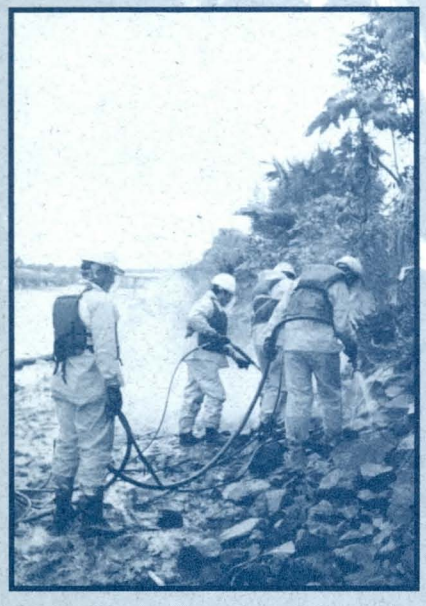
ENVIRONMENTAL SUBSURFACE INVESTIGATION SOUTH BASIN SITE GUADALUPE, ARIZONA FCD PROJECT NO. 2001C004 ASSIGNMENT NO. 4



Geotechnical

and

Environmental

Sciences

Consultants

Ninyo & Moore

ENVIRONMENTAL SUBSURFACE INVESTIGATION SOUTH BASIN SITE GUADALUPE, ARIZONA FCD PROJECT NO. 2001C004 ASSIGNMENT NO. 4

PREPARED FOR:
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April 17, 2002
Project No. 600220004

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants

April 17, 2002
Project No. 600220004

Mr. Robert Stevens
Flood Control District of Maricopa County
2801 West Durango Street
Phoenix, Arizona 85009-6399

Subject: Environmental Subsurface Investigation
South Basin Site
Guadalupe, Arizona
FCD Project No. 2001C004
Assignment No. 4

Dear Mr. Stevens:

Ninyo & Moore is pleased to provide this report on our Environmental Subsurface Investigation (ESI) for the above-referenced site. The purpose of the ESI is to excavate toxaphene-contaminated soil between 8 and 12 feet below grade surface, and collect and analyze confirmation soil samples.

Ninyo & Moore appreciates the opportunity to provide environmental services to you on this project. If you have any questions regarding the contents of this report, please feel free to contact the undersigned.

Sincerely,
NINYO & MOORE

REGISTERED GEOLOGIST
CERTIFICATE NO.
33749
LARRY L.
GARDINER
Date Signed 4/17/02
ARIZONA U.S.A.

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(2) Arizona Department of Environmental Quality

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EXECUTIVE SUMMARY

Ninyo & Moore was retained by the Flood Control District of Maricopa County (FCDMC) to perform a Limited Environmental Subsurface Investigation at the South Basin site located in Guadalupe, Arizona. Approximately 3560 yards of soil were excavated from the site and stock-piled on the adjacent property.

In general, low levels of toxaphene below Arizona Residential Soil Remediation Levels (RSRL) are present in the upper 8 feet of soil removed from the excavation area. Ninyo & Moore estimates that this is from agricultural activities in the area and/or windblown migrations from the Sanders Aviation site. Previous assessment and soil remediation efforts on the FCDMC site conducted by the EPA and SRP have removed areas of high surface soil toxaphene contamination (Figure 3). The low levels of toxaphene in the soil removed from the Ninyo & Moore excavation between 8-12 feet bgs (Figure 4) appears to be the result of migration of toxaphene contamination from the Sanders Aviation site.

Based on the conducted subsurface investigation results and review of available reports on the assessment and remediation of the Sanders Aviation site, Ninyo & Moore makes the following conclusions regarding the toxaphene contamination at the proposed South Basin site:

- Samples of the soil excavated from 0-8 feet bgs reported toxaphene concentrations below the RSRL for toxaphene. Ninyo & Moore estimates that toxaphene concentrations are from soils in the upper 2 feet due to probable agricultural activities in the area and/or windblown migrations from the Sanders Aviation site.

- It appears the vertical extent of toxaphene-impacted soil above the RSRL of 4.0 mg/kg has been delineated in the excavation area, except for excavation sample location S-4 at 12 feet bgs. Ninyo & Moore also concludes that toxaphene contamination above the RSRL is still present at 12 feet bgs at the southern excavation boundary, near Ninyo & Moore sample location S-4.

- Previous investigations have indicated that toxaphene-impacted soil was detected in a limited area from 9-12 feet bgs, extending from the south property boundary to the south central portion of site. This soil was excavated and sampled with the appropriate amount of composite samples. Analytical results reported that the excavated soil from 8-12 feet bgs was below the toxaphene RSRL and can be used as backfill on site.

- Based on our review of previous assessments and our surface and subsurface soil assessment, the site contains non-detectable to low toxaphene concentrations in the soil below the RSRL, except for SRP's assessment surface soil samples #27 and excavation confirmation sample NE-10 in the southwest portion of the site and Ninyo & Moore's excavation confirmation sample S-4 located at 12 feet bgs, along the south site boundary.

Ninyo & Moore makes the following recommendations:

- In the event that the excavated soil from 0-8 feet is removed from the site as clean soil, Ninyo & Moore recommends as a precautionary measure that the soil should be blended and re-sampled to show compliance with RSRLs.

- In the event that the excavated and stocked piled soil from 0-8 feet is removed from site and sent to an appropriate landfill, additional soil sampling for toxaphene will be needed.

- Based on previous reported surface contamination and the assumption that the surface contamination is from probable agricultural activities in the area and/or windblown migrations from the Sanders Aviation site, Ninyo & Moore recommends that as part of the development of the site, the upper 2 feet of soil in the southwest corner of site at former SRP sample locations #27 and NE-10, be excavated and removed from the site or blended with clean soils and sampled to demonstrated compliance with RSRLs.

- As part of development of the site, the portion of the site near the south property boundary should be backfilled with clean soil. Currently the FCDMC has proposed an earth berm approximately 20-30 feet wide be constructed along the south property boundary.

1. INTRODUCTION

Ninyo & Moore was retained by the Flood Control District of Maricopa County (FCDMC) to perform an Environmental Subsurface Investigation (ESI) at the South Basin site located in Guadalupe, Arizona (Figure 1). Previous subsurface investigations reported toxaphene contamination in surface and subsurface soil on the south side of the site. The purpose of this ESI is to excavate toxaphene-contaminated soil between 8 and 12 feet below grade surface (bgs), and to collect and analyze confirmation soil samples.

1.1. Site Description

The site is located approximately 0.5 miles south of West Guadalupe Road and 0.5 east of Avenida Del Yaqui in Guadalupe, Arizona. The site is bordered by residential property to the north, vacant land (former Sanders Aviation Superfund site) to the south, the Highline Canal to the east, and vacant land and a storage facility to the west. Prior to excavation activities, the site was vacant land with piles of trash from recent squatters.

1.2. Geology/Hydrogeology

The project site is located in the Sonoran Desert section of the Basin and Range physiographic province, which is typified by broad alluvial valleys separated by steep, discontinuous subparallel mountain ranges. The mountain ranges generally trend north-south and northwest-southeast.

The basin fill consists of alluvium with thicknesses extending to several thousands of feet. The surface geology of the area is described as Holocene (less than 10,000 years old) alluvial deposits with weakly developed soils. The deep pre-basin and range sediments consist of highly consolidated fanglomerate and other alluvial sediments. The lower basin fill sediments consist of weak to highly consolidated fine-grained alluvial deposits laid down during the early stages of Basin and Range faulting. The lower alluvial unit contains extensive evaporites and volcanic rocks and is greater than 11,000 feet thick. The upper alluvial unit is composed of generally unconsolidated, fine to coarse-grained alluvial sediments. The unit is

coarser-grained than the lower unit and is approximately 1,000 feet thick in the East Salt River sub-basin.

The site is located within the East Salt River sub-basin of the Phoenix active management unit. The depth to groundwater in the vicinity of the site varies from 74 feet to 280 feet bgs and is flowing toward the west (ADWR 1995).

1.3. Previous Investigations

The Arizona Department of Health Services started soil and groundwater assessment activity in this area in 1983. From 1983 to 1994 a variety of consultants conducted assessment activities at the Sanders Aviation site. The majority of activities centered around the disposal pond area that borders the southeast portion of the FCDMC site. In March and April of 1994 the Arizona Department of Environmental Quality (ADEQ) began excavating the disposal pond and wash pad areas. Activities were halted due to high levels of toxaphene, and the excavation was backfilled with surface soils. The ADEQ exhausted their available fund and ceased work on the site. The EPA took over in 1994 and conducted the assessment and removal of toxaphene-contaminated soil from the Sanders Aviation site and the southern boundary of the FCDMC site.

The Salt River Project (SRP) owned the site in 1994 and conducted a near surface assessment in 1994. Prior to SRP ownership, the site and surrounding property was used for residential and agricultural purposes. SRP reported toxaphene concentrations above RSRL in 5 of 33 collected soil samples. The two areas with the highest concentrations were excavated and transported to the Sanders Aviation site for remediation. One area was located at SRP sample location #31 in the southwest portion of the site and was excavated to 1-foot bgs in a circular area with a radius of 30 feet (Figure 2 & 3). Confirmation soil samples were collected at the 10-foot and at the 20-foot radius at 1-foot bgs (Figure 4). Six of the eight confirmation sample concentrations at 1-foot bgs exceeded SRP's predetermined remediation level of 12 mg/kg for toxaphene. The excavation was extended in the same area to a depth of 2 feet bgs, and additional samples were collected at 2 feet bgs. Confirmation sam-

ple concentrations at 2 feet bgs did not exceeded SRP's predetermined remediation level of 12 mg/kg for toxaphene. However, sample NE-10, with a concentration of 6.7 mg/kg, exceeded the RSRL for toxaphene.

The SRP sample location #8 (Figure 3) was excavated in the same manner as sample location #31, with an excavation radius of 10 feet and depth of 2 feet bgs. Confirmation concentrations at 2 feet bgs did not exceeded SRP's predetermined remediation level of 12 mg/kg or the RSRL for toxaphene.

Two of the SRP sample locations, #28 and #29, that exceeded the RSRL were excavated during the recent excavation activities described in this report. The remaining SRP sample location that exceeds the RSRL is #27, which is located in the southwest corner of site (Figure 2).

Brown and Caldwell (B&C) conducted a limited Phase II Environmental Site Investigation to assess the potential presence and vertical extent of toxaphene contamination and prepared the *Draft Environmental Site Characterization / Investigation* report dated October 21, 1998. The report concluded that "*the toxaphene contaminated soil appears to be limited to a layer between 9 and twelve feet below grade surface*" (bgs) and that "*it does not appear that adequate characterization and remediation was completed during prior subsurface investigations of the adjacent Sanders Aviation site.*"

Additional environmental subsurface assessment activities were conducted by B&C in December of 1998 and described in a letter report dated February 3, 1999. The letter report concluded that "*the lateral extent of toxaphene–impacted soil at the site has been defined. Toxaphene concentrations above RSRL have only been detected in borings near the south-property boundary. The analytical results indicate that the lateral extent of toxaphene between 9 and 12 feet bgs is limited to the area between the southern boundary of the Site and the south-central part of the site.*" The B&C sample locations and analytical results are presented in Figure 4.

2. PURPOSE/OBJECTIVES

The purpose of this ESI is to excavate toxaphene-contaminated soil between 8 and 12 feet bgs and to collect and analyze confirmation soil samples. The objective of this project is to reduce the potential of toxaphene-contaminated soil impacting the construction of the proposed South Basin.

3. FIELD ACTIVITIES

3.1. Pre Field Activities

Prior to commencing excavation activities, Arizona Blue Stake cleared utilities in the vicinity of the excavation. The excavation boundary was surveyed and marked by FCDMC. MP Environmental Services, Inc. (MP) was selected to provide equipment and personnel for the advancement of the excavation. MP also obtained an earth moving permit through the Maricopa County Environmental Services Department Air Quality Division.

Ninyo & Moore prepared a site-specific Health and Safety Plan (HASP) to comply with OSHA requirements. Prior to initiating site work, a Ninyo & Moore field representative (Site Manager) conducted an on-site health and safety meeting with subcontractor personnel. Personnel working at the site had safety training in compliance with the requirements of the 29 CFR 1910.120. Personnel working at the site acknowledged their understanding of the health and safety issues associated with this project and the appropriate safety precautions to be used by signing the HASP. The HASP was kept on-site during the course of corrective actions.

3.2. Excavation Activities

On February 11, 2002 Ninyo & Moore personnel mobilized to the site to document the advancement of excavation and to collect appropriate soil samples. The excavation was advanced using a EX200 44,000-lb. excavator, CAT 950 Loader, and 2,000-gallon water truck.

The excavation was initially advanced to approximately 8 feet bgs. Soil from the excavation was stock piled on the property immediately west of the site (Figure 5). Ninyo & Moore estimated that 2350 cubic yards of soil was removed from the region from 0 to 8 feet bgs. In the second phase, the reported contaminated interval from 8 to 12 feet bgs was excavated and placed in stockpiles on plastic sheeting. Ninyo & Moore estimated that 1210 cubic yards of soil was removed from the region from 9 to 12 feet bgs (Figure 5). The excavation was marked off with caution tape, and the area was secured with locked fencing.

During excavation activities, water was applied to the excavation area and on equipment drive areas to suppress dust emissions. Air particulate monitoring was conducted to show monitor dust control measures were effective. Air particulate monitoring results are provided in Appendix A.

3.3. Soil Sampling Procedures and Analysis

Confirmation soil samples were collected following soil removal. The discrete excavation samples were collected from the bottom of the excavation at 12 feet bgs on a 20-foot grid (Figure 5).

Soil samples were collected in the excavation with a stainless steel 6-inch shovel and placed in 4-ounce glass jars with Teflon lined caps. Soil sampling equipment was decontaminated between events, and each sample was labeled with a sample identifier, date, and time collected. Field activities were recorded in the field notes. The collected soil samples were immediately relinquished to an on site Arizona Department of Health Services (ADHS) certified mobile laboratory for analysis with appropriate chain of custody documentation. Each of the discrete soil samples collected from the excavation was analyzed for toxaphene using modified EPA method 8081A. Collected soil samples were then relinquished by the mobile laboratory to the ADHS certified fixed base laboratory for confirmation analysis of toxaphene using EPA method 3550/8081A.

Using the same sample collection method, eight discrete soil samples were collected from the stockpiled soil excavated from 0-8 feet bgs (Figure 2). Sixteen composite soil samples

were collected from the soil stockpiled on plastic. One composite soil sample was collected from each of the 16 individual soil stockpiles. The composite sample was collected by shoveling into the soil pile approximately 1 to 2 feet and removing a 6-inch shovel full of soil. The removed soil was placed into a stainless steel mixing bowl and homogenized. Four aliquots were collected for each composite sample. A 5-gram En-Core sampler was then used to collect a composite sample from the mixing bowl. The soil stockpile samples were placed in a cooler with ice and submitted under chain of custody to the fixed base laboratory. Each of the discrete and composite stocked soil samples were analyzed by the fixed base laboratory for toxaphene using EPA method 8081A.

4. DISCUSSION OF ANALYTICAL RESULTS

Analytical results from the discrete soil samples collected in the excavation reported toxaphene concentration in soil below the ADEQ RSRLs, except for sample S-4 at 12 feet bgs, which reported a toxaphene concentration of 30.0 mg/kg (Table 1).

Table 1 – Discrete Excavation Soil Samples Analytical Results for Toxaphene

Residential Soil Remediation Level of 4.0 mg/kg for Toxaphene			
Sample Identifier	**Sample Depth Feet bgs**	**Mobile Lab in mg/kg**	**Fixed base Lab mg/kg**
S-1	12	<1.0	<.200
S-2	12	<1.0	<.200
S-3	12	<1.0	<.200
S-4	12	**17.0**	**30.0**
S-5	12	1.5	1.1
S-6	12	<1.0	<.200
S-7	12	<1.0	<.200
S-8	12	1.3	2.0
S-9	12	<1.0	<.200
S-10	12	<1.0	<.200
S-11	12	<1.0	<.200
S-12	12	<1.0	<.200
S-13	12	<1.0	<.200
S-14	13	<1.0	<.200
S-15	12	<1.0	<.200

Table 1 – Discrete Excavation Soil Samples Analytical Results for Toxaphene

Residential Soil Remediation Level of 4.0 mg/kg for Toxaphene			
Sample Identifier	**Sample Depth Feet bgs**	**Mobile Lab in mg/kg**	**Fixed base Lab mg/kg**
S-16	12	<1.0	<.200
S-17	12	<1.0	<.200
S-18	12	<1.0	<.200
S-19	12	<1.0	<.200
S-20	12	<1.0	<.200
S-21	12	<1.0	<.200
S-22	12	<1.0	<.200
S-23	12	<1.0	<.200
S-24	12	<1.0	<.200
S-25	12	<1.0	<200
S-26	12	<1.0	.210
S-27	12	<1.0	<.200
S-28	12	<1.0	<.200
S-29	12	<1.0	<.200
S-30	12	<1.0	<.200

Fixed base laboratory analytical results from the discrete soil samples collected in the soil stock pile excavated from 0-8 feet bgs reported concentrations below the ADEQ RSRL for Toxaphene (Table 2). The location of the collected samples is depicted in 12 figures.

Table 2 – Discrete Soil Sample Analytical Results for Toxaphene from Excavated Soil from 0-8 feet bgs.

ID	SPA-1	SPA-2	SPA-3	SPA-4	SPA-5	SPA-6	SPA-7	SPA-8
Toxaphene mg/kg	1.7	2.3	.260	3.4	2.7	2.0	2.8	2.2

Analytical results from the composite soil samples collected in the soil stockpiles excavated from 8-12 feet bgs reported results below the ADEQ RSRL for Toxaphene (Table 3).

Table 3 – Composite Soil Sample Analytical Results for Toxaphene from Excavated Soil from 8-12 feet bgs.

Sample Identifier	Toxaphene Result in mg/kg
SPB-1	<.200
SPB-2	<.200

Table 3 – Composite Soil Sample Analytical Results for Toxaphene from Excavated Soil from 8-12 feet bgs.

Sample Identifier	Toxaphene Result in mg/kg
SPB-3	<.200
SPB-4	<.200
SPC-1	<.200
SPC-2	<.200
SPC-3	<.200
SPC-4	<.200
SPD-1	1.60
SPD-2	<.200
SPD-3	<.200
SPD-4	<.200
SPE-1	<.200
SPE-2	<.200
SPE-3	.830
SPE-4	<.200

5. FINDINGS AND CONCLUSIONS

5.1. Findings

In general, low levels (below RSRL) of toxaphene are present in the upper 8 feet of soil removed from the excavation area. Ninyo & Moore estimates that this is from probable agricultural activities in the area and/or windblown migrations from the Sanders Aviation site. Previous assessment and soil remediation efforts on the FCDMC site conducted by the EPA and SRP have remediated areas with elevated toxaphene concentrations in the near surface soil (Figure 3). The SRP assessment also described two locations that exceeded the RSRL in the southwest and northeast corners of site. The low levels of toxaphene in the soil removed from the Ninyo & Moore excavation between 8-12 feet bgs (Figure 4) appears to be the result of migration of toxaphene contamination from the Sanders Aviation site.

5.2. Conclusions

Based on the conducted subsurface assessment results and review of available reports on the assessment and remediation of the Sanders Aviation site, Ninyo & Moore makes the following conclusions regarding the toxaphene contamination at the proposed South Basin site:

- Samples of the soil excavated from 0-8 feet bgs reported toxaphene concentrations below the RSRL for toxaphene. Ninyo & Moore estimates that toxaphene concentrations are from soils in the upper 2 feet due to probable agricultural activities in the area and/or windblown migrations from the Sanders Aviation site.

- It appears the vertical extent of toxaphene-impacted soil above the RSRL of 4.0 mg/kg has been delineated in the excavation area, except for excavation sample location S-4 at 12 feet bgs. Ninyo & Moore also concludes that toxaphene contamination above the RSRL is still present at 12 feet bgs at the southern excavation boundary, near Ninyo & Moore sample location S-4.

- Previous investigations have indicated that toxaphene-impacted soil was detected in a limited area from 9-12 feet bgs, extending from the south property boundary to the south central portion of site. This soil was excavated and sampled with the appropriate amount of composite samples. Analytical results reported that the excavated soil from 8-12 feet bgs was below the toxaphene RSRL and can be used as backfill on site.

- Based on our review of previous assessments and our surface and subsurface soil assessment, the site contains non-detectable to low toxaphene concentrations in the soil below the RSRL, except for SRP's assessment surface soil samples #27 and excavation confirmation sample NE-10 in the southwest portion of the site and Ninyo & Moore's excavation confirmation sample S-4 located at 12 feet bgs, along the south site boundary.

6. RECOMMENDATIONS

Ninyo & Moore makes the following recommendations:

- In the event that the excavated soil from 0-8 feet is removed from the site as clean soil, Ninyo & Moore recommends as a precautionary measure that the soil should be blended and re-sampled to show compliance with RSRLs.

- In the event that the excavated and stocked piled soil from 0-8 feet is removed from site and sent to an appropriate landfill, additional soil sampling for toxaphene will be needed.

- Based on previous reported surface contamination and the assumption that the surface contamination is from probable agricultural activities in the area and/or windblown migrations from the Sanders Aviation site, Ninyo & Moore recommends that as part of the development

of the site, the upper 18 inches of soil in the southwest corner of site at former SRP sample locations #27 and NE-10, be excavated and removed from the site or blended with clean soils and sampled to show that the area is appropriate for residential use or excavated and appropriately disposed.

- As part of development of the site, the part of the site near the south property boundary should be backfilled with clean soil. Currently the FCDMC has proposed an earth berm approximately 20-30 feet wide be constructed along the south property boundary.

7. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory that is certified by the State of Arizona to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing

and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

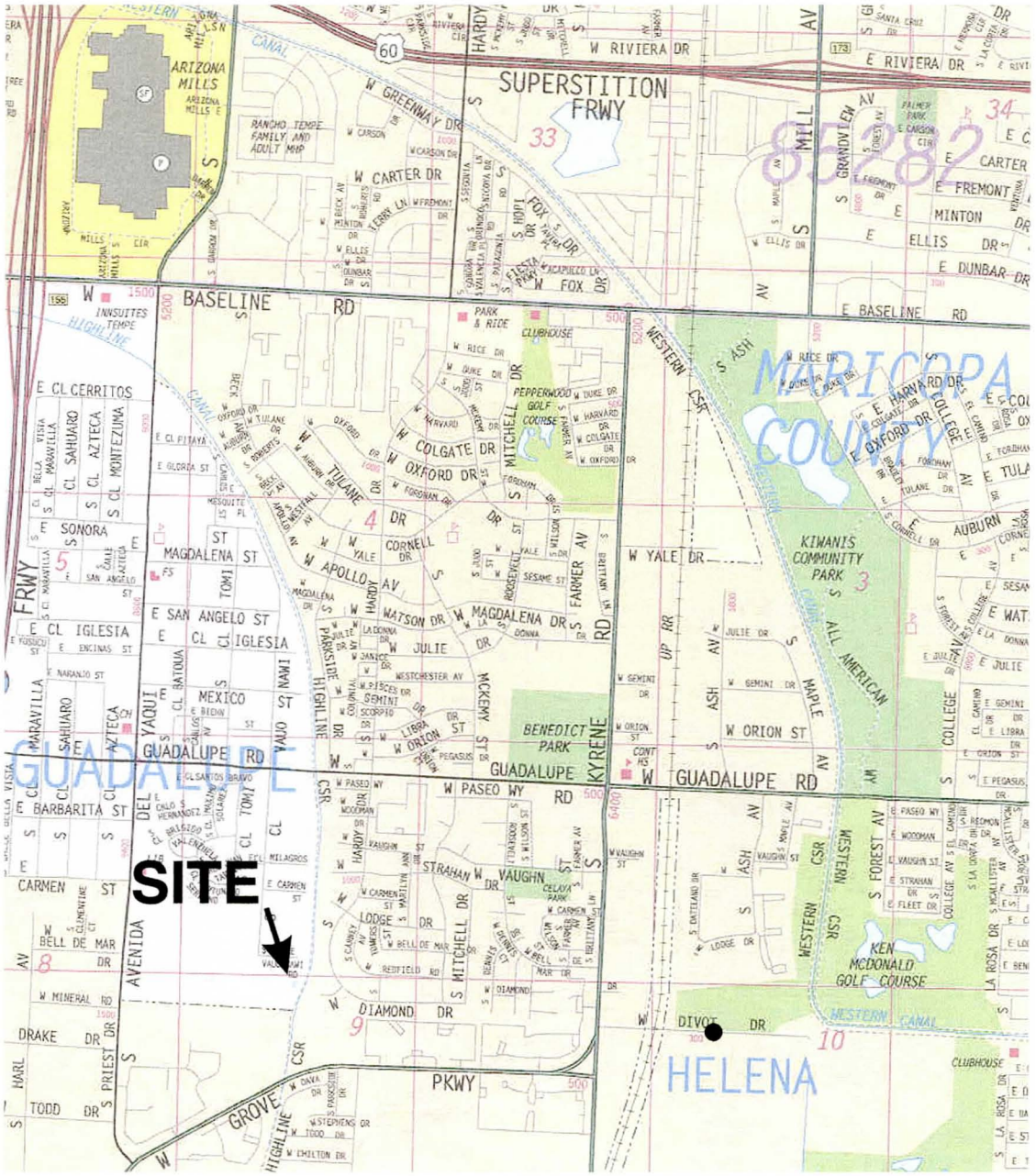
8. REFERENCES

Arizona Department of Water Resources, Hydrologic Map Services No. 27, Sheet 1 of 3, 1995.

Brown & Caldwell, Draft Report, Environmental Site Characterization/Investigation Flood Control District of Maricopa County Proposed South Basin Site, 1998.

Brown & Caldwell, Report of Results of Additional Drilling and Analysis at the Maricopa County Proposed, South Basin Site, Guadalupe, Arizona, 1999.

Salt River Project, Environmental Site Assessment, SRP Zanjero Tract 601, November 5, 1996.



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Approximate Scale in Miles

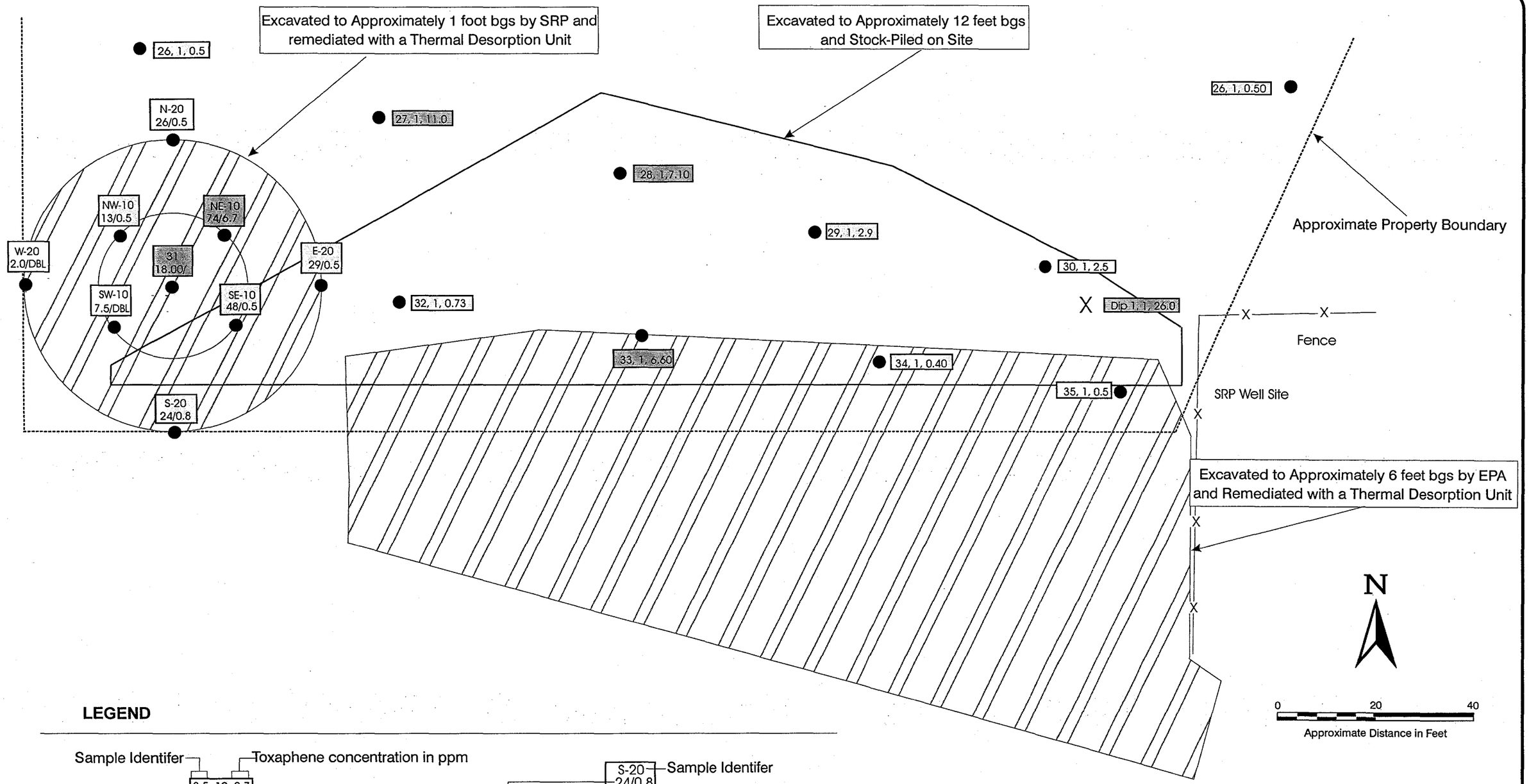
REFERENCE: METROPOLITAN PHOENIX AREA, RAND McNALLY, 2001.

Ninyo & Moore

SITE LOCATION MAP

South Basin
Guadalupe, Arizona

PROJECT NO.	DATE	FIGURE
600220004	04/02	1



LEGEND

Sample Identifer — Toxaphene concentration in ppm

S-5, 12, 2.7

Depth

S-20 — Sample Identifer
24/0.8
Toxaphene concentration in ppm at 2 feet bgs
Toxaphene concentration in ppm at 1 foot bgs

X Approximate Location of Sample Collection By E&E

● Approximate Locations of Sample Collection By SRP

ppm parts per million

ND Non detect for toxaphene

bgs Below ground surface

DBL Below Detection Level

Above Laboratory Reporting Limit for Toxaphene

Above Residential Soil Remediation Level for Toxaphene

Ninyo & Moore

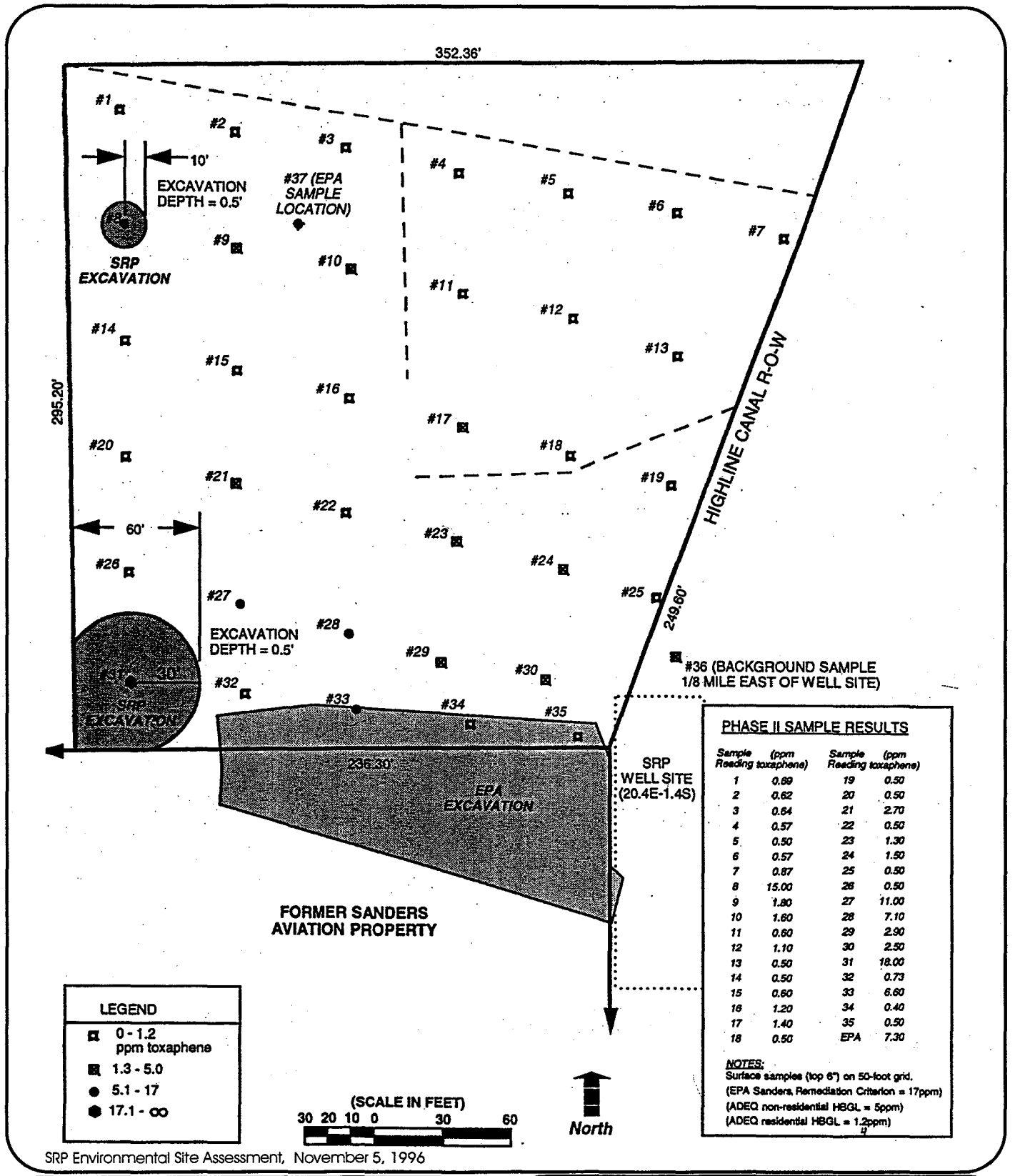
Near Surface Toxaphene Concentrations In Soil

South Basin

Gaudalupe, Arizona

PROJECT NO.	DATE	FIGURE
600220004	04/02	2

G:\600220004 Fig 2



PHASE II SAMPLE RESULTS

Sample Reading	(ppm toxaphene)	Sample Reading	(ppm toxaphene)
1	0.69	19	0.50
2	0.62	20	0.50
3	0.64	21	2.70
4	0.57	22	0.50
5	0.50	23	1.30
6	0.57	24	1.50
7	0.87	25	0.50
8	15.00	26	0.50
9	1.80	27	11.00
10	1.60	28	7.10
11	0.60	29	2.90
12	1.10	30	2.50
13	0.50	31	18.00
14	0.50	32	0.73
15	0.60	33	6.60
16	1.20	34	0.40
17	1.40	35	0.50
18	0.50	EPA	7.30

NOTES:
Surface samples (top 6") on 50-foot grid.
(EPA Sanders Remediation Criterion = 17ppm)
(ADEQ non-residential HBGL = 5ppm)
(ADEQ residential HBGL = 1.2ppm)

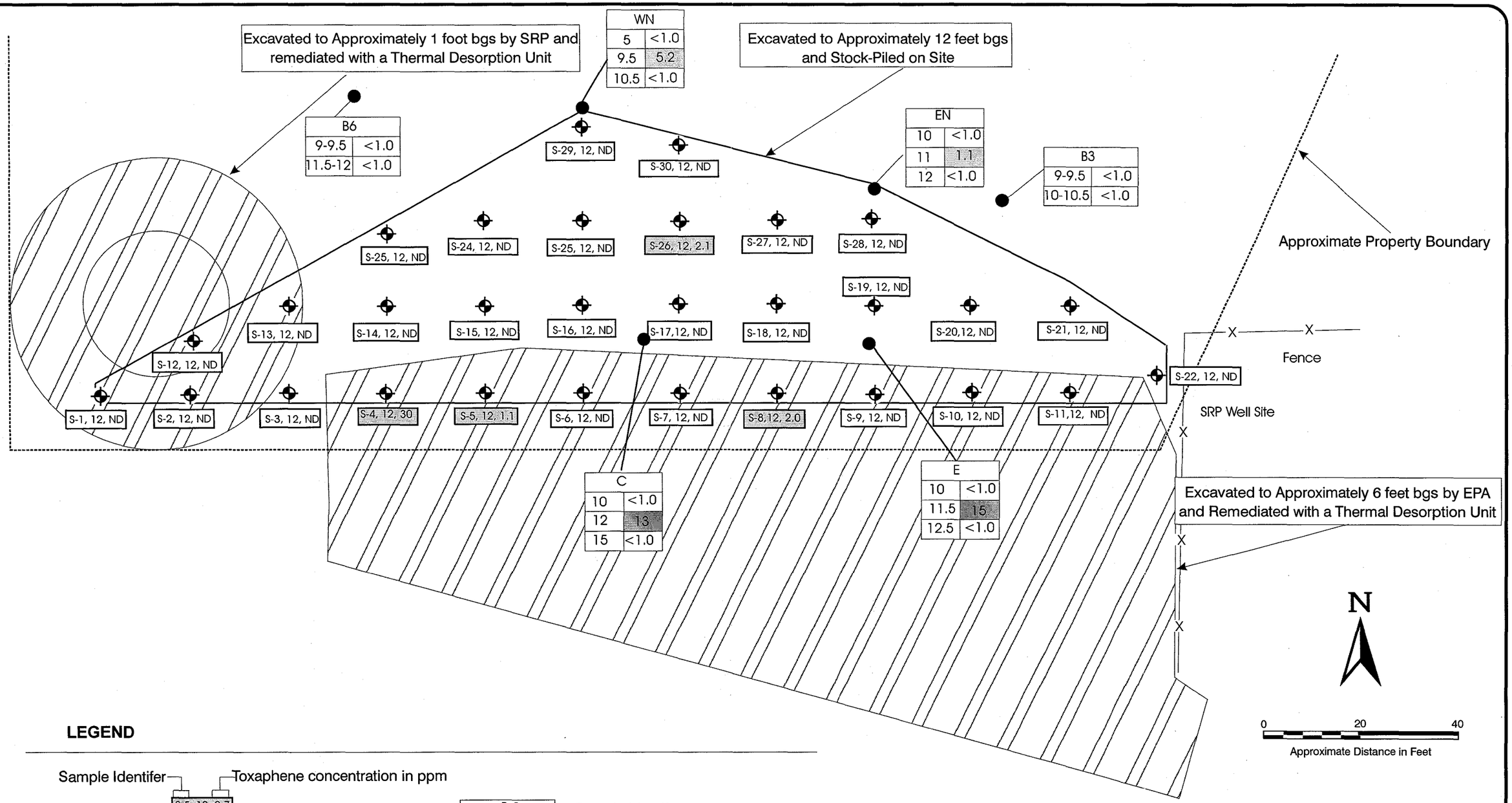
SRP Environmental Site Assessment, November 5, 1996

Ninyo & Moore

SRP SAMPLE LOCATIONS

South Basin
Guadalupe, Arizona

PROJECT NO.	DATE	FIGURE
600220004	04/02	3



LEGEND

Sample Identifer — Toxaphene concentration in ppm

S-5, 12, 2.7

Depth

- ● Approximate Locations of Sample Collection By B&C
- ⌖ Approximate Locations of Sample Collection By N&M
- ppm parts per million
- ND Non detect for toxaphene
- bgs Below ground surface
- DBL Below Detection Level

B-3	
9-9.5	<1.0
10-10.5	<1.0

Sample Identifer
Toxaphene concentration in ppm
Approximate Sample Collection Depth

Above Laboratory Reporting Limit for Toxaphene

Above Residential Soil Remediation Level for Toxaphene

Ninyo & Moore

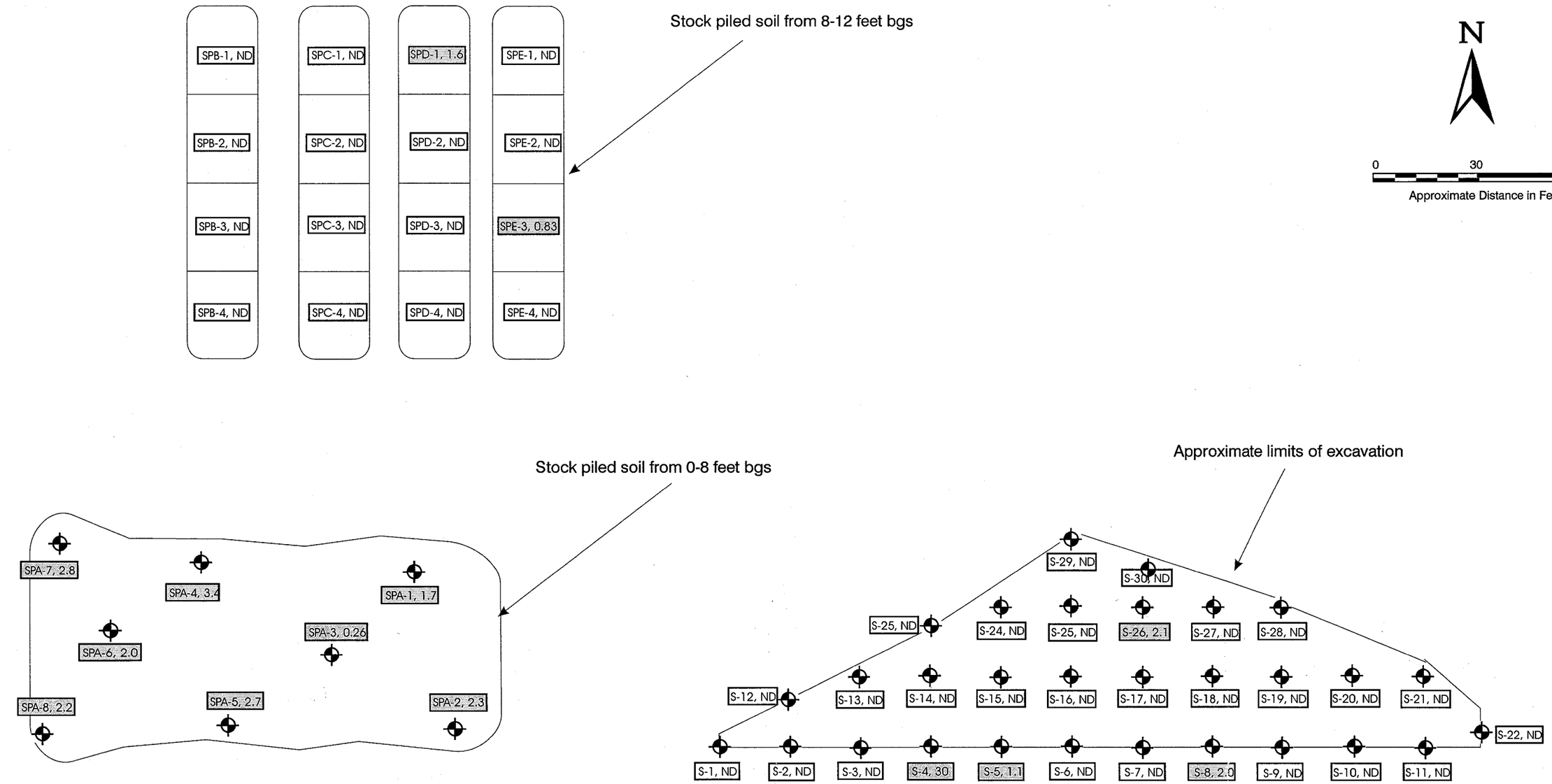
Subsurface Toxaphene Concentrations In Soil

South Basin
Gaudalupe, Arizona

PROJECT NO.	DATE	FIGURE
600220004	04/02	4

G:\600220004 Fig 2

600108-01site



LEGEND

Sample number — Toxaphene concentration in ppm

SPA-5, 2.7

Approximate location of sample collection

Sample results in parts per million (ppm)

ND Non detect for toxaphene

bgs Below ground surface

NOTE: ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

Toxaphene Results In Soil for Excavated Confirmation and Stockpiled Samples

South Basin

Gaudalupe, Arizona

PROJECT NO.	DATE	FIGURE
600220004	04/02	5

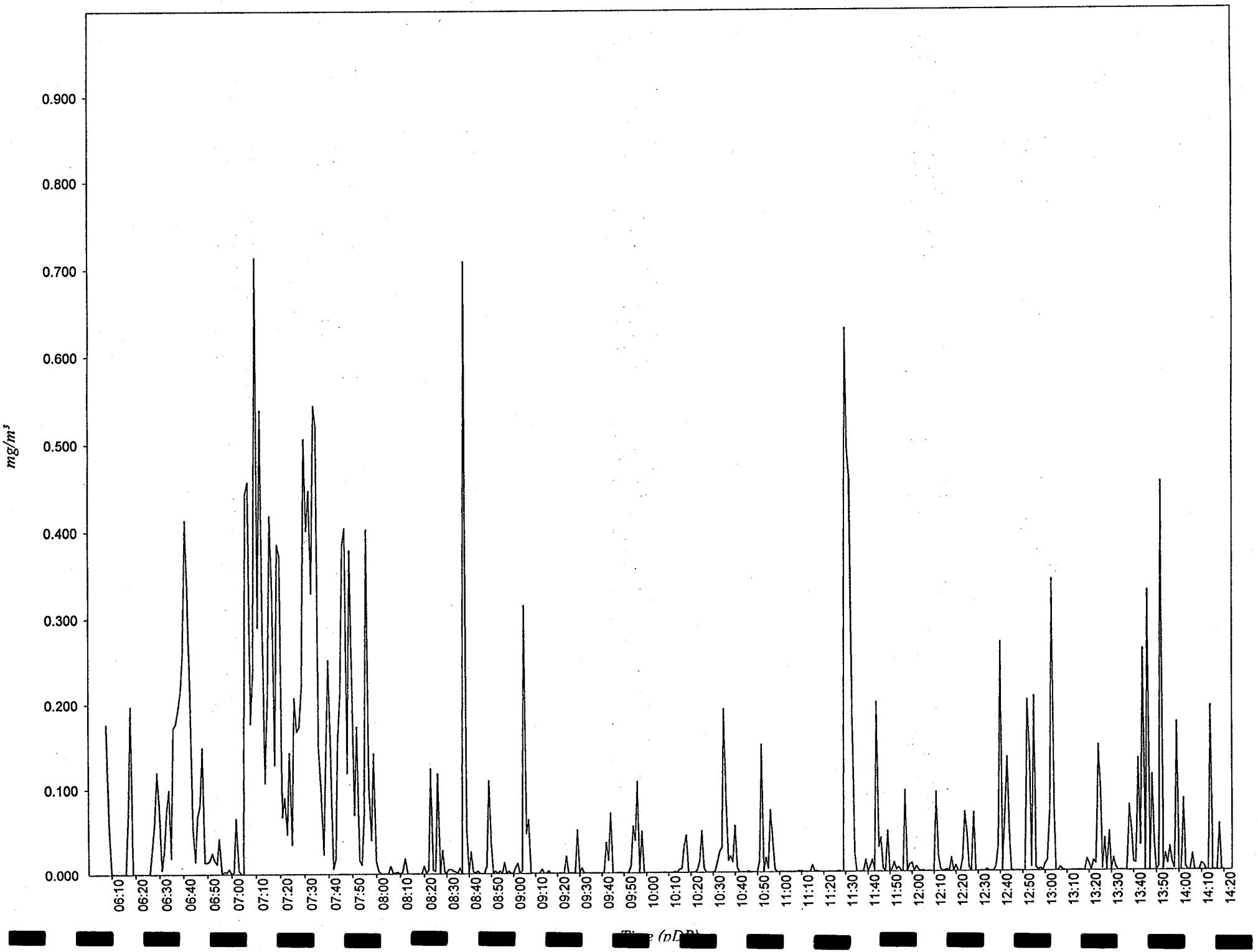
G:\600108-01SITE

Ninyo & Moore

APPENDIX A

PARTICULATE MONITORING DATA

pDR-1000 / Tag # 03 / Start time: Feb 14, 06:06:42



DR-1000
g Number: 03
nber of logged points: 493
tart time and date: 06:06:42 14-Feb
lapsed time: 08:13:00
gging period (sec): 60
libration Factor (%): 100
ax Display Concentration: 2.361 mg/m³
ime at maximum: 13:51:10 Feb 14
x STEL Concentration: 0.334 mg/m³
me at max STEL: 07:19:42 Feb 14
verall Avg Conc: 0.014 mg/m³
gged Data:

int,	Date	Time	Avg.(mg/m³)
1,	14 Feb,	06:07:42,	0.176
2,	14 Feb,	06:08:42,	0.063
3,	14 Feb,	06:09:42,	0.001
4,	14 Feb,	06:10:42,	0.000
5,	14 Feb,	06:11:42,	0.000
6,	14 Feb,	06:12:42,	0.000
7,	14 Feb,	06:13:42,	0.000
8,	14 Feb,	06:14:42,	0.000
9,	14 Feb,	06:15:42,	0.000
10,	14 Feb,	06:16:42,	0.068
11,	14 Feb,	06:17:42,	0.197
12,	14 Feb,	06:18:42,	0.000
13,	14 Feb,	06:19:42,	0.000
14,	14 Feb,	06:20:42,	0.000
15,	14 Feb,	06:21:42,	0.000
16,	14 Feb,	06:22:42,	0.000
17,	14 Feb,	06:23:42,	0.000
18,	14 Feb,	06:24:42,	0.000
19,	14 Feb,	06:25:42,	0.000
20,	14 Feb,	06:26:42,	0.029
21,	14 Feb,	06:27:42,	0.060
22,	14 Feb,	06:28:42,	0.119
23,	14 Feb,	06:29:42,	0.078
24,	14 Feb,	06:30:42,	0.005
25,	14 Feb,	06:31:42,	0.027
26,	14 Feb,	06:32:42,	0.074
27,	14 Feb,	06:33:42,	0.099
28,	14 Feb,	06:34:42,	0.019
29,	14 Feb,	06:35:42,	0.172
30,	14 Feb,	06:36:42,	0.177
31,	14 Feb,	06:37:42,	0.194
32,	14 Feb,	06:38:42,	0.215
33,	14 Feb,	06:39:42,	0.261
34,	14 Feb,	06:40:42,	0.413
35,	14 Feb,	06:41:42,	0.323
36,	14 Feb,	06:42:42,	0.197
37,	14 Feb,	06:43:42,	0.054
38,	14 Feb,	06:44:42,	0.015
39,	14 Feb,	06:45:42,	0.068
40,	14 Feb,	06:46:42,	0.081
41,	14 Feb,	06:47:42,	0.148
42,	14 Feb,	06:48:42,	0.014
43,	14 Feb,	06:49:42,	0.014
44,	14 Feb,	06:50:42,	0.016
45,	14 Feb,	06:51:42,	0.025
46,	14 Feb,	06:52:42,	0.016
47,	14 Feb,	06:53:42,	0.012
48,	14 Feb,	06:54:42,	0.042
49,	14 Feb,	06:55:42,	0.000
50,	14 Feb,	06:56:42,	0.003
51,	14 Feb,	06:57:42,	0.002
52,	14 Feb,	06:58:42,	0.006
53,	14 Feb,	06:59:42,	0.000
54,	14 Feb,	07:00:42,	0.002
55,	14 Feb,	07:01:42,	0.066
56,	14 Feb,	07:02:42,	0.004
57,	14 Feb,	07:03:42,	0.000

58,	14	Feb,	07:04:42,	0.000
59,	14	Feb,	07:05:42,	0.444
60,	14	Feb,	07:06:42,	0.457
61,	14	Feb,	07:07:42,	0.177
62,	14	Feb,	07:08:42,	0.239
63,	14	Feb,	07:09:42,	0.714
64,	14	Feb,	07:10:42,	0.290
65,	14	Feb,	07:11:42,	0.539
66,	14	Feb,	07:12:42,	0.288
67,	14	Feb,	07:13:42,	0.107
68,	14	Feb,	07:14:42,	0.207
69,	14	Feb,	07:15:42,	0.418
70,	14	Feb,	07:16:42,	0.325
71,	14	Feb,	07:17:42,	0.128
72,	14	Feb,	07:18:42,	0.385
73,	14	Feb,	07:19:42,	0.371
74,	14	Feb,	07:20:42,	0.068
75,	14	Feb,	07:21:42,	0.090
76,	14	Feb,	07:22:42,	0.047
77,	14	Feb,	07:23:42,	0.142
78,	14	Feb,	07:24:42,	0.035
79,	14	Feb,	07:25:42,	0.207
80,	14	Feb,	07:26:42,	0.167
81,	14	Feb,	07:27:42,	0.173
82,	14	Feb,	07:28:42,	0.221
83,	14	Feb,	07:29:42,	0.506
84,	14	Feb,	07:30:42,	0.401
85,	14	Feb,	07:31:42,	0.447
86,	14	Feb,	07:32:42,	0.329
87,	14	Feb,	07:33:42,	0.544
88,	14	Feb,	07:34:42,	0.519
89,	14	Feb,	07:35:42,	0.147
90,	14	Feb,	07:36:42,	0.098
91,	14	Feb,	07:37:42,	0.023
92,	14	Feb,	07:38:42,	0.134
93,	14	Feb,	07:39:42,	0.251
94,	14	Feb,	07:40:42,	0.149
95,	14	Feb,	07:41:42,	0.006
96,	14	Feb,	07:42:42,	0.018
97,	14	Feb,	07:43:42,	0.156
98,	14	Feb,	07:44:42,	0.211
99,	14	Feb,	07:45:42,	0.384
100,	14	Feb,	07:46:42,	0.404
101,	14	Feb,	07:47:42,	0.118
102,	14	Feb,	07:48:42,	0.378
103,	14	Feb,	07:49:42,	0.229
104,	14	Feb,	07:50:42,	0.070
105,	14	Feb,	07:51:42,	0.173
106,	14	Feb,	07:52:42,	0.016
107,	14	Feb,	07:53:42,	0.011
108,	14	Feb,	07:54:42,	0.069
109,	14	Feb,	07:55:42,	0.402
110,	14	Feb,	07:56:42,	0.101
111,	14	Feb,	07:57:42,	0.040
112,	14	Feb,	07:58:42,	0.141
113,	14	Feb,	07:59:42,	0.015
114,	14	Feb,	08:00:42,	0.003
115,	14	Feb,	08:01:42,	0.000
116,	14	Feb,	08:02:42,	0.000
117,	14	Feb,	08:03:42,	0.000
118,	14	Feb,	08:04:42,	0.000
119,	14	Feb,	08:05:42,	0.009
120,	14	Feb,	08:06:42,	0.001
121,	14	Feb,	08:07:42,	0.001
122,	14	Feb,	08:08:42,	0.002
123,	14	Feb,	08:09:42,	0.000
124,	14	Feb,	08:10:42,	0.002
125,	14	Feb,	08:11:42,	0.018
126,	14	Feb,	08:12:42,	0.000
127,	14	Feb,	08:13:42,	0.000
128,	14	Feb,	08:14:42,	0.000

129,	14	Feb,	08:15:42,	0.000
130,	14	Feb,	08:16:42,	0.000
131,	14	Feb,	08:17:42,	0.000
132,	14	Feb,	08:18:42,	0.000
133,	14	Feb,	08:19:42,	0.009
134,	14	Feb,	08:20:42,	0.001
135,	14	Feb,	08:21:42,	0.004
136,	14	Feb,	08:22:42,	0.123
137,	14	Feb,	08:23:42,	0.004
138,	14	Feb,	08:24:42,	0.003
139,	14	Feb,	08:25:42,	0.117
140,	14	Feb,	08:26:42,	0.001
141,	14	Feb,	08:27:42,	0.028
142,	14	Feb,	08:28:42,	0.002
143,	14	Feb,	08:29:42,	0.001
144,	14	Feb,	08:30:42,	0.005
145,	14	Feb,	08:31:42,	0.005
146,	14	Feb,	08:32:42,	0.003
147,	14	Feb,	08:33:42,	0.002
148,	14	Feb,	08:34:42,	0.001
149,	14	Feb,	08:35:42,	0.007
150,	14	Feb,	08:36:42,	0.000
151,	14	Feb,	08:37:42,	0.709
152,	14	Feb,	08:38:42,	0.051
153,	14	Feb,	08:39:42,	0.000
154,	14	Feb,	08:40:42,	0.026
155,	14	Feb,	08:41:42,	0.002
156,	14	Feb,	08:42:42,	0.001
157,	14	Feb,	08:43:42,	0.003
158,	14	Feb,	08:44:42,	0.000
159,	14	Feb,	08:45:42,	0.000
160,	14	Feb,	08:46:42,	0.000
161,	14	Feb,	08:47:42,	0.009
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165,	14	Feb,	08:51:42,	0.003
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167,	14	Feb,	08:53:42,	0.003
168,	14	Feb,	08:54:42,	0.000
169,	14	Feb,	08:55:42,	0.013
170,	14	Feb,	08:56:42,	0.000
171,	14	Feb,	08:57:42,	0.003
172,	14	Feb,	08:58:42,	0.000
173,	14	Feb,	08:59:42,	0.000
174,	14	Feb,	09:00:42,	0.007
175,	14	Feb,	09:01:42,	0.012
176,	14	Feb,	09:02:42,	0.000
177,	14	Feb,	09:03:42,	0.003
178,	14	Feb,	09:04:42,	0.314
179,	14	Feb,	09:05:42,	0.047
180,	14	Feb,	09:06:42,	0.064
181,	14	Feb,	09:07:42,	0.001
182,	14	Feb,	09:08:42,	0.000
183,	14	Feb,	09:09:42,	0.000
184,	14	Feb,	09:10:42,	0.000
185,	14	Feb,	09:11:42,	0.000
186,	14	Feb,	09:12:42,	0.005
187,	14	Feb,	09:13:42,	0.000
188,	14	Feb,	09:14:42,	0.000
189,	14	Feb,	09:15:42,	0.003
190,	14	Feb,	09:16:42,	0.000
191,	14	Feb,	09:17:42,	0.000
192,	14	Feb,	09:18:42,	0.000
193,	14	Feb,	09:19:42,	0.000
194,	14	Feb,	09:20:42,	0.000
195,	14	Feb,	09:21:42,	0.000
196,	14	Feb,	09:22:42,	0.000
197,	14	Feb,	09:23:42,	0.020
198,	14	Feb,	09:24:42,	0.000
199,	14	Feb,	09:25:42,	0.000

200,	14	Feb,	09:26:42,	0.000
201,	14	Feb,	09:27:42,	0.001
202,	14	Feb,	09:28:42,	0.051
203,	14	Feb,	09:29:42,	0.000
204,	14	Feb,	09:30:42,	0.006
205,	14	Feb,	09:31:42,	0.000
206,	14	Feb,	09:32:42,	0.000
207,	14	Feb,	09:33:42,	0.000
208,	14	Feb,	09:34:42,	0.000
209,	14	Feb,	09:35:42,	0.000
210,	14	Feb,	09:36:42,	0.000
211,	14	Feb,	09:37:42,	0.000
212,	14	Feb,	09:38:42,	0.000
213,	14	Feb,	09:39:42,	0.000
214,	14	Feb,	09:40:42,	0.000
215,	14	Feb,	09:41:42,	0.036
216,	14	Feb,	09:42:42,	0.015
217,	14	Feb,	09:43:42,	0.071
218,	14	Feb,	09:44:42,	0.000
219,	14	Feb,	09:45:42,	0.000
220,	14	Feb,	09:46:42,	0.000
221,	14	Feb,	09:47:42,	0.000
222,	14	Feb,	09:48:42,	0.000
223,	14	Feb,	09:49:42,	0.000
224,	14	Feb,	09:50:42,	0.000
225,	14	Feb,	09:51:42,	0.000
226,	14	Feb,	09:52:42,	0.008
227,	14	Feb,	09:53:42,	0.055
228,	14	Feb,	09:54:42,	0.038
229,	14	Feb,	09:55:42,	0.107
230,	14	Feb,	09:56:42,	0.000
231,	14	Feb,	09:57:42,	0.049
232,	14	Feb,	09:58:42,	0.000
233,	14	Feb,	09:59:42,	0.000
234,	14	Feb,	10:00:42,	0.000
235,	14	Feb,	10:01:42,	0.000
236,	14	Feb,	10:02:42,	0.000
237,	14	Feb,	10:03:42,	0.000
238,	14	Feb,	10:04:42,	0.000
239,	14	Feb,	10:05:42,	0.000
240,	14	Feb,	10:06:42,	0.000
241,	14	Feb,	10:07:42,	0.000
242,	14	Feb,	10:08:42,	0.000
243,	14	Feb,	10:09:42,	0.000
244,	14	Feb,	10:10:42,	0.000
245,	14	Feb,	10:11:42,	0.000
246,	14	Feb,	10:12:42,	0.001
247,	14	Feb,	10:13:42,	0.000
248,	14	Feb,	10:14:42,	0.004
249,	14	Feb,	10:15:42,	0.004
250,	14	Feb,	10:16:42,	0.031
251,	14	Feb,	10:17:42,	0.044
252,	14	Feb,	10:18:42,	0.000
253,	14	Feb,	10:19:42,	0.000
254,	14	Feb,	10:20:42,	0.000
255,	14	Feb,	10:21:42,	0.000
256,	14	Feb,	10:22:42,	0.003
257,	14	Feb,	10:23:42,	0.013
258,	14	Feb,	10:24:42,	0.049
259,	14	Feb,	10:25:42,	0.005
260,	14	Feb,	10:26:42,	0.000
261,	14	Feb,	10:27:42,	0.000
262,	14	Feb,	10:28:42,	0.000
263,	14	Feb,	10:29:42,	0.000
264,	14	Feb,	10:30:42,	0.001
265,	14	Feb,	10:31:42,	0.012
266,	14	Feb,	10:32:42,	0.024
267,	14	Feb,	10:33:42,	0.029
268,	14	Feb,	10:34:42,	0.192
269,	14	Feb,	10:35:42,	0.084
270,	14	Feb,	10:36:42,	0.014

271,	14	Feb,	10:37:42,	0.019
272,	14	Feb,	10:38:42,	0.012
273,	14	Feb,	10:39:42,	0.055
274,	14	Feb,	10:40:42,	0.005
275,	14	Feb,	10:41:42,	0.000
276,	14	Feb,	10:42:42,	0.000
277,	14	Feb,	10:43:42,	0.000
278,	14	Feb,	10:44:42,	0.000
279,	14	Feb,	10:45:42,	0.001
280,	14	Feb,	10:46:42,	0.000
281,	14	Feb,	10:47:42,	0.000
282,	14	Feb,	10:48:42,	0.000
283,	14	Feb,	10:49:42,	0.000
284,	14	Feb,	10:50:42,	0.012
285,	14	Feb,	10:51:42,	0.149
286,	14	Feb,	10:52:42,	0.000
287,	14	Feb,	10:53:42,	0.017
288,	14	Feb,	10:54:42,	0.004
289,	14	Feb,	10:55:42,	0.073
290,	14	Feb,	10:56:42,	0.038
291,	14	Feb,	10:57:42,	0.003
292,	14	Feb,	10:58:42,	0.000
293,	14	Feb,	10:59:42,	0.000
294,	14	Feb,	11:00:42,	0.000
295,	14	Feb,	11:01:42,	0.000
296,	14	Feb,	11:02:42,	0.000
297,	14	Feb,	11:03:42,	0.000
298,	14	Feb,	11:04:42,	0.000
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300,	14	Feb,	11:06:42,	0.000
301,	14	Feb,	11:07:42,	0.000
302,	14	Feb,	11:08:42,	0.001
303,	14	Feb,	11:09:42,	0.001
304,	14	Feb,	11:10:42,	0.000
305,	14	Feb,	11:11:42,	0.000
306,	14	Feb,	11:12:42,	0.000
307,	14	Feb,	11:13:42,	0.000
308,	14	Feb,	11:14:42,	0.008
309,	14	Feb,	11:15:42,	0.000
310,	14	Feb,	11:16:42,	0.001
311,	14	Feb,	11:17:42,	0.000
312,	14	Feb,	11:18:42,	0.000
313,	14	Feb,	11:19:42,	0.000
314,	14	Feb,	11:20:42,	0.000
315,	14	Feb,	11:21:42,	0.000
316,	14	Feb,	11:22:42,	0.000
317,	14	Feb,	11:23:42,	0.000
318,	14	Feb,	11:24:42,	0.000
319,	14	Feb,	11:25:42,	0.000
320,	14	Feb,	11:26:42,	0.001
321,	14	Feb,	11:27:42,	0.000
322,	14	Feb,	11:28:42,	0.000
323,	14	Feb,	11:29:42,	0.630
324,	14	Feb,	11:30:42,	0.492
325,	14	Feb,	11:31:42,	0.459
326,	14	Feb,	11:32:42,	0.178
327,	14	Feb,	11:33:42,	0.022
328,	14	Feb,	11:34:42,	0.000
329,	14	Feb,	11:35:42,	0.000
330,	14	Feb,	11:36:42,	0.000
331,	14	Feb,	11:37:42,	0.000
332,	14	Feb,	11:38:42,	0.014
333,	14	Feb,	11:39:42,	0.000
334,	14	Feb,	11:40:42,	0.006
335,	14	Feb,	11:41:42,	0.014
336,	14	Feb,	11:42:42,	0.001
337,	14	Feb,	11:43:42,	0.199
338,	14	Feb,	11:44:42,	0.029
339,	14	Feb,	11:45:42,	0.040
340,	14	Feb,	11:46:42,	0.004
341,	14	Feb,	11:47:42,	0.000

342,	14	Feb,	11:48:42,	0.048
343,	14	Feb,	11:49:42,	0.000
344,	14	Feb,	11:50:42,	0.002
345,	14	Feb,	11:51:42,	0.011
346,	14	Feb,	11:52:42,	0.002
347,	14	Feb,	11:53:42,	0.005
348,	14	Feb,	11:54:42,	0.001
349,	14	Feb,	11:55:42,	0.001
350,	14	Feb,	11:56:42,	0.095
351,	14	Feb,	11:57:42,	0.000
352,	14	Feb,	11:58:42,	0.008
353,	14	Feb,	11:59:42,	0.010
354,	14	Feb,	12:00:42,	0.000
355,	14	Feb,	12:01:42,	0.006
356,	14	Feb,	12:02:42,	0.002
357,	14	Feb,	12:03:42,	0.000
358,	14	Feb,	12:04:42,	0.001
359,	14	Feb,	12:05:42,	0.000
360,	14	Feb,	12:06:42,	0.000
361,	14	Feb,	12:07:42,	0.000
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363,	14	Feb,	12:09:42,	0.000
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369,	14	Feb,	12:15:42,	0.002
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378,	14	Feb,	12:24:42,	0.044
379,	14	Feb,	12:25:42,	0.004
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382,	14	Feb,	12:28:42,	0.000
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384,	14	Feb,	12:30:42,	0.000
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415,	14	Feb,	13:01:42,	0.070
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475,	14	Feb,	14:01:42,	0.084
476,	14	Feb,	14:02:42,	0.004
477,	14	Feb,	14:03:42,	0.000
478,	14	Feb,	14:04:42,	0.000
479,	14	Feb,	14:05:42,	0.019
480,	14	Feb,	14:06:42,	0.000
481,	14	Feb,	14:07:42,	0.000
482,	14	Feb,	14:08:42,	0.000
483,	14	Feb,	14:09:42,	0.008

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486,	14 Feb,	14:12:42,	0.000
487,	14 Feb,	14:13:42,	0.193
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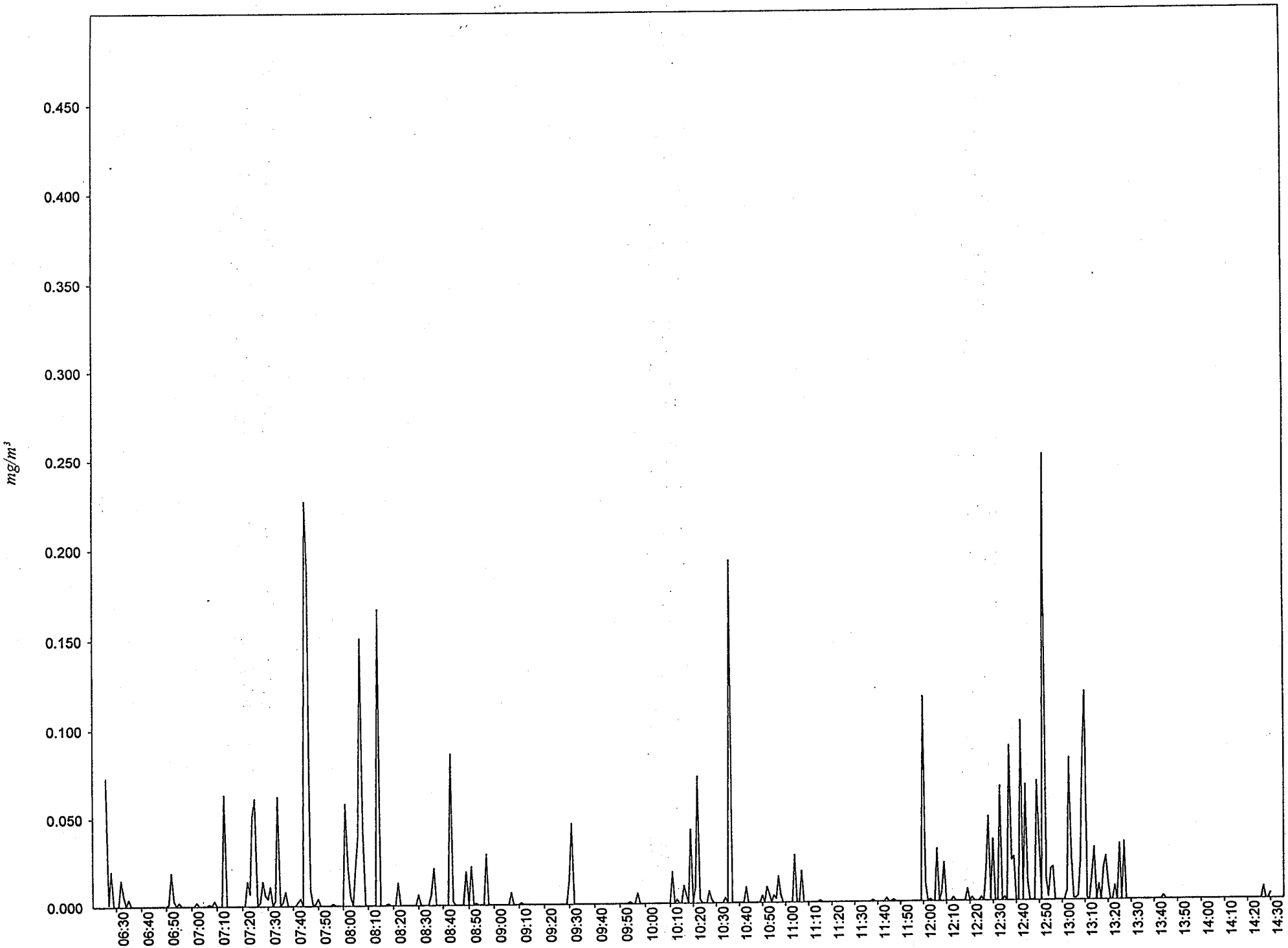
489,	14 Feb,	14:15:42,	0.000
490,	14 Feb,	14:16:42,	0.000
491,	14 Feb,	14:17:42,	0.055
492,	14 Feb,	14:18:42,	0.000
493,	14 Feb,	14:19:42,	0.000

pDR-1000 / Tag # 01 / Start time: Feb 15, 06:25:16



DR-1000
g Number: 01
mber of logged points: 485
tart time and date: 06:25:16 15-Feb
lapsed time: 08:05:00
gging period (sec): 60
libration Factor (%): 100
lax Display Concentration: 1.091 mg/m³
ime at maximum: 07:45:11 Feb 15
x STEL Concentration: 0.000 mg/m³
me at max STEL: 06:25:16 Feb 15
verall Avg Conc: 0.000 mg/m³
gged Data:

int,	Date	, Time	, Avg.(mg/m³)
1,	15 Feb,	06:26:16,	0.073
2,	15 Feb,	06:27:16,	0.001
3,	15 Feb,	06:28:16,	0.020
4,	15 Feb,	06:29:16,	0.000
5,	15 Feb,	06:30:16,	0.000
6,	15 Feb,	06:31:16,	0.000
7,	15 Feb,	06:32:16,	0.015
8,	15 Feb,	06:33:16,	0.006
9,	15 Feb,	06:34:16,	0.000
10,	15 Feb,	06:35:16,	0.004
11,	15 Feb,	06:36:16,	0.000
12,	15 Feb,	06:37:16,	0.000
13,	15 Feb,	06:38:16,	0.000
14,	15 Feb,	06:39:16,	0.000
15,	15 Feb,	06:40:16,	0.000
16,	15 Feb,	06:41:16,	0.000
17,	15 Feb,	06:42:16,	0.000
18,	15 Feb,	06:43:16,	0.000
19,	15 Feb,	06:44:16,	0.000
20,	15 Feb,	06:45:16,	0.000
21,	15 Feb,	06:46:16,	0.000
22,	15 Feb,	06:47:16,	0.000
23,	15 Feb,	06:48:16,	0.000
24,	15 Feb,	06:49:16,	0.000
25,	15 Feb,	06:50:16,	0.000
26,	15 Feb,	06:51:16,	0.001
27,	15 Feb,	06:52:16,	0.019
28,	15 Feb,	06:53:16,	0.003
29,	15 Feb,	06:54:16,	0.000
30,	15 Feb,	06:55:16,	0.002
31,	15 Feb,	06:56:16,	0.000
32,	15 Feb,	06:57:16,	0.000
33,	15 Feb,	06:58:16,	0.000
34,	15 Feb,	06:59:16,	0.000
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36,	15 Feb,	07:01:16,	0.000
37,	15 Feb,	07:02:16,	0.002
38,	15 Feb,	07:03:16,	0.000
39,	15 Feb,	07:04:16,	0.000
40,	15 Feb,	07:05:16,	0.000
41,	15 Feb,	07:06:16,	0.000
42,	15 Feb,	07:07:16,	0.001
43,	15 Feb,	07:08:16,	0.000
44,	15 Feb,	07:09:16,	0.003
45,	15 Feb,	07:10:16,	0.000
46,	15 Feb,	07:11:16,	0.000
47,	15 Feb,	07:12:16,	0.000
48,	15 Feb,	07:13:16,	0.063
49,	15 Feb,	07:14:16,	0.000
50,	15 Feb,	07:15:16,	0.000
51,	15 Feb,	07:16:16,	0.000
52,	15 Feb,	07:17:16,	0.000
53,	15 Feb,	07:18:16,	0.000
54,	15 Feb,	07:19:16,	0.000
55,	15 Feb,	07:20:16,	0.000
56,	15 Feb,	07:21:16,	0.000
57,	15 Feb,	07:22:16,	0.014

58,	15 Feb,	07:23:16,	0.007
59,	15 Feb,	07:24:16,	0.051
60,	15 Feb,	07:25:16,	0.061
61,	15 Feb,	07:26:16,	0.000
62,	15 Feb,	07:27:16,	0.002
63,	15 Feb,	07:28:16,	0.014
64,	15 Feb,	07:29:16,	0.006
65,	15 Feb,	07:30:16,	0.004
66,	15 Feb,	07:31:16,	0.011
67,	15 Feb,	07:32:16,	0.000
68,	15 Feb,	07:33:16,	0.003
69,	15 Feb,	07:34:16,	0.062
70,	15 Feb,	07:35:16,	0.000
71,	15 Feb,	07:36:16,	0.002
72,	15 Feb,	07:37:16,	0.008
73,	15 Feb,	07:38:16,	0.000
74,	15 Feb,	07:39:16,	0.000
75,	15 Feb,	07:40:16,	0.000
76,	15 Feb,	07:41:16,	0.000
77,	15 Feb,	07:42:16,	0.002
78,	15 Feb,	07:43:16,	0.004
79,	15 Feb,	07:44:16,	0.000
80,	15 Feb,	07:45:16,	0.227
81,	15 Feb,	07:46:16,	0.189
82,	15 Feb,	07:47:16,	0.009
83,	15 Feb,	07:48:16,	0.000
84,	15 Feb,	07:49:16,	0.001
85,	15 Feb,	07:50:16,	0.004
86,	15 Feb,	07:51:16,	0.000
87,	15 Feb,	07:52:16,	0.000
88,	15 Feb,	07:53:16,	0.000
89,	15 Feb,	07:54:16,	0.000
90,	15 Feb,	07:55:16,	0.000
91,	15 Feb,	07:56:16,	0.001
92,	15 Feb,	07:57:16,	0.000
93,	15 Feb,	07:58:16,	0.000
94,	15 Feb,	07:59:16,	0.000
95,	15 Feb,	08:00:16,	0.000
96,	15 Feb,	08:01:16,	0.058
97,	15 Feb,	08:02:16,	0.022
98,	15 Feb,	08:03:16,	0.005
99,	15 Feb,	08:04:16,	0.000
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101,	15 Feb,	08:06:16,	0.039
102,	15 Feb,	08:07:16,	0.151
103,	15 Feb,	08:08:16,	0.044
104,	15 Feb,	08:09:16,	0.000
105,	15 Feb,	08:10:16,	0.000
106,	15 Feb,	08:11:16,	0.000
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109,	15 Feb,	08:14:16,	0.167
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111,	15 Feb,	08:16:16,	0.000
112,	15 Feb,	08:17:16,	0.000
113,	15 Feb,	08:18:16,	0.001
114,	15 Feb,	08:19:16,	0.000
115,	15 Feb,	08:20:16,	0.000
116,	15 Feb,	08:21:16,	0.000
117,	15 Feb,	08:22:16,	0.013
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135,	15	Feb,	08:40:16,	0.000
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241,	15	Feb,	10:26:16,	0.000
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252,	15	Feb,	10:37:16,	0.000
253,	15	Feb,	10:38:16,	0.000
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265,	15	Feb,	10:50:16,	0.004
266,	15	Feb,	10:51:16,	0.000
267,	15	Feb,	10:52:16,	0.009
268,	15	Feb,	10:53:16,	0.005
269,	15	Feb,	10:54:16,	0.000
270,	15	Feb,	10:55:16,	0.004

271, 15 Feb, 10:56:16, 0.002
272, 15 Feb, 10:57:16, 0.015
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274, 15 Feb, 10:59:16, 0.000
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279, 15 Feb, 11:04:16, 0.027
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281, 15 Feb, 11:06:16, 0.000
282, 15 Feb, 11:07:16, 0.018
283, 15 Feb, 11:08:16, 0.000
284, 15 Feb, 11:09:16, 0.000
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314, 15 Feb, 11:39:16, 0.000
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319, 15 Feb, 11:44:16, 0.002
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363,	15 Feb,	12:28:16,	0.048
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367,	15 Feb,	12:32:16,	0.000
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372,	15 Feb,	12:37:16,	0.088
373,	15 Feb,	12:38:16,	0.023
374,	15 Feb,	12:39:16,	0.025
375,	15 Feb,	12:40:16,	0.000
376,	15 Feb,	12:41:16,	0.000
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386,	15 Feb,	12:51:16,	0.000
387,	15 Feb,	12:52:16,	0.251
388,	15 Feb,	12:53:16,	0.012
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391,	15 Feb,	12:56:16,	0.019
392,	15 Feb,	12:57:16,	0.000
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399,	15 Feb,	13:04:16,	0.024
400,	15 Feb,	13:05:16,	0.001
401,	15 Feb,	13:06:16,	0.001
402,	15 Feb,	13:07:16,	0.002
403,	15 Feb,	13:08:16,	0.023
404,	15 Feb,	13:09:16,	0.086
405,	15 Feb,	13:10:16,	0.118
406,	15 Feb,	13:11:16,	0.001
407,	15 Feb,	13:12:16,	0.000
408,	15 Feb,	13:13:16,	0.014
409,	15 Feb,	13:14:16,	0.030
410,	15 Feb,	13:15:16,	0.000
411,	15 Feb,	13:16:16,	0.009
412,	15 Feb,	13:17:16,	0.000

413,	15	Feb,	13:18:16,	0.018
414,	15	Feb,	13:19:16,	0.025
415,	15	Feb,	13:20:16,	0.010
416,	15	Feb,	13:21:16,	0.000
417,	15	Feb,	13:22:16,	0.000
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422,	15	Feb,	13:27:16,	0.033
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431,	15	Feb,	13:36:16,	0.000
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434,	15	Feb,	13:39:16,	0.000
435,	15	Feb,	13:40:16,	0.000
436,	15	Feb,	13:41:16,	0.000
437,	15	Feb,	13:42:16,	0.000
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441,	15	Feb,	13:46:16,	0.000
442,	15	Feb,	13:47:16,	0.000
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452,	15	Feb,	13:57:16,	0.000
453,	15	Feb,	13:58:16,	0.000
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456,	15	Feb,	14:01:16,	0.000
457,	15	Feb,	14:02:16,	0.000
458,	15	Feb,	14:03:16,	0.000
459,	15	Feb,	14:04:16,	0.000
460,	15	Feb,	14:05:16,	0.000
461,	15	Feb,	14:06:16,	0.000
462,	15	Feb,	14:07:16,	0.000
463,	15	Feb,	14:08:16,	0.000
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465,	15	Feb,	14:10:16,	0.000
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467,	15	Feb,	14:12:16,	0.000
468,	15	Feb,	14:13:16,	0.000
469,	15	Feb,	14:14:16,	0.000
470,	15	Feb,	14:15:16,	0.000
471,	15	Feb,	14:16:16,	0.000
472,	15	Feb,	14:17:16,	0.000
473,	15	Feb,	14:18:16,	0.000
474,	15	Feb,	14:19:16,	0.000
475,	15	Feb,	14:20:16,	0.000
476,	15	Feb,	14:21:16,	0.000
477,	15	Feb,	14:22:16,	0.000
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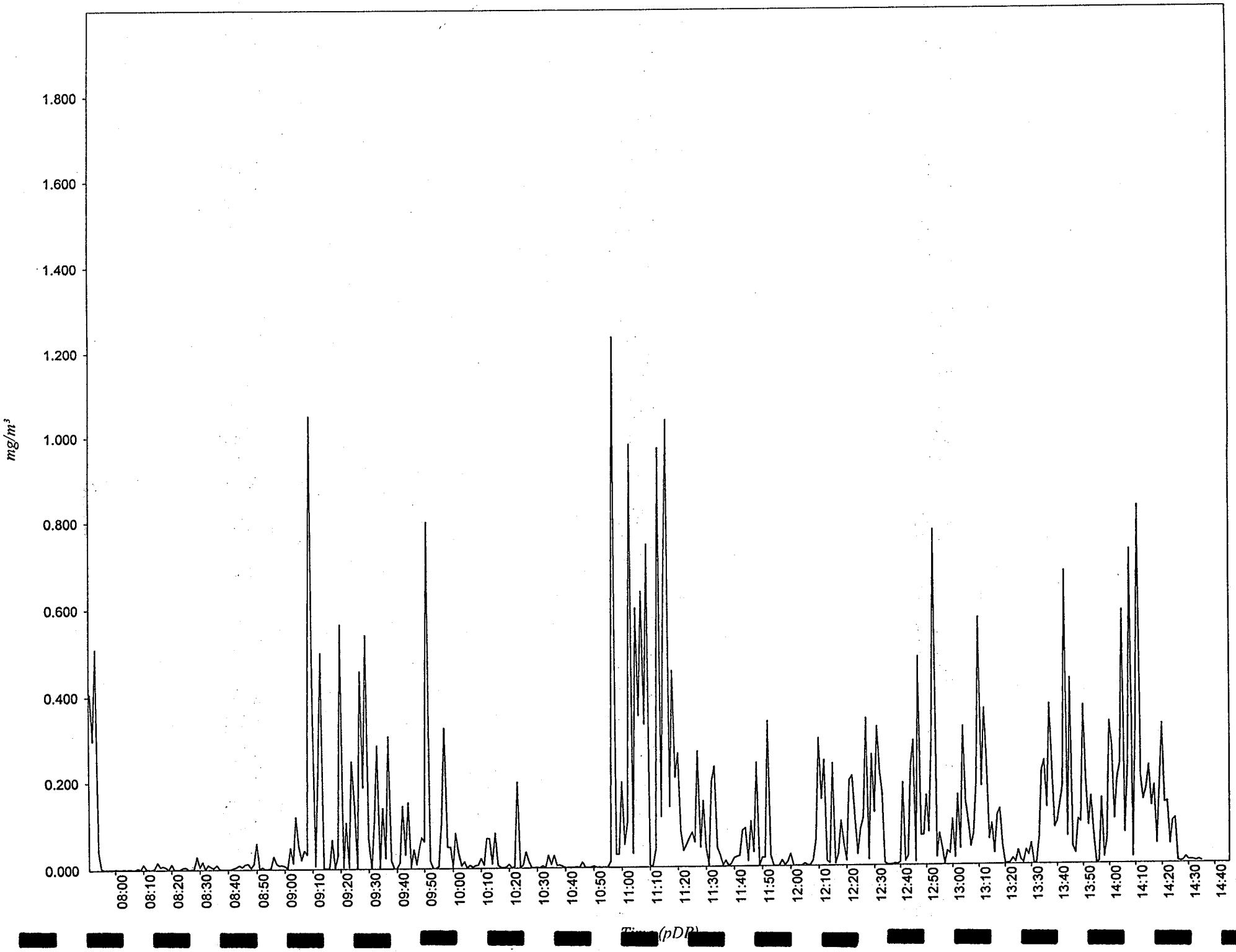
479,	15	Feb,	14:24:16,	0.000
480,	15	Feb,	14:25:16,	0.000
481,	15	Feb,	14:26:16,	0.000
482,	15	Feb,	14:27:16,	0.007
483,	15	Feb,	14:28:16,	0.000

484, 15 Feb, 14:29:16, 0.000
485, 15 Feb, 14:30:16, 0.003

pDR-1000 / Tag # 01 / Start time: Feb 11, 07:50:12



DR-1000
g Number: 01
mber of logged points: 405
tart time and date: 07:50:12 11-Feb
lapsed time: 06:45:00
gging period (sec): 60
libration Factor (%): 100
ax Display Concentration: 6.341 mg/m³
ime at maximum: 14:35:33 Feb 11
x STEL Concentration: 0.445 mg/m³
me at max STEL: 11:16:42 Feb 11
verall Avg Conc: 0.100 mg/m³
gged Data:

int,	Date	Time	Avg.(mg/m³)
1,	11 Feb,	07:51:12,	0.407
2,	11 Feb,	07:52:12,	0.296
3,	11 Feb,	07:53:12,	0.509
4,	11 Feb,	07:54:12,	0.041
5,	11 Feb,	07:55:12,	0.003
6,	11 Feb,	07:56:12,	0.000
7,	11 Feb,	07:57:12,	0.000
8,	11 Feb,	07:58:12,	0.000
9,	11 Feb,	07:59:12,	0.000
10,	11 Feb,	08:00:12,	0.001
11,	11 Feb,	08:01:12,	0.000
12,	11 Feb,	08:02:12,	0.000
13,	11 Feb,	08:03:12,	0.001
14,	11 Feb,	08:04:12,	0.000
15,	11 Feb,	08:05:12,	0.001
16,	11 Feb,	08:06:12,	0.000
17,	11 Feb,	08:07:12,	0.000
18,	11 Feb,	08:08:12,	0.003
19,	11 Feb,	08:09:12,	0.000
20,	11 Feb,	08:10:12,	0.012
21,	11 Feb,	08:11:12,	0.001
22,	11 Feb,	08:12:12,	0.000
23,	11 Feb,	08:13:12,	0.000
24,	11 Feb,	08:14:12,	0.002
25,	11 Feb,	08:15:12,	0.016
26,	11 Feb,	08:16:12,	0.006
27,	11 Feb,	08:17:12,	0.008
28,	11 Feb,	08:18:12,	0.005
29,	11 Feb,	08:19:12,	0.000
30,	11 Feb,	08:20:12,	0.012
31,	11 Feb,	08:21:12,	0.000
32,	11 Feb,	08:22:12,	0.000
33,	11 Feb,	08:23:12,	0.000
34,	11 Feb,	08:24:12,	0.004
35,	11 Feb,	08:25:12,	0.005
36,	11 Feb,	08:26:12,	0.000
37,	11 Feb,	08:27:12,	0.000
38,	11 Feb,	08:28:12,	0.001
39,	11 Feb,	08:29:12,	0.029
40,	11 Feb,	08:30:12,	0.005
41,	11 Feb,	08:31:12,	0.017
42,	11 Feb,	08:32:12,	0.000
43,	11 Feb,	08:33:12,	0.010
44,	11 Feb,	08:34:12,	0.006
45,	11 Feb,	08:35:12,	0.003
46,	11 Feb,	08:36:12,	0.010
47,	11 Feb,	08:37:12,	0.001
48,	11 Feb,	08:38:12,	0.000
49,	11 Feb,	08:39:12,	0.000
50,	11 Feb,	08:40:12,	0.000
51,	11 Feb,	08:41:12,	0.000
52,	11 Feb,	08:42:12,	0.003
53,	11 Feb,	08:43:12,	0.005
54,	11 Feb,	08:44:12,	0.009
55,	11 Feb,	08:45:12,	0.005
56,	11 Feb,	08:46:12,	0.011
57,	11 Feb,	08:47:12,	0.013

58,	11 Feb,	08:48:12,	0.003
59,	11 Feb,	08:49:12,	0.012
60,	11 Feb,	08:50:12,	0.059
61,	11 Feb,	08:51:12,	0.000
62,	11 Feb,	08:52:12,	0.004
63,	11 Feb,	08:53:12,	0.000
64,	11 Feb,	08:54:12,	0.000
65,	11 Feb,	08:55:12,	0.002
66,	11 Feb,	08:56:12,	0.029
67,	11 Feb,	08:57:12,	0.012
68,	11 Feb,	08:58:12,	0.008
69,	11 Feb,	08:59:12,	0.009
70,	11 Feb,	09:00:12,	0.007
71,	11 Feb,	09:01:12,	0.001
72,	11 Feb,	09:02:12,	0.048
73,	11 Feb,	09:03:12,	0.014
74,	11 Feb,	09:04:12,	0.119
75,	11 Feb,	09:05:12,	0.051
76,	11 Feb,	09:06:12,	0.021
77,	11 Feb,	09:07:12,	0.042
78,	11 Feb,	09:08:12,	0.033
79,	11 Feb,	09:09:12,	1.050
80,	11 Feb,	09:10:12,	0.418
81,	11 Feb,	09:11:12,	0.007
82,	11 Feb,	09:12:12,	0.221
83,	11 Feb,	09:13:12,	0.499
84,	11 Feb,	09:14:12,	0.002
85,	11 Feb,	09:15:12,	0.000
86,	11 Feb,	09:16:12,	0.001
87,	11 Feb,	09:17:12,	0.066
88,	11 Feb,	09:18:12,	0.001
89,	11 Feb,	09:19:12,	0.029
90,	11 Feb,	09:20:12,	0.565
91,	11 Feb,	09:21:12,	0.003
92,	11 Feb,	09:22:12,	0.105
93,	11 Feb,	09:23:12,	0.003
94,	11 Feb,	09:24:12,	0.246
95,	11 Feb,	09:25:12,	0.147
96,	11 Feb,	09:26:12,	0.000
97,	11 Feb,	09:27:12,	0.457
98,	11 Feb,	09:28:12,	0.187
99,	11 Feb,	09:29:12,	0.540
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102,	11 Feb,	09:32:12,	0.106
103,	11 Feb,	09:33:12,	0.283
104,	11 Feb,	09:34:12,	0.000
105,	11 Feb,	09:35:12,	0.138
106,	11 Feb,	09:36:12,	0.024
107,	11 Feb,	09:37:12,	0.304
108,	11 Feb,	09:38:12,	0.017
109,	11 Feb,	09:39:12,	0.000
110,	11 Feb,	09:40:12,	0.000
111,	11 Feb,	09:41:12,	0.013
112,	11 Feb,	09:42:12,	0.143
113,	11 Feb,	09:43:12,	0.032
114,	11 Feb,	09:44:12,	0.151
115,	11 Feb,	09:45:12,	0.003
116,	11 Feb,	09:46:12,	0.043
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118,	11 Feb,	09:48:12,	0.043
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121,	11 Feb,	09:51:12,	0.800
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127,	11 Feb,	09:57:12,	0.324
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130,	11 Feb,	10:00:12,	0.000
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132,	11 Feb,	10:02:12,	0.036
133,	11 Feb,	10:03:12,	0.005
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135,	11 Feb,	10:05:12,	0.000
136,	11 Feb,	10:06:12,	0.007
137,	11 Feb,	10:07:12,	0.002
138,	11 Feb,	10:08:12,	0.006
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140,	11 Feb,	10:10:12,	0.022
141,	11 Feb,	10:11:12,	0.007
142,	11 Feb,	10:12:12,	0.068
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159,	11 Feb,	10:29:12,	0.000
160,	11 Feb,	10:30:12,	0.001
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163,	11 Feb,	10:33:12,	0.000
164,	11 Feb,	10:34:12,	0.028
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187,	11 Feb,	10:57:12,	1.235
188,	11 Feb,	10:58:12,	0.030
189,	11 Feb,	10:59:12,	0.029
190,	11 Feb,	11:00:12,	0.196
191,	11 Feb,	11:01:12,	0.052
192,	11 Feb,	11:02:12,	0.101
193,	11 Feb,	11:03:12,	0.981
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195,	11 Feb,	11:05:12,	0.599
196,	11 Feb,	11:06:12,	0.350
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199,	11 Feb,	11:09:12,	0.746

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204,	11 Feb,	11:14:12,	0.114
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213,	11 Feb,	11:23:12,	0.050
214,	11 Feb,	11:24:12,	0.065
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232,	11 Feb,	11:42:12,	0.024
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363,	11	Feb,	13:53:12,	0.154
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365,	11	Feb,	13:55:12,	0.002
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367,	11	Feb,	13:57:12,	0.150
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369,	11	Feb,	13:59:12,	0.053
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371,	11	Feb,	14:01:12,	0.269
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373,	11	Feb,	14:03:12,	0.193
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381,	11	Feb,	14:11:12,	0.829
382,	11	Feb,	14:12:12,	0.198
383,	11	Feb,	14:13:12,	0.145
384,	11	Feb,	14:14:12,	0.170
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390,	11	Feb,	14:20:12,	0.322
391,	11	Feb,	14:21:12,	0.138
392,	11	Feb,	14:22:12,	0.141
393,	11	Feb,	14:23:12,	0.043
394,	11	Feb,	14:24:12,	0.096
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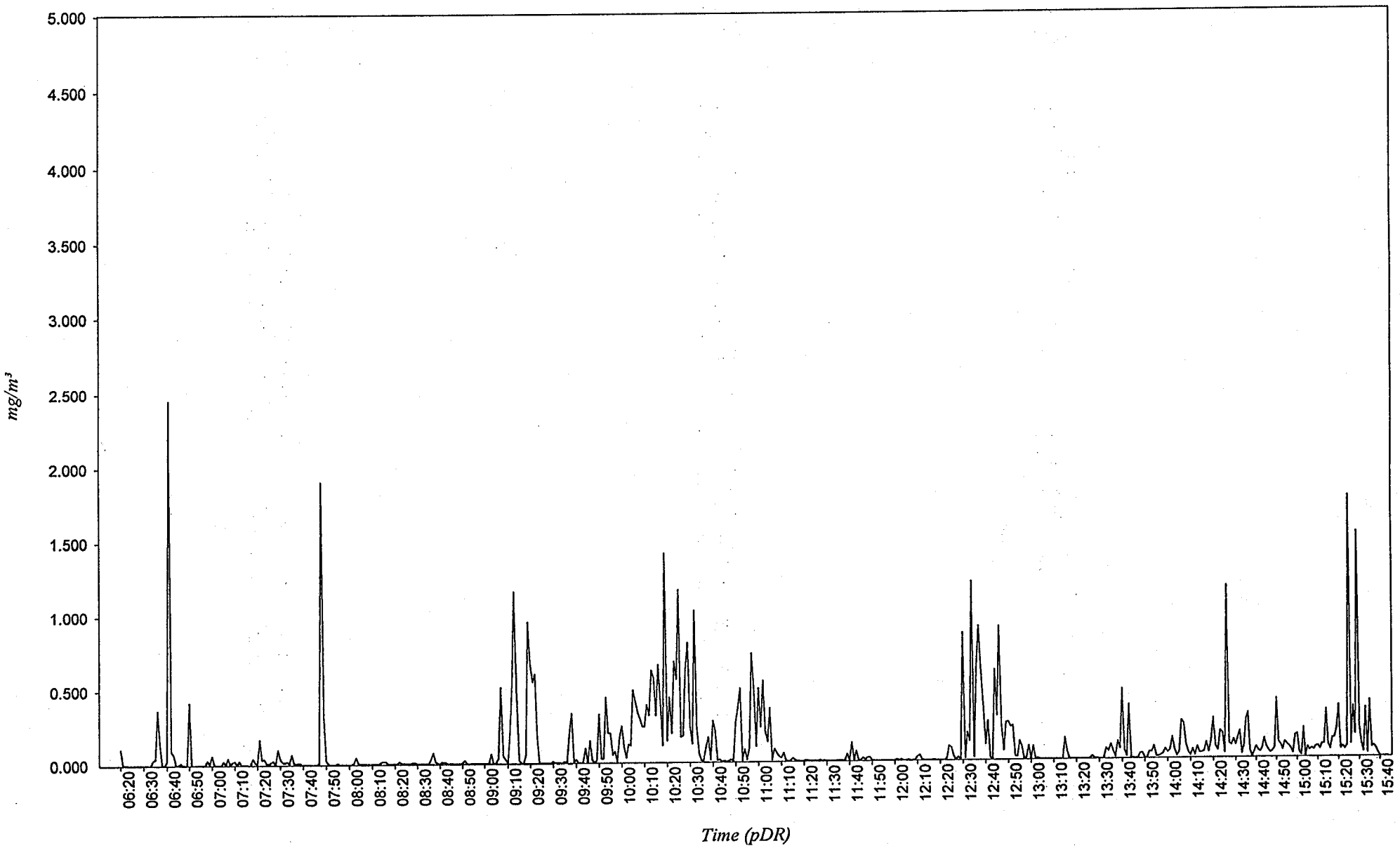
400,	11	Feb,	14:30:12,	0.006
401,	11	Feb,	14:31:12,	0.007
402,	11	Feb,	14:32:12,	0.006
403,	11	Feb,	14:33:12,	0.004
404,	11	Feb,	14:34:12,	0.007
405,	11	Feb,	14:35:12,	0.004

pDR-1000 / Tag # 01 / Start time: Feb 12, 06:18:45 / page 1



DR-1000
g Number: 01
mber of logged points: 565
tart time and date: 06:18:45 12-Feb
lapsed time: 09:25:00
gging period (sec): 60
libration Factor (%): 100
ax Display Concentration: 9.649 mg/m³
ime at maximum: 15:24:41 Feb 12
x STEL Concentration: 0.537 mg/m³
me at max STEL: 10:32:45 Feb 12
verall Avg Conc: 0.099 mg/m³
gged Data:

int,	Date	, Time	, Avg.(mg/m³)
1,	12 Feb,	06:19:45,	0.107
2,	12 Feb,	06:20:45,	0.000
3,	12 Feb,	06:21:45,	0.004
4,	12 Feb,	06:22:45,	0.000
5,	12 Feb,	06:23:45,	0.000
6,	12 Feb,	06:24:45,	0.000
7,	12 Feb,	06:25:45,	0.000
8,	12 Feb,	06:26:45,	0.000
9,	12 Feb,	06:27:45,	0.000
10,	12 Feb,	06:28:45,	0.000
11,	12 Feb,	06:29:45,	0.000
12,	12 Feb,	06:30:45,	0.000
13,	12 Feb,	06:31:45,	0.000
14,	12 Feb,	06:32:45,	0.000
15,	12 Feb,	06:33:45,	0.030
16,	12 Feb,	06:34:45,	0.040
17,	12 Feb,	06:35:45,	0.370
18,	12 Feb,	06:36:45,	0.140
19,	12 Feb,	06:37:45,	0.000
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21,	12 Feb,	06:39:45,	0.023
22,	12 Feb,	06:40:45,	2.453
23,	12 Feb,	06:41:45,	0.091
24,	12 Feb,	06:42:45,	0.067
25,	12 Feb,	06:43:45,	0.004
26,	12 Feb,	06:44:45,	0.004
27,	12 Feb,	06:45:45,	0.013
28,	12 Feb,	06:46:45,	0.002
29,	12 Feb,	06:47:45,	0.000
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39,	12 Feb,	06:57:45,	0.028
40,	12 Feb,	06:58:45,	0.005
41,	12 Feb,	06:59:45,	0.060
42,	12 Feb,	07:00:45,	0.000
43,	12 Feb,	07:01:45,	0.000
44,	12 Feb,	07:02:45,	0.000
45,	12 Feb,	07:03:45,	0.000
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47,	12 Feb,	07:05:45,	0.002
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49,	12 Feb,	07:07:45,	0.004
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53,	12 Feb,	07:11:45,	0.025
54,	12 Feb,	07:12:45,	0.000
55,	12 Feb,	07:13:45,	0.002
56,	12 Feb,	07:14:45,	0.000
57,	12 Feb,	07:15:45,	0.000

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62,	12	Feb,	07:20:45,	0.170
63,	12	Feb,	07:21:45,	0.029
64,	12	Feb,	07:22:45,	0.038
65,	12	Feb,	07:23:45,	0.009
66,	12	Feb,	07:24:45,	0.004
67,	12	Feb,	07:25:45,	0.016
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69,	12	Feb,	07:27:45,	0.001
70,	12	Feb,	07:28:45,	0.102
71,	12	Feb,	07:29:45,	0.036
72,	12	Feb,	07:30:45,	0.016
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76,	12	Feb,	07:34:45,	0.066
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80,	12	Feb,	07:38:45,	0.006
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195,	12	Feb,	09:33:45,	0.000
196,	12	Feb,	09:34:45,	0.010
197,	12	Feb,	09:35:45,	0.000
198,	12	Feb,	09:36:45,	0.192
199,	12	Feb,	09:37:45,	0.339

200,	12	Feb,	09:38:45,	0.000
201,	12	Feb,	09:39:45,	0.025
202,	12	Feb,	09:40:45,	0.000
203,	12	Feb,	09:41:45,	0.000
204,	12	Feb,	09:42:45,	0.000
205,	12	Feb,	09:43:45,	0.099
206,	12	Feb,	09:44:45,	0.000
207,	12	Feb,	09:45:45,	0.152
208,	12	Feb,	09:46:45,	0.021
209,	12	Feb,	09:47:45,	0.001
210,	12	Feb,	09:48:45,	0.018
211,	12	Feb,	09:49:45,	0.333
212,	12	Feb,	09:50:45,	0.027
213,	12	Feb,	09:51:45,	0.026
214,	12	Feb,	09:52:45,	0.445
215,	12	Feb,	09:53:45,	0.200
216,	12	Feb,	09:54:45,	0.201
217,	12	Feb,	09:55:45,	0.053
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220,	12	Feb,	09:58:45,	0.172
221,	12	Feb,	09:59:45,	0.249
222,	12	Feb,	10:00:45,	0.106
223,	12	Feb,	10:01:45,	0.032
224,	12	Feb,	10:02:45,	0.126
225,	12	Feb,	10:03:45,	0.115
226,	12	Feb,	10:04:45,	0.492
227,	12	Feb,	10:05:45,	0.420
228,	12	Feb,	10:06:45,	0.341
229,	12	Feb,	10:07:45,	0.294
230,	12	Feb,	10:08:45,	0.246
231,	12	Feb,	10:09:45,	0.244
232,	12	Feb,	10:10:45,	0.393
233,	12	Feb,	10:11:45,	0.321
234,	12	Feb,	10:12:45,	0.623
235,	12	Feb,	10:13:45,	0.573
236,	12	Feb,	10:14:45,	0.319
237,	12	Feb,	10:15:45,	0.662
238,	12	Feb,	10:16:45,	0.403
239,	12	Feb,	10:17:45,	0.116
240,	12	Feb,	10:18:45,	1.417
241,	12	Feb,	10:19:45,	0.147
242,	12	Feb,	10:20:45,	0.444
243,	12	Feb,	10:21:45,	0.198
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245,	12	Feb,	10:23:45,	0.563
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247,	12	Feb,	10:25:45,	0.173
248,	12	Feb,	10:26:45,	0.181
249,	12	Feb,	10:27:45,	0.631
250,	12	Feb,	10:28:45,	0.807
251,	12	Feb,	10:29:45,	0.239
252,	12	Feb,	10:30:45,	0.126
253,	12	Feb,	10:31:45,	1.030
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260,	12	Feb,	10:38:45,	0.014
261,	12	Feb,	10:39:45,	0.281
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263,	12	Feb,	10:41:45,	0.012
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265,	12	Feb,	10:43:45,	0.002
266,	12	Feb,	10:44:45,	0.008
267,	12	Feb,	10:45:45,	0.002
268,	12	Feb,	10:46:45,	0.007
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270,	12	Feb,	10:48:45,	0.007

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309, 12 Feb, 11:27:45, 0.002
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344,	12 Feb,	12:02:45,	0.009
345,	12 Feb,	12:03:45,	0.000
346,	12 Feb,	12:04:45,	0.000
347,	12 Feb,	12:05:45,	0.006
348,	12 Feb,	12:06:45,	0.001
349,	12 Feb,	12:07:45,	0.001
350,	12 Feb,	12:08:45,	0.002
351,	12 Feb,	12:09:45,	0.025
352,	12 Feb,	12:10:45,	0.038
353,	12 Feb,	12:11:45,	0.005
354,	12 Feb,	12:12:45,	0.001
355,	12 Feb,	12:13:45,	0.001
356,	12 Feb,	12:14:45,	0.000
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359,	12 Feb,	12:17:45,	0.003
360,	12 Feb,	12:18:45,	0.003
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363,	12 Feb,	12:21:45,	0.000
364,	12 Feb,	12:22:45,	0.012
365,	12 Feb,	12:23:45,	0.098
366,	12 Feb,	12:24:45,	0.086
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378,	12 Feb,	12:36:45,	0.906
379,	12 Feb,	12:37:45,	0.604
380,	12 Feb,	12:38:45,	0.367
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393,	12 Feb,	12:51:45,	0.234
394,	12 Feb,	12:52:45,	0.023
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405,	12 Feb,	13:03:45,	0.000
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408,	12 Feb,	13:06:45,	0.003
409,	12 Feb,	13:07:45,	0.002
410,	12 Feb,	13:08:45,	0.001
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419,	12	Feb,	13:17:45,	0.002
420,	12	Feb,	13:18:45,	0.000
421,	12	Feb,	13:19:45,	0.002
422,	12	Feb,	13:20:45,	0.000
423,	12	Feb,	13:21:45,	0.000
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425,	12	Feb,	13:23:45,	0.001
426,	12	Feb,	13:24:45,	0.001
427,	12	Feb,	13:25:45,	0.002
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435,	12	Feb,	13:33:45,	0.050
436,	12	Feb,	13:34:45,	0.098
437,	12	Feb,	13:35:45,	0.050
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439,	12	Feb,	13:37:45,	0.119
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441,	12	Feb,	13:39:45,	0.474
442,	12	Feb,	13:40:45,	0.052
443,	12	Feb,	13:41:45,	0.014
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447,	12	Feb,	13:45:45,	0.001
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459,	12	Feb,	13:57:45,	0.029
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462,	12	Feb,	14:00:45,	0.052
463,	12	Feb,	14:01:45,	0.144
464,	12	Feb,	14:02:45,	0.055
465,	12	Feb,	14:03:45,	0.014
466,	12	Feb,	14:04:45,	0.037
467,	12	Feb,	14:05:45,	0.256
468,	12	Feb,	14:06:45,	0.233
469,	12	Feb,	14:07:45,	0.089
470,	12	Feb,	14:08:45,	0.037
471,	12	Feb,	14:09:45,	0.016
472,	12	Feb,	14:10:45,	0.060
473,	12	Feb,	14:11:45,	0.018
474,	12	Feb,	14:12:45,	0.077
475,	12	Feb,	14:13:45,	0.035
476,	12	Feb,	14:14:45,	0.036
477,	12	Feb,	14:15:45,	0.042
478,	12	Feb,	14:16:45,	0.107
479,	12	Feb,	14:17:45,	0.038
480,	12	Feb,	14:18:45,	0.111
481,	12	Feb,	14:19:45,	0.271
482,	12	Feb,	14:20:45,	0.076
483,	12	Feb,	14:21:45,	0.050

484,	12 Feb,	14:22:45,	0.185
485,	12 Feb,	14:23:45,	0.170
486,	12 Feb,	14:24:45,	0.030
487,	12 Feb,	14:25:45,	1.171
488,	12 Feb,	14:26:45,	0.097
489,	12 Feb,	14:27:45,	0.085
490,	12 Feb,	14:28:45,	0.124
491,	12 Feb,	14:29:45,	0.086
492,	12 Feb,	14:30:45,	0.134
493,	12 Feb,	14:31:45,	0.180
494,	12 Feb,	14:32:45,	0.023
495,	12 Feb,	14:33:45,	0.080
496,	12 Feb,	14:34:45,	0.256
497,	12 Feb,	14:35:45,	0.308
498,	12 Feb,	14:36:45,	0.040
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500,	12 Feb,	14:38:45,	0.035
501,	12 Feb,	14:39:45,	0.073
502,	12 Feb,	14:40:45,	0.047
503,	12 Feb,	14:41:45,	0.036
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506,	12 Feb,	14:44:45,	0.073
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509,	12 Feb,	14:47:45,	0.040
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512,	12 Feb,	14:50:45,	0.104
513,	12 Feb,	14:51:45,	0.083
514,	12 Feb,	14:52:45,	0.049
515,	12 Feb,	14:53:45,	0.106
516,	12 Feb,	14:54:45,	0.088
517,	12 Feb,	14:55:45,	0.076
518,	12 Feb,	14:56:45,	0.056
519,	12 Feb,	14:57:45,	0.025
520,	12 Feb,	14:58:45,	0.148
521,	12 Feb,	14:59:45,	0.157
522,	12 Feb,	15:00:45,	0.030
523,	12 Feb,	15:01:45,	0.012
524,	12 Feb,	15:02:45,	0.200
525,	12 Feb,	15:03:45,	0.006
526,	12 Feb,	15:04:45,	0.069
527,	12 Feb,	15:05:45,	0.045
528,	12 Feb,	15:06:45,	0.058
529,	12 Feb,	15:07:45,	0.048
530,	12 Feb,	15:08:45,	0.072
531,	12 Feb,	15:09:45,	0.076
532,	12 Feb,	15:10:45,	0.052
533,	12 Feb,	15:11:45,	0.091
534,	12 Feb,	15:12:45,	0.088
535,	12 Feb,	15:13:45,	0.327
536,	12 Feb,	15:14:45,	0.083
537,	12 Feb,	15:15:45,	0.051
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543,	12 Feb,	15:21:45,	0.073
544,	12 Feb,	15:22:45,	0.051
545,	12 Feb,	15:23:45,	0.073
546,	12 Feb,	15:24:45,	1.776
547,	12 Feb,	15:25:45,	0.087
548,	12 Feb,	15:26:45,	0.347
549,	12 Feb,	15:27:45,	0.155
550,	12 Feb,	15:28:45,	1.527
551,	12 Feb,	15:29:45,	0.208
552,	12 Feb,	15:30:45,	0.092
553,	12 Feb,	15:31:45,	0.031
554,	12 Feb,	15:32:45,	0.336

555, 12 Feb, 15:33:45, 0.023
556, 12 Feb, 15:34:45, 0.386
557, 12 Feb, 15:35:45, 0.063
558, 12 Feb, 15:36:45, 0.075
559, 12 Feb, 15:37:45, 0.055
560, 12 Feb, 15:38:45, 0.023
561, 12 Feb, 15:39:45, 0.001
562, 12 Feb, 15:40:45, 0.000
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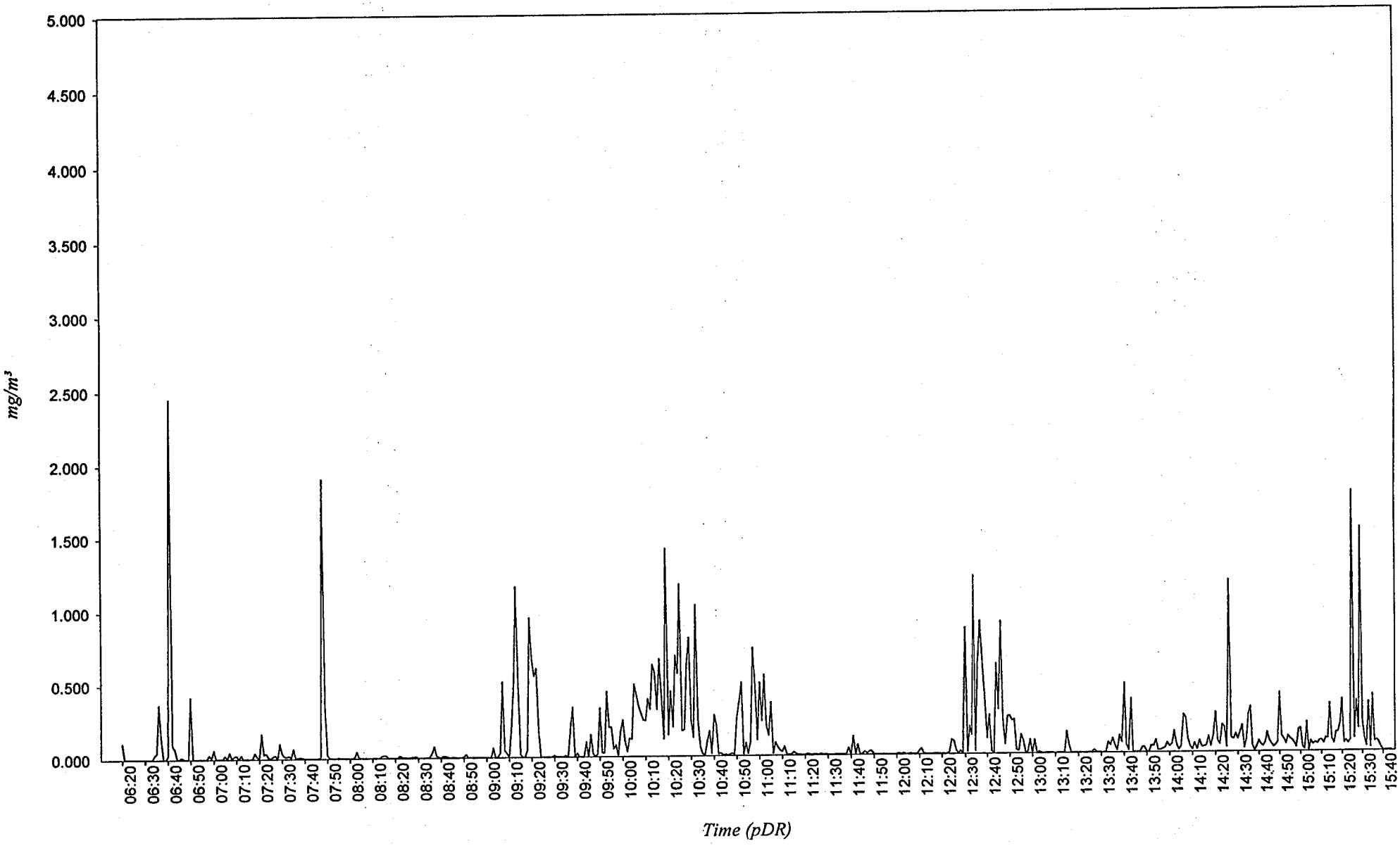
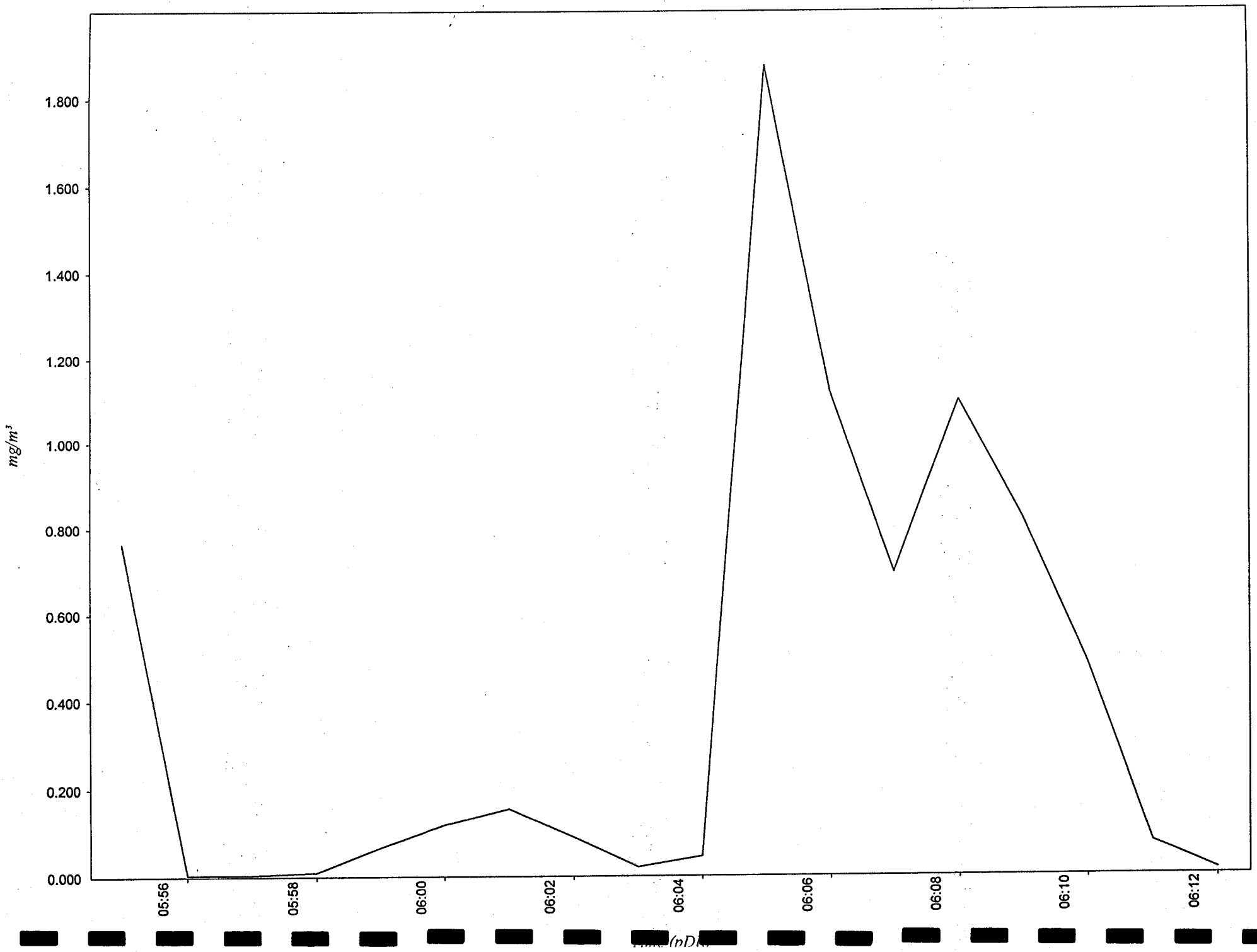
565, 12 Feb, 15:43:45, 0.002

pDR-1000 / Tag # 01 / Start time: Feb 12, 06:18:45 / page 1



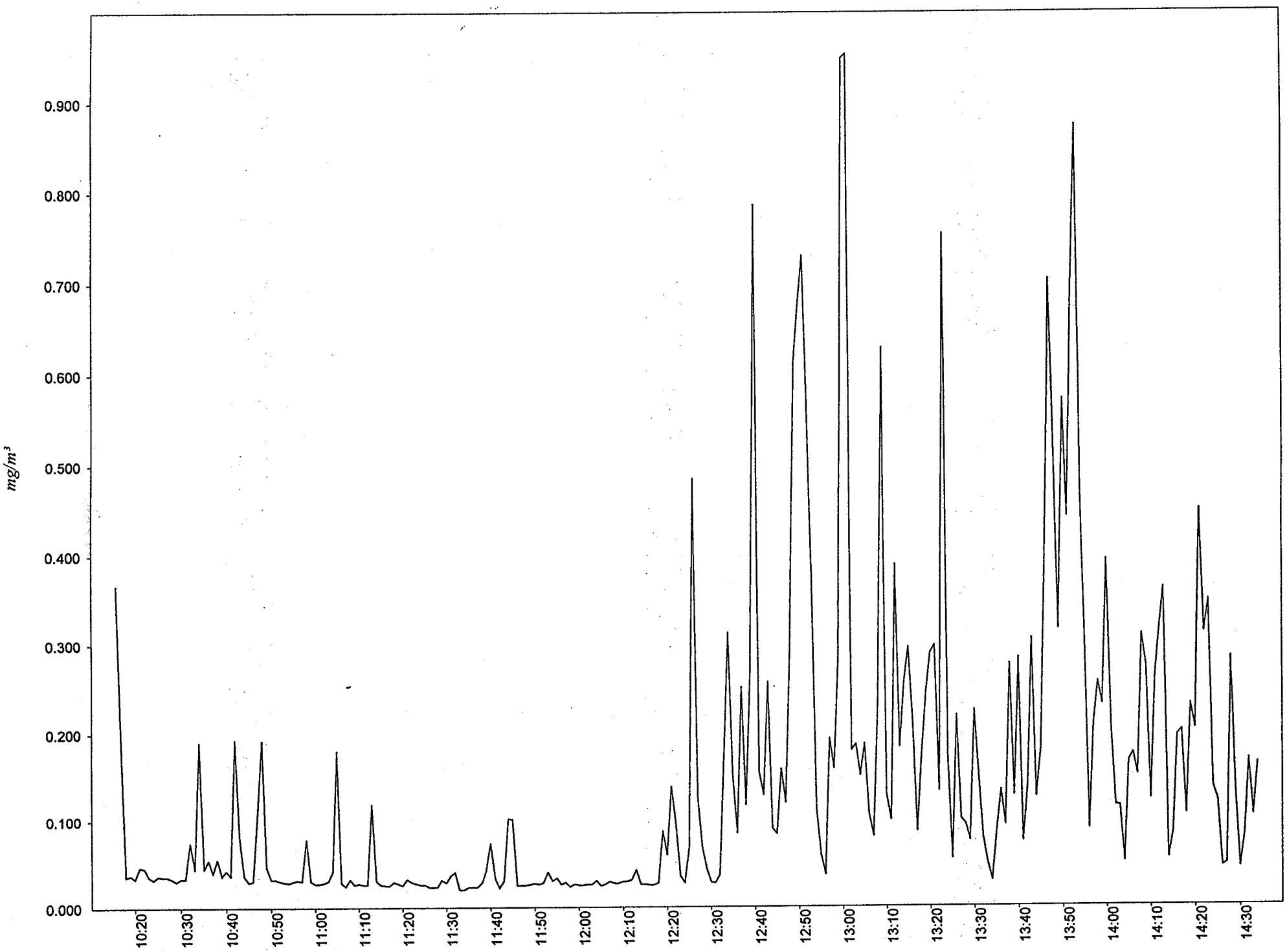
pDR-1000 / Tag # 01 / Start time: Feb 13, 05:53:37



DR-1000
g Number: 01
mber of logged points: 18
Start time and date: 05:53:37 13-Feb
Elapsed time: 00:18:00
gging period (sec): 60
libration Factor (%): 100
Max Display Concentration: 5.578 mg/m³
Time at maximum: 06:04:08 Feb 13
x STEL Concentration: 0.458 mg/m³
me at max STEL: 06:08:37 Feb 13
Overall Avg Conc: 0.412 mg/m³
gged Data:

int,	Date	Time	Avg.(mg/m³)
1,	13 Feb,	05:54:37,	0.764
2,	13 Feb,	05:55:37,	0.004
3,	13 Feb,	05:56:37,	0.004
4,	13 Feb,	05:57:37,	0.009
5,	13 Feb,	05:58:37,	0.066
6,	13 Feb,	05:59:37,	0.118
7,	13 Feb,	06:00:37,	0.154
8,	13 Feb,	06:01:37,	0.089
9,	13 Feb,	06:02:37,	0.020
10,	13 Feb,	06:03:37,	0.044
11,	13 Feb,	06:04:37,	1.876
12,	13 Feb,	06:05:37,	1.121
13,	13 Feb,	06:06:37,	0.694
14,	13 Feb,	06:07:37,	1.099
15,	13 Feb,	06:08:37,	0.820
16,	13 Feb,	06:09:37,	0.484
17,	13 Feb,	06:10:37,	0.074
18,	13 Feb,	06:11:37,	0.011

pDR-1000 / Tag # 02 / Start time: Feb 13, 10:15:29



[redacted] (pD[redacted]

DR-1000
g Number: 02
nber of logged points: 259
tart time and date: 10:15:29 13-Feb
lapsed time: 04:19:00
gging period (sec): 60
libration Factor (%): 100
lax Display Concentration: 5.077 mg/m³
ime at maximum: 12:59:48 Feb 13
x STEL Concentration: 0.435 mg/m³
me at max STEL: 14:00:59 Feb 13
verall Avg Conc: 0.142 mg/m³
gged Data:

int,	Date ,	Time ,	Avg.(mg/m³)
1,	13 Feb,	10:16:29,	0.366
2,	13 Feb,	10:17:29,	0.193
3,	13 Feb,	10:18:29,	0.035
4,	13 Feb,	10:19:29,	0.037
5,	13 Feb,	10:20:29,	0.033
6,	13 Feb,	10:21:29,	0.046
7,	13 Feb,	10:22:29,	0.045
8,	13 Feb,	10:23:29,	0.035
9,	13 Feb,	10:24:29,	0.032
10,	13 Feb,	10:25:29,	0.036
11,	13 Feb,	10:26:29,	0.035
12,	13 Feb,	10:27:29,	0.035
13,	13 Feb,	10:28:29,	0.033
14,	13 Feb,	10:29:29,	0.030
15,	13 Feb,	10:30:29,	0.033
16,	13 Feb,	10:31:29,	0.033
17,	13 Feb,	10:32:29,	0.074
18,	13 Feb,	10:33:29,	0.044
19,	13 Feb,	10:34:29,	0.190
20,	13 Feb,	10:35:29,	0.044
21,	13 Feb,	10:36:29,	0.054
22,	13 Feb,	10:37:29,	0.039
23,	13 Feb,	10:38:29,	0.055
24,	13 Feb,	10:39:29,	0.036
25,	13 Feb,	10:40:29,	0.042
26,	13 Feb,	10:41:29,	0.036
27,	13 Feb,	10:42:29,	0.193
28,	13 Feb,	10:43:29,	0.080
29,	13 Feb,	10:44:29,	0.036
30,	13 Feb,	10:45:29,	0.029
31,	13 Feb,	10:46:29,	0.030
32,	13 Feb,	10:47:29,	0.107
33,	13 Feb,	10:48:29,	0.192
34,	13 Feb,	10:49:29,	0.046
35,	13 Feb,	10:50:29,	0.032
36,	13 Feb,	10:51:29,	0.032
37,	13 Feb,	10:52:29,	0.030
38,	13 Feb,	10:53:29,	0.029
39,	13 Feb,	10:54:29,	0.028
40,	13 Feb,	10:55:29,	0.030
41,	13 Feb,	10:56:29,	0.031
42,	13 Feb,	10:57:29,	0.030
43,	13 Feb,	10:58:29,	0.078
44,	13 Feb,	10:59:29,	0.030
45,	13 Feb,	11:00:29,	0.027
46,	13 Feb,	11:01:29,	0.027
47,	13 Feb,	11:02:29,	0.028
48,	13 Feb,	11:03:29,	0.030
49,	13 Feb,	11:04:29,	0.041
50,	13 Feb,	11:05:29,	0.180
51,	13 Feb,	11:06:29,	0.028
52,	13 Feb,	11:07:29,	0.024
53,	13 Feb,	11:08:29,	0.032
54,	13 Feb,	11:09:29,	0.026
55,	13 Feb,	11:10:29,	0.027
56,	13 Feb,	11:11:29,	0.026
57,	13 Feb,	11:12:29,	0.026

58, 13 Feb, 11:13:29, 0.119
59, 13 Feb, 11:14:29, 0.030
60, 13 Feb, 11:15:29, 0.026
61, 13 Feb, 11:16:29, 0.025
62, 13 Feb, 11:17:29, 0.025
63, 13 Feb, 11:18:29, 0.029
64, 13 Feb, 11:19:29, 0.027
65, 13 Feb, 11:20:29, 0.025
66, 13 Feb, 11:21:29, 0.032
67, 13 Feb, 11:22:29, 0.029
68, 13 Feb, 11:23:29, 0.027
69, 13 Feb, 11:24:29, 0.026
70, 13 Feb, 11:25:29, 0.026
71, 13 Feb, 11:26:29, 0.023
72, 13 Feb, 11:27:29, 0.023
73, 13 Feb, 11:28:29, 0.023
74, 13 Feb, 11:29:29, 0.031
75, 13 Feb, 11:30:29, 0.028
76, 13 Feb, 11:31:29, 0.036
77, 13 Feb, 11:32:29, 0.040
78, 13 Feb, 11:33:29, 0.020
79, 13 Feb, 11:34:29, 0.020
80, 13 Feb, 11:35:29, 0.023
81, 13 Feb, 11:36:29, 0.023
82, 13 Feb, 11:37:29, 0.023
83, 13 Feb, 11:38:29, 0.028
84, 13 Feb, 11:39:29, 0.042
85, 13 Feb, 11:40:29, 0.073
86, 13 Feb, 11:41:29, 0.033
87, 13 Feb, 11:42:29, 0.022
88, 13 Feb, 11:43:29, 0.030
89, 13 Feb, 11:44:29, 0.102
90, 13 Feb, 11:45:29, 0.101
91, 13 Feb, 11:46:29, 0.025
92, 13 Feb, 11:47:29, 0.025
93, 13 Feb, 11:48:29, 0.025
94, 13 Feb, 11:49:29, 0.026
95, 13 Feb, 11:50:29, 0.027
96, 13 Feb, 11:51:29, 0.026
97, 13 Feb, 11:52:29, 0.028
98, 13 Feb, 11:53:29, 0.040
99, 13 Feb, 11:54:29, 0.030
100, 13 Feb, 11:55:29, 0.033
101, 13 Feb, 11:56:29, 0.026
102, 13 Feb, 11:57:29, 0.028
103, 13 Feb, 11:58:29, 0.023
104, 13 Feb, 11:59:29, 0.026
105, 13 Feb, 12:00:29, 0.025
106, 13 Feb, 12:01:29, 0.025
107, 13 Feb, 12:02:29, 0.026
108, 13 Feb, 12:03:29, 0.026
109, 13 Feb, 12:04:29, 0.030
110, 13 Feb, 12:05:29, 0.024
111, 13 Feb, 12:06:29, 0.026
112, 13 Feb, 12:07:29, 0.029
113, 13 Feb, 12:08:29, 0.027
114, 13 Feb, 12:09:29, 0.027
115, 13 Feb, 12:10:29, 0.029
116, 13 Feb, 12:11:29, 0.029
117, 13 Feb, 12:12:29, 0.031
118, 13 Feb, 12:13:29, 0.042
119, 13 Feb, 12:14:29, 0.026
120, 13 Feb, 12:15:29, 0.026
121, 13 Feb, 12:16:29, 0.025
122, 13 Feb, 12:17:29, 0.025
123, 13 Feb, 12:18:29, 0.027
124, 13 Feb, 12:19:29, 0.087
125, 13 Feb, 12:20:29, 0.059
126, 13 Feb, 12:21:29, 0.138
127, 13 Feb, 12:22:29, 0.096
128, 13 Feb, 12:23:29, 0.035

129, 13 Feb, 12:24:29, 0.027
[redacted]30, 13 Feb, 12:25:29, 0.067
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132, 13 Feb, 12:27:29, 0.125
133, 13 Feb, 12:28:29, 0.068
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[redacted]35, 13 Feb, 12:30:29, 0.028
136, 13 Feb, 12:31:29, 0.027
137, 13 Feb, 12:32:29, 0.036
[redacted]38, 13 Feb, 12:33:29, 0.173
[redacted]39, 13 Feb, 12:34:29, 0.313
140, 13 Feb, 12:35:29, 0.151
[redacted]41, 13 Feb, 12:36:29, 0.084
[redacted]42, 13 Feb, 12:37:29, 0.251
143, 13 Feb, 12:38:29, 0.117
144, 13 Feb, 12:39:29, 0.266
[redacted]45, 13 Feb, 12:40:29, 0.787
[redacted]46, 13 Feb, 12:41:29, 0.153
147, 13 Feb, 12:42:29, 0.128
148, 13 Feb, 12:43:29, 0.257
[redacted]49, 13 Feb, 12:44:29, 0.089
[redacted]50, 13 Feb, 12:45:29, 0.083
151, 13 Feb, 12:46:29, 0.158
152, 13 Feb, 12:47:29, 0.119
[redacted]53, 13 Feb, 12:48:29, 0.290
[redacted]54, 13 Feb, 12:49:29, 0.613
155, 13 Feb, 12:50:29, 0.677
156, 13 Feb, 12:51:29, 0.731
[redacted]57, 13 Feb, 12:52:29, 0.554
[redacted]58, 13 Feb, 12:53:29, 0.380
159, 13 Feb, 12:54:29, 0.111
[redacted]60, 13 Feb, 12:55:29, 0.058
[redacted]61, 13 Feb, 12:56:29, 0.036
162, 13 Feb, 12:57:29, 0.193
163, 13 Feb, 12:58:29, 0.158
[redacted]64, 13 Feb, 12:59:29, 0.284
[redacted]65, 13 Feb, 13:00:29, 0.949
166, 13 Feb, 13:01:29, 0.954
167, 13 Feb, 13:02:29, 0.179
[redacted]68, 13 Feb, 13:03:29, 0.186
[redacted]69, 13 Feb, 13:04:29, 0.150
170, 13 Feb, 13:05:29, 0.187
171, 13 Feb, 13:06:29, 0.106
[redacted]72, 13 Feb, 13:07:29, 0.080
173, 13 Feb, 13:08:29, 0.235
174, 13 Feb, 13:09:29, 0.629
[redacted]75, 13 Feb, 13:10:29, 0.128
[redacted]76, 13 Feb, 13:11:29, 0.099
177, 13 Feb, 13:12:29, 0.389
178, 13 Feb, 13:13:29, 0.183
[redacted]79, 13 Feb, 13:14:29, 0.254
[redacted]80, 13 Feb, 13:15:29, 0.296
181, 13 Feb, 13:16:29, 0.209
182, 13 Feb, 13:17:29, 0.086
[redacted]83, 13 Feb, 13:18:29, 0.174
[redacted]84, 13 Feb, 13:19:29, 0.243
185, 13 Feb, 13:20:29, 0.289
186, 13 Feb, 13:21:29, 0.298
[redacted]87, 13 Feb, 13:22:29, 0.132
[redacted]88, 13 Feb, 13:23:29, 0.755
189, 13 Feb, 13:24:29, 0.170
[redacted]90, 13 Feb, 13:25:29, 0.054
[redacted]91, 13 Feb, 13:26:29, 0.219
[redacted]92, 13 Feb, 13:27:29, 0.100
193, 13 Feb, 13:28:29, 0.094
[redacted]94, 13 Feb, 13:29:29, 0.075
[redacted]95, 13 Feb, 13:30:29, 0.225
196, 13 Feb, 13:31:29, 0.148
197, 13 Feb, 13:32:29, 0.077
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[redacted]99, 13 Feb, 13:34:29, 0.029

200, 13 Feb, 13:35:29, 0.087
201, 13 Feb, 13:36:29, 0.133
202, 13 Feb, 13:37:29, 0.093
203, 13 Feb, 13:38:29, 0.277
204, 13 Feb, 13:39:29, 0.127
205, 13 Feb, 13:40:29, 0.284
206, 13 Feb, 13:41:29, 0.074
207, 13 Feb, 13:42:29, 0.138
208, 13 Feb, 13:43:29, 0.306
209, 13 Feb, 13:44:29, 0.125
210, 13 Feb, 13:45:29, 0.178
211, 13 Feb, 13:46:29, 0.395
212, 13 Feb, 13:47:29, 0.704
213, 13 Feb, 13:48:29, 0.516
214, 13 Feb, 13:49:29, 0.316
215, 13 Feb, 13:50:29, 0.572
216, 13 Feb, 13:51:29, 0.442
217, 13 Feb, 13:52:29, 0.694
218, 13 Feb, 13:53:29, 0.875
219, 13 Feb, 13:54:29, 0.480
220, 13 Feb, 13:55:29, 0.306
221, 13 Feb, 13:56:29, 0.088
222, 13 Feb, 13:57:29, 0.209
223, 13 Feb, 13:58:29, 0.256
224, 13 Feb, 13:59:29, 0.231
225, 13 Feb, 14:00:29, 0.394
226, 13 Feb, 14:01:29, 0.206
227, 13 Feb, 14:02:29, 0.115
228, 13 Feb, 14:03:29, 0.114
229, 13 Feb, 14:04:29, 0.050
230, 13 Feb, 14:05:29, 0.166
231, 13 Feb, 14:06:29, 0.175
232, 13 Feb, 14:07:29, 0.150
233, 13 Feb, 14:08:29, 0.310
234, 13 Feb, 14:09:29, 0.274
235, 13 Feb, 14:10:29, 0.122
236, 13 Feb, 14:11:29, 0.260
237, 13 Feb, 14:12:29, 0.316
238, 13 Feb, 14:13:29, 0.362
239, 13 Feb, 14:14:29, 0.054
240, 13 Feb, 14:15:29, 0.083
241, 13 Feb, 14:16:29, 0.195
242, 13 Feb, 14:17:29, 0.201
243, 13 Feb, 14:18:29, 0.105
244, 13 Feb, 14:19:29, 0.231
245, 13 Feb, 14:20:29, 0.203
246, 13 Feb, 14:21:29, 0.450
247, 13 Feb, 14:22:29, 0.312
248, 13 Feb, 14:23:29, 0.348
249, 13 Feb, 14:24:29, 0.136
250, 13 Feb, 14:25:29, 0.120
251, 13 Feb, 14:26:29, 0.044
252, 13 Feb, 14:27:29, 0.047
253, 13 Feb, 14:28:29, 0.284
254, 13 Feb, 14:29:29, 0.130
255, 13 Feb, 14:30:29, 0.043
256, 13 Feb, 14:31:29, 0.080
257, 13 Feb, 14:32:29, 0.168
258, 13 Feb, 14:33:29, 0.103
259, 13 Feb, 14:34:29, 0.163

Ninyo & Moore

APPENDIX B

LABORATORY ANALYTICAL RESULTS

Del Mar Analytical

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02
Issued: 2/28/02-3/1/02

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX
PLB0310-01	S-1	Soil
PLB0310-02	S-2	Soil
PLB0310-03	S-3	Soil
PLB0310-04	S-4	Soil
PLB0310-05	S-5	Soil
PLB0310-06	S-6	Soil
PLB0310-07	S-7	Soil
PLB0310-08	S-8	Soil
PLB0310-09	S-9	Soil
PLB0310-10	S-10	Soil
PLB0310-11	S-11	Soil
PLB0310-12	S-12	Soil
PLB0310-13	S-13	Soil
PLB0310-14	S-22	Soil
PLB0310-15	S-21	Soil
PLB0310-16	S-20	Soil
PLB0310-17	S-19	Soil
PLB0310-18	S-18	Soil
PLB0310-19	S-17	Soil
PLB0310-20	S-14	Soil
PLB0310-21	S-15	Soil
PLB0310-22	S-16	Soil
PLB0310-23	S-13	Soil
PLB0310-24	S-12	Soil
PLB0310-25	S-30	Soil
PLB0310-26	S-26	Soil
PLB0310-27	S-27	Soil
PLB0310-28	S-28	Soil
PLB0310-29	S-23	Soil
PLB0310-30	S-25	Soil
PLB0310-31	S-24	Soil
PLB0310-32	S-29	Soil

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MAR 14 2002
NINYO & MOORE
PHOENIX, ARIZONA

Linda Eshelman
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Maricopa County -Flood Control District 2801 West Durango Street Phoenix, AZ 85009 Attention: Bob Stevens	Client Project ID: P.O. #PG02690050001 Report Number: PLB0310	Sampled: 02/15/02 Received: 02/19/02

SAMPLE RECEIPT:	Samples were received intact, on ice, and with chain of custody documentation. Samples were received at 14°C.
HOLDING TIMES:	Holding times were met.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
OBSERVATIONS:	No significant observations were made.
SUBCONTRACTED:	No analyses were subcontracted.
QA/QC CRITERIA:	All analyses met method criteria.
EXPLANATION OF DATA QUALIFIERS:	No further explanation of data qualifiers needed.

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-01 (S-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*105 %*				
Surrogate: decachlorobiphenyl (40-145%)				*114 %*				
Sample ID: PLB0310-02 (S-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*97 %*				
Surrogate: decachlorobiphenyl (40-145%)				*108 %*				
Sample ID: PLB0310-03 (S-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*108 %*				
Surrogate: decachlorobiphenyl (40-145%)				*114 %*				
Sample ID: PLB0310-04 (S-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	10000	**30000**	50	2/20/02	3/1/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*				S8
Surrogate: decachlorobiphenyl (40-145%)				*				S8
Sample ID: PLB0310-05 (S-5 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	**1100**	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*105 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001
Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-06 (S-6 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*95 %*				
Surrogate: decachlorobiphenyl (40-145%)				*97 %*				
Sample ID: PLB0310-07 (S-7 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*95 %*				
Surrogate: decachlorobiphenyl (40-145%)				*108 %*				
Sample ID: PLB0310-08 (S-8 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	1000	**2000**	5	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*				S8
Surrogate: decachlorobiphenyl (40-145%)				*				S8
Sample ID: PLB0310-09 (S-9 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*92 %*				
Surrogate: decachlorobiphenyl (40-145%)				*96 %*				
Sample ID: PLB0310-10 (S-10 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*99 %*				
Surrogate: decachlorobiphenyl (40-145%)				*77 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001
Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-11 (S-11 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*79 %*				
Sample ID: PLB0310-12 (S-12 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*101 %*				
Surrogate: decachlorobiphenyl (40-145%)				*83 %*				
Sample ID: PLB0310-13 (S-13 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*100 %*				
Surrogate: decachlorobiphenyl (40-145%)				*83 %*				
Sample ID: PLB0310-14 (S-22 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*94 %*				
Surrogate: decachlorobiphenyl (40-145%)				*81 %*				
Sample ID: PLB0310-15 (S-21 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*101 %*				
Surrogate: decachlorobiphenyl (40-145%)				*91 %*				

Linda Eshelman
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001
Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-16 (S-20 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*86 %*				
Sample ID: PLB0310-17 (S-19 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*115 %*				
Surrogate: decachlorobiphenyl (40-145%)				*107 %*				
Sample ID: PLB0310-18 (S-18 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*101 %*				
Surrogate: decachlorobiphenyl (40-145%)				*100 %*				
Sample ID: PLB0310-19 (S-17 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*90 %*				
Surrogate: decachlorobiphenyl (40-145%)				*98 %*				
Sample ID: PLB0310-20 (S-14 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*106 %*				
Surrogate: decachlorobiphenyl (40-145%)				*86 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001
Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-21 (S-15 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*97 %*				
Surrogate: decachlorobiphenyl (40-145%)				*87 %*				
Sample ID: PLB0310-22 (S-16 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*100 %*				
Surrogate: decachlorobiphenyl (40-145%)				*80 %*				
Sample ID: PLB0310-23 (S-13 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*99 %*				
Surrogate: decachlorobiphenyl (40-145%)				*83 %*				
Sample ID: PLB0310-24 (S-12 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*87 %*				
Surrogate: decachlorobiphenyl (40-145%)				*87 %*				
Sample ID: PLB0310-25 (S-30 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*92 %*				
Surrogate: decachlorobiphenyl (40-145%)				*86 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-26 (S-26 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	**210**	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*91 %*				
Surrogate: decachlorobiphenyl (40-145%)				*95 %*				
Sample ID: PLB0310-27 (S-27 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*92 %*				
Surrogate: decachlorobiphenyl (40-145%)				*82 %*				
Sample ID: PLB0310-28 (S-28 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*94 %*				
Surrogate: decachlorobiphenyl (40-145%)				*89 %*				
Sample ID: PLB0310-29 (S-23 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*88 %*				
Surrogate: decachlorobiphenyl (40-145%)				*85 %*				
Sample ID: PLB0310-30 (S-25 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*99 %*				
Surrogate: decachlorobiphenyl (40-145%)				*89 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0310-31 (S-24 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*101 %*				
Surrogate: decachlorobiphenyl (40-145%)				*88 %*				
Sample ID: PLB0310-32 (S-29 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2114	200	ND	1	2/21/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*105 %*				
Surrogate: decachlorobiphenyl (40-145%)				*95 %*				

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Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P2B2019 Extracted: 02/20/02										
Blank Analyzed: 02/27/02 (P2B2019-BLK1)										
Toxaphene	ND	200	ug/kg							
Surrogate: Tetrachloro-m-xylene	*30.6*		*ug/kg*	*33.3*		*92*	*40-125*			
Surrogate: decachlorobiphenyl	*33.9*		*ug/kg*	*33.3*		*102*	*40-145*			
LCS Analyzed: 02/27/02 (P2B2019-BS1)										
Toxaphene	**1760**	200	ug/kg	1670		105	80-130			
Surrogate: Tetrachloro-m-xylene	*29.6*		*ug/kg*	*33.3*		*89*	*40-125*			
Surrogate: decachlorobiphenyl	*30.5*		*ug/kg*	*33.3*		*92*	*40-145*			
LCS Dup Analyzed: 02/27/02 (P2B2019-BSD1)										
Toxaphene	**1910**	200	ug/kg	1670		114	80-130	8	30	
Surrogate: Tetrachloro-m-xylene	*31.5*		*ug/kg*	*33.3*		*95*	*40-125*			
Surrogate: decachlorobiphenyl	*32.5*		*ug/kg*	*33.3*		*98*	*40-145*			
Batch: P2B2114 Extracted: 02/21/02										
Blank Analyzed: 02/26/02 (P2B2114-BLK1)										
Toxaphene	ND	200	ug/kg							
Surrogate: Tetrachloro-m-xylene	*36.2*		*ug/kg*	*33.3*		*109*	*40-125*			
Surrogate: decachlorobiphenyl	*33.8*		*ug/kg*	*33.3*		*102*	*40-145*			
LCS Analyzed: 02/27/02 (P2B2114-BS1)										
Surrogate: Tetrachloro-m-xylene	*35.9*		*ug/kg*	*33.3*		*108*	*40-125*			
Surrogate: decachlorobiphenyl	*26.0*		*ug/kg*	*33.3*		*78*	*40-145*			
LCS Analyzed: 02/26/02 (P2B2114-BS2)										
Toxaphene	**2040**	200	ug/kg	1670		122	80-130			
Surrogate: Tetrachloro-m-xylene	*32.1*		*ug/kg*	*33.3*		*96*	*40-125*			
Surrogate: decachlorobiphenyl	*35.2*		*ug/kg*	*33.3*		*106*	*40-145*			

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. #PG02690050001

Report Number: PLB0310

Sampled: 02/15/02
Received: 02/19/02

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P2B2114 Extracted: 02/21/02										
LCS Dup Analyzed: 02/27/02 (P2B2114-BSD1)										
Surrogate: Tetrachloro-m-xylene	*32.5*		*ug/kg*	*33.3*		*98*	*40-125*			
Surrogate: decachlorobiphenyl	*30.1*		*ug/kg*	*33.3*		*90*	*40-145*			
LCS Dup Analyzed: 02/26/02 (P2B2114-BSD2)										
Toxaphene	**1940**	200	ug/kg	1670		116	80-130	5	30	
Surrogate: Tetrachloro-m-xylene	*31.2*		*ug/kg*	*33.3*		*94*	*40-125*			
Surrogate: decachlorobiphenyl	*34.2*		*ug/kg*	*33.3*		*103*	*40-145*			

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District 2801 West Durango Street Phoenix, AZ 85009 Attention: Bob Stevens	Client Project ID: P.O. #PG02690050001 Report Number: PLB0310	Sampled: 02/15/02 Received: 02/19/02

METHOD BLANK/QC DATA

DATA QUALIFIERS AND DEFINITIONS

S8 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria. The method control sample recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Linda Eshelman
Project Manager

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TRANSWEST GEOCHEM
3725 E. Atlanta Ave., Ste 2
Phoenix, AZ 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202131

Date 2-15-01 Page 1 of 3

Project Manager:	Larry Gardiner		
Client Name:	Ninyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	SAME		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600220004

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8021-Mod (Gx)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-1	Soil	2-15-02	9:10	1	1	(P)	2/15/02	0912	SA				X							PLB0310-01
S-2			9:13	2	1			0928					X							2
S-3			9:20	3	1								X							3
S-4			9:25	4	1								X							4
S-5			9:30	5	1			0935					X							5
S-6			9:35	6	1								X							6
S-7			9:37	7	1								X							7
S-8			9:45	8	1			1010					X							8
S-9			9:48	9	1								X							9
S-10			10:00	10	1								X							10
S-11			10:03	11	1								X							11
S-12			10:09	12	1								X							12
S-13			10:06	13	1								X							13
S-22			11:30	14	1			1145					X							14
S-21			11:35	15	1								X							15

Initials	Signature	Printed Name				
SA	Shawn Krasina	Shawn Krasina	Date:	2/15/02	Total Containers: 15	
(P)	P. C.	Pat Cordova	Start Time:	0900	Received Intact: Y	
			Stop Time:		Custody Seals: N	
			Hours:		Temperature: AMB	
	Ernesto Vallejo 02/19/02	14:45	Client Sign-off:		Ice: Absent / Present	Wet / Blue

While copy to TGI, Yellow copy for final report, Pink copy to field sampler

TEMP 14°C

Revised: 7/14/00

TRANSWEST GEOCHEM
3725 E. Atlanta Ave., Ste 2
Phoenix, AZ 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202151

Date 2/15/02 Page 2 of 3

Project Manager:	Larry Gardiner		
Client Name:	Ninyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	Same		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600220004

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8021-Mod (Gx)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-20	Soil	2-15-02	11:37	16	1	PC	2/15/02	1145	SA				X							PLB0310-16
S-19			11:40	17	1								X							17
S-18			1:45	18	1			1349					X							18
S-17			1:48	19	1								X							19
S-14			1:58	20	1			1408					X							20
S-15			2:00	21	1								X							21
S-16			2:02	22	1								X							22
S-13			2:04	23	1								X							23
S-12			2:06	24	1								X							24
S-30			4:17	25	1			1635					X							25
S-26			4:20	26	1								X							26
S-27			4:21	27	1								X							27
S-28			4:22	28	1								X							28
S-23			4:25	29	1								X							29
S-25			4:27	30	1								X							30

Initials	Signature	Printed Name				
SA	Shaun Kusma	Shaun Kusma	Date:	2/15/02	Total Containers: 15	
PC	M. Cordova	Pat Cordova	Start Time:	0900	Received Intact: Y	
			Stop Time:		Custody Seals: N	
			Hours:		Temperature: NA	
	Emilio Malgalla 02/19/02	14:45	Client Sign-off:		Ice: (Absent / Present)	Wet / Blue

White copy to TGI, Yellow copy for final report, Pink copy to field sampler

TEMP 14°C

Revised: 7/14/00

TRANSWEST GEOCHEM
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Phoenix, AZ 85040
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Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202131

Date 2/15/02 Page 3 of 3

Project Manager:	Larry Gardiner		
Client Name:	Nunyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	Same		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600202000 4

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8081-Mod (Tox)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-24	Soil	2-15-02	4:27	31	1	PO	2/15/02	1635	SK				X							PLB0310-31
S-29	1	1	4:30	32	1	1	↓	↓	↓				X							-32

Initials	Signature	Printed Name					
SK	Shawn Kasima	Shawn Kasima	Date:	2/15/02	Total Containers:	2	
PO	[illegible]	Pat Cordova	Start Time:	0900	Received Intact:	Y	
			Stop Time:		Custody Seals:	N	
			Hours:		Temperature:	NA	
	[illegible] 02/19/02	14:45	Client Sign-off:		Ice:	Absent / Present	Wet / Blue

White copy to TGI, Yellow copy for final report, Pink copy to field sampler

TEMP 14°C

Revised: 7/14/00

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001

Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02
Issued: 2/28/02-3/1/02

CASE NARRATIVE

LABORATORY NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX
PLB0292-01	SPA-1	Soil
PLB0292-02	SPA-2	Soil
PLB0292-03	SPA-3	Soil
PLB0292-04	SPA-4	Soil
PLB0292-05	SPA-5	Soil
PLB0292-06	SPA-6	Soil
PLB0292-07	SPA-7	Soil
PLB0292-08	SPA-8	Soil
PLB0292-09	SPB-1	Soil
PLB0292-10	SPB-2	Soil
PLB0292-11	SPB-3	Soil
PLB0292-12	SPB-4	Soil
PLB0292-13	SPC-1	Soil
PLB0292-14	SPC-2	Soil
PLB0292-15	SPC-3	Soil
PLB0292-16	SPC-4	Soil
PLB0292-17	SPD-1	Soil
PLB0292-18	SPD-2	Soil
PLB0292-19	SPD-3	Soil
PLB0292-20	SPD-4	Soil
PLB0292-21	SPE-1	Soil
PLB0292-22	SPE-2	Soil
PLB0292-23	SPE-3	Soil
PLB0292-24	SPE-4	Soil

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MAR 14 2002
NINYO & MOORE
PHOENIX, ARIZONA

Linda Eshelman
Project Manager

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Attention: Bob Stevens

Client Project ID: P.O. PG02690050001

Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody documentation. Samples were received at 14°C.

HOLDING TIMES: Holding times were met.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted.

QA/QC CRITERIA: All analyses met method criteria.

EXPLANATION OF DATA QUALIFIERS: No further explanation of data qualifiers needed.

DEL MAR ANALYTICAL , PHOENIX (AZ0426)

Linda Eshelman
Project Manager

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2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001
Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0292-01 (SPA-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**1700**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*98 %*				
Sample ID: PLB0292-02 (SPA-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**2300**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*112 %*				
Surrogate: decachlorobiphenyl (40-145%)				*110 %*				
Sample ID: PLB0292-03 (SPA-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**260**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*101 %*				
Sample ID: PLB0292-04 (SPA-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	1000	**3400**	5	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*				S8
Surrogate: decachlorobiphenyl (40-145%)				*				S8
Sample ID: PLB0292-05 (SPA-5 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	1000	**2700**	5	2/20/02	3/1/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*				S8
Surrogate: decachlorobiphenyl (40-145%)				*				S8

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001
Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0292-06 (SPA-6 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**2000**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*103 %*				
Surrogate: decachlorobiphenyl (40-145%)				*97 %*				
Sample ID: PLB0292-07 (SPA-7 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	1000	**2800**	5	2/20/02	2/28/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*				S8
Surrogate: decachlorobiphenyl (40-145%)				*				S8
Sample ID: PLB0292-08 (SPA-8 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**2200**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*97 %*				
Surrogate: decachlorobiphenyl (40-145%)				*101 %*				
Sample ID: PLB0292-09 (SPB-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*94 %*				
Surrogate: decachlorobiphenyl (40-145%)				*100 %*				
Sample ID: PLB0292-10 (SPB-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*107 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001
Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0292-11 (SPB-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*101 %*				
Surrogate: decachlorobiphenyl (40-145%)				*105 %*				
Sample ID: PLB0292-12 (SPB-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*102 %*				
Surrogate: decachlorobiphenyl (40-145%)				*103 %*				
Sample ID: PLB0292-13 (SPC-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*96 %*				
Surrogate: decachlorobiphenyl (40-145%)				*99 %*				
Sample ID: PLB0292-14 (SPC-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*93 %*				
Surrogate: decachlorobiphenyl (40-145%)				*110 %*				
Sample ID: PLB0292-15 (SPC-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*105 %*				

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001
Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0292-16 (SPC-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*94 %*				
Surrogate: decachlorobiphenyl (40-145%)				*97 %*				
Sample ID: PLB0292-17 (SPD-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	**1600**	1	2/20/02	2/26/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*102 %*				
Surrogate: decachlorobiphenyl (40-145%)				*103 %*				
Sample ID: PLB0292-18 (SPD-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*107 %*				
Surrogate: decachlorobiphenyl (40-145%)				*108 %*				
Sample ID: PLB0292-19 (SPD-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*106 %*				
Surrogate: decachlorobiphenyl (40-145%)				*109 %*				
Sample ID: PLB0292-20 (SPD-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2007	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*90 %*				
Surrogate: decachlorobiphenyl (40-145%)				*104 %*				

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Project Manager

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Maricopa County -Flood Control District
2801 West Durango Street
Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001

Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Method	Batch	Reporting Limit ug/kg	Sample Result ug/kg	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PLB0292-21 (SPE-1 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*97 %*				
Surrogate: decachlorobiphenyl (40-145%)				*108 %*				
Sample ID: PLB0292-22 (SPE-2 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*105 %*				
Surrogate: decachlorobiphenyl (40-145%)				*109 %*				
Sample ID: PLB0292-23 (SPE-3 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	**830**	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*98 %*				
Surrogate: decachlorobiphenyl (40-145%)				*108 %*				
Sample ID: PLB0292-24 (SPE-4 - Soil)								
Toxaphene	EPA 3550C/8081A	P2B2019	200	ND	1	2/20/02	2/27/02	
Surrogate: Tetrachloro-m-xylene (40-125%)				*113 %*				
Surrogate: decachlorobiphenyl (40-145%)				*125 %*				

DEL MAR ANALYTICAL, PHOENIX (AZ0426)

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Project Manager

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Phoenix, AZ 85009
Attention: Bob Stevens

Client Project ID: P.O. PG02690050001

Report Number: PLB0292

Sampled: 02/18/02
Received: 02/19/02

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES BY GC (EPA 3550/8081A)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P2B2007 Extracted: 02/20/02										
Blank Analyzed: 02/26/02 (P2B2007-BLK1)										
Toxaphene	ND	200	ug/kg							
Surrogate: Tetrachloro-m-xylene	*26.9*		*ug/kg*	*33.3*		*81*	*40-125*			
Surrogate: decachlorobiphenyl	*29.3*		*ug/kg*	*33.3*		*88*	*40-145*			
LCS Analyzed: 02/26/02 (P2B2007-BS1)										
Toxaphene	**1990**	200	ug/kg	1670		119	80-130			
Surrogate: Tetrachloro-m-xylene	*32.5*		*ug/kg*	*33.3*		*98*	*40-125*			
Surrogate: decachlorobiphenyl	*32.0*		*ug/kg*	*33.3*		*96*	*40-145*			
LCS Dup Analyzed: 02/26/02 (P2B2007-BSD1)										
Toxaphene	**2080**	200	ug/kg	1670		125	80-130	4	30	
Surrogate: Tetrachloro-m-xylene	*33.0*		*ug/kg*	*33.3*		*99*	*40-125*			
Surrogate: decachlorobiphenyl	*34.8*		*ug/kg*	*33.3*		*105*	*40-145*			
Batch: P2B2019 Extracted: 02/20/02										
Blank Analyzed: 02/27/02 (P2B2019-BLK1)										
Toxaphene	ND	200	ug/kg							
Surrogate: Tetrachloro-m-xylene	*30.6*		*ug/kg*	*33.3*		*92*	*40-125*			
Surrogate: decachlorobiphenyl	*33.9*		*ug/kg*	*33.3*		*102*	*40-145*			
LCS Analyzed: 02/27/02 (P2B2019-BS1)										
Toxaphene	**1760**	200	ug/kg	1670		105	80-130			
Surrogate: Tetrachloro-m-xylene	*29.6*		*ug/kg*	*33.3*		*89*	*40-125*			
Surrogate: decachlorobiphenyl	*30.5*		*ug/kg*	*33.3*		*92*	*40-145*			
LCS Dup Analyzed: 02/27/02 (P2B2019-BSD1)										
Toxaphene	**1910**	200	ug/kg	1670		114	80-130	8	30	
Surrogate: Tetrachloro-m-xylene	*31.5*		*ug/kg*	*33.3*		*95*	*40-125*			
Surrogate: decachlorobiphenyl	*32.5*		*ug/kg*	*33.3*		*98*	*40-145*			

Linda Eshelman
Project Manager

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Maricopa County -Flood Control District 2801 West Durango Street Phoenix, AZ 85009 Attention: Bob Stevens	Client Project ID: P.O. PG02690050001 Report Number: PLB0292	Sampled: 02/18/02 Received: 02/19/02

METHOD BLANK/QC DATA

DATA QUALIFIERS AND DEFINITIONS

S8 The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria. The method control sample recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Linda Eshelman
Project Manager

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Facsimile Cover Sheet

To:	Bob Stevens
Company:	Maricopa County -Flood Control District
Fax:	(602) 506-8561
Date:	3/1/02
From:	Beth Price For Linda Eshelman
Company:	Del Mar Analytical
Phone:	(480) 785-0043
Fax:	(480) 785-0851

Comments:

Please find attached, final results for project name/number: P.O. PG02690050001 (Lab ID: PLB0292), received on February 19, 2002. A hard copy of the report and an invoice will be generated upon completion. If you have any questions regarding this report, please do not hesitate to contact me. Results for sample -05.

Thanks -
Beth

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Del Mar Analytical

[redacted] Ave., [redacted] CA 92[redacted] [redacted] 201-[redacted] FAX (949) [redacted]
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: Ninyo & Moore, 5035 South 33rd St., Phoenix, AZ 85040

Project/PO Number: 600220004

Project Manager: Larry Gardiner

Phone Number: 602-243-1600

Sampler: Pat Cordova

Fax Number: 602-243-2699

Analysis Required: Toxaphene

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Toxaphene									Special Instructions
SPA-1	Soil		1	2-18-02	10:45	none				PLB0292-			01			
SPA-2			1		10:50								2			
SPA-3			1		10:55								3			
SPA-4			1		10:57								4			
SPA-5			1		11:10								5			
SPA-6			1		11:00								6			
SPA-7			1		11:03								7			
SPA-8			1		11:08								8			
SPB-1			1		11:36								9			
SPB-2			1		11:27								10			
SPB-3			1		11:20								11			
SPB-4			1		11:00								12			
SPC-1			1		11:38								13			
SPC-2			1		11:29								14			

Relinquished By:	Date /Time:	Received by:	Date /Time:
Pat Cordova	2-19-02 1113	[illegible]	2/19/02 1113
[illegible]	2-19-02 1131	[illegible]	2-19-2
		Received in Lab by: [illegible]	2/19/2 1131

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9589
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd., Suite 3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

CHAIN OF CUSTODY FORM

Client Name/Address: Ninyo & Moore

Project/PO Number: 600 220004

Project Manager: Larry Gardiner

Phone Number: 607-243-1600

Sampler: Pat Cordova

Fax Number: 607-243-2699

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: Toxaphene									Special Instructions
SPC-3	Soil		1	2-18-02	11:18	none			PLB0292-			15				
SPC-4			1		11:02							16				
SPD-1			1		11:40							17				
SPD-2			1		11:30							18				
SPD-3			1		11:21							19				
SPD-4			1		11:04							20				
SPE-1			1		11:42							21				
SPE-2			1		11:33							22				
SPE-3			1		11:24							23				
SPE-4			1		11:06							24				

Relinquished By:	Date /Time:	Received by:	Date /Time:
Pat Cordova	2-19-02 1113	[illegible]	2/19/02 1113
[illegible]	2-19-02 1131	[illegible]	2/19/2
		Received in Lab by: [illegible]	2/19/2 1131

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice X

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TRANSWEST GEOCHEM

TGI ID: 0202131

March 12, 2002

Ninyo & Moore
5035 S. 33rd St.
Phoenix, AZ 85040

Attention: Larry Gardiner

Project Name/No: Flood Control G./600220004
Samples Received: 2/15/02
Matrix: Soil
Mobile Lab No.: TGI05

Transwest Geochem, Inc. received and analyzed samples on the above date. The samples were analyzed by EPA Method 8081A-Modified, a field screening method. The results of these analyses and the quality control data are enclosed. It is recommended to confirm a percentage of all field screening samples by a compliance testing method.

If you have any questions or comments, please do not hesitate to contact us at (602)437-0330

Sincerely,

Elizabeth Proffitt

Beth Proffitt
Project Manager

RECEIVED
MAR 13 2002
NINYO & MOORE
PHOENIX, ARIZONA

ADHS License No.: AZM133/AZ0133

3725 E. Atlanta Ave. • Suite 2 • Phoenix, Arizona 85040 • (602) 437-0330 • 1-800-927-5183 • Fax (602) 437-0660

Transwest Geochem, Inc.
Analytical Results

Client Name: Ninyo & Moore
Project Name/No.: Flood Control G./600220004
Samples Received: 2/15/02

TGI ID No.: 0202131
ADHS Cert. No.: AZM133

TGI ID/ SAMPLE NUMBER	CLIENT ID	Matrix	Units	EPA Method 8081A-Modified				
				Date Extracted	Date Analyzed	Dil.	Toxaphene	Sur. Rec. %
0202131 -01	S-1	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	95
0202131 -02	S-2	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	98
0202131 -03	S-3	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	98
0202131 -04	S-4	Soil	mg/kg	2/15/02	2/15/02	1	**17**	93
0202131 -05	S-5	Soil	mg/kg	2/15/02	2/15/02	1	**1.5**	97
0202131 -06	S-6	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	103
0202131 -07	S-7	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	109
0202131 -08	S-8	Soil	mg/kg	2/15/02	2/15/02	1	**1.3**	102
0202131 -09	S-9	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	104
0202131 -10	S-10	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	116
0202131 -11	S-11	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	110
0202131 -12	S-12	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	102
0202131 -13	S-13	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	112
0202131 -14	S-22	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	105
0202131 -15	S-21	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	106
0202131 -16	S-20	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	111
0202131 -17	S-19	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	104
0202131 -18	S-18	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	109
0202131 -19	S-17	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	103
0202131 -20	S-14	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	97
0202131 -21	S-15	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	106
0202131 -22	S-16	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	107
0202131 -23	S-13	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	99
0202131 -24	S-12	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	102
0202131 -25	S-30	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	98

Transwest Geochem, Inc.
Analytical Results

Client Name: Ninyo & Moore
Project Name/No.: Flood Control G./600220004
Samples Received: 2/15/02

TGI ID No.: 0202131
ADHS Cert. No.: AZM133

TGI ID/ SAMPLE NUMBER	CLIENT ID	Matrix	Units	EPA Method 8081A-Modified				
				Date Extracted	Date Analyzed	Dil.	Toxaphene	Sur. Rec. %
0202131 -26	S-26	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	111
0202131 -27	S-27	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	113
0202131 -28	S-28	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	85
0202131 -29	S-23	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	122
0202131 -30	S-25	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	113
0202131 -31	S-24	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	108
0202131 -32	S-29	Soil	mg/kg	2/15/02	2/15/02	1	<1.0	115

Transwest Geochem, Inc.
Analytical Quality Control Data
Reagent Blank Method 8081A-mod

Client Name: Ninyo & Moore
Project Name/No.: Flood Control G./600220004
Samples Received: 2/15/02

TGI ID No.: 0202131
ADHS Cert. No.: AZM133

Reagent Blank

Units:	mg/kg
Matrix:	Soil
Toxaphene	<1.0
Surrogate Recovery %:	86
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Samples Linked:	0202131 -(1-20)

Reagent Blank

Units:	mg/kg
Matrix:	Soil
Toxaphene	<1.0
Surrogate Recovery %:	92
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Samples Linked:	0202131 -(21-32)

LCS

	Toxaphene
Units:	mg/kg
Matrix:	Soil
Spike Amount:	5.0
LCS Result:	4.9
Percent Recovery:	98%
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Samples Linked:	0202131 -(1-20)

LCS

	Toxaphene
Units:	mg/kg
Matrix:	Soil
Spike Amount:	5.0
LCS Result:	5.0
Percent Recovery:	100%
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Samples Linked:	0202131 -(21-32)

Transwest Geochem, Inc.
Analytical Quality Control Data
MS/MSD 8081A-mod

Client Name: Ninyo & Moore
Project Name/No.: Flood Control G./600220004
Samples Received: 2/15/02

TGI ID No.: 0202131
ADHS Cert. No.: AZM133

	Toxaphene
Units:	mg/kg
Matrix:	Soil
Sample Result:	1.5
Spike Amount:	5.0
Spike Result:	7.0
Percent Recovery:	110%
Surrogate Recovery:	96%
Duplicate Result:	6.8
Percent Recovery:	106%
Surrogate Recovery:	98%
RPD:	3%
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Sample Spiked:	0202131 -(5)
Samples Linked:	0202131 -(1-20)

	Toxaphene
Units:	mg/kg
Matrix:	Soil
Sample Result:	0.0
Spike Amount:	5.0
Spike Result:	5.8
Percent Recovery:	116%
Surrogate Recovery:	103%
Duplicate Result:	5.9
Percent Recovery:	118%
Surrogate Recovery:	102%
RPD:	2%
Date Extracted:	2/15/02
Date Analyzed:	2/15/02
Sample Spiked:	0202131 -(23)
Samples Linked:	0202131 -(21-32)

TRANSWEST GEOCHEM
3725 E. Atlanta Ave., Ste 2
Phoenix, AZ 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202131

Date 2-15-01 Page 1 of 3

Project Manager:	Larry Gardiner		
Client Name:	Ninyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	SAME		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600220004

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8081-Mod(Gx)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-1	Soil	2-15-02	9:10	1	1	PC	2/15/02	0912	SA				X							
S-2			9:15	2	1			0928					X							
S-3			9:20	3	1								X							
S-4			9:25	4	1								X							
S-5			9:30	5	1			0935					X							
S-6			9:35	6	1								X							
S-7			9:37	7	1								X							
S-8			9:45	8	1			1010					X							
S-9			9:48	9	1								X							
S-10			10:00	10	1								X							
S-11			10:03	11	1								X							
S-12			10:09	12	1								X							
S-13			10:06	13	1								X							
S-22			11:30	14	1			1145					X							
S-21			11:35	15	1								X							

Initials	Signature	Printed Name				
SA	Shawn Kusuma	Shawn Kusuma	Date:	2/15/02	Total Containers: 15	
PC	P. Cordova	Pat Cordova	Start Time:	0900	Received Intact: Y	
			Stop Time:		Custody Seals: N	
			Hours:		Temperature: NA	
			Client Sign-off:		Ice: Absent / Present	Wet / Blue

White copy to TGI, Yellow copy for final report, Pink copy to field sampler

Revised: 7/14/00

TRANSWEST GEOCHEM
3725 E. Atlanta Ave., Ste 2
Phoenix, AZ 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202131

Date 2/15/02 Page 2 of 3

Project Manager:	Larry Gardiner		
Client Name:	Ninyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	Same		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600220004

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8021-Mod (Tex)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-20	Soil	2-15-02	11:37	16	1	PC	2/15/02	1145	SA				X							
S-19			11:40	17	1								X							
S-18			1:45	18	1			1349					X							
S-17			1:48	19	1								X							
S-14			1:58	20	1			1408					X							
S-15			2:00	21	1								X							
S-16			2:02	22	1								X							
S-13			2:04	23	1								X							
S-12			2:06	24	1								X							
S-30			4:17	25	1			1635					X							
S-26			4:20	26	1								X							
S-27			4:21	27	1								X							
S-28			4:22	28	1								X							
S-23			4:25	29	1								X							
S-25			4:27	30	1								X							

Initials	Signature	Printed Name				
SA	Shawn Kuroma	Shawn Kuroma	Date:	2/15/02	Total Containers:	15
PC	M. P. C.	Pat Cordova	Start Time:	0900	Received Intact:	Y
			Stop Time:		Custody Seals:	N
			Hours:		Temperature:	NA
			Client Sign-off:		Ice: Absent / Present	Wet / Blue

White copy to TGI, Yellow copy for final report, Pink copy to field sampler

Revised: 7/14/00

TRANSWEST GEOCHEM
3725 E. Atlanta Ave., Ste 2
Phoenix, AZ 85040
Phone: (602) 437-0330
Fax: (602) 437-0660

Mobile Lab - Chain of Custody

ML No: 5 TGI Work Order No: 0202131

Date 2/15/02 Page 3 of 3

Project Manager:	Larry Gardiner		
Client Name:	Ninyo & Moore		
Address:	5035 S. 33rd St.		
City, State ZIP:	Phoenix, AZ 85040		
Phone:	602-243-1600	Fax:	602-243-2699

Bill to:	Same		
Company:			
Address:			
City, State ZIP:			
Phone:		Fax:	

P.O. No.:	
Project Name:	Flood Control G.
Project Number:	600220004

Analysis Requested

Sample Identification	Matrix	Date Sampled	Time Sampled	Lab ID	No. Containers:	Relinquished By:	Date Relinquished:	Time Relinquished:	Received By:	TRPH (418.1AZ)	BTEX (8021B)	TPH - (8015AZ)	8081-Mod (6x)	GCMS (8260B/624)	PAH, EPA 8310	RCRA METALS				Container Type/ Remarks
S-24	Soil	2-15-02	4:27	31	1	PO	2/15/02	1635	SK				X							
S-29	1	1	4:30	32	1	1	1	1	1				X							

Initials	Signature	Printed Name				
SK	Shawn Kusma	Shawn Kusma	Date:	2/15/02	Total Containers:	2
PO	PC	Pat Cordova	Start Time:	0900	Received Intact:	Y
			Stop Time:		Custody Seals:	N
			Hours:		Temperature:	NA
			Client Sign-off:		Ice: Absent / Present	Wet / Blue

White copy to TGI, Yellow copy for final report, Pink copy to field sampler

Revised: 7/14/00