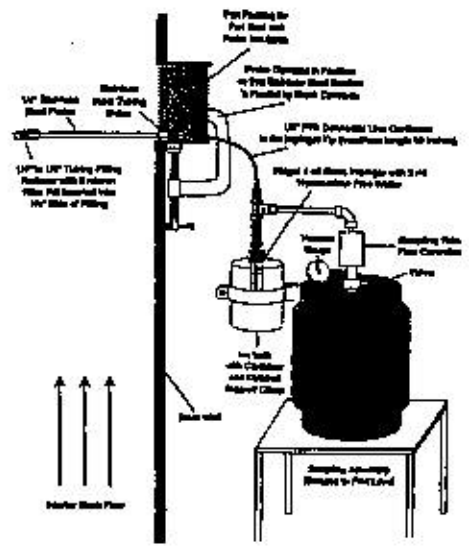
Method: **Determination of Total Gaseous Non-Methane Organic Emissions as Carbon**

Reference: SCAQMD Method 25.3

Principle: A sample of flue gas is drawn through a condensate trap (mini-impinger) and into an evacuated six liter SUMMA canister. Volatile organic compounds (VOC), as total gaseous non-methane organics (TGNMO), are determined by combining results from independent analysis of condensate in the traps and gases in the SUMMA canisters.

Sampling Procedure: Duplicate gas samples are withdrawn from a source at a constant rate through condensate traps immersed in an ice bath followed by evacuated six liter (nominal) SUMMA canisters. Heavy organic components condense as liquids and solids in the condensate traps. Lighter components pass as gases through the traps into the canisters. The combined results from canisters and mini-impinger analyses are used to determine a qualitative and quantitative expression of the effluent gas stream. Duplicate sampling is designed into the system to demonstrate precision.

The sampling apparatus is checked for leaks prior to the sampling program by capping the end of the sample probe. The sample flow valve is then opened and then closed to introduce vacuum to the system. The vacuum drop should then cease numerically above 10 in. Hg. A cease in movement of the vacuum gauge for a period of ten minutes indicates an acceptable leak check. When sampling is initiated, the vacuum gauge must indicate a canister vacuum of greater than 28 in. Hg. Immediately after sampling a post-test leak check is performed, followed by a rinse of the PFA line into the condensate trap with 0.5 to 1.0 ml of hydrocarbon free water.



Analytical Procedure: Condensate traps are analyzed for total organic carbon by liquid injection into an infrared total organic carbon analyzer.

The organic content of the sample fraction collected in each canister is measured by injecting a portion into the FID/TCA analysis system which uses a two phase gas chromatography (GC) column to separate carbon monoxide (CO), methane (CH_4) and carbon dioxide (CO_2) from each other and from the total gaseous non-methane organics (TGNMO) which are eluted as backflush. All eluted components are first oxidized to CO_2 by a hopcalite catalyst and then reduced to methane by a nickel catalyst. The resulting methane is detected using the flame ionization detector. A gas standard containing CO, CH_4, CO_2 and propane, traceable to NBS, is used to calibrated the FID/TCA analysis system.

The system bias check is accomplished by transporting the same gases used to zero and span the analyzers to the sample system as close as practical to the probe inlet. This is accomplished by opening a valve located on the probe, allowing the gas to flow to the probe and back through the moisture knockout and sample line to the analyzers. During this check the system is operated at the normal sampling rate with no adjustments. The system bias check is considered valid if the difference between the gas concentration exhibited by the measurement system which a known concentration gas is introduced at the sampling probe tip and when the sample gas is introduced directly to the analyzer, does not exceed ± 5% of the analyzer range.

Response Time:

Response time (upscale and downscale) for each analyzer is recorded during the system bias check. Upscale response time is defined as the time it takes the subject analyzer gas to reach 95% of the calibration gas value after introducing the upscale gas to the sample bias calibration system. Downscale response time is defined as the time it takes the subject analyzer to return to zero after the zero gas is introduced into the sample system bias calibration system.

NO_x Conversion Efficiency

The NO_x analyzer NO_2 conversion efficiency is determined by injecting a NO_2 gas standard directly into the NO_x analyzer (after initial calibration). The analyzer response must be a least 90% of the NO_2 standard gas value.

NO_2 Converter Efficiency (alternate method)

The mid level NO gas standard is directly injected into a clean leak-free Tedlar bag. The bag is then diluted 1:1 with air (20.9 % O_2). The bag is immediately attached to the NO sample line. The initial NO_x concentration is recorded on the strip chart. After at least 30 minutes the Tedlar bag is reattached to the NO_x sample line. Analyzer response must be at 98% of the initial Tedlar bag NO_x value to be acceptable.

In between each sampling run the following procedures are conducted:

Zero and Calibration Drift Check:

Upon the completion of each test run, the zero and calibration drift check is performed by introducing zero and mid range calibration gases to the instruments, with no adjustments (with the exception of flow to instruments) after each test run. The analyzer response must be within ± 3% of the actual calibration gas value.

Analyzer Calibration:

Upon completion of the drift test, the analyzer calibration is performed by introducing the zero and mid range gases to each analyzer prior to the upcoming test run and adjusting the instrument calibration as necessary.

System Bias Check

(same as above)

A schematic of the sample system and specific information of the analytical equipment is provided in the following pages.

TABLE 1 (Cont.)

CO_2 INFRARED GAS ANALYZER -- HORIBA - MODEL PIR 2000

Response Time (0-90%)	5 seconds
Zero Drift	± 1% of full scale in 24 hours
Span Drift	± 1% of full scale in 24 hours
Linearity	± 2% of full scale
Resolution	Less than 1% of full scale
Operating Ranges (%)	0-5, 0-15, 0-25
Output	0-1 volt

SO_2 PULSED FLOURESCENT - TECO - MODEL 43C-HL

Response Time	80 seconds
Zero Drift	± 1%
Span Drift	± 1%
Linearity	± 1%
Resolution	± 1%
Operating Ranges	5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000
Output	0-10 volt

LINSEIS MODEL L2045 FOUR PEN STRIP CHART RECORDER

Pen Speed	up to 120 cm/min
Measuring Response	0-20 volts
Linearity Error	0.25%
Accuracy	0.3%
Zero Suppression	Manual (from 1 to 10X full scale)

Method:	**NO/NO_X by Continuous Analyzer**
Applicable Reference Methods:	EPA 7E, EPA 20; CARB 100, BAAQMD ST-13A, SCAQMD 100.1
Principle:	A sample is continuously withdrawn from the flue gas stream, conditioned and conveyed to the instrument for direct readout of NO or NO_X.
Analyzer:	TECO Model 10AR
Measurement Principle:	Chemiluminescence
Accuracy:	1% of full scale
Ranges:	0-2.5, 0-10, 0-25, 0-100, 0-250, 0-1000, 0-2500, 0-10,000 ppm
Output:	0-10 V
Inferences:	Compounds containing nitrogen (other than ammonia) may cause interference.
Response Time:	90%, 1.5 seconds (NO mode) and 1.7 seconds (NO_X mode)
Sampling Procedure:	A representative flue gas sample is collected and conditioned using the CEM system described previously. If EPA Method 20 is used, that method's specific procedures for selecting sample points are used.
Analytical Procedure:	The oxides of nitrogen monitoring instrument is a chemiluminescent nitric oxide analyzer. the operational basis of the instrument is the chemiluminescent reaction of NO and ozone (O_3) to form NO_2 in an excited state. Light emission results chemiluminescence is monitored through an optical filter by a high sensitivity photomultiplier tube, the output of which is electronically processed so it is linearly proportional to the NO concentration. The output of the instrument is in ppmV. When NO_2 is expected to be present in the flue gas, a supercooled water dropout flask will be placed in the sample line to avoid loss of NO_2. Since NO_2 is highly soluble in water, "freezing out" the water will allow the NO_2 to reach the analyzers for analysis. The analyzer measures NO only. In the NO_X mode, the gas is passed through a moly converter which converts NO_2 to NO and a total NO_X measurement is obtained. NO_2 is determined as the difference between NO and NO_X. Use of a moly converter instead of a stainless steel converter eliminates NH_3 interference; NH_3 is converted to NO with a stainless converter, but not with a moly converter.

Method:	**Carbon Dioxide (CO_2) by Continuous Analyzer**
Applicable Reference	EPA 3A, CARB 100, BAAQMD ST-5, SCAQMD 100.1
Principle:	A sample is continuously drawn from the flue gas stream, conditioned and conveyed to the instrument for direct readout of CO_2 concentration.
Analyzer:	PIR 2000
Measurement Principle:	Non-dispersive infrared (NDIR)
Accuracy:	1% of full scale
Ranges:	0-5, 0-15%
Output:	0-1 V
Interferences:	A possible interference includes water. Since the instrument receives dried sample gas, this interference is not significant.
Response Time:	5 seconds
Sampling Procedure:	A representative flue gas sample is collected and conditioned using the CEM system described previously.
Analytical Procedure:	Carbon dioxide concentrations are measured by short path length non-dispersive infrared analyzers. These instruments measure the differential in infrared energy absorbed from energy beams passed through a reference cell (containing a gas selected to have minimal absorption of infrared energy in the wavelength absorbed by the gas component of interest) and a sample cell through which the sample gas flows continuously. The differential absorption appears as a reading on a scale of 0-100%.

Method:	**Sulfur Dioxide (SO_2) by Pulsed Flourescent**
Applicable Reference Methods:	EPA 6C; CARB 1-100; BAAQMD ST-6, SCAQMD 100.1
Principle:	A sample is continuously drawn from the flue gas stream, conditioned an conveyed to the instrument for direct readout of SO_2 concentration.
Analyzer:	TECO, Model 43C-HL
Measurement Principle:	Pulsed flourescense SO_2 analyzer
Precision:	0.1% ppm
Ranges:	5, 10, 20, 50, 100, 200, 500, 1,000, 2,000, 5,000 ppm
Output:	0-10 V
Interferences:	Less than lower detectable limit except for the following: NO <3 ppb, m-xylene <2 ppm, H_2O <2% of reading.
Response Time:	80 seconds
Sampling Procedure:	A representative flue gas sample is collected and conditioned using the CEM system described previously. Sample point selection has been described previously.
Analytical Procedure:	The sample flows into the flourescent chamber, where pulsating UV light excites the SO_2 molecules. The condensing lens focuses the pulsating UV light into the mirror assembly. The mirror assembly contains four selecting mirrors that reflect only the wavelengths which excite SO_2 molecules. As excited SO_2 molecules decay to lower energy states they emit UV light that is proportional to the SO_2 concentration. The PMT (photomultiplier tube) detects UV light emission from decaying SO_2 molecules. The PMT continuously monitors pulsating UV light source and is connected to a circuit that compensates for fluctuating in the light.

Equipment:

A Hewlett-Packard 5890 series II gas chromatograph (GC), Hewlett-Packard 5971A Mass Selective Detector, 486 MS/DOS computer and HP operating software are used for all sulfur species except H_2S. The GC is fitted with a heated 6-port Valco 1/16" line, sample injection valve. All gas transfer lines to the sample loop are fused silica lined Restek tubing. The fixed volume (0.40 ml) sample loop is Teflon. The transfer line from the valve to the GC column is cleaned and treated blank 0.53 mm OD fused silica line with polyimide coating.

H_2S is measured using a Varian 1400 GC with the Hall oxidative quartz tube furnace and electrolytic cell attached. Nitrogen is used as carrier and oxygen is used as the combustion gas.

Multi-component gaseous standards are prepared by Scott Specialty Gas and are contained in two separate aluminum cylinders and a Scotty IV canister as follows:

Cylinder A (CAL12250)

Carbonyl sulfide	15.2 ppmv
Ethyl mercaptan	13.4 ppmv
Carbon disulfide	16.1 ppmv

Cylinder B (CAL3563)

Hydrogen sulfide	12.3 ppmv
Methyl mercaptan	22.6 ppmv
Dimethyl sulfide	20.3 ppmv
Dimethyl disulfide	

Scotty IV (mix 252)

Hydrogen Sulfide 93.8 ppmv

Gas tight clean glass volumetric syringes of 10, 20, & 50 ml capacity, with smooth glass barrel (not sintered glass) are used to make volumetric dilutions of sample or standard.

GC/MS SIM parameters:

	Dwell per ion	start time	Ions
Group 1:	75 msec.	8.0 min.	60
Group 2:	75 msec.	10.0 min.	47,48,64
Group 3:	75 msec.	14.5 min.	47,62,76,78,43,61
Group 4:	75 msec.	19.5 min.	79,94,122,142,156, 128

Components monitored:

Group 1: carbonyl sulfide
Group 2: methyl mercaptan
Group 3: ethyl mercaptan, dimethyl ~~di~~sulfide, carbon disulfide, isopropyl mercaptan, n-propyl mercaptan
Group 4: dimethyl sulfide
di

A response factor for a standard component is calculated as:

rf = std. amt. / std. area

Sample concentration is calculated using the response factor:

conc. = rf x sample area

At least 10% of samples in a sample set, or minimum of one sample per set are analyzed twice to determine precision. A separate report showing repeat analyses results is included with an analytical report of sulfur component concentrations per each sample set. Repeat analyses must agree within +/- 10% except for component concentrations less than 1 ppmv. A nitrogen blank is analyzed between standards and samples to verify that there is no component carry-over. Samples are analyzed as soon after they are ıved as possible, preferably same day and within four hours of action. Data is being gathered to determine stability of sulfur compounds in Tedlar* bag containers in an effort to extend sample holding time. Samples are usually analyzed before standards to prevent carry-over, since most sulfur components measured in landfill gas samples are lower in concentration than those in the standards.

GC/MS Analysis Conditions:

GC conditions: a 30 M x 0.2 mm, 0.50 um film methyl silicon PONA column from Hewlett-Packard is temperature programmed as follows:

-65 degrees C, hold min.
15 degrees C min. to 220 degrees C, hold 5 min.

Valve oven Temp. 150 degrees C
GC/MS transfer line 180 degrees C
Carrier gas is helium, pressure regulated at 21 psi.

MS Conditions:

MS calibration is performed periodically prior to performing analyses using PFTBA (perfluoro-tributylamine) as supplied by Hewlett-Packard and as controlled by HP software under the mid-range auto tine program.
Solvent delay = 8 min.

Hall Detector/GC Analysis Conditions:

6' x 1/8" Teflon, Chromosil 310 analytical column
45 degrees C, isothermal
Valve oven & transfer line Temp. 105 degrees C.
Carrier gas is nitrogen, flow rate 18 cc/min.
Oxygen oxidation gas, flow rate 18 cc/min.
Quartz tube oxidation oven Temp. 650 degrees C.

SCAQMD Method 25.1 Analysis

Facility: **Hewitt Landfill**
Source: **Flare**
Job No.: **G21-008**
Date: **8/16/2005**

TOTAL COMBUSTION ANALYSIS RESULTS

Sample ID	Inlet	Inlet	
Run Number	1A	1B	Average
Methane in Tank	218000	207000	212500
TNMHC,Tank (Noncond.)	66	65	
TNMHC - Condensables	1057.6	1015.4	
TNMHC - Total	1123.2	1080.3	
CO Concentration (ppm)	5	5	5
CO2 Concentration (ppm)	222000	211000	216500
O2 Concentration (%)	4.91	6.61	5.76
Sample Parameters			
Tank Number	I	C	
Trap Number	G	K	
Sample Tank Volume (l)	12.299	12.262	
Initial Pressure (Torr)	1.3	1.3	
Initial Temperature (deg. K)	292	292	
Final Pressure (mm Hg)	455	467	
Final Temperature (deg. K)	292	292	
Sample Volume (l)	7.37	7.54	
Analysis Pressure (mm Hg)	820	820	
Analysis Temperature (deg. K)	292	292	
ICV Volume (l)	2.266	2.266	
ICV Final Pressure (mm Hg)	800	800	
ICV Final Temperature (deg. K)	292	292	
CO2 in ICV (ppm)	3440	3380	
TNMHC,Trap (Condensables)	1057.6	1015.4	
Stack Total TNMHC	1123	1080	1102

NOTE: All hydrocarbon values are in terms of ppm, v/v, as methane.

EXPANSION AND F-FACTOR CALC. METHOD

Client:	Hewitt Landfill	Date:	8/16/2005
Location:	North Hollywood, CA	Job #:	G21-008
Unit:	Flare	Run#:	1

Fuel temperature		deg. F	Std. Temp.		deg. F
Fuel Pressure		psi			
Fuel Flow Rate		cfm	Fuel Flow	627	dscfm
Exhaust Outlet O2	10.63	%			
Barometric Pressure	29.24				

COMPONENTS		MOLE %	HHV btu/ft3	LLV btu/ft3	Exp Factor dscf/scf fuel
Oxygen		5.76			0.058
Nitrogen		51.34			0.513
Carbon Dioxide		21.65			0.217
Methane		21.25	214.63	193.25	1.821
Ethane	C2		0.00	0.00	0.000
Propane	C3		0.00	0.00	0.000
Iso-Butane	C4		0.00	0.00	0.000
N-Butane			0.00	0.00	0.000
Iso-Pentane	C5		0.00	0.00	0.000
N-Pentane			0.00	0.00	0.000
Hexane	C6		0.00	0.00	0.000
Heptane	C7		0.00	0.00	0.000
Octane	C8		0.00	0.00	0.000
Nonane	C9		0.00	0.00	
Total		**100.00**	**214.63**	**193.25**	**2.61**

CALCULATIONS

EXHAUST FLOW RATE, Q = (scfm*Exp Fac)*(20.92(20.92-%O2)

3323 DSCFM

EPA F-Factor = (scf exhaust/scf fuel)/(btu/scf fuel)*(1000000 btu/MMbtu)

12154 dscf/Mmbtu

SCAQMD Method 5.1 Particulate Emissions

Facility: Hewitt Landfill
Source: Flare
Job No.: G21-008
Date: 8/16/2005

STANDARD TEMPERATURE	Degrees F	60	
RUN NUMBER	******	1	1
DATE OF RUN	******	8/16/2005	8/16/2005
CLOCK TIME: INITIAL	******	1300	1300
CLOCK TIME: FINAL	******	1423	1423
AVG. STACK TEMPERATURE	Degrees F	1496	
AVG. SQUARE DELTA P	Inches H20	0.1000	
NOZZLE DIAMETER	Inches	1.057	
BAROMETRIC PRESSURE	Inches HG	29.24	
SAMPLING TIME	Minutes	60	
SAMPLE VOLUME	Cubic Feet	58.041	
AVG. METER TEMP.	Degrees F	74.9	
AVG. DELTA H	Inches H20	2.80	
DGM CALIB. FACTOR [Y]	******	0.9903	
WATER COLLECTED	Milliliters	106	
CO 2	Percent	8.97	
O 2	Percent	10.63	
CO	Percent		
CH4	Percent		
N 2	Percent	80.40	
STACK AREA	Square Inches	7238.2	
STATIC PRESSURE	Inches WG.	-0.010	
PITOT COEFFICIENT	******	0.84	
SAMPLE VOLUME DRY	DSCF	54.99	
WATER AT STD.	SCF	5.0	
MOISTURE	Percent	8.3	
MOLE FRACTION DRY GAS	******	0.92	
MOLECULAR WT.DRY	lb/lb Mole	29.86	
EXCESS AIR	Percent	100	
MOLECULAR WT. WET	lb/lb Mole	28.87	
STACK GAS PRESSURE	Inches HG	29.24	
STACK VELOCITY	AFPM	656	
VOLUMETRIC FLOWRATE, DRY STD.	DSCFM	7852	3323 *
VOLUMETRIC FLOWRATE, ACTUAL	ACFM	32970	
ISOKINETIC RATIO	Percent	95	

CALCULATIONS FOR GRAIN LOADING AND EMISSION RATES

TOTAL PARTICULATE	mg	3.60	3.60
PARTICULATE CONCENTRATION	gr/dscf	0.0010	0.0010
PARTICULATE EMISSION RATE	lb/hr	0.068	0.029

*Denotes the use of calculated flowrate based on expansion factor of LFG.

Facility:	**GC Env. / Hewitt Landfill**	**Run No.:**	**1**
Source:	**Flare**	**Fuel:**	**L.F.G.**
Job No.:	**G21-008**	**Std. O2:**	**3**
Date:	**08/16/05**		

	O2 %	CO2 %	NOx ppm	CO ppm
Range:	25	15	25	100
Span:	12.00	7.00	12.50	50.30
Low:				
High:	20.01	12.01	23.80	80.20

** POST-TEST DRIFT (DIRECT)**

Values				
Zero:	0.00	0.03	0.15	0.00
Span:	12.00	7.02	12.75	50.00

Percent Drift				
Zero:	0.00	0.20	0.60	0.00
Span:	0.00	0.13	1.00	-0.30

** PRE-TEST BIAS **

Values				
Zero:	0.05	0.03	0.05	0.00
Span:	11.98	6.99	12.48	49.90

** POST-TEST BIAS **

Values				
Zero:	0.15	0.08	0.30	0.00
Span:	11.98	6.96	12.55	49.70

** BIAS CORRECTION **

Zero Average	0.10	0.05	0.18	0.00
Span Average	11.98	6.98	12.51	49.80

** POST-TEST DRIFT (BIAS)**

Percent Drift				
Zero:	-0.40	-0.30	-1.00	0.00
Span:	0.00	0.20	-0.30	0.20

Bias-Corrected Concentration	**10.63**	**8.97**	**4.99**	**3.90**
Bias-Corrected Conc.(O2 adjusted)			**8.70**	**6.79**

** RAW AVERAGE CONCENTRATION **

Average:		10.61	8.92	5.10	3.86
O2 adjust:	3.0			8.88	6.72
Date	Time	O2	CO2	NOx	CO
16-Aug-05	1300	10.20	9.28	6.08	-0.29
16-Aug-05	1301	11.12	8.53	4.74	-0.17
16-Aug-05	1302	11.54	8.20	4.79	-0.02
16-Aug-05	1303	10.93	8.70	5.72	0.18
16-Aug-05	1304	10.68	8.88	5.40	-0.16
16-Aug-05	1305	11.09	8.56	4.66	55.39
16-Aug-05	1306	11.30	8.40	4.56	4.95
16-Aug-05	1307	10.70	8.90	5.14	0.05
16-Aug-05	1308	10.82	8.77	4.93	0.17

Facility: Hewitt Landfill
Source: Flare
Job No.: G21-008
Date: 8/16/2006

PRETEST CALIBRATION ERROR

LEAK CHECK Good

RANGE :	25 O2	15 CO2	100 CO	25 NOx
ZERO				
Instrument	0.00	0.00	0.00	0.02
Cylinder	0.00	0.00	0.00	0.00
Difference (%)	0.00	0.00	0.00	0.08
LOW LEVEL				
Instrument				
Cylinder				
Difference (%)				
MID LEVEL				
Instrument	12.00	6.98	50.50	12.55
Cylinder	12.00	7.00	50.30	12.50
Difference (%)	0.00	-0.13	0.20	0.20
HIGH LEVEL				
Instrument	19.86	12.08	80.20	23.80
Cylinder	20.01	12.01	80.20	23.80
Difference (%)	-0.12	0.33	0.00	0.00

PRETEST LINEARITY

	Cylinder	Instrument
	O2	
Zero	0.00	0.00
High Level	20.01	19.98
Slope	1.00	
Intercept	0.00	Status
Predicted Value	11.98	<1
Linearity (%)	0.07	PASS
	CO2	
Zero	0.00	0.00
High Level	12.01	12.08
Slope	1.00	
Intercept	0.00	Status
Predicted Value	7.68	<1
Linearity (%)	-0.33	PASS
	CO	
Zero	0.00	0.00
High Level	80.20	80.20
Slope	1.00	
Intercept	0.00	Status
Predicted Value	50.30	<1
Linearity (%)	0.20	PASS
	NOX	
Zero	0.00	0.02
High Level	23.80	23.80
Slope	1.00	
Intercept	-0.02	Status
Predicted Value	12.51	<1
Linearity (%)	0.18	PASS

SYSTEM RESPONSE TIME

	#1	#2	#3
Upscale			
NOx	24		
CO	55		
O2	25		
CO2	22		
Downscale			
NOx	26		
CO	52		
O2	23		
CO2	18		

NO2 CONVERTER EFFICIENCY

	ppm	%	status
Cylinder(Co)	19.50		
NO Mode(C1)	0.50		
NOx Mode(C2)	19.48		
D1	19.00		
D2	18.95		
D3	0.05		
CE		99.74	
CE > 90 %			PASS
D3 <1.0 ppm	0.05		PASS

POST TEST CALIBRATION ERROR

LEAK CHECK Good

	O2	CO2	CO	NOx
ZERO				
Instrument	0.00	0.02	0.00	0.00
Cylinder	0.00	0.00	0.00	0.00
Difference (%)	0.00	0.13	0.00	0.00
LOW LEVEL				
Instrument				
Cylinder				
Difference (%)				
MID LEVEL				
Instrument	12.00	7.00	50.00	12.50
Cylinder	12.00	7.00	50.30	12.50
Difference (%)	0.00	0.00	-0.30	0.00
HIGH LEVEL				
Instrument	19.95	12.10	80.05	23.65
Cylinder	20.01	12.01	80.20	23.80
Difference (%)	-0.24	0.60	-0.15	-0.60

POST TEST LINEARITY

	Cylinder	Instrument
	O2	
Zero	0.00	0.00
High Level	20.01	19.95
Slope	1.00	
Intercept	0.00	Status
Predicted Value	11.96	<1
Linearity (%)	0.14	PASS
	CO2	
Zero	0.00	0.02
High Level	12.01	12.10
Slope	0.99	
Intercept	-0.02	Status
Predicted Value	7.06	<1
Linearity (%)	-0.41	PASS
	CO	
Zero	0.00	0.00
High Level	80.20	80.05
Slope	1.00	
Intercept	0.00	Status
Predicted Value	50.21	<1
Linearity (%)	-0.21	PASS
	NOX	
Zero	0.00	0.00
High Level	23.80	23.65
Slope	1.01	
Intercept	0.00	Status
Predicted Value	12.42	<1
Linearity (%)	0.32	PASS

Table 5-2
Trace Organic Species
Destruction Efficiency Results
Hewitt Landfill
Flare
August 16,2005

Species	Inlet Concentration (ppb)	Inlet Emission Rate (lb/hr)	Outlet Concentration (ppb)	Outlet Emission Rate (lb/hr)	Destruction Efficiency (%)
Hydrogen Sulfide	21000	7.09E-02	< 500.00	< 8.96E-03	> 87.37
Benzene	396	3.06E-03	0.44	1.80E-05	99.41
Benzychloride	< 40	< 5.03E-04	0.80	5.34E-05	NA
Chlorobenzene	148	1.66E-03	< 0.30	< 1.78E-05	98.92
Dichlorobenzenes	332	4.83E-03	1.10	8.49E-05	98.24
1,1-dichloroethane	< 30	< 2.94E-04	< 0.30	< 1.56E-05	NA
1,2-dichloroethane	< 20	< 1.96E-04	< 0.30	< 1.56E-05	NA
1,1-dichloroethylene	< 30	< 2.88E-04	< 0.30	< 1.53E-05	NA
Dichloromethane	< 30	< 2.53E-04	< 0.30	< 1.34E-05	NA
1,2-dibromoethane	< 30	< 5.58E-04	< 0.30	< 2.96E-05	NA
Perchloroethene	41	9.60E-04	< 0.20	< 2.49E-05	> 97.41
Carbon tetrachloride	< 30	< 4.58E-04	< 0.20	< 1.62E-05	NA
Toluene	496	4.52E-03	0.37	1.79E-05	99.604
1,1,1-trichloroethane	< 20	< 2.63E-04	< 0.20	< 1.40E-05	NA
Trichloroethene	23	3.04E-04	< 0.20	< 1.38E-05	> 95.47
Chloroform	< 20	< 2.36E-04	< 0.30	< 1.88E-05	NA
Vinyl Chloride	542	3.36E-03	< 0.30	< 9.85E-06	> 99.71
m xylenes	732	7.69E-03	< 0.40	< 2.23E-05	> 99.71
o+p xylene	426	4.47E-03	< 0.30	< 1.67E-05	> 99.63
TNMHC	1101746	1.75E+00	5925	4.98E-02	97.15

Note: All values preceded by "<" are below the detection limit - reported values are detection limit values.
NA--Not applicable: Destruction efficiency cannot be calculated since both inlet and outlet values are below the detection limit.

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LABORATORY ANALYSIS REPORT

Organic Carbon Analysis in Water Impinger and Methane & TGNMO Analysis in SUMMA Canister Samples from Impinger/Canister Train Sample Collection

Report Date: August 29, 2005
Client: Horizon Air Measurement Services, Inc.
Client Project No.: G21 - 008
Source Location : GC Environmental / Hewit Landfill
Source ID: flare inlet

Date Received: August 16, 2005
Date Analyzed: August 17, & 24, 2005

Methane and total gaseous non-methane organics were measured by flame ionization detection/total combustion analysis (FID/TCA). Organic carbon in water vial samples were measured by Dohrman total organic carbon analyzer, water FID/TCA.

AtmAA Lab No.	Sample ID	Canister Methane	Canister Ethane	Canister TGNMO	Impinger Organic Carbon	Impinger Volume	P_1	P2
		(concentration, ppmv)				(ml)		
02285-2	S22	<1	<1	5.26	—	—	521	820
	Impinger H39	—	—	—	0.82	1.91	—	—
02285-3	S21	<1	<1	4.54	—	—	608	820
	Impinger H40	—	—	—	1.23	2.67	—	—

TGNMO is total gaseous non-methane organics (excluding ethane), reported as ppm carbon.
Ethane is reported as ppmv carbon.
** Note - Impinger sample results are not field blank corrected. The field blank (impinger H38) contained 1.03 ug carbon as methane, corresponding to 0.45 ppm carbon for a 4.61 liter sample.*
P_1 and P_2 are initial and final pressures measured in mm Hg.

Michael L. Porter
Laboratory Director

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LABORATORY ANALYSIS REPORT

CO, CH_4, CO_2, and TGNMO Analysis in Tanks and Traps by SCAQMD Method 25 (FID/TCA)

Report Date: August 29, 2005
Client: Horizon Air Measurement Services, Inc.
Client Project No.: G21-006
Source Location : GCE Hewitt
Source ID: Flare Inlet

Date Received: August 16, & 17, 2005
Date Analyzed: August 22, & 29, 2005

AtmAA Lab No.	Sample ID			tank CO	tank CH_4	tank CO_2	tank Ethane	tank TGNMO	trap CO2 in ICV	tank Oxygen	P_1	P_2
	Tank	Trap	ICV	(Concentrations in ppmv)						(%v)		
02285-4	I	G	15	<5	218000	222000	<5	65.6	3440	4.91	455	820
02285-5	C	K	K	<5	207000	211000	<5	64.9	3380	6.61	467	820
trap burn system blank		U							36.7			

TGNMO is total gaseous non-methane (excluding ethane) organics reported as ppmv carbon. Ethane is reported as ppmv carbon.

P_1 - Initial Pressure, mm Hg
P_2 - Final Pressure, mm Hg

Michael L. Porter
Laboratory Director

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LABORATORY ANALYSIS REPORT

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SCAQMD Rule 1150.1 Components Analysis in Inlet Gas Tedlar Bag Sample

Report Date: August 23, 2005
Client: Horizon
Project Location: GC Env. / Hewit LF
Client Project No.: G21-008
Date Received: August 16, 2005
Date Analyzed: August 16 & 17, 2005

AtmAA Lab No.:	02285-6
Sample I.D.:	G12008
	TB-IN
Components	*(Concentration in ppmv)*
Hydrogen sulfide	21.4
	(Concentration in ppbv)
Benzene	396
Benzylchloride	<40
Chlorobenzene	148
Dichlorobenzenes*	332
1,1-dichloroethane	<30
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	40.9
Carbon tetrachloride	<30
Toluene	496
1,1,1-trichloroethane	<20
Trichloroethene	23.4
Chloroform	<20
Vinyl chloride	542
m+p-xylenes	732
o-xylene	426

** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Client Project No.: G21-008
Date Received: August 16, 2005
Date Analyzed: August 16 & 17, 2005

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Benzene	TB-IN	393	398	396	0.63
Benzylchloride	TB-IN	<40	<40	---	---
Chlorobenzene	TB-IN	148	148	148	0.0
Dichlorobenzenes	TB-IN	335	328	332	1.0
1,1-dichloroethane	TB-IN	<30	<30	---	---
1,2-dichloroethane	TB-IN	<20	<20	---	---
1,1-dichloroethylene	TB-IN	<30	<30	---	---
Dichloromethane	TB-IN	<30	<30	---	---
1,2-dibromoethane	TB-IN	<30	<30	---	---
Perchloroethylene	TB-IN	40.4	41.4	40.9	1.2
Carbon tetrachloride	TB-IN	<30	<30	---	---
Toluene	TB-IN	496	495	496	0.10
1,1,1-trichloroethane	TB-IN	<20	<20	---	---
Trichloroethene	TB-IN	22.7	24.1	23.4	3.0
Chloroform	TB-IN	<20	<20	---	---
Vinyl chloride	TB-IN	536	549	542	1.2
m+p-xylenes	TB-IN	723	742	732	1.3
o-xylene	TB-IN	416	435	426	2.2

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LABORATORY ANALYSIS REPORT

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SCAQMD Rule 1150.1 Components Analysis in Outlet Tedlar Bag Sample

Report Date: August 23, 2005
Client: Horizon
Project Location: GC Env. / Hewit LF
Client Project No.: G21-008
Date Received: August 16, 2005
Date Analyzed: August 16 & 18, 2005

AtmAA Lab No.:	02285-7
Sample I.D.:	G12008 TB-OUT
Components	(Concentration in ppbv)
Hydrogen sulfide	<500
Benzene	0.44
Benzylchloride	<0.8
Chlorobenzene	<0.3
Dichlorobenzenes*	<1.1
1,1-dichloroethane	<0.3
1,2-dichloroethane	<0.3
1,1-dichloroethylene	<0.3
Dichloromethane	<0.3
1,2-dibromoethane	<0.3
Perchloroethylene	<0.2
Carbon tetrachloride	<0.2
Toluene	0.37
1,1,1-trichloroethane	<0.2
Trichloroethene	<0.2
Chloroform	<0.2
Vinyl chloride	<0.3
m+p-xylenes	<0.4
o-xylene	<0.3

** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Client Project No.: G21-008
Date Received: August 16, 2005
Date Analyzed: August 16 & 18, 2005

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Hydrogen sulfide	TB-OUT	<500	<500	---	---
Benzene	TB-OUT	0.38	0.50	0.44	14
Benzylchloride	TB-OUT	<0.8	<0.8	---	---
Chlorobenzene	TB-OUT	<0.3	<0.3	---	---
Dichlorobenzenes	TB-OUT	<1.1	<1.1	---	---
1,1-dichloroethane	TB-OUT	<0.3	<0.3	---	---
1,2-dichloroethane	TB-OUT	<0.3	<0.3	---	---
1,1-dichloroethylene	TB-OUT	<0.3	<0.3	---	---
Dichloromethane	TB-OUT	<0.3	<0.3	---	---
1,2-dibromoethane	TB-OUT	<0.3	<0.3	---	---
Perchloroethylene	TB-OUT	<0.2	<0.2	---	---
Carbon tetrachloride	TB-OUT	<0.2	<0.2	---	---
Toluene	TB-OUT	0.32	0.42	0.37	14
1,1,1-trichloroethane	TB-OUT	<0.2	<0.2	---	---
Trichloroethene	TB-OUT	<0.2	<0.2	---	---
Chloroform	TB-OUT	<0.2	<0.2	---	---
Vinyl chloride	TB-OUT	<0.3	<0.3	---	---
m+p-xylenes	TB-OUT	<0.4	<0.4	---	---
o-xylene	TB-OUT	<0.3	<0.3	---	---

One Tedlar bag sample, laboratory number 02285-7, was analyzed for SCAQMD Rule 1150.1 components. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 2 repeat measurements from one Tedlar bag sample is 14%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
G.C. Environmental/Hewit LF	North Hollywood, CA
Project No. G21-008	Field Logbook No.
Sampler: (Signature)	Chain of Custody Tape No.

ANALYSES

Sample No./ Identification	~~Date~~	Date ~~Time~~	Lab Sample Number	Type of Sample	SCAQMD 25.3	TCA Complete w/02	Imp. #/Trap #	Rule 1150.1 List	Back Up "Hold"	SCAQMD 307.91	REMARKS
Summa 522		8/16/05	022805-2	6L Summa	X		H32				Flow Outlet
521			3		X		H40				
Tank # I			4	12L Tank		X	G				Flow Inlet
C			5			X	K				
G12008-TB-IN			6	5L Tedlar Bag				X		X	
G12008-TB-IN-BU			7						X		
G12008-TB-OUT			8					X			Flow Outlet
~~G12008-TB-OUT-BU~~									X		

SB

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/16/05	1605			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory: (Signature)	Date	Time
				8/005	4:00
Sample Disposal Method:			Disposed of by: (Signature)	Date	Time

SAMPLE COLLECTOR

HORIZON AIR MEASUREMENT SERVICES, INC
996 Lawrence Drive, Suite 108
Newbury Park, CA 91320
(805) 498-8781 Fax (805) 498-3173

ANALYTICAL LABORATORY

Atm AA
Calabasas, CA

№ 8735

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
GCE HEWITT	NORTH HOLLYWOOD, CA
Project No.	**Field Logbook No.**
G21-008	1
Sampler: (Signature)	**Chain of Custody Tape No.**

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	CO_2		Trap		Tank		REMARKS
ICV # 4	08-17-05			SCAQMD 25.1	✓		—		—		System Blank
15					✓		G		I		
K					✓		K		C		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8-17-05	1630			
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory: (Signature)**	**Date**	**Time**
				8.17.05	4:30
Sample Disposal Method:	**Disposed of by: (Signature)**			**Date**	**Time**

SAMPLE COLLECTOR

HORIZON AIR MEASUREMENT SERVICES, INC
996 Lawrence Drive, Suite 108
Newbury Park, CA 91320
(805) 498-8781 Fax (805) 498-3173

ANALYTICAL LABORATORY

ATM.A.A.
Calabasas, CA

№ 8354

Facility: HEWITT LF
Source: FLARE
Job No.: G21-008
Test Date: 08/16/05

DATA SHEET FOR PARTICULATE MATTER SCAQMD METHOD 5.1

RUN #1

DATE SAMPLED: 08/16/05
DATE EXTRACTED: 08/22/05

	SAMPLE ID	BEAKER/ FILTER ID	VOLUME	INITIAL	FINAL	NET WEIGHT(g)
A - FILTER CATCH	G21008-F-M5-PF	Q00184	NA	0.1541	0.1544	0.0003
FILTER ACID						0.0000
FILTER SULFATE						0.0000
B - PROBE CATCH						0.0000
PROBE ACID						
PROBE SULFATE						0.0000
C - IMP.CATCH(INSOL)	G21008-F-M5-EF	G03178	850	0.0866	0.0872	0.0006
INSOLUBLE ACID						0.0000
INSOLUBLE SULFATE						0.0000
D - IMP. CATCH (SOL)	G21008-F-M5-RINSE	5174	850	30.3717	30.3744	0.0027
SOLUBLE ACID						0.0000
SOLUBLE SULFATE						0.0000
E - ORGANIC EXTRACT	G21008-F-M5-MC	5171	125	24.1086	24.1085	0.0000
TOTAL PARTICULATE	(A+B+C+D+E)					0.0036
SOLID PARTICULATE	(A+B+C+D)					0.0036

DATA SHEET FOR PARTICULATE MATTER SCAQMD METHOD 5.1

DATE SAMPLED: 08/16/05
DATE EXTRACTED: 08/22/05

BLANK

	SAMPLE ID	BEAKER/ FILTER ID	VOLUME	INITIAL	FINAL	NET WEIGHT(g)
A - FILTER CATCH						0.0000
FILTER ACID						0.0000
FILTER SULFATE						
						0.0000
B - PROBE CATCH						0.0000
PROBE ACID						
PROBE SULFATE						0.0000
C - IMP.CATCH(INSOL)	EF-BLANK	G03177	500	0.0841	0.0839	0.0000
INSOLUBLE ACID						0.0000
INSOLUBLE SULFATE						0.0000
D - IMP. CATCH (SOL)	DI-BLANK	5170	500	30.6529	30.6528	0.0000
SOLUBLE ACID						0.0000
SOLUBLE SULFATE						0.0000
E - ORGANIC EXTRACT	MC-BLANK	5172	125	23.2282	23.2280	0.0000

TOTAL PARTICULATE	(A+B+C+D+E)	0.0000
SOLID PARTICULATE	(A+B+C+D)	0.0000

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Hewitt Landfill	North Hollywood, CA
Project No.	**Field Logbook No.**
G21-008	
Sampler (Signature)	**Chain of Custody Tape No.**
[signature]	

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	SCAQMD 5-1	Organic Extractables					REMARKS
-21008 F-M5-Rinse	8-16-05			Rinse	X	X					
21009 F-M5-FF	8-16-05			Particulate Filter	X						
21010 F-M5-Blank	8-16-05			Blank	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	08.17.05	1500			
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory: (Signature)**	**Date**	**Time**
			[signature]	08.17.05	1500
Sample Disposal Method:	**Disposed of by: (Signature)**			**Date**	**Time**

SAMPLE COLLECTOR

HORIZON AIR MEASUREMENT SERVICES, INC
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ANALYTICAL LABORATORY

Horizon

Nº 8736

APPENDIX D - Field Data

PARTICULATE FIELD DATA

PLANT: Hewitt Landfill
DATE: 8-16-05
LOCATION: North Hollywood, CA
OPERATOR: SD ESA MA
SOURCE: Flare Exh
RUN NO.: 1 MS.1
SAMPLE BOX NO.:
TIME START: 1300
GZ1-008

METER BOX NO.: 4
METER ΔH @: 1.7037
Y=: 0.9933
PROBE I.D. NO.: 10' Laxmal
NOZZLE DIAMETER, in.: 1.957
STACK DIAMETER, in.: 8
PROBE HEATER SETTING: NA
HEATER BOX SETTING: NA
Δ Cp FACTOR: 0.84
FILTER NO.: Q 00184

ASSUMED MOISTURE, %: 10
AMBIENT TEMPERATURE: 72°F
BARO. PRESS.: 29.24
STATIC PRESS.: -0.01
NOMAGRAPH INDEX: 280

PRE TEST LEAK CHECKS
METER: 0.005 @ 15 in. Hg
PITOTS: N/A @ 3/3 in. Hg
ORSAT:

P#	TIME	T_s °F	ΔP in H_2O	√ΔP	ΔH in H_2O	Vm ft³	$T_{m\,IN}$ °F	T_m OUT °F	OVEN °F	IMP. OUT °F	VAC. (in Hg)
A12	0.0	1458	0.01		2.8	484.328	69	71	NA	62	4
11	2.5	1527	0.01		2.8	496.7	70	71		60	4
10	5.0	1511	0.01		2.8	499.2	70	71		59	4
9	7.5	1512	0.01		2.8	501.6	72	71		56	4
8	10.0	1508	0.01		2.8	503.9	72	71		58	7
7	12.5	1523	0.01		2.8	506.5	73	71		57	6
6	15.0	1507	0.01		2.8	508.8	73	71		58	4
5	17.5	1503	0.01		2.8	511.2	74	72		58	4
4	20.0	1454	0.01		2.8	513.7	74	72		57	4
3	22.5	1504	0.01		2.8	516.2	74	73		57	4
2	25.0	1491	0.01		2.8	518.4	74	73		56	4
1	27.5	1497	0.01		2.8	520.8	74	73		56	4
B12	30.0	1482	0.01		2.8	523.114	74	76		59	4
11	32.5	1489	0.01		2.8	525.8	75	76		58	4
10	35.0	1479	0.01		2.8	528.3	77	76		57	4
9	37.5	1499	0.01		2.8	530.7	77	76		57	4
8	40.0	1505	0.01		2.8	533.0	78	76		55	4
7	42.5	1505	0.01		2.8	535.4	79	77		55	4
6	45.0	1506	0.01		2.8	537.8	79	78		55	4
5	47.5	1466	0.01		2.8	540.1	79	78		55	4
4	50.0	1479	0.01		2.8	542.7	79	79		54	4
3	52.5	1483	0.01		2.8	545.1	80	79		54	4
2	55.0	1498	0.01		2.8	547.5	80	80		55	4
1	57.5	1488	0.01		2.8	549.9	80	80		55	4
	60.0					552.369					
Avg.		1496.0		0.1000	2.80	58.041		74.9			

TIME END = 1423

Volume of Liquid Water Collected	Impinger Volume 1	2	3	4	Silica Gel Wght. 5
Final	172	114	4		266
Initial	100	100	0		250
Liquid Collected	72	14	4		16
Total Vol. Collected					106

POST TEST LEAK CHECKS
Meter: 0.005 @ 12 in. Hg
Pitots: N/A @ 3/3 in. Hg
Orsat:

Orsat Meas.	Time	CO_2	O_2	CO	N_2
1					
2					
3					

Nozzle Cal	D_1	D_2	D_3	Average

HORIZON AIR MEASUREMENT SERVICES, INC.

TOTAL COMBUSTION ANALYSIS
SCAQMD METHOD 25.1
FIELD SAMPLING DATA SHEET

Job #: G21-008
Facility: Hewit Landfill
Location: North Hollywood, CA
Date: 8/16/05
Operator: SD, CSM, MB

Control Device: Flare
Sample Location: Inlet
Ambient Temp.: 70°F
Baro. Pressure: 29.24

SAMPLE A

Tank #: I **Trap #:** G
Initial Vacuum: 1.3 torr
Final Vacuum: 11.5 "Hg

Start Time: 1300

TIME (min.)	VACUUM ("Hg)	FLOW (cc/min)
00	29.5	160
05	28	
10	26.5	
15	25	
20	23.5	
25	22	
30	20.5	
35	19	
40	17.5	
45	16	
50	14.5	
55	13	
60	11.5	

SAMPLE B

Tank #: C **Trap #:** K
Initial Vacuum: 1.3 torr
Final Vacuum: 11.5 "Hg

End Time: 1400

TIME (min.)	VACUUM ("Hg)	FLOW (cc/min)
00	29.5	160
05	28	
10	26.5	
15	25	
20	23.5	
25	22	
30	20.5	
35	19	
40	17.5	
45	16	
50	14.5	
55	13	
60	11.5	

LEAK RATE

Pre Test : 1/4 SB
Post Test: 1/4

052

INTEGRATED BAG SAMPLING DATA FORM

Run Number: 1

Date: 8/16/05 Plant: Hewit Landfill

Sampling Location: Flare Exhaust

Barometric Pressure: 29.24

Ambient Temp. °F: 70° Stack Temp. °F:

Operator: CSM, MG

Time	Traverse Point	Rate Meter Flow Rate (Q), cm³/min.		% Dev.[a]
00	Single	67	67	0
05		67	67	0
10		67	67	0
15		67	67	0
20		67	67	0
25		67	67	0
30		67	67	0
35		67	67	0
40		67	67	0
45		67	67	0
50		67	67	0
55		67	67	0
60		67	67	0
		Avg. =		0

a

H:\WPDOCS\FORMS\Integrated Bag Sampling Form.wpd

TOTAL COMBUSTION ANALYSIS
SCAQMD METHOD 25
FIELD SAMPLING DATA SHEET

Job #: G21-C08

Facility: Hewitt Landfill

Location: Duarte, Azusa CA

Date: 8-16-05

Operator: MJB, CSM, SHB

Control Device: FLARE

Sample Location: OUTLET

Ambient Temp.: 72

Baro. Pressure: 29.24

SAMPLE A

Tank #: S22 **Trap #:** H39

Initial Vacuum: 1.0 Torr

Final Vacuum: 6 in/Hg

Start Time: 13:03

TIME (min.)	VACUUM ("Hg)	FLOW (cc/min)
00	29	
05	28	
10	26	
15	24	
20	22	
25	20	
30	18	
35	16	
40	14	
45	12	
50	10	
55	8	
60	6	

SAMPLE B

Tank #: S21 **Trap #:** H40

Initial Vacuum: 1.0 Torr

Final Vacuum: 6 in/Hg

End Time: 14:23

TIME (min.)	VACUUM ("Hg)	FLOW (cc/min)
00	30	
05	28	
10	26	
15	24	
20	22	
25	20	
30	18	
35	16	
40	14	
45	12	
50	10	
55	8	
60	6	

LEAK RATE

Pre Test : ✓

Post Test: ✓

CEM TEMPERATURE DATA

Facility: HEWITT LANDFILL

Date: 8-16-05

Job No.: G21-008

Run #: 1

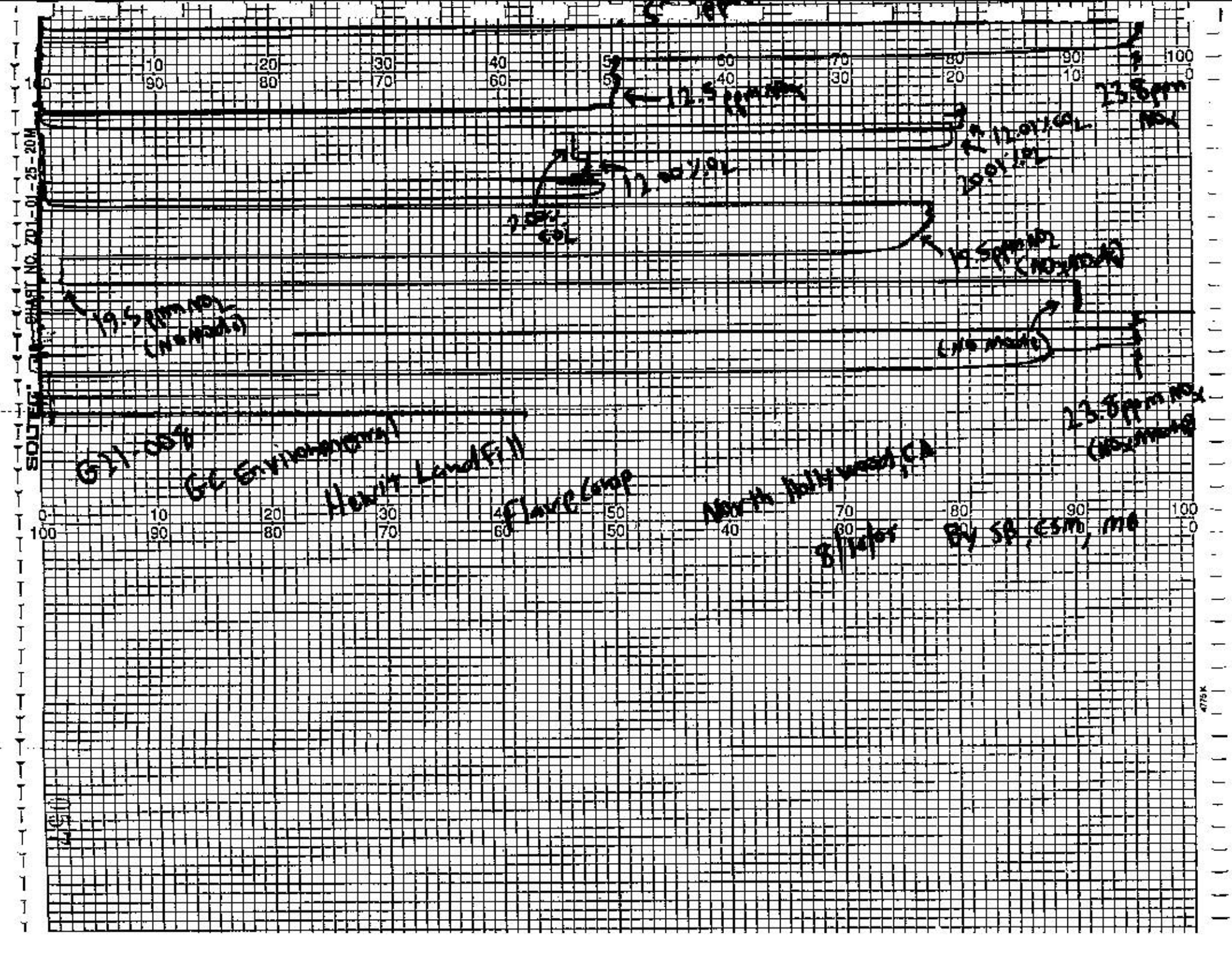
Source: FLARE

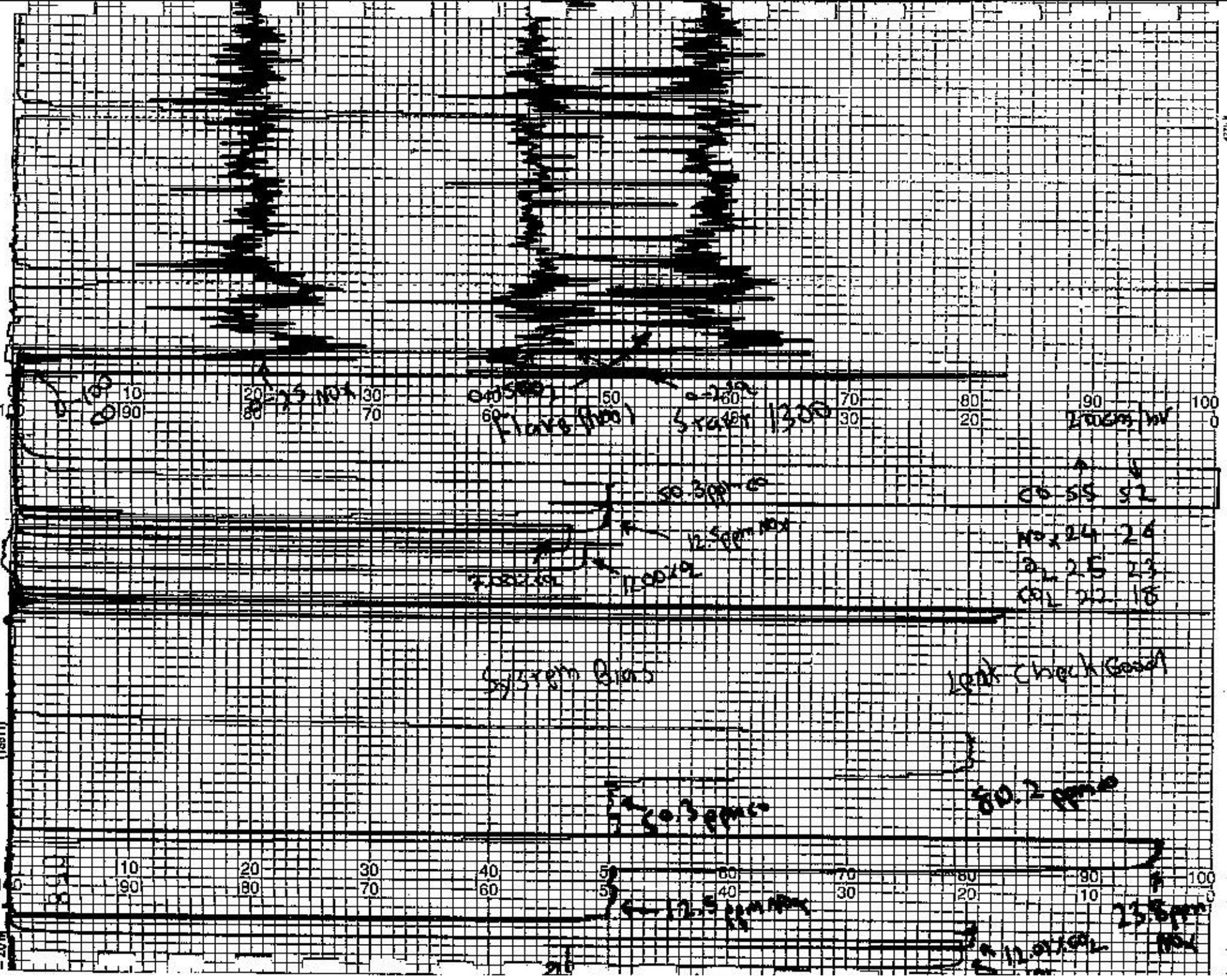
Probe Temp Settings: NA

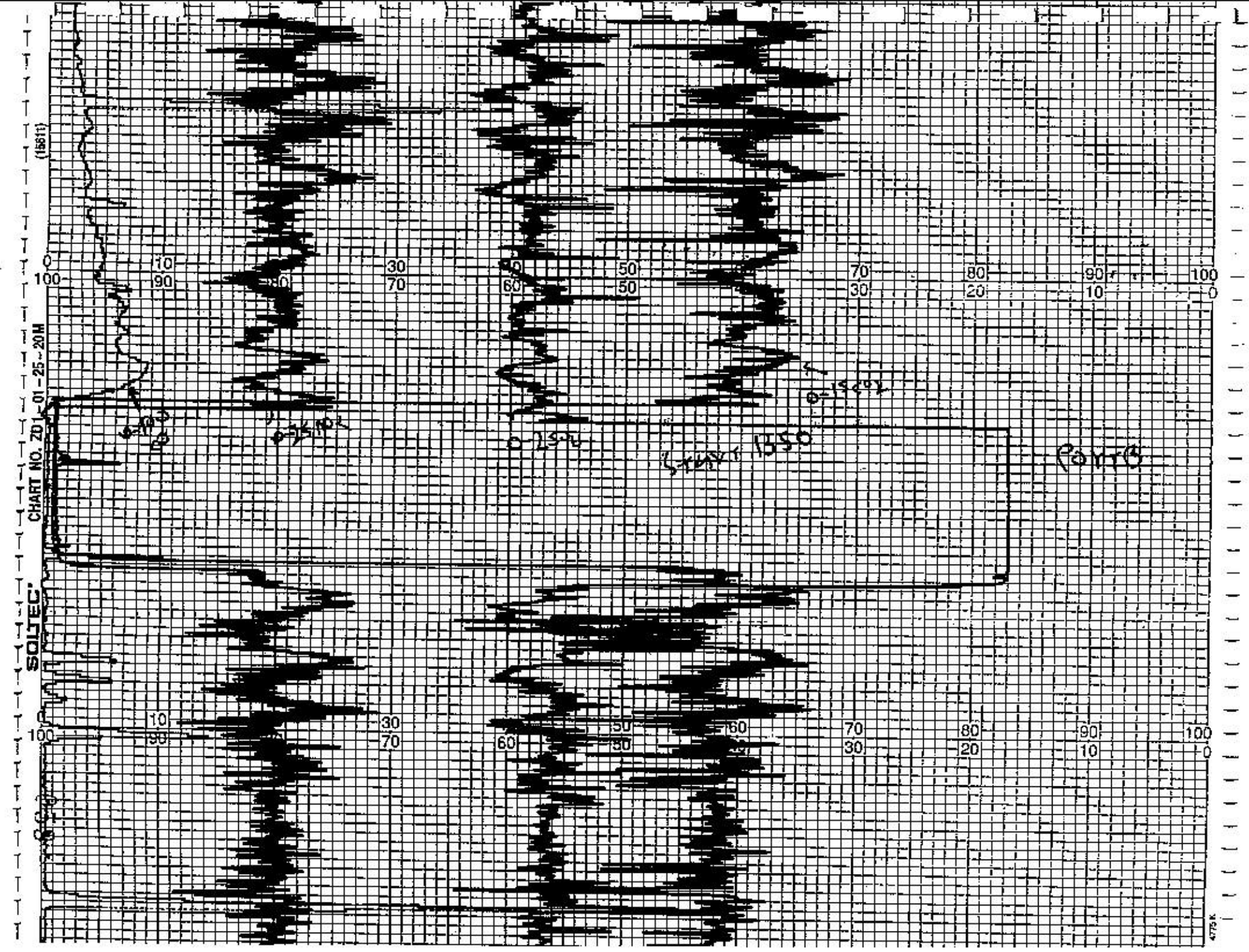
Heated Line Temp Settings: >250

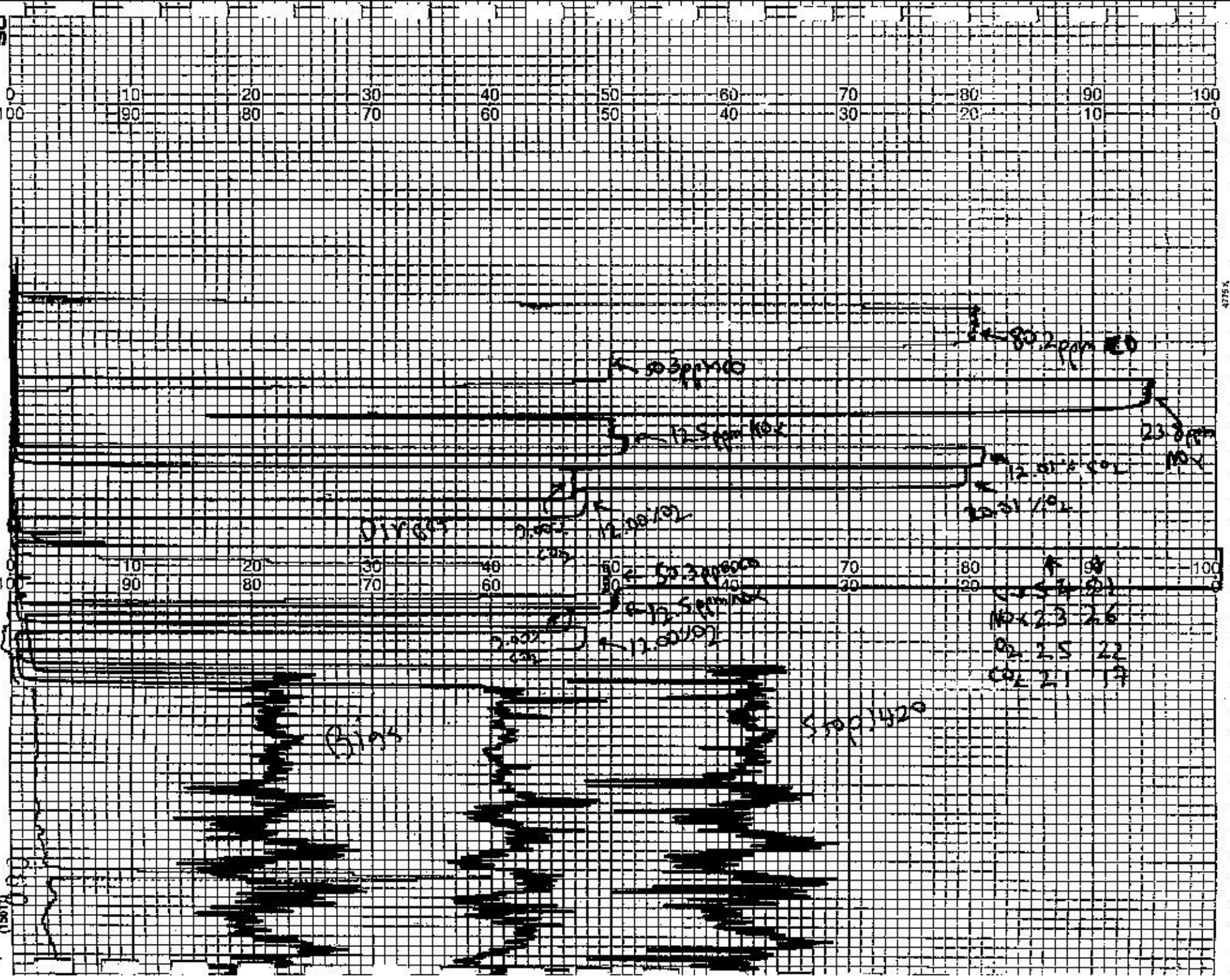
		TEMPERATURES °F		
	Time	Condenser Outlet	Probe	Teflon Line
1	0	34	NA	258
2	10	36		255
3	20	35		259
4	30	35		263
5	40	36		260
6	50	37		257
7	60	35		261
8				
9				
10				
11				
12				
13				
14				
15				

APPENDIX E - CEM Strip Charts


SOLTEC
CHART NO. 701-01-25-20M
12.5 ppm NOx
23.8 ppm NOx
12.0 ppm CO
19.5 ppm NOx (NO+NO2)
23.8 ppm NOx (NO+NO2)
GE Environmental
Hewitt Landfill
Flare Corp
North Hollywood, CA
By SB, CSM, MG
10 90
20 80
30 70
40 60
50 50
60 40
70 30
80 20
90 10
100 0


Leak Check Good
System Bias
80.2 ppm
23.8 ppm NOx
12.5 ppm NOx
12.0 ppm CO
12.5 ppm NOx
12.0 ppm CO
50.3 ppm
50.3 ppm
NOx 24 24
O2 2.5 2.3
CO2 12 16
CO 55 52


SOLTEC
CHART NO. ZD1 - 01 - 25 - 20M
(15611)
0
100
10
90
20
80
30
70
40
60
50
50
70
30
80
20
90
10
100
0
0-15%
0-25%
0-25%
0-15%
Exhy 1350
Points


0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
NOx 23 26
O2 25 22
CO2 21 17

APPENDIX F - Process Data

OPERATING DATA
FOR LANDFILL FLARE

Facility: Hewitt Landfill Date: 8/16/05

Job No.: 621-008 Run: 1

Source: Flare

115 dry
109 Wet

Assume 12 hrs/day

Time	Landfill Gas Flow (SCFM)	Condensate Injection ( )	Flare Temerature (°F)	Fuel Pressure (In-H_2O)	Fuel Temp (°F)
1305	687		1562	14	112
1315	682		1558	14	112
1325	685		1564	14	112
1335	683		1553	14	113
1345	684		1550	14	113
1355	686		1560	14	114
1405	679		1555	14	114
1415	686		1546	14	115
AVG	684		1556	14	113.1

APPENDIX G - Calibration Data

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER HORIZON AIR MEASUREMENTS

P.O NUMBER 8657

REFERENCE STANDARD

COMPONENT	NIST SRM NO.	CYLINDER NO.	CONCENTRATION
NITRIC OXIDE	vs.SRM#2629	CC 144670	24.81 ppm

ANALYZER READINGS

R=REFERENCE STANDARD Z=ZERO GAS C=GAS CANDIDATE

1. COMPONENT NITRIC OXIDE ANALYZER MAKE-MODEL-S/N Thermo Env. 42H S/N 42H-44979-273

ANALYTICAL PRINCIPLE CHEMILUMINESCENCE LAST CALIBRATION DATE 07/02/05

FIRST ANALYSIS DATE 01/19/05 SECOND ANALYSIS DATE 07/25/05

Z 0.0	R 23.63	C 11.82	CONC. 12.4	Z 0.0	R 25.0	C 12.3	CONC. 12.2
R 23.32	Z 0.0	C 11.82	CONC. 12.6	R 24.6	Z -0.3	C 11.9	CONC. 12.2
Z 0.0	C 11.63	R 23.73	CONC. 12.1	Z -0.4	C 12.0	R 25.0	CONC. 12.1
U/M ppm		MEAN TEST ASSAY	12.4	U/M ppm		MEAN TEST ASSAY	12.2

VALUES NOT VALID BELOW 150 PSIG.
NOX VALUE FOR REFERENCE USE ONLY.

THIS CYLINDER NO. CC 188124
HAS BEEN CERTIFIED ACCORDING TO SECTION EPA-600/R97/121
OF TRACEABILITY PROTOCOL NO. REV.9/97
PROCEDURE G1
CERTIFIED ACCURACY ± 1 % NIST TRACEABLE
CYLINDER PRESSURE 2000 PSIG
CERTIFICATION DATE 07/25/05
EXPIRATION DATE 07/25/07 TERM 24 MONTHS

CERTIFIED CONCENTRATION	
NITRIC OXIDE	12.3 ppm
NITROGEN	BALANCE
NOx	12.5 ppm

ANALYZED BY HENRY KOUNG

CERTIFIED BY JOSEPH CHARLES

IMPORTANT
Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2134
Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER HORIZON AIR **P.O NUMBER**

REFERENCE STANDARD

COMPONENT	NIST SRM NO.	CYLINDER NO.	CONCENTRATION
NITRIC OXIDE	[illegible]	CC 144870	24.35 ppm

ANALYZER READINGS

R=REFERENCE STANDARD *Z=ZERO GAS* *C=GAS CANDIDATE*

1. COMPONENT NITRIC OXIDE ANALYZER MAKE-MODEL-S/N Thermo Env. 42H S/N 42H-44979-272

ANALYTICAL PRINCIPLE CHEMILUMINESCENCE LAST CALIBRATION DATE 09.22.04

FIRST ANALYSIS DATE 07.17.04 SECOND ANALYSIS DATE 08.26.04

Z 1.0	R 22.4	C 22.3	CONC. 22.6	Z 0.0	R 24.2	C 22.4	CONC. 22.9
R 22.6	Z 0.0	C 22.7	CONC. 22.8	R 24.6	Z 0.0	C 22.7	CONC. 22.0
Z 0.0	C 22.9	R 23.0	CONC. 22.9	Z 0.0	C 22.7	R 24.6	CONC. 22.0
U/M ppm		MEAN TEST ASSAY 22.7		U/M ppm		MEAN TEST ASSAY 22.9	

NOx values for reference only.
All values not valid below 150 psig.

THIS CYLINDER NO. CC 119608
HAS BEEN CERTIFIED ACCORDING TO SECTION EPA-600/R97/121
OF TRACEABILITY PROTOCOL NO. Rev. 9/97
PROCEDURE G1
CERTIFIED ACCURACY ± 1 % NIST TRACEABLE
CYLINDER PRESSURE 2000 PSIG
CERTIFICATION DATE 09.20.04
EXPIRATION DATE 09.20.06 TERM 24 MONTHS

CERTIFIED CONCENTRATION

NITRIC OXIDE	22.9 ppm
NITROGEN	BALANCE
NOx	22.9 ppm

ANALYZED BY PHIL KIM

CERTIFIED BY JOSEPH CHARLES

IMPORTANT
Information contained herein has been prepared by, or furnished to, Praxair Distribution, Inc. We believe that the information is accurate. With the exception of the analytical methods employed and as compared to the stream on the specific analyses performed, we make no warranty or representation as to the suitability or the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. We disclaim the liability of Praxair Distribution, Inc. arising out of the use of the information contained herein except as established for providing such information.

065

5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

2/10/05

Horizon Air
996 Lawrence Dr Ste 108
Newbury Park, CA
USA 91320

Attention: Deborah Vacherst

Praxair Order No. **06570800**
Customer Reference No. **8A065**
Intended End User: **HORIZON AIR MEASUREMENTS**

Product Lot/Batch No. **109401605**
Praxair Part No. **EV NINX19MP-AS**

CERTIFICATE OF ANALYSIS

Primary Standard

Component	Requested Concentration	Certified Concentration	Analytical Principle	Analytical Accuracy
Nitrogen dioxide (AS NOX)	**19 ppm**	**19.5 ppm**	**U**	**±1 %**
Nitrogen	**balance**	**balance**		

Analytical Instruments: **Thermo Environmental-42H-42H-Chemiluminescence**
Cylinder Style: **ALS**
Cylinder Pressure @70F: **1700 psig**
Cylinder Volume: **122 ft3**
Valve Outlet Connection: **660**
Cylinder No(s). **CC 137428**
Comments: **VALUES NOT VALID BELOW 150 PSIG, NO=0.4 ppm (REFERENCE ONLY)**

Filling Method: **Gravimetric**
Date of Fill: **1/10/04**
Expiration Date: **2/10/07**

Analyst: **Joseph Charles**

QA Reviewer: **Phil Kim**

The gas calibration cylinder standard prepared by Praxair Distribution is considered a certified standard. It is prepared by gravimetric, volumetric, or partial pressure techniques. The calibration standard provided is certified against Praxair Reference Materials which are either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

Note: All expressions for concentration (e.g., % or ppm) are for gas phase, by volume (e.g., ppmv) unless otherwise noted.

Key to Analytical Techniques:

A	Flame Ionization with Methanizer	B	Gas Chromatography with Discharge Ionization Detector	C	Gas Chromatography with Electrolytic Conductivity Detector	D	Gas Chromatography with Flame Ionization Detector
E	Gas Chromatography with Flame Photometric Detector	F	Gas Chromatography with Helium Ionization Detector	G	Gas Chromatography with Methanizer Carbonizer	H	Gas Chromatography with Photoionization Detector
I	Gas Chromatography with Reduction Gas Analyzer	J	Gas Chromatography with Thermal Conductivity Detector	K	Gas Chromatography with Ultrasonic Detector	L	Infrared - FTIR or NDIR
M	Mass Spectrometry - MS or GC/MS	N	Proprietary	O	Paramagnetic	P	Specific Water Analyzer
Q	Total Hydrocarbon Analyzer	R	Wet Chemical	S	Detector Tube	T	Odor
U	Chemiluminescence	V	Gravimetric	W	Electrolytic Cell/Electrochemical	X	Photoionization
Y	Pulsed Fluorescence	Z	UV Spectrometry				

IMPORTANT
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Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

CUSTOMER HORIZON AIR MEASUREMENTS **P.O NUMBER** 8650

REFERENCE STANDARD

COMPONENT	NIST SRM NO.	CYLINDER NO.	CONCENTRATION
CARBON MONOXIDE GMIS	VG-SRM#1678	CC 81679	51.1 PPM
NITRIC OXIDE GMIS	SRM#1683b	SA 7757	49.7 ppm

ANALYZER READINGS

R=REFERENCE STANDARD *Z=ZERO GAS* *C=GAS CANDIDATE*

1. **COMPONENT** CARBON MONOXIDE GMIS **ANALYZER MAKE-MODEL-S/N** Siemens Ultramat 5E S/N A12-729

ANALYTICAL PRINCIPLE NDIR **LAST CALIBRATION DATE** 07/01/05

FIRST ANALYSIS DATE 05/05/05 **SECOND ANALYSIS DATE** 07/19/05

Z 0.0	R 51.1	C 50.4	CONC. 50.4	Z 0.0	R 51.1	C 50.3	CONC. 50.3
R 51.0	Z 0.0	C 50.1	CONC. 50.2	R 51.1	Z 0.0	C 50.3	CONC. 50.3
Z 0.0	C 50.2	R 51.0	CONC. 50.3	Z 0.0	C 50.3	R 51.1	CONC. 50.3

U/M ppm **MEAN TEST ASSAY** 50.3 ppm U/M ppm **MEAN TEST ASSAY** 50.3

2. **COMPONENT** NITRIC OXIDE GMIS **ANALYZER MAKE-MODEL-S/N** BECKMAN 951A S/N#0101354

ANALYTICAL PRINCIPLE CHEMILUMINESCENCE **LAST CALIBRATION DATE** 07/01/05

FIRST ANALYSIS DATE 05/05/05 **SECOND ANALYSIS DATE** 07/19/05

Z 0.0	R 425.0	C 424.9	CONC. 49.9	Z 0.0	R 428.3	C 432.5	CONC. 50.2
R 424.3	Z 0.0	C 424.8	CONC. 49.8	R 424.4	Z 0.0	C 426.7	CONC. 50.0
Z 0.0	C 424.8	R 423.4	CONC. 49.9	Z 0.0	C 428.1	R 426.5	CONC. 49.9

U/M mV **MEAN TEST ASSAY** 49.9 ppm U/M mV **MEAN TEST ASSAY** 50.0 ppm

VALUES NOT VALID BELOW 150 psig. NOx VALUE FOR REFERENCE ONLY.

THIS CYLINDER NO. CC 179231
HAS BEEN CERTIFIED ACCORDING TO SECTION EPA-600/R97/121
OF TRACEABILITY PROTOCOL NO. Rev. 9/97
PROCEDURE G1
CERTIFIED ACCURACY ± 1 **% NIST TRACEABLE**
CYLINDER PRESSURE 2000 **PSIG**
CERTIFICATION DATE 07/19/05
EXPIRATION DATE 07/19/07 **TERM** 24 MONTHS

CERTIFIED CONCENTRATION

CARBON MONOXIDE	50.3 ppm
NITRIC OXIDE	50.0 ppm
NITROGEN	BALANCE
NOx	50.6 ppm

ANALYZED BY CHRIS VU *CERTIFIED BY* DUU-PHEN NGUYEN

IMPORTANT
Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

PRAXAIR

5700 South Alameda Street
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Telephone: (323) 583-2154
Facsimile: (714) 542-6689

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

P.O NUMBER 8511

CUSTOMER HORIZON AIR MEASUREMENTS

REFERENCE STANDARD

COMPONENT	NIST SRM NO.	CYLINDER NO.	CONCENTRATION
NITRIC OXIDE GMIS	vaSRM#1684b	CC 136077	99.1 ppm
CARBON MONOXIDE GMIS	VA.SRM#1679	CC 160064	101.3 ppm

ANALYZER READINGS

R=REFERENCE STANDARD Z=ZERO GAS C=GAS CANDIDATE

COMPONENT NITRIC OXIDE GMIS ANALYZER MAKE-MODEL-S/N BECKMAN 951A S/N80101354
ANALYTICAL PRINCIPLE CHEMILUMINESCENCE LAST CALIBRATION DATE 01/03/05
FIRST ANALYSIS DATE 01/12/05 SECOND ANALYSIS DATE

Z 0.0	R 991.3	C 809.7	CONC. 80.9	Z	R	C	CONC.
R 992.5	Z 0.0	C 809.6	CONC. 80.9	R	Z	C	CONC.
Z 0.0	C 809.8	R 991.2	CONC. 80.8	Z	C	R	CONC.

U/M mV MEAN TEST ASSAY 80.8 U/M mV MEAN TEST ASSAY

COMPONENT CARBON MONOXIDE GMIS ANALYZER MAKE-MODEL-S/N Siemens Ultramat 6E S/N A12-729
ANALYTICAL PRINCIPLE NDIR LAST CALIBRATION DATE 01/03/05
FIRST ANALYSIS DATE 01/12/05 SECOND ANALYSIS DATE

Z 0.0	R 101.3	C 80.2	CONC. 80.2	Z	R	C	CONC.
R 101.1	Z 0.0	C 80.2	CONC. 80.2	R	Z	C	CONC.
Z 0.0	C 80.2	R 101.5	CONC. 80.0	Z	C	R	CONC.

U/M ppm MEAN TEST ASSAY 80.1 U/M ppm MEAN TEST ASSAY

VALUES NOT VALID BELOW 150 PSIG. NOx VALUE FOR REFERENCE ONLY.
CHRONOLOGY: LAST ASSAY DATE AND RESULTS: 12/10/02, 81.2 ppm NO, 80.2 ppm CO.

THIS CYLINDER NO. CC 92871
HAS BEEN CERTIFIED ACCORDING TO SECTION EPA-600/R97/121
OF TRACEABILITY PROTOCOL NO. REV 9/97
PROCEDURE G1
CERTIFIED ACCURACY ± 1 % NIST TRACEABLE
CYLINDER PRESSURE 900 PSIG
CERTIFICATION DATE 01/12/05
EXPIRATION DATE 01/12/07 TERM 24 MONTHS

CERTIFIED CONCENTRATION

NITRIC OXIDE	81.0 ppm
CARBON MONOXIDE	80.2 ppm
NITROGEN	BALANCE
NOx	81.4 ppm

ANALYZED BY MICHAEL TRANG CERTIFIED BY CHRIS VU

IMPORTANT
Information contained herein has been prepared at your request by qualified experts within Praxair Distribution, Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Praxair Distribution, Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Telephone: (323) 585-2154
Facsimile: (714) 542-6689

4/26/05

orizon Air
996 Lawrence Dr Ste 108
Newbury Park, CA
SA 91320

Attention: Deborah Vacherst

Praxair Order No. **81725000**
Customer PO No. **8595**

Product Lot/Batch No. **109507309**
Praxair Part No. **EV NICDOXP1-AS**

CERTIFICATE OF ANALYSIS
Primary Standard

Component	Requested Concentration	Certified Concentration	Analytical Principle	Analytical Accuracy
Carbon dioxide	**7 %**	**7.00 %**	**V**	**±0.02 % abs.**
Oxygen	**12 %**	**12.00 %**		**±0.02 % abs.**
Nitrogen	**balance**	**balance**		

Analytical Instruments: **Mettler-ID5-Gravimetric**
Cylinder Style: **AS**
Cylinder Pressure @70F: **2000 psig**
Cylinder Volume: **148 ft3**
Valve Outlet Connection: **590**
Cylinder No(s). **CC 101707**

Filling Method: **Gravimetric**
Date of Fill: **3/14/05**
Expiration Date: **4/26/08**

Analyst: **Jack Fu**

QA Reviewer: **Ty Triplett**

The gas calibration cylinder standard prepared by Praxair Distribution is considered a certified standard. It is prepared by gravimetric, volumetric, or partial pressure techniques. The calibration standard provided is certified against Praxair Reference Materials which are either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

Note: All expressions for concentration (e.g., % or ppm) are for gas phase, by volume (e.g., ppmv) unless otherwise noted.

Key to Analytical Techniques
A Flame Ionization with Methanizer
B Gas Chromatography with Discharge Ionization Detector
C Gas Chromatography with Electrolytic Conductivity Detector
D Gas Chromatography with Flame Ionization Detector
E Gas Chromatography with Flame Photometric Detector
F Gas Chromatography with Helium Ionization Detector
G Gas Chromatography with Methanizer Carbonizer
H Gas Chromatography with Photoionization Detector
I Gas Chromatography with Reduction Gas Analyzer
J Gas Chromatography with Thermal Conductivity Detector
K Gas Chromatography with Ultrasonic Detector
L Infrared - FTIR or NDIR
M Mass Spectrometry - MS or GC/MS
N Proprietary
O Paramagnetic
P Spectro Visible Analyzer
Q Total Hydrocarbon Analyzer
R Wet Chemical
S Detector Tube
T Odor
U Chemiluminescence
V Gravimetric
W Electrolytic Cell/Electrochemical
X Photoionization
Y Pulsed Fluorescence
Z UV Spectrometry

IMPORTANT
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Making Our Planet More Productive

[illegible] Sepulveda Blvd
Los Angeles CA 90060
Telephone: (310) 838-2154
Facsimile: (310) 838-6399

1/4/05

Horizon Air
96 Lawrence Dr Ste 108
Newbury Park, CA
USA 91320

Attention: Deborah Vacherst

Praxair Order No. **75875400**
Customer P.O. No. **8508**

Product Lot/Batch No. **109500305**
Praxair Part No. **NI CDOXP80-AS**

CERTIFICATE OF ANALYSIS
Primary Standard

Component	Requested Concentration	Certified Concentration	Analytical Principle	Analytical Accuracy
Carbon dioxide	12 %	12.01 %	V	±0.02 % abs.
Oxygen	20 %	20.01 %		±0.02 % abs.
Nitrogen	balance	balance		

Analytical Instruments: Mettler-IDS-Gravimetric
Cylinder Style: **AS**
Cylinder Pressure @70F: **2000 psig**
Cylinder Volume: **152 ft3**
Valve Outlet Connection: **590**
Cylinder No(s). **SA 3378**

Filling Method: **Gravimetric**
Date of Fill: **1/3/05**
Expiration Date: **12/31/08**

Analyst: **Jack Fu**

QA Reviewer: **Ty Triplett**

The gas calibration cylinder standard prepared by Praxair Distribution is considered a certified standard. It is prepared by gravimetric, volumetric, or partial pressure techniques. The calibration standard provided is certified against Praxair Reference Materials which are either prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

Note: All expressions for concentration (e.g., % or ppm) are for gas phase, by volume (e.g., ppmv) unless otherwise noted.

Key to Analytical Techniques

A	Flame Ionization with Methanizer	B	Gas Chromatography with Discharge Ionization Detector	C	Gas Chromatography with Electrolytic Conductivity Detector	D	Gas Chromatography with Flame Ionization Detector
E	Gas Chromatography with Flame Photometric Detector	F	Gas Chromatography with Helium Ionization Detector	G	Gas Chromatography with Methanizer Carbonizer	H	Gas Chromatography with Photoionization Detector
I	Gas Chromatography with Reduction Gas Analyzer	J	Gas Chromatography with Thermal Conductivity Detector	K	Gas Chromatography with Ultrasonic Detector	L	Infrared - FTIR or NDIR
M	Mass Spectrometry - MS or GCMS	N	Proprietary	O	Paramagnetic	P	Specific Water Analyzer
Q	Total Hydrocarbon Analyzer	R	Wet Chemical	S	Detector Tube	T	Odor
U	Chemiluminescence	V	Gravimetric	W	Electrolytic Cell/Electrochemical	X	Photoionization
Y	Pulsed Fluorescence	Z	UV Spectrometry				

IMPORTANT
The information contained herein has been prepared at your request by personnel within Praxair Distribution. While we believe the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall liability of Praxair Distribution, Inc. arising out of the use of the information contained herein exceed the fee established for providing such information.

Control Box Calibration Data

Date: 06/23/05

Calibrated by: Ferodie Torres

Meter Box Number: 4

Barometric Pressure: 28.96

Wet Test Meter Cf: 1.0022

Orifice setting (H)	Gas Volumes: Wet Test (cu.ft)	Gas Volumes: Dry Gas Initial (cu.ft)	Gas Volumes: Dry Gas Final (cu.ft)	Temperatures: DGM Initial (°F)	Temperatures: DGM final (°F)	Temperatures: WTM (°F)	Time (min)	Y	H@
0.5	12.781	213.888	226.630	75	75	81	30	0.9919	1.6439
1.0	9.514	203.221	212.707	75	76	81	16	0.9920	1.6854
1.5	25.572	136.166	161.749	75	77	80	36	0.9901	1.6668
2.0	13.289	122.681	135.974	75	77	80	16	0.9890	1.7197
3.0	23.100	99.326	122.371	75	77	80	23	0.9901	1.7609
4.0	23.286	75.798	98.952	71	76	78	20	0.9890	1.7455
						AVERAGE		0.9903	1.7037

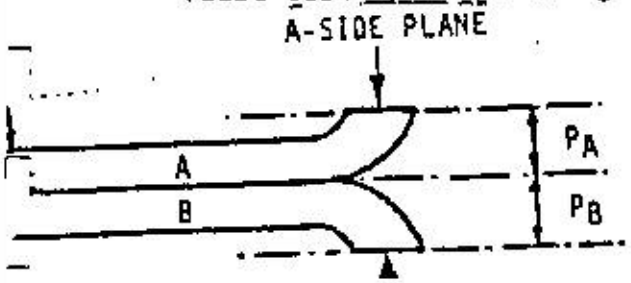
Reviewed by:

TYPE S PITOT TUBE INSPECTION DATA FORM

Tubing diameter, D_t 0.362 in.

Pitot Tube Assembly Level? Yes / No

Pitot Tube Openings Damaged? Yes / No



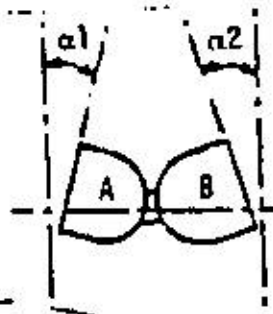
NOTE: 0.986

$1.05\ D_t < P < 1.50\ D_t$

$P_A = P_B$

P_A = 0.493 in.

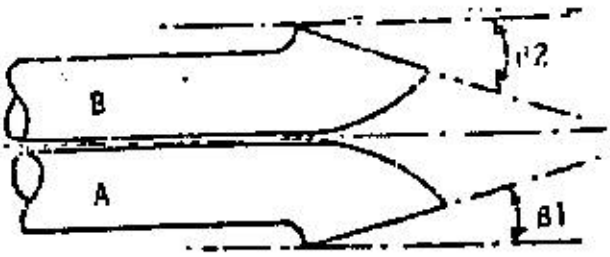
P_B = 0.493 in.



α_1 = 1.0 °

α_2 = 1.0 °

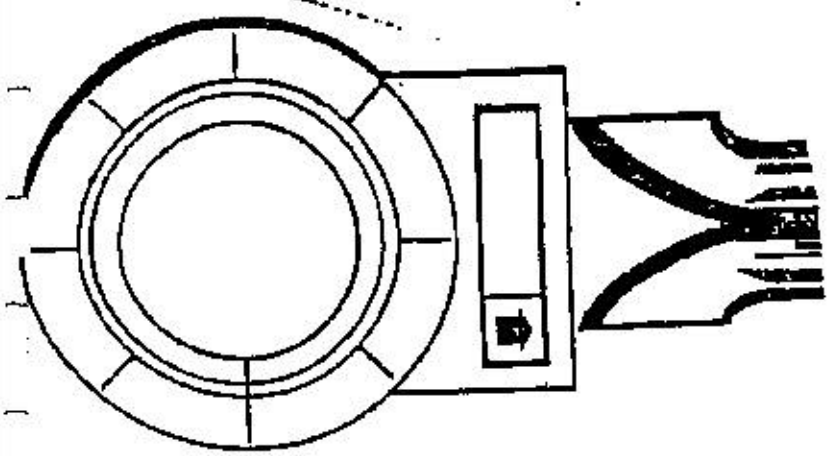
(<10°)

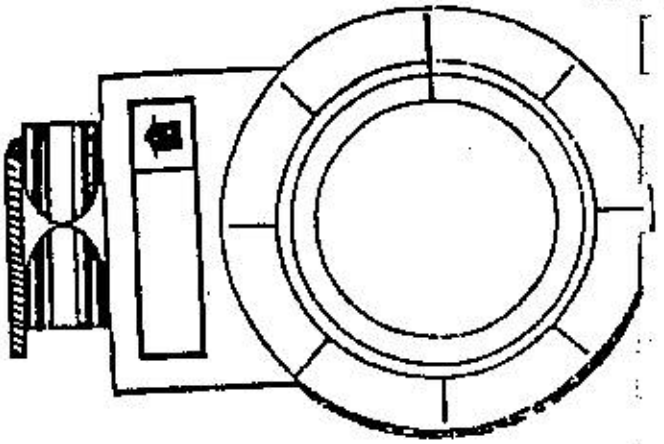


β_1 0.5

β_2 2.5

(< 5°)





Level Position to Find γ = 2.0

Z = A sin γ -0.026 in. (< 1/8 in.)

Level Position to find θ 1.5

H = A sin θ -0.026 in. (< 1/32

Comments

Checked by: Date: 05-23-05

Calibration Required? NO

072

STACK TEMPERATURE SENSOR CALIBRATION DATA- APEX PROBE ASSEMBLIES

Date: 05/18/05
Calibrated by: F. TORRES

THERMOCOUPLE ID:

	ICE WATER						ABSOLUTE T DIFF., %			BOILING WATER						ABSOLUTE T DIFF., %			BOILING OIL						ABSOLUTE T DIFF., %		
	REF			TC						REF			TC						REF			TC					
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Stainless Steel Probes																											
3-1	32	32	32	33	33	33	-0.2	-0.2	-0.2	212	212	212	210	210	210	0.3	0.3	0.3	549	545	535	545	540	531	0.4	0.5	0.4
4-2	32	32	32	34	34	34	-0.4	-0.4	-0.4	212	212	212	210	210	209	0.3	0.3	0.4	535	530	525	530	525	528	0.5	0.5	-0.1
4-3	32	32	32	33	33	33	-0.2	-0.2	-0.2	212	212	212	207	208	208	0.7	0.8	0.8	535	545	543	539	539	540	-0.4	0.6	0.3
6-2	32	32	32	34	33	34	-0.4	-0.2	-0.4	212	212	212	210	210	209	0.3	0.3	0.0	500	510	512	499	499	500	0.1	1.1	1.2
6-3	32	32	32	35	34	32	-0.6	-0.4	0.0	212	212	212	208	208	209	0.6	0.6	0.4	515	517	520	505	510	515	1.0	0.7	0.5
6-4	32	32	32	35	34	34	-0.6	-0.4	-0.4	212	212	212	209	210	210	0.2	0.3	0.3	520	525	543	510	515	530	1.0	1.0	1.3
A6-5	32	32	32	34	34	34	-0.4	-0.4	-0.4	212	212	212	210	208	208	0.3	0.6	0.6	545	541	542	535	536	537	1.0	0.5	0.5
A8-1	32	32	32	34	33	32	-0.4	-0.2	0.0	212	212	212	208	209	210	0.4	0.4	0.3	543	544	535	540	538	539	0.3	0.5	-0.4
A8-2	32	32	32	34	35	35	-0.4	-0.6	-0.6	212	212	212	211	211	210	0.1	0.1	0.3	540	541	545	535	536	537	0.5	0.5	0.8
A8-3	32	32	32	34	33	33	-0.4	-0.2	-0.2	212	212	212	207	208	209	0.7	0.6	0.4	546	541	541	540	541	540	0.6	0.0	0.1
10-1	32	32	32	32	34	33	0.0	-0.4	-0.2	212	212	212	210	210	210	0.3	0.3	0.3	540	540	538	538	537	535	0.2	0.3	0.3
M17-1	32	32	32	35	34	34	-0.6	-0.4	-0.4	212	212	212	211	210	210	0.1	0.3	0.3	540	541	541	535	538	540	0.5	0.2	0.1
M17-2	32	32	32	35	34	33	-0.6	-0.4	-0.2	212	212	212	209	209	208	0.4	0.4	0.6	542	540	541	540	539	538	0.2	0.1	0.3
M17-3	32	32	32	33	35	34	-0.2	-0.6	-0.4	212	212	212	208	209	209	0.6	0.4	0.4	546	550	551	540	548	550	0.5	0.2	0.1
Inconel																											
10-2 Inc	32	32	32	33	33	34	-0.2	-0.2	-0.4	212	212	212	208	208	209	0.6	0.6	0.4	550	550	549	540	545	545	1.0	0.5	0.4
6-1 Inc	32	32	32	36	35	35	-0.8	-0.6	-0.6	212	212	212	207	207	209	0.7	0.7	0.4	549	550	549	543	540	540	0.6	1.0	0.9
Loose Thermocouple																											
6-5	32	32	32	32	33	34	0.0	-0.2	-0.4	212	212	212	206	208	208	0.8	0.8	0.6	549	549	550	548	548	549	0.1	0.1	0.1
6-8	32	32	32	34	34	34	-0.4	-0.4	-0.4	212	212	212	211	209	208	0.1	0.4	0.8	550	550	549	540	545	545	1.0	0.5	0.4
7-1	32	32	32	34	34	34	-0.4	-0.4	-0.4	212	212	212	208	208	208	0.6	0.6	0.6	548	548	540	548	548	541	0.0	0.0	-0.1
B-3	32	32	32	36	35	33	-0.8	-0.6	-0.2	212	212	212	209	209	210	0.4	0.4	0.3	515	525	535	508	515	527	0.7	1.0	0.8

Note: If absolute temperature values of the reference thermometer being calibrated and the stack temperature sensors agree within 1.5 percent at each of the three calibration p
no correction is needed.

073

Nozzle Calibration Data
Continuous Qua

Date: 05/18/05
Calibrated by: Jhet Torres

QUARTZ NOZZLES

NOZZLE ID	D1 ±.001	D2 ±.001	D3 ±.001	Delta D (.004 Max)	Avg. D
CQ-1(10')	1.057	1.058	1.056		1.057
CQ-2(10')	1.055	1.053	1.053		1.054
CQ-3(42")	0.986	0.984	0.981		0.984
CQ-4(74")	0.978	0.980	0.981		0.980
CQ-5(61")	1.020	1.000	1.020		1.013

APPENDIX H - Permit to Operate

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.

4. THE LANDFILL GAS COLLECTED SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION.

5. THE TEMPERATURE INDICATOR AND RECORDER FOR THE FLARE WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK SHALL BE MAINTAINED IN GOOD OPERATING CONDITION AND SHALL BE OPERATED WHENEVER THE FLARE IS IN OPERATION.

6. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN THE FLARE STACK.

7. THE FLARE FLAME SAFEGUARD SYSTEM WHICH INCLUDES AN AUTOMATIC BLOWER AND FLARE INLET VALVE SHUTOFF SYSTEM AND AN AUTOMATIC DIALER SHALL BE OPERATED WHENEVER THE FLARE IS IN OPERATION.

8. THE SAFETY SYSTEM SPECIFIED ABOVE SHALL BE MAINTAINED IN OPERATING CONDITION AND SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.

9. THE LANDFILL GAS SUPPLY LINE TO THE FLARE SHALL BE EQUIPPED WITH A FLOW INDICATING AND RECORDING DEVICE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED IN THE FLARE. THE FLOW INDICATING AND RECORDING DEVICE SHALL BE IN OPERATION WHENEVER THE FLARE IS IN OPERATION.

10. THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE SHALL NOT EXCEED 1,500 STANDARD CUBIC FEET PER MINUTE.

11. THE FLOW RATE OF CONDENSATE DIRECTED TO THE FLARE FOR COMBUSTION SHALL NOT EXCEED 2 GALLONS PER MINUTE.

12. A FLOW METER AND RECORDER SHALL BE MAINTAINED TO METER AND RECORD THE CONDENSATE FLOW RATE TO THE FLARE.

13. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.

14. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED BY THE APPLICANT WITHIN 24 HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.

15. THE LANDFILL GAS HEADER SHALL BE EQUIPPED WITH A 3/4 INCH NPT SAMPLE PORT WITH PLUG, LOCATED BETWEEN THE BLOWER AND THE FLARE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE AND TO ALLOW FOR FLOW MONITORING USING A PITOT TUBE.

16. THE FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE FLAME HEIGHT WITHIN THE FLARE AT ALL TIMES. THE VIEW

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

Permit No.
D96633
A/N 312135
Page 3

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

PORTS SHALL BE LOCATED AT THE ELEVATION OF THE TEMPERATURE SENSOR LOCATIONS. SAFE AND ADEQUATE ACCESS SHALL BE PROVDED FOR ALL VIEW PORTS UPON REQUEST BY AQMD PERSONNEL.

17. THE MAXIMUM FLARE SKIN TEMPERATURE AT LOCATIONS 4 FEET BELOW AND ABOVE SAMPLE PORTS SHALL NOT EXCEED 250 DEGREES F., EXCEPT IN SMALL ISOLATED AREAS WHERE INTERNAL METAL INSULATION PORTS ARE IN CONTACT WITH THE FLARE WALL. THESE AREAS SHALL NOT EXCEED 300 DEGREES F.

18. THE FLAME IN THE FLARE SHALL REMAIN BELOW THE HEIGHT OF THE FLARE'S OPERATING THERMOCOUPLE AT ALL TIMES.

19. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARE RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD PUBLIC FACILITIES MANAGER WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.

20. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST TWO (2) YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST. A RECORD OF THE HOURS OF OPERATION SHALL BE INCLUDED.

21. EMISSIONS OF AIR CONTAMINANTS FROM THE FLARE EXHAUST SHALL NOT EXCEED THE FOLLOWING LIMITS:

REACTIVE ORGANIC GASES 2.0 LBS/HR
OXIDES OF NITROGEN 1.2 LBS/HR — NOx
OXIDES OF SULFUR 0.15 LBS/HR — SOx
CARBON MONOXIDE 4.0 LBS/HR — CO
PM10 3.6 LBS/HR