2

INSTALLATION RESTORATION PROGRAM

AD-A277 740

FINAL

Site Investigation Report

Volume 3

Appendices H Through M

November 1992

161st AIR REFUELING GROUP
ARIZONA AIR NATIONAL GUARD
SKY HARBOR INTERNATIONAL AIRPORT
PHOENIX, ARIZONA

Hazardous Waste Remedial Actions Program
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7606
Managed by MARTIN MARIETTA ENERGY SYSTEMS, INC.
For the U.S. DEPARTMENT OF ENERGY under contract DE-AC05-840R21400

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IT Corporation
312 Directors Drive
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Hazardous Waste Remedial Action Program
Oak Ridge TN

Air National Guard Readiness Center
Andrews Air Force Base, Maryland 20331

10. Sponsoring/Monitoring Agency Report Number

11. Supplemental Notes

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Site Investigation of five (5) IRP sites at Sky Harbor Air National Guard Base and one (1) site at Papago Military reservation. Three volumes containing

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Unclassified	Unclassified	Unclassified	None

FINAL
SITE INVESTIGATION REPORT
161ST AIR REFUELING GROUP
ARIZONA AIR NATIONAL GUARD
SKY HARBOR INTERNATIONAL AIRPORT
AND PAPAGO MILITARY RESERVATION
PHOENIX, ARIZONA

VOLUME 3
APPENDICES
H THROUGH M

Submitted To:

AIR NATIONAL GUARD READINESS CENTER
ANDREWS AIR FORCE BASE, MARYLAND

Submitted By:

HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM
Oak Ridge K-25 Site
Oak Ridge, Tennessee 37831-7606
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
under contract DE-AC05-84OR21400

Prepared By:

IT CORPORATION
312 DIRECTORS DRIVE
KNOXVILLE, TENNESSEE 37923

Prepared For:

U.S. DEPARTMENT OF ENERGY
CONTRACT DE-AC05-840R21400

NOVEMBER 1992

List of Appendices

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APPENDIX H

SAMPLE COLLECTION LOGS

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 6 9 1
TIME	0 3 0 0
PAGE 1 OF 1	
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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor

SAMPLE NO. ~~SVP1-1~~ SVPS-1-1

SAMPLE LOCATION Drill cutting from Piezo PS-1

SAMPLE TYPE Soil

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Soil

DEPTH OF SAMPLE Surface

WEATHER Warm/Clear

CONTAINERS USED	AMOUNT COLLECTED
~~6/7-250ml~~	
1 Glass 250ml	125ml

COMMENTS: composite sample of soil

PREPARED BY: J. Tyburski for Ed Rankin

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 18 91
TIME	1040
PAGE	1 OF 2
PAGE	
PROJECT NO.	409721.02.04

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-0-1/01 & 02

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE Surface

WEATHER Clear, Breezy, warm

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeve	
(2)	

COMMENTS:

Sample 01 for Home Lab
Sample 02 for Field Lab

PREPARED BY: Mark A. Barker

COMMENTS:
(Continued)

DATE	0	1	1	8	9	0
TIME	1	0	4	0		
PAGE 2 OF 2						
PAGE						
PROJECT NO. 40??.02??						

PREPARED BY: Mark A. [signature]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY.

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A

4 DATE. USE MONTH/DAY/YEAR; I.E., 10/30/85

5 TIME. USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P M

6 PAGE. EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24. 2 OF 24. ETC.

7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER. GRID LOCATION (TRANSECT). SAMPLING STATION I D . OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY

8 SAMPLE TYPE: USE THE FOLLOWING - SOIL. WATER (SURFACE OR GROUND). AIR (FILTERS. TUBES. AMBIENT. PERSONNEL). SLUDGE DRUM CONTENTS. OIL. VEGETATION; WIPE. SEDIMENT

9 COMPOSITE TYPE: I.E., 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE

10 DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES FEET DON'T USE ' OR "

11 WEATHER: APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER. VOLUME. MATERIAL (E G., 2 - 1L GLASS. 4 - 40 ML GLASS VIAL. 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 8 9 1
TIME	1 0 5 0
PAGE 1 OF 2	
PAGE	
PROJECT NO. 409721.02	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-0-5/01 & 02

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE ___

DEPTH OF SAMPLE 0-5ft interval

WEATHER Clear, Breezy, Warm

CONTAINERS USED	AMOUNT COLLECTED
(2) 6 inch	
Brass Sleeves	✓

COMMENTS:

Sample 01 for Home Lab
Sample 02 for Field Lab

PREPARED BY: Mark O. [signature]

COMMENTS:
(Continued)

DATE	0	1	1	8 9	0
TIME	1	0	5	0	
PAGE 2 OF 2					
PAGE					
PROJECT NO. W1772.02.06					

PREPARED BY: Mark W. Dankin

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE

2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

3 ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A

4 DATE USE MONTH/DAY/YEAR. I E . 10/30/85

5 TIME USE 24-HOUR CLOCK. I E . 1835 FOR 6.35 P M

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL. WATER (SURFACE OR GROUND) AIR (FILTERS. TUBES. AMBIENT. PERSONNEL). SLUDGE. DRUM CONTENTS OIL VEGETATION. WIPE. SEDIMENT

9 COMPOSITE TYPE. I E . 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE

10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G . 2 - 1L GLASS 4 - 40 ML GLASS VIAL. 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE. 1 - 8 OZ GLASS JAR)

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 9 9 1
TIME	1 1 0 5
PAGE 1 OF 2	
PAGE	
PROJECT NO. 409721.03.0	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-5-10/01 & 02

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 5-10 ft. Interval

WEATHER Clear, Breezy, Warm

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch Brass Sleeves	✓

COMMENTS:

Sample 01 for Home Lab
Sample 02 for Field Lab

PREPARED BY: Mark A. Gaudin

COMMENTS:
(Continued)

DATE	0 1 1 8 9 1
TIME	1 1 0 7
PAGE 2 OF 2	
PAGE	
PROJECT NO.	401331.03 04

PREPARED BY: Mark A. [signature]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE

2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

3 ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N A

4 DATE USE MONTH/DAY/YEAR, I E . 10/30/85

5 TIME USE 24-HOUR CLOCK. I E . 1835 FOR 6 35 P M

6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE ____ OF ____ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY I E . IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24. 2 OF 24 ETC

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL WATER (SURFACE OR GROUND) AIR (FILTERS TUBES AMBIENT PERSONNEL). SLUDGE. DRUM CONTENTS. OIL. VEGETATION. WIPE. SEDIMENT

9 COMPOSITE TYPE I E . 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE SPATIAL COMPOSITE

10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER VOLUME MATERIAL (E G 2 - 1L GLASS 4 - 40 ML GLASS VIAL 1 - 400 ML PLASTIC 1 - 3 INCH STEEL TUBE. 1 - 8 OZ GLASS JAR)

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E G 1 2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 8 9 1
TIME	1 1 1 6
PAGE 1 OF 2	
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-10-15/01 & 02

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE ___

DEPTH OF SAMPLE 10-15 ft Interval

WEATHER Clear, Breezy, warm

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch	
Brass Sleeves	✓

COMMENTS:

Sample 01 for Home Lab
Sample 02 for Field Lab

PREPARED BY: Mark A. [signature]

COMMENTS:
(Continued)

DATE	0 1 1 8 9 1
TIME	1 1 1 6
PAGE 2 OF 7	
PAGE	
PROJECT NO.	401321.02.06

PREPARED BY: Mark A. [signature]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE

2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

3 ALL ENTRIES ON LOG ARE TO BE COMPLETED IF NOT APPLICABLE MARK N/A

4 DATE USE MONTH/DAY/YEAR, I E . 10/30/85

5 TIME USE 24-HOUR CLOCK, I E , 1835 FOR 6 35 P M

6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24 2 OF 24 ETC

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL WATER (SURFACE OR GROUND) AIR (FILTERS TUBES AMBIENT PERSONNEL) SLUDGE DRUM CONTENTS, OIL, VEGETATION, WIPE SEDIMENT

9 COMPOSITE TYPE I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE

10 DEPTH OF SAMPLE GIVE UNITS WRITE OUT UNITS SUCH AS INCHES FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G . 2 - IL GLASS 4 - 40 ML GLASS VIAL 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ GLASS JAR)

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E G 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 8 9 1
TIME	1 2 1 5
PAGE 1 OF 2	
PAGE	
PROJECT NO.	409321.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-25-30/01 & 02

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE 25-30 ft. Interval

WEATHER Clear, Breezy, Warm

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch	
Brass Sleeves	✓

COMMENTS:

Sample 01 for Home Lab
Sample 02 for Field Lab

PREPARED BY: M.G. Gardin

COMMENTS:
(Continued)

DATE	0 1	1 8	9 1		
TIME	1	2	1	5	
PAGE 2 OF 2					
PAGE					
PROJECT NO. 409321.02.06					

PREPARED BY: M.A. Harlin

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY
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8. SAMPLE TYPE. USE THE FOLLOWING - SOIL. WATER (SURFACE OR GROUND). AIR (FILTERS TUBES AMBIENT PERSONNEL). SLUDGE DRUM CONTENTS. OIL. VEGETATION: WIPE. SEDIMENT
9. COMPOSITE TYPE. I.E., 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE
10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "
11. WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G. 2 - 1L GLASS 4 - 40 ML GLASS VIAL 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE. 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	1	8	9 1
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PAGE 1 OF 2					
PAGE					
PROJECT NO. 40972.02					

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-30-35/01

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 30-35 ft.

WEATHER Clear, Breezy

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch Brass sleeves.	✓

COMMENTS:

Sample 01 for home Lab; 02 not recovered.

PREPARED BY: M.A. Gordon

COMMENTS:
(Continued)

DATE	0	1	1	8	9	1
TIME	1		2	3	0	
PAGE 2 OF 2						
PAGE						
PROJECT NO. 409721.01.06						

PREPARED BY: M. G. [signature]

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.
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8. SAMPLE TYPE: USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE, DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT.
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 8 9 1
TIME	1 2 4 9
PAGE	1 OF 2
PAGE	
PROJECT NO.	409321.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. SB1-05-35-40/01

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE 35-40 ft.

WEATHER Clear, Breezy

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch	
Brass Sleeves	✓

COMMENTS:

Sample 01 for Home Lab; 02 not Received.

PREPARED BY: M. A. [illegible]

COMMENTS:
(Continued)

DATE	01	13	91		
TIME	1	2	4	9	
PAGE 2 OF 2					
PAGE					
PROJECT NO. 409381.01.06					

PREPARED BY: M.A. [illegible]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

3 ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.

4 DATE USE MONTH/DAY/YEAR, I.E., 10/30/85

5 TIME USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE, DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT

9 COMPOSITE TYPE I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE

10 DEPTH OF SAMPLE GIVE UNITS WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR)

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 18 91
TIME	13 10
PAGE 1 OF 2	
PAGE	
PROJECT NO. 409221.01.06	

SAMPLE COLLECTION LOG

PROJECT NAME ~~SB1-05~~ Ski Harbor ANG

SAMPLE NO. SB1-05-40-45/01

SAMPLE LOCATION Soil Boring SB1-05

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE 40-45 ft.

WEATHER Clear, Breezy

CONTAINERS USED	AMOUNT COLLECTED
(2) 6 wd	
Brass sleeves	✓

COMMENTS:

Sample 01 for Home lab; 02 not received.

PREPARED BY: M.G. [illegible]

COMMENTS:
(Continued)

DATE	01 18 91
TIME	1 3 1 0
PAGE	2 OF 2
PAGE	
PROJECT NO.	409221.02.26

PREPARED BY: M A [signature]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE

2 ALWAYS COMPLETE BOTH SIDES IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

3 ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A

4 DATE. USE MONTH/DAY/YEAR; I E., 10/30/85

5 TIME. USE 24-HOUR CLOCK. I.E., 1835 FOR 6 35 P M

6 PAGE. EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I E . IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC

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9 COMPOSITE TYPE I E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE SPATIAL COMPOSITE

10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER VOLUME, MATERIAL (E G . 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ GLASS JAR)

13 AMOUNT COLLECTED. VOLUME IN CONTAINERS (E G 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 18 91
TIME	14 30
PAGE	1 OF 2
PAGE	
PROJECT NO.	409721.02

SAMPLE COLLECTION LOG

PROJECT NAME: SB- Harbor Area

SAMPLE NO.: SB1-05-45-50/01

SAMPLE LOCATION: Soil Boring SB1-05

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE:

DEPTH OF SAMPLE: 45-50 ft.

WEATHER: Clear, Breezy, warm

CONTAINERS USED	AMOUNT COLLECTED
(2) 6 inch Brass Sleeves	✓

COMMENTS:

Sample 01 for Home lab; 02 not Recovered.

PREPARED BY: M.A. Gardner

DATE	0	1	1	8	9	1
TIME	1	4	7	0		
PAGE 2 OF 2						
PAGE						
PROJECT NO. 409721.07.06						

COMMENTS:
(Continued)

PREPARED BY: M.W. Hadwin

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR, I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE _____ OF _____ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

IT INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 1 8 9 1
TIME	1 5 4 0
PAGE 1 OF 2	
PAGE	
PROJECT NO.	409 221.02 06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: SB1-05-65-70/01

SAMPLE LOCATION: Soil Boring SB1-05

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: ___

DEPTH OF SAMPLE: 65-70 ft.

WEATHER: Clear, Windy

CONTAINERS USED	AMOUNT COLLECTED
6" Brass	
Sleeves (2)	✓

COMMENTS:

Sample 01 for Hold Lab, QC not Required.

PREPARED BY: M.U. [signature]

COMMENTS: (Continued)

DATE	0 1 1 8 9 1
TIME	1 5 4 6
PAGE 2 OF 2	
PAGE	
PROJECT NO.	409321.02.06

PREPARED BY: M. G. Hawkins

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

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PAGE 1 OF 1	
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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-FB1

SAMPLE LOCATION At end of decon source (through steam cleaner)

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Clear, sunny, 70°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Collect decon water from pipe truck steam cleaner

730 umhos
7.84 pH
21.6°C

Containers used
5 - 40ml glass
2 - liters poly
2 - liters amber glass
1 - 500ml poly

Sample to be analyzed for complete suite.

PREPARED BY: J Tyburski

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	1	9	9	1
TIME	See Below					
PAGE 1 OF 2						
PAGE						
PROJECT NO. 401921.02.06						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Papago Military Reservation

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE See Below

WEATHER Clear, Breezy, Warm

CONTAINERS USED	AMOUNT COLLECTED
500 mL Clear Glass Jar	See Below

COMMENTS:

Sample #	Time	Amount	Depth Sampled	Comments
PP-01-58-59-01	1135	500 mL	58-59 ft.	Removed From Cyclone
PP-02-54-55-01	1320	500 mL	54-55 ft.	Removed From Cyclone
PP-03-54-55-01	0920	500 mL	55 ft.	Removed From Cyclone

PREPARED BY: Mark A. [signature]

COMMENTS: (Continued)	DATE	0	1	1	9	9	1
	TIME	1	7	0	0		

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PROJECT NO. 404221. 03.[illegible]

PREPARED BY: M. A. [illegible]

LEGEND

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11. WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ GLASS JAR)
13. AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harber ANG

SAMPLE NO. WV-PS2-1

SAMPLE LOCATION PS-2

SAMPLE TYPE Water

COMPOSITE ✓ YES ____ NO

COMPOSITE TYPE N/A

DEPTH OF SAMPLE N/A

WEATHER overcast

CONTAINERS USED	AMOUNT COLLECTED
2-40ml.	

COMMENTS:

WV-PS-3-1

PH 7.37
Temp 21.1
Cond 1080

Sampled from bailer bottom

PREPARED BY: Edward C. Rankin

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR)

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-PS3

SAMPLE LOCATION PS-3

SAMPLE TYPE Water

COMPOSITE ✓ YES ____ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Cl, overcast

CONTAINERS USED	AMOUNT COLLECTED
2-40ml	

COMMENTS:

WV-PS-3-1

pH - 7.36
Temp - 20.9°C
Cond - 1050

Sampled from bailer bottom.

PREPARED BY: J. Tyl[illegible]

COMMENTS: (Continued)	

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E G 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	1	9	1
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PAGE 1 OF 1						
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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - SW1 - 1

SAMPLE LOCATION ~~Rinsate~~ JT Source water HPLC Burdick & Jackson Lot No. AY755

SAMPLE TYPE W

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE W

DEPTH OF SAMPLE NA

WEATHER Clear, 65°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

pH = 5.12
Cond = 50 umhos
Temp = 22.5°C

1 - 500 ml ~~poly~~ JT poly
2 - liter poly w/ HNO_3
4 - 40 ml VOAs w/ HCl
2 - amber glass liter
1 - amber glass liter w/ HCl

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER1

SAMPLE LOCATION SB1-03

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE ___

DEPTH OF SAMPLE NA

WEATHER Clear, Warm 70°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Equipment Rinsate of CA sampler

pH = 5.51
Cond = 10 umhos
Temp = 22.9°C

1-liter amber glass w/ HCl
1-liter amber glass
2-40ml VOAs

PREPARED BY: Jo. Tyl[illegible]

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
	PAGE
	PROJECT NO.

PREPARED BY: ______________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 2 1 9 1
TIME	See Below
PAGE	1 OF 2
PAGE	
PROJECT NO.	407321

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Soil Boring SB1-03

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE: See Below

WEATHER: Partly Cloudy, Warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeves w/ Teflon lined Caps	See Below

COMMENTS: Sample #	Time	Blow Count	HNu Reading	Recovery
SB1-03-0-2-01 & 02	1405	15,12,13	0	95%
MB ~~SB1-03-5-7-01 & 02~~	1420	13,12,18	–	0%
SB1-03-10-12-01 & ~~02~~ MB	1435	10,16	0	50%
SB1-03-15-17-01 & ~~02~~ MB	1445	10,50	–	10%
SB1-03-20-22-01 & ~~02~~ MB	1450	8,11,22	0	50%
MB ~~SB1-03-25-27-01 & 02~~	1510	50	–	0%
MB ~~SB1-03-30-32-01 & 02~~	1520	50	–	0%
SB1-03-35-37-01 & 02	1535	16,16,50	0	75%
MB ~~SB1-03-40-42-01 & 02~~	1555	50	–	0%
MB ~~SB1-03-45-47-01 & 02~~	~~15~~ 1600	50	–	0%
MB ~~SB1-03-50-52-01 & 02~~	1615	50	–	0%

PREPARED BY: Mark A. Hawkins

COMMENTS: (Continued)	
DATE	0 1 2 1 9 1
TIME	1 7 0 0
PAGE	2 OF 2
PAGE	
PROJECT NO.	401721-[illegible]

PREPARED BY: M.G. [illegible]

LEGEND

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13 AMOUNT COLLECTED. VOLUME IN CONTAINERS (E.G. 1/2 FULL).

IT INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 21 91
TIME	See Below
PAGE 2 OF 2	
PAGE	
PROJECT NO.	409821.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Soil Boring SB1-03

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE See Below

WEATHER

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeves	See Below
w/ Teflon Lined	
Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery
SB1-03-SS-57-01/02/03	0810	21,25,23	0	95%

PREPARED BY: M.A. [illegible]

DATE	0	1	2	1	9	1
TIME	0	8	3	0		
PAGE 2 OF 2						
PAGE						
PROJECT NO. 4[illegible]721. 02.0[illegible]						

COMMENTS: (Continued)

PREPARED BY: M. [illegible] [illegible]

LEGEND

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13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 2 1 9 1
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	401721.02.02

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Soil Boring SB1-04

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE:

DEPTH OF SAMPLE: See Below

WEATHER: Cloudy, Cool, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeves w/ Teflon lined caps	See Below

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery
SB1-04-0-2-01 & 02	0855	12, 20, 24	0.2 ppm	~75%
SB1-04-5-7-01 & 02	0905	10, 14, 35	0	~95%
SB1-04-10-12-01 & 02	0915	18, 19, 20	0	~95%
MF ~~SB1-04-15-17-01 & 02~~	0925	~~/~~ 50	—	0%
SB1-04-20-22-01 & 02 MF	0935	50	0	10%
MF ~~SB1-04-25-27-01 & 02~~	0950	50	—	0%
SB1-04-30-32-01 & 02 MF	0955	6, 10, 50+	0	10%
MF ~~SB1-04-35-37-01 & 02~~	1010	50	—	0%
SB1-04-40-42-01 & 02 MF	1025	50	0	5%
MF ~~SB1-04-45-47-01 & 02~~	1040	50	—	0%
MF ~~SB1-04-50-52-01 & 02~~	1055	50	—	0%
SB1-04-55-57-01 & 02	1105	13, 23, 22	0	75%
MF ~~SB1-04-60-62-01 & 02~~	1115	50	—	0%
MF ~~SB1-04-65-67-01 & 02~~	1125	50	—	0%
MF ~~SB1-04-70-72-01 & 02~~	1135	50	—	0%

PREPARED BY: Mark A. [signature]

COMMENTS: (Continued)

DATE	[illegible] 2 1 9 1
TIME	1 1 5 0
PAGE 2 OF 2	
PAGE	
PROJECT NO.	[illegible]

PREPARED BY: [illegible signature] 1/21/91

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A FILL IN CONTROL BLOCK AND PREPARED BY

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.

4. DATE: USE MONTH/DAY/YEAR: I.E.. 10/30/85

5. TIME. USE 24-HOUR CLOCK; I.E.. 1835 FOR 6:35 P M

6 PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E.. IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24. 2 OF 24. ETC.

7 SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER. GRID LOCATION (TRANSECT). SAMPLING STATION I D . OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.

8 SAMPLE TYPE USE THE FOLLOWING - SOIL. WATER (SURFACE OR GROUND): AIR (FILTERS. TUBES. AMBIENT. PERSONNEL). SLUDGE. DRUM CONTENTS. OIL. VEGETATION. WIPE SEDIMENT

9 COMPOSITE TYPE: I.E.. 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES. FEET DON'T USE ' OR ".

11 WEATHER APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER. VOLUME. MATERIAL (E.G . 2 - 1L GLASS. 4 - 40 ML GLASS VIAL 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE. 1 - 8 OZ. GLASS JAR)

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 2 2 9 1
TIME	See Below
PAGE	1 OF 2
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 2, Soil Boring SB2-04

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE See Below

WEATHER Sunny, variable wind, warm

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeve	See Below
w/ Teflon-Lined	
Caps	

COMMENTS:

Sample #	Time	Blow Counts	HNu Reading	Recovery
SB2-04-0-2-01 & 02	1510	5,4,4	0 ppm	95%
SB2-04-5-7-01	1520	5,18,16	0	40%
~~SB2-04-10-12-~~	1530	50	—	0%
SB2-04-15-17-01	1535	24,41,50	0	75%

PREPARED BY: M.G. Dardin

COMMENTS:
(Continued)

DATE	0 1 2 2 9 1
TIME	1 6 0 0
PAGE 2 OF 2	
PAGE	
PROJECT NO.	409721-02.06

PREPARED BY: M. A. [illegible]

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRO AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 22 91
TIME	See Below
PAGE	1 OF 2
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Site 2, Soil Boring SB2-02

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

COMPOSITE TYPE: ___

DEPTH OF SAMPLE: See Below

WEATHER: Clear, Warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeves w/ Teflon	
Lined Caps	

COMMENTS:

Sample #	Time	Blow Counts	HNu Reading	Recovery
SB2-02-0-2-01&02	1110	8,9,5	0	95%
SB2-02-5-7-01&02	1115	6,7,10	0	95%
SB2-02-10-12-01&02	1125	8,10,16	0	60%
MV ~~SB2-02-15-17-01&02~~	—	50	—	0%
SB2-02-20-22-01	1155	50	0	1% (Only in Drive Shoe)
SB2-02-40-42-01&02	1240	40,50	0	75%
SB2-02-50-52-01&02	1255	13,50	0	90%
SB2-02-55-57-01	1315	50	—	40%
SB2-02-70-72-01&02	1350	19,26	0	100%

PREPARED BY: M.A. [signature]

COMMENTS: (Continued)

DATE	0 1 2 2 9 1
TIME	1 4 0 0
PAGE 2 OF 2	
PAGE	
PROJECT NO.	409321.02.[illegible]

PREPARED BY: [illegible signature]

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE. USE MONTH/DAY/YEAR; I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
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8. SAMPLE TYPE: USE THE FOLLOWING - SOIL; WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE, DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT.
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER2 (from Lot No. AY755 Burdick & Jackson)

SAMPLE LOCATION Soil Boring sampler rinsate SB2-02

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE NA

WEATHER Clear, warm 68°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Could not perform field parameter check. Limited water supply only sufficient to collect sample bottles.

Temp approx ambient ~~22°C~~ 18.5°C
JT

2 - liters poly w/ HNO_3
2 - amber glass one w/ HCl
2 - 40 ml glass w/ HCl

PREPARED BY: [signature]

COMMENTS: (Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

N/A

PREPARED BY: ____________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.

4 DATE USE MONTH/DAY/YEAR; I.E., 10/30/85

5. TIME USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.

6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 23 91
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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 2, Boring SB2-04

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE

DEPTH OF SAMPLE See Below

WEATHER

CONTAINERS USED	AMOUNT COLLECTED
(2) 6-inch	See Below
Brass Sleeves w/	
Teflon-Lined Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery
SB2-04-50-52-01	0905	50	0	10%
SB2-04-55-57-01	0915	50	0	90%
SB2-04-70-72-01 & 02	0955	7, 16, 22	0.6 ppm	80%

PREPARED BY: Mark A. [signature] 1/25/91

COMMENTS:
(Continued)

DATE	0	1	2	3	9	1
TIME	1	3	0	0		
PAGE 2 OF 2						
PAGE						
PROJECT NO. 409421.02-06						

PREPARED BY: Mark A. [illegible]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES. FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER VOLUME, MATERIAL (E G . 2 - IL GLASS; 4 - 40 ML GLASS VIAL. 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE. 1 - 8 OZ. GLASS JAR)

13 AMOUNT COLLECTED. VOLUME IN CONTAINERS (E G 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	3	9	1
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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER3

SAMPLE LOCATION Equip Rinsate SB2-04

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE NA

WEATHER Clear 70°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Equipment rinsate

1-liter amber glass w/ HCl
1-liter amber glass
2-40ml glass w/ HCl
2-40ml glass w/ HCl
2-liter poly w/ HNO_3

pH = 5.50
cond = 30 umhos
Temp = 14°C

PREPARED BY: J. Tyl[illegible]

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E G 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	3	9	1
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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-FB2

SAMPLE LOCATION Field Blank of D.I. water

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE NA

WEATHER Clear, 58°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

pH = 5.51
Cond = 40 umhos
Temp = 13.1 °C

1-liter glass w/ HCl
2-liters glass
4-40ml glass w/ HCl
2-liters poly w/ ~~H_2SO_4~~ HNO_3
1-500ml poly w/ H_2SO_4

PREPARED BY: J. Tyl[illegible]

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

COMMENTS: (Continued)

PREPARED BY: ______________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 28 91
TIME	See Below
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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Monitor Well MW1-02, Site 1

SAMPLE TYPE: Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE ____

DEPTH OF SAMPLE: See Below

WEATHER: Sunny, Clear, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeves w/ Teflon lined Cap	See Below

COMMENTS:

	Sample #	Time	Blow Count	HNu Reading	Recovery
*	~~SD~~ MB1-02-0-2-01 402 403	0845	13, 17, 20	0	100%
*	MB1-02-15-17-01	0915	50	0	20%
	~~MB1-02-10-12-01~~	~~0915~~			
	MB1-02-35-37-01	0950	10, 15, 20	0	50%
*	MB1-02-50-52-01	1030	50	0	40%
*	MB1-02-55-57-01	1045	50	0	10%
	MB1-02-60-62-01	1055	50	0	40%
	MB1-02-75-77-01	1140	50	0	50%
	MB1-02-TB	1700	—	—	—

* Sample to Field Lab. Not enough to send to Ceimic.

PREPARED BY: M.A. Hardin

COMMENTS: (Continued)

DATE	012891
TIME	1600
PAGE 2 OF 2	
PAGE	
PROJECT NO.	40771.02.10

PREPARED BY: M. G. [illegible]

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	8	9	1
TIME	1	2	3	0		
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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER4

SAMPLE LOCATION MW1-02

SAMPLE TYPE Rinsate of soil sampler

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Water

DEPTH OF SAMPLE NA

WEATHER 60°F Clear, Calm

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Rinsate of soil sampler

pH = 4.98
Cond = 20 umhos
Temp = 22.7°C

1- liter amber w/ HCl
1- liter amber
2- 40ml glass

PREPARED BY: J. Tyler [signature]

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ____ OF ____ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 2 9 9 1
TIME	See Below
PAGE 1 OF 2	
PAGE	
PROJECT NO.	409722.02

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION ~~S.~~ Sky Harbor Background Well, MWS-01

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE See Below

WEATHER Sunny, very windy, cool

CONTAINERS USED	AMOUNT COLLECTED
6" Brass sleeves	See Below
w/ Teflon lined	
Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery %
~~S~~MWS-01-0-2-01,02,03,04	1310	4,10,12	0.2	100, 100, 90
MWS-01-5-7-01	1330	10,50	0	20, 0, 0
MWS-01-10-12-01	1340	8,10,50 Air Gravel	0	20, 0, 0
MBS-01-60-62-01	1520	22,22,25	—	70, 0, 0
MBS-01-TB (Trip Blank Sample)	0700	NA	NA	NA

PREPARED BY: M.A. [signature]

DATE	0 1 2 9 9 1
TIME	1 7 0 0
PAGE 2 OF 2	
PAGE	
PROJECT NO.	40721.02.

COMMENTS:
(Continued)

PREPARED BY: M.W. [illegible]

LEGEND

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2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 24 91
TIME	See Below
PAGE	1 OF 1
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PROJECT NO.	409821.02.36

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 2, Soil Boring SB2-01

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE See Below

WEATHER Sunny, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeves w/Teflon-Lined Caps	See Below

	COMMENTS: Sample #	Time	Blow Count	HNu Reading	Recovery
x	SB2-01-0-2-01, 02 & 03	0805	4,7,9	0.2	100,50,30
	SB2-01-5-7-01	0815	4,7,8	0	75,0,0
	SB2-01-10-12-01	0830	10,14,13	0	50,0,0
	SB2-01-15-17-01	0840	50	0	90,0,0
x	SB2-01-50-52-01 & 02	1005	50	0	100,70,0
x	SB2-01-55-57-01 & 02	1015	50	0	60,20,0
x	SB2-01-60-62-01	1035	50	0	10,0,0

PREPARED BY: M.A. Gordon

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
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	PROJECT NO.

PREPARED BY: ______________________

LEGEND

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12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G., 2 - IL GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E G 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	2	9	1
TIME	1	6	0	0	
PAGE 1 OF 1					
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PROJECT NO. 409721					

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ERS

SAMPLE LOCATION MWS-01

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Rinsate

DEPTH OF SAMPLE NA

WEATHER 60°F, Clear, 10 mph NW wind

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Rinsate sample from sampler at Well MWS-01

pH: 5.53
Cond: 110 mmhos
Temp: 20.2°C

1-liter amber glass w/ HCl
2-liters amber glass
2-liters poly w/ HNO_3
1-500ml poly
2-40ml glass w/ HCl
2-40ml glass w/ HCl (Trip Blanks)

PREPARED BY: J. Tyler [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____SRT____

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 30 91
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PROJECT NO.	409721.02

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor [illegible]

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Background Well # MWS-03

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE See Below

WEATHER Sunny, Clear, Breezy, [illegible]

CONTAINERS USED	AMOUNT COLLECTED
Brass [illegible]	See Below
Sleeves w/ Teflon	
Lined Caps	

COMMENTS:

	Sample #	Time	[illegible]	HNu Reading	Recovery	Comments
*	MBS-03-0-2-01,02,03	1325	20,50	0	100,75,20	[illegible] & F.L.
*	MBS-03-5-7-01,02	1350	6,9,13	0	70,[illegible]30	[illegible] & F.L.
*	MBS-03-50-52-01	15[illegible]	50	0	10%	F.L.
	MBS-03-TB	0800	—	—	—	Trip Blank

DATE: 01/31/91

	Sample #	Time	[illegible]	HNu Reading	Recovery	Comments
*	MBS-03-75-77-01	0830	40,50		20,0	F.L.

PREPARED BY: M. [illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 3 0 9 1
TIME	0 9 0 5
PAGE	1 OF 1
PAGE	0 0 0
PROJECT NO.	409321

SAMPLE COLLECTION LOG

PROJECT NAME SKY HARBOR ANG

SAMPLE NO. QC-FB3 + QC-FB3-TB

SAMPLE LOCATION DECON TRAILER

SAMPLE TYPE WATER

COMPOSITE ___ YES X NO

COMPOSITE TYPE N/A

DEPTH OF SAMPLE N/A

WEATHER SUNNY, COOL, SLIGHT BREEZE ~45

CONTAINERS USED	AMOUNT COLLECTED
SEE BELOW	

COMMENTS: FIELD PARAMETER OF WATER USED FOR DECON

TEMP: 10.6

PH = 8.09

COND: 0630

CONTAINERS	AMOUNT COLLECTED
10 x 40 mL	400 mL
3x 1 LITER AG	3 LITERS
2x 1 LITER CPE	2 LITERS
1x 500 mL CPE	500 mL

PREPARED BY: Jon Saavedra

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC 1 - 3 INCH STEEL TUBE 1 - 8 OZ GLASS JAR)

13 AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	1	3	0	9	1
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PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER6

SAMPLE LOCATION Equip Rinsate MWS-03

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Water

DEPTH OF SAMPLE NA

WEATHER Clear, calm 64°F

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equip. Rinsate of sampler from background well MWS-03

pH - 4.93
Cond - 20 umhos
Temp - 22.0 °C

1 - liter glass w/ HCl
2 - liters glass
2 - liter poly w/ HNO_3
1 - 500 ml poly w/ H_2SO_4
2 - 40 ml glass w/ HCl

PREPARED BY: J. Tyland

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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13. AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 3 1 9 1
TIME	1 6 1 5
PAGE 1 OF 1	
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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER7

SAMPLE LOCATION Equip Rinsate MWS-02

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Water

DEPTH OF SAMPLE NA

WEATHER 70°F, Clear

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equip. Rinsate of CA sampler and brass rings

pH = 4.20
Cond = 30
Temp = 22.9 °C

1-liter glass w/ HCl
2-liter glass
2-40ml glass w/ HCl
2-liters poly w/ HNO_3
1-500ml poly w/ H_2SO_4
2-40ml glass w/ HCl Trip Blank

PREPARED BY: J. Tyler [signature]

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 1 3 1 9 1
TIME	1 4 4 5
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PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-FB4

SAMPLE LOCATION D.I. Field Blank

SAMPLE TYPE Water

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Water

DEPTH OF SAMPLE NA

WEATHER 70°F, Clear

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Field Blank of first shipment of 5 gallon bottles of distilled water

pH = 4.38
Cond = 110 umhos
Temp = 22.6°C

1-liter w/ HCl
2-liters glass
2-liters poly w/ HNO_3
1-500ml poly w/ H_2SO_4
4-40ml glass w/ HCl

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	01 31 91
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Background Well MWS-02

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE See Below

WEATHER Sunny, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
6 inch Brass Sleeves w/ Teflon-lined Caps	See Below

COMMENTS:

	Sample #	Time	Bkg Count	HNu Reading	Recovery	Comments
*	MBS-02-0-2-01,02,03	1425	16,22,26	0	100,90,80	2-Cans, 1-F.L
*	MBS-02-5-7-01,02,03	1435	10,15,20	0	20,70,90	2-" , 1-F.L
*	MBS-02-10-12-01,02,03	1445	6,6,6	0	100,90,20	" "
*	MBS-02-15-17-01	1455	50	0	20,0,0	F.L
*	MBS-02-25-27-01	1520	50	0 to 0.2	20,0,0	F.L
*	MBS-02-40-42-01	1605	50	0	20,0,0	F.L
	MBS-02-TB	0800	—	—	—	Carrier Trip Blank

PREPARED BY: M.A. Gardini

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	1	9	1
TIME	See Below					
PAGE 1 OF 1						
PAGE						
PROJECT NO. 409721.02.06						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 4, Papago Military Reservation

SAMPLE TYPE Soil

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE ________

DEPTH OF SAMPLE NA

WEATHER Overcast, cool, Breezy

CONTAINERS USED	AMOUNT COLLECTED
50 mL Clear Glass w/ Teflon Lined Cap	See Below

COMMENTS:

Sample #	Time	HNu Reading ppm	Comments
SV-MW4-02-1	1000	0	Field Lab Sample
SV-PP1-1	1130	0	Field Lab Composite
SV-PP2-1	1130	0	Field Lab Composite
SV-PP3-1	1130	0	Field Lab Composite
SV-MW4-01-1	1345	0	Field Lab Composite

PREPARED BY: Mark A. [signature]

COMMENTS: (Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ____________________

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4. DATE: USE MONTH/DAY/YEAR; I.E., 10/30/86
5. TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 4 9 1
TIME	1 7 0 5
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-PS1-1

SAMPLE LOCATION PS1

SAMPLE TYPE water

COMPOSITE X YES ___ NO

COMPOSITE TYPE water

DEPTH OF SAMPLE NA

WEATHER 75°F, Clear

CONTAINERS USED	AMOUNT COLLECTED
2x40ml AG	80ml

COMMENTS:

VOC collected at end of well development

pH ~ 6.93

Cond ~ 940

Temp ~ 22.4

PREPARED BY: [signature]

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

COMMENTS:
(Continued)

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	2	0	4	9	1
TIME	1	2	5	6		
PAGE 1 OF 1						
PAGE						
PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WU-MW1-02-01

SAMPLE LOCATION MW1-02

SAMPLE TYPE Water

COMPOSITE ✓ YES ____ NO

COMPOSITE TYPE Water

DEPTH OF SAMPLE NA

WEATHER 70°F, Clear

CONTAINERS USED	AMOUNT COLLECTED
2x40ml AG	80ml

COMMENTS:

VOC collected at end of well development

pH ~ 6.8

Cond ~ 1070 μS

Temp ~ 25°C

PREPARED BY: [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	02 04 91
TIME	1700
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER8

SAMPLE LOCATION Equipment Rinsate at SB1-02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, warm, slight breeze

CONTAINERS USED	AMOUNT COLLECTED
See Below.	

COMMENTS:

Equipment Rinsate of CA Shovel and Brass Rings:

pH = 4.22
Conductivity = 40 μmhos
Temp = 24.2

Bottle
1 - liter Glass w/ HCl — TPH
1 - liter Glass — SVOA
2 - 40 ml Glass — VOA

PREPARED BY: M.A. Dardin

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 4 9 1
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409321.02.02

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Background Wells MWS-01 & MWS-03

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Warm, Clear, Sunny

CONTAINERS USED	AMOUNT COLLECTED
2 x 40mL	
Per well	

COMMENTS:

Samples collected for rough field lab analysis for BTEX, PCE, TCA & DCE, from monitor wells MWS-01 & MWS-03.

Sample #	Well #	Time	Amount Collected	Analytes
WV-MWS-03-01	MWS-03	1400	2 x 40mL	BTEX, PCE, TCA, DCE
WV-MWS-01-01	MWS-01	1430	2 x 40mL	BTEX, PCE, TCA, DCE

PREPARED BY: Mark A. [illegible]

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	020491
TIME	1300
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: QC-FB5

SAMPLE LOCATION: Decon Trailer Field Blank

SAMPLE TYPE: Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: ______

DEPTH OF SAMPLE: NA

WEATHER: Sunny, warm, Clear

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Field Blank of water in Decon Trailer - Run through Steam Cleaner.

pH = 7.88
Conductivity = 680 µmhos
Temp = 27.3

Amount	Analytes
1 - 1 liter Glass w/ HCl	TPH
2 - liters Glass	SVOA & TOPE
2 - liters Poly w/ HNO_3	Metals
1 - 500 ml Poly w/ H_2SO_4	Nitrate/Nitrite
4 - 40 ml glass w/ HCl	VOA & Vinyl Chloride
4 - 40 ml glass w/ HCl	Trip Blanks for VOA & Vinyl Chloride
2 - 40 ml glass w/ HCl	BTEX, PCE, DCE, TCA for Field Lab Analysis

PREPARED BY: Mark A. Gardner

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.

4 DATE USE MONTH/DAY/YEAR; I.E., 10/30/85

5 TIME USE 24-HOUR CLOCK; I.E. 1835 FOR 6:35 P.M.

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10 DEPTH OF SAMPLE GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 4 9 1
TIME	See Below
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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Soil Boring SB1-02

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE See Below

WEATHER

CONTAINERS USED	AMOUNT COLLECTED
6" Brass Sleeve	See Below
w/ Teflon-Lined	
Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
SB1-02-0-2-01,02,03,04	0835	5,11,16	0	100,100,80,20	[illegible]
SB1-02-TB	0800	NA	NA	NA	Trip Blanks

PREPARED BY: Mark A. [illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ________________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 5 9 1
TIME	0 9 2 8
PAGE 1 OF 1	
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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-MW35-01-02

SAMPLE LOCATION MW35-01

SAMPLE TYPE water

COMPOSITE X YES ___ NO

COMPOSITE TYPE water

DEPTH OF SAMPLE NA

WEATHER Clear ±70°F

CONTAINERS USED	AMOUNT COLLECTED
2x40ml AG	80ml

COMMENTS:

Volitiles collected after well development

pH = 6.65

Cond = 1070μS

Temp = 21.7°C

PREPARED BY: [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

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4. DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 8 0 5 9 1
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409721.02.00

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Site 1, Soil Boring SB1-02

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

COMPOSITE TYPE: NA

DEPTH OF SAMPLE: See Below

WEATHER: Sunny, Warm, Slight Breeze

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeves w/ Teflon	
Lined Caps	

H.L = Home Lab; F.L. = Field Lab

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
• SB1-02-5-7-01	1010	9,12,14	NA	10,0,0	H.L.
SB1-02-15-~~20~~ 17-01	1035	50	35 ppm	10,00	F.L.; Gumbo soil moisture
• SB1-02-25-~~22~~-~~01~~ 02	1055	17,15,50	0	10,10,0	H.L., F.L.
~~SB1-02-35-37~~	~~1115~~				
SB1-02-50-52-01	1145	50	0	20,0,0	F.L.
SB1-02-TB2	~~0800~~ 0900	NA	NA	NA	Trip Blanks

PREPARED BY: Mark A. [signature]

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ____________________

LEGEND

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11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	02 05 91
TIME	See Below
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Sky Harbor Background Well MWS-02

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: See Below

WEATHER: Sunny, warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass Sleeves w/ Teflon-lined Caps	See Below

COMMENTS:

Sample #	Time	Background	HNu Reading	Recovery	Comments
MBS-02-45-47-01	1430	50	0	20.0.0	F.L.
MBS-02-50-52-01	1440	50	0	20.0.0	F.L.

PREPARED BY: Mark A. [illegible] (signature)

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 5 9 1
TIME	1 1 4 0
PAGE 1 OF 1	
PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WU-MWS-03-01

SAMPLE LOCATION MWS-03

SAMPLE TYPE water

COMPOSITE X YES ___ NO

COMPOSITE TYPE water

DEPTH OF SAMPLE NA

WEATHER Clear & 70°F

CONTAINERS USED	AMOUNT COLLECTED
2x40ml AG	80ml

COMMENTS:

Volatiles collected after well development

pH = 7.15

Cond = 1230 µS

Temp = 21.7 °C

PREPARED BY: [signature]

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 5 9 1
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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-~~SHP~~-2-D2

SAMPLE LOCATION SHP-2

SAMPLE TYPE water

COMPOSITE X YES ___ NO

COMPOSITE TYPE water

DEPTH OF SAMPLE N/A

WEATHER Clear & 75°F

CONTAINERS USED	AMOUNT COLLECTED
2x40ml AG	80ml

COMMENTS:

Volitiles sample collected after well development

pH = 7.17

Cond = 1170 µS

Temp = 21.8°C

PREPARED BY: [signature]

COMMENTS: (Continued)	

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 5 9 1
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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER ~~8~~ 9

SAMPLE LOCATION MWS - 02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE —

DEPTH OF SAMPLE NA

WEATHER 78°F, Clouds thin

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Equipment Rinsate of CA sampler at well MWS - 02

pH - 5. ~~30~~ 77

Cond - 30 µmhos

Temp - 29.7 °C

1 - 1 liter glass amber w/ HCl
2 - liters glass amber
2 - liters poly w/ HNO_3
1 - 500ml poly w/ H_2SO_4
2 - 40ml glass w/ HCl

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 6 9 1
TIME	See Below
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 2, ~~SO~~ Monitor Well MW2-02

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Sunny, Warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass Sleeves	See Below
w/Teflon-Lined	
Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
MB2-02-~~0~~-2-01,02,03,04	1100	NA	0	90,90,75,50	HL=3, F.L=1
MB2-02-5-7-01,02,03	1110	6,13,14	0	100,25,100	HL=2, FL=1
MB2-02-10-12-01	1150	16,26,50	0	20,0,0	FL=1
MB2-02-30-32-01,02	1210	30,25,50	0	60,30,0	HL=1, FL=1
MB2-02-45-47-01	1300	50	0	10,0,0	FL=1
MB2-02-50-52-01	1310	50	0	10,0,0	FL=1
MB2-02-65-67-01	1350	50	0	10,0,0	FL=1
MB2-02-70-72-01,02,03	1400	17,30,50	0	100,50,20	HL=2, FL=1
MB2-02-TB	0800	NA	NA	NA	Trip Blank

PREPARED BY: M.W. Harding

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

COMMENTS:
(Continued)

PREPARED BY: ______________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

IT INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 6 9 1
TIME	1 4 3 0
PAGE 1 OF 1	
PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER10

SAMPLE LOCATION Equip. Rinsate from MW2-02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 78°F, warm, clear, 5mph E wind

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equipment Rinsate taken from CA sampler at MW2-02

pH - 7.05
Cond - 80 umhos
Temp - 26.1 °C

1 - liter glass w/ HCl
1 - liter glass
2 - liters poly w/ HNO_3
2 - 40ml glass w/ HCl

PREPARED BY: J. Tyler

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

129-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	02 07 91
TIME	See Below
PAGE	1 OF 1
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PROJECT NO.	405721.02.01

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 5, Monitor Well MW5-01

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Partly Cloudy, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass Sleeves	See Below
w/ Teflon-lined	
Caps	

COMMENTS:

Sample #	Time	Blow Count	HNU Reading	Recovery	Comments
MB5-01-0-2-01,02,03,04	0840	6,9,8	0	90,90,90,50	HL=3, FL=1
MB5-01-5-7-01,02,03	0845	8,9,10	0	100,90,50	HL=2, FL=1
MB5-01-20-22-01	0915	50	0	10,0,0	FL=1
MB5-01-25-27-01	0925	50	0	10,0,0	FL=1
MB5-01-45-47-01	1005	50	0	10,0,0	FL=1
MB5-01-55-57-01	1025	50	0	20,0,0	FL=1
MB5-01-60-62-01,02	1035	20,30,18	0	90,50,0	HL=1, FL=1
MB5-01-70-72-01	1100	50	NA	90,0,0	HL=1 FL=0
MB5-01-75-77-01	1110	20,50	0	50,0,0	FL=1
MB5-01-TB	0730	NA	NA	NA	Trip Blank

LAST LINE

PREPARED BY: M.A. [signature] 2/7/91

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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10. DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 2 0 7 9 1
TIME	1 1 0 0
PAGE 1 OF 1	
PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER11

SAMPLE LOCATION Equipment Rinsate at MWS-01

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 60°F Cloudy partly 5mph E breeze

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equipment Rinsate of CA Sampler at well MWS-01

pH = 4.16
Cond = 10 umhos
Temp = 23.1 °C

1 - liter glass w/ HCl
2 - liters glass
2 - liters poly w/ HNO_3
1 - 500 ml poly w/ H_2SO_4
2 - 40 ml glass

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	02 08 91
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PROJECT NO.	409721.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Site 4, Monitor Wells MW4-01 & MW4-02

SAMPLE TYPE: Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: NA

DEPTH OF SAMPLE: NA

WEATHER: Sunny, warm, slight Breeze

CONTAINERS USED	AMOUNT COLLECTED
2 x 40 mL	80 mL
Glass	

COMMENTS:

Sample #	Time	Amount	Comments
WV-MW4-01-01	1015	2 x 40 mL	For Field Lab Screening.
WV-MW4-02-01	1040	2 x 40 mL	For Field Lab Screening.

Last Line

PREPARED BY: M. G. [signature]

COMMENTS: (Continued)		DATE							
		TIME							
		PAGE ____ OF ____							
		PAGE							
		PROJECT NO.							

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-MW5-01-01

SAMPLE LOCATION MW5-01

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER High clouds, warm, 0-5mph breeze

CONTAINERS USED	AMOUNT COLLECTED
40ml A/G	80ml

COMMENTS:

pH = 7.20

Cond = 1070 umhos

Temp = 23.9 °C

PREPARED BY: J. T. [signature]

COMMENTS:
(Continued)

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PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV - MW2 - 02 - 01

SAMPLE LOCATION MW2 - 02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Clear, warm, breezy

CONTAINERS USED	AMOUNT COLLECTED
2 - 40ml A/G bottles	

COMMENTS:

2 - 40ml bottles for VOAs

pH: 6.98
Cond: 1130 umhos
Temp: 22.1 °C

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-MWS-02-01

SAMPLE LOCATION MWS-02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER High Clouds, 10mph gusts from east

CONTAINERS USED	AMOUNT COLLECTED
40ml A/G	80mls

COMMENTS:

pH = 7.26
Cond = 1120 umhos
Temp = 23.5°C

PREPARED BY: J. Tybursk

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".

11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721.02.00

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 4, Monitor Wells MW4-01 & MW4-02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Partly Cloudy, Warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
2 x 40ml Clear Glass for each well	80ml / well

COMMENTS:

Sample #	Time	Amount	PH	Conductivity	Temp
WV-MW4-02-02	1600	2x40ml	7.43	950	26.3°C
WV-MW4-01-02	NA	NA	NA	NA	NA

No Sample Available — Well Dry.

LAST LINE

PREPARED BY: M.G. Hastings

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PAGE						
PROJECT NO. 409721						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER12

SAMPLE LOCATION Site 4 Surface Soil Sample Shovel rinsate

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Clear, slight breeze, warm

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Rinsate of drain spade used in collection of surface soil samples at Site 4.

pH = 6.06
Temp = 23.9 °C
Cond = 20 µmhos

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE	
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PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC: 1 - 3 INCH STEEL TUBE, 1 - 8 OZ GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721.02 06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 4

SAMPLE TYPE Soil

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Mixed Soils

DEPTH OF SAMPLE NA

WEATHER Sunny, Cool, Slight Breeze

CONTAINERS USED	AMOUNT COLLECTED
500ml & 40ml	See Below
Glass Jars	

COMMENTS:

Sample #	Time	Amt Collected	Comments
SS4-01	0905	1080ml	HNu Ø ppm
SS4-02	0925	1080ml	HNu Ø ppm
SS4-03	0945	1080ml	HNu Ø PPM
SS4-04	1005	1080ml	HNu Ø ppm Sample taken below ¼" asphalt
SS4-05	1030	1080ml	HNU Ø ppm
SS4-06	1045	1080ml	Background sample 25 ft due East of PP-01

See attachment 2 of 2 for locations

PREPARED BY: J. Tylecki

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
	PAGE
	PROJECT NO.

PREPARED BY: ______________________

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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

2 of 2

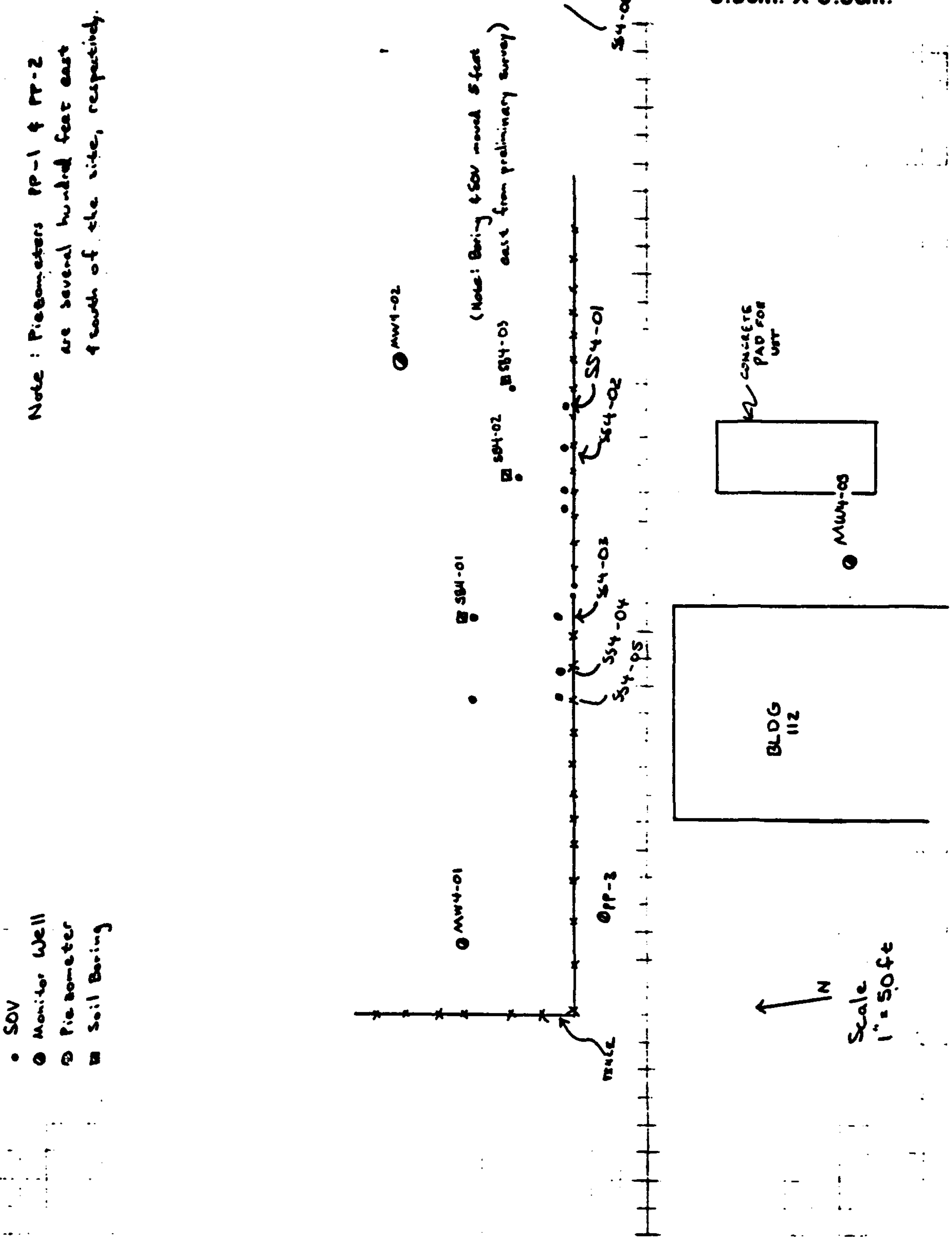
Attachment

INTERNATIONAL TECHNOLOGY CORPORATION

By JRT Date 12/18/90 Subject Site 4 Sketch Sheet No. 4 of 4

Chkd. By — Date — Papago Military Reservation Proj. No. 409721

0.5cm. X 0.5cm.



INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER13

SAMPLE LOCATION POL Area well MWS-04

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 55°F Partly Cloudy slight west breeze

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS: CA Sampler equipment rinsate

pH = 4.91

Cond = 30 μmhos

Temp = 20.1 °C

1-liter glass - w/ HCl

2-liter glass - w/o preservative

2-40ml glass - w/ HCl

PREPARED BY: J. Tyl[illegible]

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

LEGEND

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10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 1 9 1
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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Background Well MWS-04

SAMPLE TYPE Soil

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Overcast, Some Rain, Cool, Windy

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeve w/Teflon-	
Lined Caps	

COMMENTS:

Sample #	Time	Background	HNU Reading	Recovery	Comments
M~~W~~BS-04-0-2-01,02	0955	7,10,10	0	100,30,0	HL=1, FL=1
~~MWS-04-5-6½-01~~	~~1020~~			No Recovery	
M~~W~~BS-04-15-16½-01,02,03	1030	25,10,15	0	100,90,40	HL=2, FL=1
M~~W~~BS-04-20-21½-01	1040	50	NA	20%	FL=1
M~~W~~BS-04-25-26½-01	1045	50	NA	20%	FL=1
M~~W~~BS-04-40-41½-01	1115	50	160	10%	FL=1
M~~W~~BS-04-45-46½-01	1130	50	190	10%	FL=1
M~~W~~BS-04-50-51½-01	1140	50	220	10%	FL=1
M~~W~~BS-04-65-66½-01	1250	21,50	300	20%	FL=1
M~~W~~BS-04-70-71½-01	1305	50	300	10%	FL=1
M~~W~~BS-04-99-01	1330	NA	NA	NA	Composite Sample For H.L.
	~~LA~~ MW				
QC ERIB-TB	0700	NA	NA	NA	Trip Blank
← LAST LINE →					

MW Changed MWS to MBS 3/21/91

PREPARED BY: M.A. Sandin

COMMENTS:
(Continued)

DATE

TIME

PAGE ____ OF ____

PAGE

PROJECT NO.

PREPARED BY: ______________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK; I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ____ OF ____ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

IT INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Sky Harbor ANG, Site 3, Monitor Well MW3-01

SAMPLE TYPE: Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: NA

DEPTH OF SAMPLE: See Below

WEATHER: ______

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeves w/ Teflon	
Lined Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
MB3-01-0-1½-01,02,03	0845	12,10,11	0	100,90,90	HL=2 FL=1
MB3-01-5-6½-01,02,03	0900	5,6,6	0	100,100,100	HL=2 FL=1
MB3-01-10-11½-01	0910	30,29,50	NA	85,0,0	HL=1
MB3-01-35-36½-01,02	1010	50	0	80,10	HL=1, R=1
MB3-01-40-41½-01	1030	50	0	20	FL=1
~~MB3-99-0~~ MB3-01-99-01	1030	NA	10	NA	FL=1 (Composite in bin, sl[illegible])
MB3-01-50-51½-01,02	1050	50	0	75,10	HL=1 FL=1
MB3-01-55-56½-01	1105	36,50	0	~~36,50~~ 18	FL=1
MB3-01-60-61½-01,02	1115	32,50	0	90,20	HL=1, R=1

PREPARED BY: Mark A. Harlin

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
	PAGE
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PREPARED BY: ____________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	3	2	2	9	1
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SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER14

SAMPLE LOCATION Well MW3-01 rinsate

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Clear, slight NE breeze 50°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Rinsate of CA sampler

pH: 4.48
Cond: 80 umhos
Temp: 16.1°C

2-40ml w/ HCl
1-1liter w/ HCl
2-1liters w/o HCl

PREPARED BY: J. Tyl...

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
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PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Spoil pile cuttings

SAMPLE TYPE Scoop

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 65°F, cool, calm

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Collect 1 500ml jar sample of spoil cuttings from piezometer well drilling.

Well #	Sample Vol.	Time	Sample #
PS-1	500ml	1340	SC-PS1-1
PS-2	500ml	1400	SC-PS2-1
PS-3	500ml	1330	SC-PS3-1

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE	
TIME	
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PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER15

SAMPLE LOCATION Equip. Rinsate well MW3-02

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Clear, slight SE breeze 60°F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Equipment rinsate of CA sampler

pH = 4.28
Cond = 30 umhos
Temp = 24.3 °C

2 - 40-ml glass w/ HCl
2 - 1-liter glass w/o preservatives
1 - 1-liter glass w/ HCl

PREPARED BY: J. Tyborski

COMMENTS:
(Continued)

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TIME	
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PREPARED BY: ____________________

LEGEND

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10 DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER. APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED. LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

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INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	3	2	4	9	1
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SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - FB6

SAMPLE LOCATION 2nd Order of D.I. water - Field Blank

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 80°+F, high clouds

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

pH = 4.55
Cond = 40 umhos
Temp = 22.1 °C

2-40ml w/ HCl
2-40ml w/ HCl
1-1-liter w/o preservative glass
1-1-liter w/o preservative glass
2-1-liter poly w/ HNO_3
1-500ml poly w/ H_2SO_4
1-1-liter glass w/ HCl

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE

TIME

PAGE ____ OF ____

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PROJECT NO.

PREPARED BY: ____________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED. LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - FBS

SAMPLE LOCATION Field Blank - Pipe truck steam cleaner

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER High clouds, 80°+F

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS: Source:

Pipe truck steam cleaner

pH = 6.43

Cond = 1230 umhos

Temp = 31.2 °C

2 - 40 ml glass w/ HCl

2 - 1 - liter glass no preservative

1 - 1 - liter glass w/ HCl

PREPARED BY: J. Tyburski

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC-ER~~16~~17 II

SAMPLE LOCATION Equip. Rinsate SB3-04

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE N/A

DEPTH OF SAMPLE NA

WEATHER High clouds, 80°+F

CONTAINERS USED	AMOUNT COLLECTED
See below	

COMMENTS:

Equipment Rinsate of CA sampler at soil boring SBB-04

II pH = 4.69
Cond = 40 µmhos
Temp = 26.9 °C

2-40 ml glass w/ HCl
2-1-liter glass no preservative
1-1-liter glass w/ HCl

PREPARED BY: J. Tyburski

COMMENTS: (Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ____________________

LEGEND

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9 COMPOSITE TYPE: I E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 4 9 1
TIME	See Below
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PAGE	
PROJECT NO.	409721-02-06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG, Site 3, Soil Boring SB3-04

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Sunny, Hot, Breeze

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeves w/Teflon-	
Lined Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
SB3-04-0-1½-01,02,03	1400	10,12,14	0	100,90,50	HL=2, FL=1
SB3-04-5-6½-01,02,03,04	1415	17,25,27	0	100,90,50,30	HL=3, FL=1
SB3-04-10-11½-01	1430	50	0	30%	FL=1
SB3-04-15-16½-01	1440	50	NA	70%	HL=1
SB3-04-20-21½-01	1450	50	0	20%	FL=1
SB3-04-35-36½-01	1525	50	0	20%	FL=1
SB3-04-40-41½-01	1535	50	0	10%	FL=1

LAST LINE

PREPARED BY: M. A. Gandini

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.
4. DATE: USE MONTH/DAY/YEAR, I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	3	2	4	9	1
TIME	See Below					
PAGE 1 OF 1						
PAGE						
PROJECT NO. 409921-02-06						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG, Site 3, Soil Boring # SB3-01

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Sunny, Breezy, Cool (am) to Hot (pm)

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass Sleeves w/Teflon-Lined Caps	See Below

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
SB3-01-0-1½-01,02,03	0840	32,24,22	0	100,90,40	HL=2, FL=1
SB3-01-24-01	0930	NA	0	NA	FL=1: Contamination from ~24 ft.
SB3-01-36-01	1000	NA	NA	NA	FL=1: Contamination from SW at ~36 ft
SB3-01-44-01	1015	NA	110	NA	FL=1: Contamination at ~44 ft.
SB3-01-50-51½-01,02	1030	27,53	4	75%, 0%	HL=1 FL=1
SB3-01-63-01	1105	NA	34	NA	FL=1: Contamination at ~63 ft.
SB3-01-69-01	1125	NA	188	NA	FL=1: Contamination at ~69-70 ft.
SB3-01-~~70-71~~ 70-71½-01	1135	~~NA~~ 53	150	10%	FL=1

LAST LINE

PREPARED BY: Mark A. Harding

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	03 25 91
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409321-02-06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG Base

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Site 3, Boring SB3-03

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Overcast, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
Glass Bags	See Below
Sleeves w/ Teflon-	
Lined Caps	

COMMENTS:

Sample #	Time	Bkg Count	HNu Reading	Reading	Comments
SB3-03-0-1½-01,02,03	1150	22,25,34	0	90,100,50	HC=2, FC=2
SB3-03-5-6½-01	1205	25,50	NA	50	HC=1
SB3-03-10-11½-01,02,03	1210	27,32,50	0	100,900,10%	HC=2, FC=1
SB3-03-20-21½-01,02	1255	18,24,31	0	75,30	HC=1, FC=1
SB3-03-34-01	1325	NA	0	NA	FC=1: Composite at N34A
SB3-03-40-41½-01	1335	50	0	20%	FC=1
SB3-03-54-01	1400	NA	0	NA	FC=1: Composite at N54A
SB3-03-74-01	1450	NA	0	NA	FC=1: Composite at N74A

← LAST LINE →

PREPARED BY: M. A. [signature]

COMMENTS:
(Continued)

DATE
TIME
PAGE ____ OF ____
PAGE
PROJECT NO.

PREPARED BY: ____________________

LEGEND

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11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 5 9 1
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409921.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Site 3, Soil Boring SB3-04 (Continued)

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Overcast, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass	See Below
Sleeves w/ Teflon-	
Lined Caps	

COMMENTS:

Sample #	Time	Blow Count	HNu Reading	Recovery	Comments
SB3-04-49-01	0840	~~50~~ NA	0	NA	Fc=2 Cobble at ~49 ft.
SB3-04-68-69½-01	0920	50	0	10%	Fc=1
SB3-04-74-01	0940	NA	0	NA	Fc=1 : Cobbles at ~74 ft.

LAST LINE

PREPARED BY: Mark A. Harlan

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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4 DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC: 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	3	2	5 9	1
TIME	1	4		5	0
PAGE 1 OF 1					
PAGE					
PROJECT NO. 409721					

SAMPLE COLLECTION LOG

PROJECT NAME SkyHarbor ANG

SAMPLE NO. QC-ER16

SAMPLE LOCATION Equipment Rinsate From SB3-03

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Overcast 75°F

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equipment Rinsate of CA sampler

pH = 5.23
Cond = 50 µmhos
Temp = 26.9 °C

2 - 40 ml VOA glass w/ HCl
1 - 1-liter glass w/ HCl
2 - 1-liter glass w/o preservatives

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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11. WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	3	2	3	9	1
TIME	See Below					
PAGE 1 OF 1						
PAGE						
PROJECT NO. 409921.02.06						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG, Site 3, Monitor Well MW3-02

SAMPLE TYPE Soil

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE See Below

WEATHER Sunny, Cool AM - Hot AM, Breeze

CONTAINERS USED	AMOUNT COLLECTED
6-inch Brass Sleeves w/ Teflon-Lined Caps	See Below

COMMENTS:

Sample #	Time	Blow Count	HNU Reading	Recovery	Comments
MB3-02-0-1½-01,02,00	0825	12,12,32	0	90,90,30	HL=2, FL=1
MB3-02-5-6½-01,02,03	0840	24,22,50	0	100,100,30	HL=2, FL=1

← LAST LINE →

PREPARED BY: Mark A. [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-86

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 6 9 1
TIME	~~[illegible]~~ 1155
PAGE	1 OF 1
PAGE	
PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. ~~[illegible]~~ WV-MWS-04-01

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ, ~~Site 3 & MWS-04~~

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Rainy, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
~~2~~ 3 x 40 ml	120 ml ✓
VOA Bottles	

COMMENTS:

pH = 6.78
Conductivity = 1050 µmhos/cm
Turbidity = 25.2 NTU
Temperature = 23.1°C

Collected 3-40 ml VOA's

Sample collected for BTEX, TCE, DCE, DCA for field G.C.

PREPARED BY: M.V. [illegible]

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G, 2 - IL GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 [illegible] 9 1
TIME	[illegible]
PAGE	1 OF
PAGE	
PROJECT NO.	409821.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-MW3-01-01

SAMPLE LOCATION Monitor Well MW3-01

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER ~~[illegible]~~, Breezy, Cool

CONTAINERS USED	AMOUNT COLLECTED
3 x 40 mL	120 mL
VOA Bottles	

COMMENTS:

PH = 6.77
Conductivity = 1000
Turbidity = 18.1
Temp = 22.2

collected 3 - 40ml VOA's

Sample collected for BTEX, TCE, DCE, DCA for field GC

PREPARED BY: Brad Wilkins

COMMENTS:
(Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 3 2 9 9 1
TIME	
PAGE 1 OF ___	
PAGE	
PROJECT NO.	409921.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. WV-MW3-02-01

SAMPLE LOCATION Monitor Well MW3-02

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Rainy, Windy, Cool

CONTAINERS USED	AMOUNT COLLECTED
3 x 40 ml	120 ml
VOA Bottles	

COMMENTS:

PH- 6.83
Conductivity = 1110
TURBIDITY = 10.1
Temp = 22.2

Collected 3-40ml VOA's

sample collected for ~~AF~~ BTEX, TCE, DCE, DCA, Field G.C.

PREPARED BY: Brian Wilkins

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
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4. DATE: USE MONTH/DAY/YEAR: I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
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12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	04 02 91
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PROJECT NO.	409921.03

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ, Purge water Drum Tanks

SAMPLE TYPE Water

COMPOSITE ✓ YES ____ NO

COMPOSITE TYPE Coliwasa Sampler

DEPTH OF SAMPLE X-Section Top to Bottom

WEATHER Sunny, warm, Breezy (W35°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Tank #	Sample #	Time	Amt. Collected
1	T1-01	1600	2x 40 mL (VOA)
			1x 1000 mL Amber Glass (TPH)
2	T2-01	1620	2x 40 mL (VOA)
			1x 1000 mL Amber (TPH)
3	T3-01	1640	2x 40 mL (VOA)
			1x 1000 mL Amber (TPH)
4	T4-01	1650	2x 40 mL (VOA)
			1x 1000 mL Amber (TPH)
5	T5-01	1655	2x 40 mL (VOA)
			1x 1000 mL Amber (TPH)

LAST LINE

PREPARED BY: Mark A. Hentine

COMMENTS:
(Continued)

DATE
TIME
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PROJECT NO.

PREPARED BY: ____________________

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10 DEPTH OF SAMPLE GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 0 3 9 1
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PROJECT NO.	409721.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Warm, Breezy

CONTAINERS USED	AMOUNT COLLECTED
~~See 2~~ NA	NA

COMMENTS:

Sample #	Time	Bottles	Comments
MWS-01-01	1220	10	VOA(2), SVOA(1), TPH(1), Metals (Filtered)(2), TOPb(1), Vinyl Chloride(2), Nitrate/Nitrite(1)
MWS-01-01-TB	1220	2	VOA(2) - Trip Blank
MWS-01-01	1745	3	Metals(2), Nitrate/Nitrite(1)
QC-ER19	1745	3	Metals(2), Nitrate/Nitrite(1) Equip. Rinsate

LAST LINE

PREPARED BY: Mark A. Harlan

COMMENTS:
(Continued)

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TIME						
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PROJECT NO.						

PREPARED BY: ______________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - FB7

SAMPLE LOCATION Tap Water at Field Office

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER 80°F, High clouds

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Collected tap water from office source. Water used in one segment of decon of Bennett pump

4 - 40ml glass w/ HCl
2 - 1-liter glass no pres
1 - 1-liter glass w/ HCl
2 - 1-liter poly w/ HNO_3
1 - 500ml poly w/ H_2SO_4

pH = 7.05
Cond = 780 µmhos
Temp = 22.3 °C

PREPARED BY: J. Tyburski

COMMENTS: (Continued)

DATE						
TIME						
PAGE ____ OF ____						
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PREPARED BY: ____________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409821.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base & Papago Military Reservation, Phoenix, Az.

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (~90°F)

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	Bottles	Comments
MW4-01-01-TB	0700	4	VOA(2), Vinyl Chloride(2) Trip Blank
MW4-02-01	1230	4	VOA(2), Vinyl Chloride(2)
	1240	1	TPH
	1250	1	SVOA
	1320	2	Metals
QC-ER20 ~~MW4-02~~	1340	8	VOA(2), Vinyl Chloride(2), TPH, SVOA(1), Metals(2)

Last Line

PREPARED BY: M.A. Hadnin

COMMENTS:
(Continued)

DATE	
TIME	
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PROJECT NO.	

PREPARED BY: ____________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Soil Cuttings Site 4 (Papago)

SAMPLE TYPE Scoop

COMPOSITE ✓ YES ___ NO

COMPOSITE TYPE Spot sample

DEPTH OF SAMPLE NA

WEATHER 85°F, clear, slight breeze

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Collect 500 ml wide-mouth jar samples from spoil cuttings of piezometers and monitor wells.

Well #	Sample Vol.	Time	Sample #
PP-1 & PP-2 composite	500 ml	1040	SC-PP1-01
MW4-01	500 ml	1430	SC-MW4-01-01
MW4-02 & PP-3 composite	2-500 ml	1445	SC-MW4-02-01

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE	
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PREPARED BY: ____________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. QC - ER21

SAMPLE LOCATION Equipment Rinsate from disposable bailer (MW3-02)

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Breezy, clear, 95°F

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Equipment Rinsate of disposable Bailer

pH = 6.58
Cond = 10 umhos
Temp = 27.9 °C

4 - 40ml glass w/ HCl
2 - 1-liter glass no pres.
1 - 1-liter glass w/ HCl
2 - 1-liter ~~glass~~ poly w/ HNO_3
1 - 500ml poly w/ H_2SO_4

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ______________________

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9 COMPOSITE TYPE: I E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409721.02.06

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, Az

SAMPLE TYPE WATER

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	Bottles	Comments
MW3-02-01-TB	0700	4	VOA(2), Vinyl Chloride(2) TRIP Blank
MW3-02-01	1245	7	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1) TOPO
MW3-02-01-Dup	1250	7	Duplicate of MW3-02-01.

PREPARED BY: M. Gardiner
signature by J. Tyburski

COMMENTS: (Continued)

DATE	
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PREPARED BY: ______________________

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409326.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	# Bottles	Comments
MW4-01-01	1400	8	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1), Metals(2)
QC-ER22	1415	8	Same As Above
MW4-01-01-TB	1200	4	VOA(2), Vinyl Chloride(2)

← LAST LINE →

PREPARED BY: M.A. [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____________________

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13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409326.32.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	# Bottles	Comments
PS-2-01	1200	7	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1), Turb(1)
~~PS-2-01~~ QC-ER23	1215	7	Same as Above.
PS-2-01-TB	0700	4	VOA(2), Vinyl Chloride(2)/ Trip Blank

Rinsate: pH = 6.10
Parameters Cond = 0.010
Temp = 34.7
Turb. = 0.50

PREPARED BY: M. A. [signature]

COMMENTS:
(Continued)

DATE
TIME
PAGE ____ OF ____
PAGE
PROJECT NO.

PREPARED BY: ____________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A
4. DATE: USE MONTH/DAY/YEAR; I.E., 10/30/85
5. TIME: USE 24-HOUR CLOCK, I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC
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8. SAMPLE TYPE: USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE, DRUM CONTENTS, OIL, VEGETATION, WIPE, SEDIMENT
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	04 10 91
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409324.02.05

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Sky Harbor Air Base, Phoenix, AZ

SAMPLE TYPE: Water

COMPOSITE: ___ YES ✓ NO

COMPOSITE TYPE: NA

DEPTH OF SAMPLE: NA

WEATHER: Sunny, Breezy, Hot (90°)

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	# Bottles	Comments
MW2-02-01	1100	8	VOA (2), Vinyl Chloride (2), TPH (2), SVOA (2), Metals (2)
MW2-02-01-MS	1115	8	Same as above
MW2-02-01-MSD	1130	8	Same as above
MW2-02-01-TB	0900	4	VOA (2), Vinyl Chloride (2), Trip Blank
MWS-03-01A	1700	10	VOA (2), Vinyl Chloride (2), TPH (2), SVOA (2), Metals (2), Nitrogen (2), TOC
QC-ER24	1715	10	Same as above

Turbidity: 1.54 NTU

Temp: 31.4 °C

pH: 5.17

~~S~~ Cond: 0.010 [illegible]

PREPARED BY: M. A. [illegible] (signature)

COMMENTS: (Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.
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8. SAMPLE TYPE: USE THE FOLLOWING - SOIL; WATER (SURFACE OR GROUND); AIR (FILTERS, TUBES, AMBIENT, PERSONNEL), SLUDGE, DRUM CONTENTS, OIL, VEGETATION; WIPE, SEDIMENT
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	04 11 91
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409324.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, ~~Hot~~ Warm (≈80°F)

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	# Bottles	Comments
MW5-04-01	1050	7	VOA(2) Vinyl Chloride(1) TPH(1), SVOA(1), TOPb(1)
MW3-01-01	1630	7	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1), TOPb(1)
MW3-01-01-TB	0700	4	VOA(2) Vinyl Chloride(2) / Trip Blank
QC-ER25	1730	7	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1), TOPb(1)

Rinsate Parameters:

~~Conductivity~~ Turbidity = 0.31 ~~umhos/cm~~

Temp = 26.8°C

pH = 5.78

~~Cond~~

Conductivity = 10.

PREPARED BY: M.A. Harding

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE, DRUM CONTENTS OIL, VEGETATION, WIPE, SEDIMENT

9 COMPOSITE TYPE: I E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).

13 AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0	4	1	2	9	1
TIME	See Below					
PAGE 1 OF 1						
PAGE						
PROJECT NO. 409926.02.05						

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, ~~Hot~~ Warm (~85°F)

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Time	# Bottles	Comments
MWS-02-01	1030	10	VOA(1), Vinyl Chloride(1), TPH(1), SVOA(1), Metals(1), Nitrate/Nitrite, TOPb(1)
QC-ER26	1130	10	VOA(1), Vinyl Chloride(1), TPH(1), SVOA(1), Metals(1), Nitrate/Nitrite(1), TOPb(1)

Rinsate Parameters:

pH = 5.47
Cond = 10
Temp = 24.7°C
Turbidity = 0.87 [illegible]

PREPARED BY: M.A. [illegible]

COMMENTS:
(Continued)

DATE

TIME

PAGE ____ OF ____

PAGE

PROJECT NO.

PREPARED BY: ________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

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8 SAMPLE TYPE USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE; DRUM CONTENTS OIL, VEGETATION, WIPE SEDIMENT

9 COMPOSITE TYPE: I E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11 WEATHER APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR)

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 5 9 1
TIME	1300
PAGE 1 OF 1	
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PROJECT NO.	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See below

SAMPLE LOCATION Sky Harbor ANG Base Phoenix AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy 85°F

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #		Time	Bottles	Comments
MW2S-01-01A		1300	10	VOA(2) Vinyl Chloride(2) TPH(1), SVOA(1) nitrate/nitrite(1) TOPb(1) metals(1) Mercury(1)
		Time	Bottles	Comments
Rinsate	QC-ER27	1645	10	VOA(2) Vinyl Chloride(2) TPH(1) SVOA(1) Nitrate/Nitrite(1), TOPb(1) Metals,(1) Mercury(1)

Rinsate Parameters	PH	Temp	Cond	Turbidity
	4.62	28.2	30	4.20

PREPARED BY: Cindu Darr

COMMENTS:
(Continued)

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TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 6 9 1
TIME	See Below
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PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Site 4 Soil Cuttings

SAMPLE TYPE Composite

COMPOSITE ✓ YES ____ NO

COMPOSITE TYPE Scoop

DEPTH OF SAMPLE NA

WEATHER 55°F, slight North breeze

CONTAINERS USED	AMOUNT COLLECTED
See Below	

COMMENTS:

Resample of Site 4 soil cuttings stored on plastic.

Sample #	Volume	Container	Time	Comments
SC-PP1-01A	2-500ml jar	glass-widemouth	0900	PP1 & PP2
SC-MW4-01-01A	500ml jar	glass-widemouth	0935	Well MW4-01
SC-MW4-02-01A	2-500ml jar	glass-widemouth	0940	Wells PP-03 and MW4-02

PREPARED BY: J. Tyburski

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G . 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE: 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	04 16 91
TIME	See Below
PAGE 1 OF 1	
PAGE	
PROJECT NO. 409721	

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix Az.

SAMPLE TYPE ground water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER breezy, cool 70°F

CONTAINERS USED	AMOUNT COLLECTED

COMMENTS:

Sample #	Bottles	Time	Comments
MW4-02-01A	8	1130	VOA(2), Vinyl Chloride(2) TPH(1), Metals(1) Mercury(1) SVOA(1)
MW5-01-01A	3	1545	Metals(1), Mercury(1) Nitrate Nitrite(1)
MW5-01-01A-DUP	3	~~1630~~ 00 1545	Metals, Mercury(1) Nitrate/Nitrite(1)
QC-ER28	3	1630	Metals(1) Mercury(1) Nitrate/Nitrite(1)

Parameters	PH	Temp	Conductivity
	4.63	32.4°C	20 µmhos

cal't line ⟵⟶

PREPARED BY: Cindie Darr

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

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10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 7 9 1
TIME	See below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See below

SAMPLE LOCATION See below

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny Warm getting hot

CONTAINERS USED	AMOUNT COLLECTED
CD ~~See below~~	~~See below~~ CD
NA	NA

COMMENTS:

Sample #	Bottles	Time	Comments
MW3-02-01A	7	1250	VOA(2) TPH(1) Vinyl Chloride(2) SVOA(1) Tot. Org. Pb(1)
MW3-02-01A-Dup	7	1250	VOA(2) TPH(1) Vinyl Chloride(2) SVOA(1) Total Org. Pb(1)
QC-ER29	7	~~1445~~ 1530 CD	VOA(2) Vinyl Chloride(2) TPH(1), SVOA(1) Tot. Org Pb(1)

QC Parameters	Time	PH	Temp	Conductivity	Turbidity
	~~1445~~ 1530 CD	5.45	22.2	60	0

Last line ⟵⟶

PREPARED BY: Cindie Darr

COMMENTS: (Continued)

DATE						
TIME						
PAGE ____ OF ____						
PAGE						
PROJECT NO.						

PREPARED BY: ______________________

LEGEND

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12. CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 7 9 1
TIME	See below
PAGE 1 OF 1	
PAGE	
PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix AZ.

SAMPLE TYPE Water

COMPOSITE ____ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny Warm hot

CONTAINERS USED	AMOUNT COLLECTED
NA	NA

COMMENTS:

Sample #	Bottles	Time	Comments
MW3-02-01A-TB	4	11:00	VOA (2) Vinyl Chloride (2)

PREPARED BY: C. Darr
by J. Tyburski

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ______________________

LEGEND

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4 DATE USE MONTH/DAY/YEAR. I.E., 10/30/85

5 TIME USE 24-HOUR CLOCK. I.E., 1835 FOR 6 35 P M

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9 COMPOSITE TYPE. I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "

11 WEATHER. APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12 CONTAINERS USED LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE, 1 - 8 OZ. GLASS JAR)

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL)

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	04 18 91
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PAGE	
PROJECT NO.	407921

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor ANG Base, Phoenix Az ~~SCD~~

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE ~~9CD~~ NA

WEATHER Sunny. Cool

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Bottles	Time	Comments
MW1-02-01A	6	1020	VOA(2) Vinyl Chloride(2) TPH(1) SVOA(1)
QC-ER30 ~~MW1-02-01A~~ Rinsate	6	11 30	VOA(2) Vinyl Chloride(2) TPH(1) SVOA(1)

Rinsate Parameters	Ph	Temp.	Conductivity	Turbidity
	5.59	22.0	20	.89

Sample #	Bottles	Time	Comments
MW1-02-01A-TB	4	0800	VOA(2) Vinyl Chloride(2)

PREPARED BY: Cindi Dorr

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
	PAGE
	PROJECT NO.

PREPARED BY: ____________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED. IF NOT APPLICABLE MARK N/A.

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR "

11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS

12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E G , 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 9 9 1
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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. ~~SA~~ CD QC-FB8

SAMPLE LOCATION Sky Harbor ANG, Base, Phoenix Az.

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny cool

CONTAINERS USED	AMOUNT COLLECTED
na	na

COMMENTS:

Sample #	Bottles	Time	Comments
QC-FB8	10	0745	TPH(1), VOA(2), SVOA(1) Vinyl Chloride(2) Metals(1) Mercury(1) Nitrate/Nitrite(1), Total Organic Pb(1)

Parameters	PH	Temp	Conductivity	Turbidity
	5.57	22.6	120	.25

QC-FB8-TB	4	0700	VOA(2), Vinyl Chloride(2)

Vet line

PREPARED BY: Cindie Darr

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
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PREPARED BY: ____________________

LEGEND

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9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE
10. DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS, 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR)
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 4 1 8 9 1
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PROJECT NO.	409721

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION See Below for tank # Sky Harbor ANG Base

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny Cool

CONTAINERS USED	AMOUNT COLLECTED
See below	See below

COMMENTS:

Tank #	Sample #	Time	Amt Collected
1	T1-01-01A	0950	2x40ml (VOA)
			1x1000 ml Amberglass (TPH)
2	T2-01-01A	1000	2x40ml (VOA)
			1x1000 ml Amberglass (TPH)
3	T3-01-01A	1015	2x40ml (VOA)
			1x1000 ml amber glass (TPH)
4	T4-01-01A	1025	2x40ml (VOA)
			1x1000 ml amber glass (TPH)
5	T5-01-01A	1035	2x40ml (VOA)
			1x1000 ml Amber glass (TPH)

← Last Line

PREPARED BY: Cindie Darr

COMMENTS:
(Continued)

DATE	
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PAGE ____ **OF** ____	
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PREPARED BY: ______________________

LEGEND

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2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY.

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9 COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.

10 DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR ".

11 WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.

12 CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL, 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

129-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

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PROJECT NO.	409921.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, Az

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (9_ °F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
MW1-02-02	1200	6	VOA(a), Vinyl-Chloride(a), TPH(c), SVOA(c)
MW1-02-02-TB	0730	4	VOA(a), Vinyl Chloride(a) TRIP BLANK
MWS-01-02	1555	10	VOA(a) Vinyl Chloride(a) TPH(c) SVOA(c), Metals(a), TDP(a), Nitrate/Nitrite(c)
QC-ER30	1630	10	Same As Above for MWS-01-02 Rinsate Sample.

Rinsate Parameters

pH = 6.01

Temperature = 42.1°C

Conductivity = 10.0 µmhos/cm

Turbidity = 0.25 NTU

← LAST LINE →

PREPARED BY: M.A. [signature]

COMMENTS: (Continued)

DATE
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PROJECT NO.

PREPARED BY: M. Q. [illegible]

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 6 2 6 9 1
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PROJECT NO.	409921.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, Az

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (≈100°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
MW5-01-02	1100	3	Metals[1], Nitrate/Nitrite[1]
~~MW~~ QC-EA31	1115	~~3~~ 3	Same as above (MW5-01-02)
MW2-02-02	1515	8	VOA[2], Vinyl Chloride[2], TPH[2], SVOA[2], Metals[2]
MW2-02-02-MS	~~1515~~ 1530	8	Same as above for MW2-02-02. Matrix Spike
MW2-02-02-MSD	~~1530~~ 1545	8	Same as above for MW2-02-02. Matrix Spike Dup.
MW5-01-02-TB	0700	4	VOA[2], Vinyl Chloride[2], Trip Blank

Rinsate Parameters

pH : 6.44

Temperature : 31.6 °C

Conductivity = 10 µmhos/cm

Turbidity = 0.66 NTU

Sample #	Time	# Bottles	Comments
MW2-02-02-TB	0700	4	VOA[2] Vinyl Chloride[2], Trip Blank

← Last Line →

PREPARED BY: M. A. [signature]

COMMENTS:
(Continued)

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PREPARED BY: ____________________

LEGEND

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	06	27	91
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PROJECT NO. 409921.02.05			

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, Az

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (≈100°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
MW4-02-02	1135	8	VOA(4), Vinyl Chloride(2), TPH(2), SVOA(2), Metals(2)
MW4-01-02	1235	4	VOA(2), Vinyl Chloride(2). Collected Volatiles only. Semi's & other collected tomorrow.
QC-ER32	1210	8	~~VOA(4), Vinyl~~ Same as above for sample MW4-02-02

Rinsate Parameters

pH = 5.96

Temperature = 35.1°C

Conductivity = 10 µmhos/cm

Turbidity = 0.20 NTU

← LAST LINE →

PREPARED BY: M.A. [signature]

~~COMMENTS: (Continued)~~

~~DATE~~		
~~TIME~~		
~~PAGE ____ OF ____~~		
~~PAGE~~		
~~PROJECT NO.~~		

PREPARED BY: ________________

LEGEND

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9. COMPOSITE TYPE: I.E., 24-HOUR. LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE.

10. DEPTH OF SAMPLE: GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES. FEET DON'T USE ' OR "

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13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

IT INTERNATIONAL TECHNOLOGY CORPORATION

DATE	06 27 91
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PROJECT NO.	409921.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (~95°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
QC-FB9	1730	10	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(1), TOPb(1), Metals(2), Nitrate/Nitrite(2), 4 # Order of DI water

Parameters

pH = 5.83
Temperature = 23.5 °C
Conductivity = 10 µmhos/cm
Turbidity = 0.18 NTU

LAST LINE

PREPARED BY: M.A. [signature]

COMMENTS:
(Continued)

DATE						
TIME						
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PAGE						
PROJECT NO.						

PREPARED BY: ____________________

LEGEND

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12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	06 28 91
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PAGE	
PROJECT NO.	409931.02.05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, AZ

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (~100°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
MW4-01-02	0745	4	TPH,(1) SVOA,(2) Metals(1) Remainder of sample collected yesterday.
QC-ER33	1025	8	VOA(2), Vinyl Chloride(2), TPH(1), SVOA(2), Metals(1). Equipment Rinsate of MW4-01.
MW4-01-02-TB	0700	4	VOA(2) Vinyl Chloride(2) Trip Blank
MW5-04-02	1115	7	VOA(2), Vinyl Chloride(2), TPH(1), ~~SO~~ SVOA(2), TOPh(1)
MW3-02-02	1500	7	Same as above for MW5-04-02
MW3-02-02-Dup	1515	7	Same as above for MW3-02-02

Rinsate Parameters

pH = ~~3.4~~ 5.85

Temperature = 28.4 °C

Conductivity = 10 µmhos/cm

Turbidity = 0.40 NTU

Last Line

PREPARED BY: M. U. Hawkins

COMMENTS:
(Continued)

DATE
TIME
PAGE ____ OF ____
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PROJECT NO.

PREPARED BY: ____________________

LEGEND

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5. TIME: USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
6. PAGE: EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY, I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
7. SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
8. SAMPLE TYPE: USE THE FOLLOWING - SOIL; WATER (SURFACE OR GROUND), AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE; DRUM CONTENTS; OIL; VEGETATION; WIPE; SEDIMENT.
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE: GIVE UNITS, WRITE OUT UNITS SUCH AS INCHES, FEET DON'T USE ' OR ".
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - IL GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC; 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 6 2 9 9 1
TIME	See Below
PAGE	1 OF
PAGE	
PROJECT NO.	409921 .02.05

SAMPLE COLLECTION LOG

PROJECT NAME: Sky Harbor ANG

SAMPLE NO.: See Below

SAMPLE LOCATION: Sky Harbor Air National Guard Base, Phoenix, Az

SAMPLE TYPE: Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE: NA

DEPTH OF SAMPLE: NA

WEATHER: Sunny, Breezy, Hot (°F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
MWS-03-02-TB	0700	4	VOA(4), Vinyl Chloride(2)
MWS-03-02	0830	10	VOA(4), Vinyl Chloride(2), TPH(1), SVOA(1), Metals(1), TOC(1), Nitrate/Nitrite(1)
MWS-02-02	1220	10	Same as Above for MWS-03-02
MWS-02-02-Dup	1240	10	Same as Above for MWS-02-02. Duplicate Sample
MWS-01-02	1655	7	VOA(4), Vinyl Chloride(1), TPH(1), SVOA(1), TOC(1)
~~MWS~~-QC-ER34	1715	7	Same as Above for MWS-01-02

Rinsate Parameters

pH = 6.40

Temperature = 38.6 °C

Conductivity = 10 μmhos/cm

Turbidity = 0.31 NTU

PREPARED BY: ____________

COMMENTS: (Continued)	DATE
	TIME
	PAGE ____ OF ____
	PAGE
	PROJECT NO.

PREPARED BY: ____________________

LEGEND

1. A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.
2. ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED, DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY
3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.
4. DATE USE MONTH/DAY/YEAR: I.E., 10/30/85
5. TIME USE 24-HOUR CLOCK: I.E., 1835 FOR 6:35 P.M.
6. PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE ______ OF ______ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY I.E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24, 2 OF 24, ETC.
7. SAMPLE LOCATION: USE BORING OR MONITORING WELL NUMBER, GRID LOCATION (TRANSECT), SAMPLING STATION I.D., OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES. INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.
8. SAMPLE TYPE USE THE FOLLOWING - SOIL, WATER (SURFACE OR GROUND); AIR (FILTERS, TUBES, AMBIENT, PERSONNEL); SLUDGE; DRUM CONTENTS OIL, VEGETATION; WIPE, SEDIMENT
9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE, SPATIAL COMPOSITE.
10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES, FEET. DON'T USE ' OR "
11. WEATHER: APPROXIMATE TEMPERATURE, SUN AND MOISTURE CONDITIONS.
12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER, VOLUME, MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC, 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).
13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

125-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	06 30 91
TIME	See Below
PAGE	1 OF 1
PAGE	
PROJECT NO.	409921 .02 .05

SAMPLE COLLECTION LOG

PROJECT NAME Sky Harbor ANG

SAMPLE NO. See Below

SAMPLE LOCATION Sky Harbor Air National Guard Base, Phoenix, Az

SAMPLE TYPE Water

COMPOSITE ___ YES ✓ NO

COMPOSITE TYPE NA

DEPTH OF SAMPLE NA

WEATHER Sunny, Breezy, Hot (9_ °F)

CONTAINERS USED	AMOUNT COLLECTED
See Below	See Below

COMMENTS:

Sample #	Time	# Bottles	Comments
PS-02-02	1110	7	VOA(3), Vinyl Chloride(2), TPH(1), SVOA(1), TOC(1)
QC-ER35	1130	7	Same as above for PS-02-02

Rinsate Parameters

pH = 6.77

Temperature = 46.9 °C

Conductivity = 10 μmhos/cm

Turbidity = 0.16 NTU

LAST LINE

PREPARED BY: M.A. [signature]

COMMENTS:
(Continued)

DATE	
TIME	
PAGE ____ OF ____	
PAGE	
PROJECT NO.	

PREPARED BY: ____________________

LEGEND

1 A SAMPLE COLLECTION LOG IS TO BE COMPLETED FOR EACH SAMPLE.

2 ALWAYS COMPLETE BOTH SIDES. IF SECOND SIDE IS NOT USED. DRAW A LINE THROUGH IT AND MARK N/A. FILL IN CONTROL BLOCK AND PREPARED BY

3. ALL ENTRIES ON LOG ARE TO BE COMPLETED, IF NOT APPLICABLE MARK N/A.

4 DATE. USE MONTH/DAY/YEAR: I E.. 10/30/85

5 TIME. USE 24-HOUR CLOCK. I E., 1835 FOR 6:35 P M

6 PAGE EACH SAMPLE TEAM SHOULD NUMBER PAGE _____ OF _____ FOR THE DAY'S ACTIVITIES FOR ALL SHEETS PREPARED ON A SINGLE DAY. I E., IF THERE ARE A TOTAL OF 24 PAGES (INCLUDING FRONT AND BACK) NUMBER 1 OF 24. 2 OF 24. ETC

7 SAMPLE LOCATION USE BORING OR MONITORING WELL NUMBER. GRID LOCATION (TRANSECT). SAMPLING STATION I D . OR COORDINATE TO PHYSICAL FEATURES WITH DISTANCES INCLUDE SKETCH IN COMMENT SECTION IF NECESSARY.

8 SAMPLE TYPE USE THE FOLLOWING - SOIL. WATER (SURFACE OR GROUND). AIR (FILTERS. TUBES. AMBIENT. PERSONNEL); SLUDGE; DRUM CONTENTS OIL. VEGETATION; WIPE. SEDIMENT

9. COMPOSITE TYPE: I.E., 24-HOUR, LIST SAMPLE NUMBERS IN COMPOSITE. SPATIAL COMPOSITE.

10. DEPTH OF SAMPLE. GIVE UNITS. WRITE OUT UNITS SUCH AS INCHES. FEET DON'T USE ' OR ".

11 WEATHER: APPROXIMATE TEMPERATURE. SUN AND MOISTURE CONDITIONS.

12. CONTAINERS USED: LIST EACH CONTAINER TYPE AS NUMBER. VOLUME. MATERIAL (E.G., 2 - 1L GLASS; 4 - 40 ML GLASS VIAL; 1 - 400 ML PLASTIC. 1 - 3 INCH STEEL TUBE; 1 - 8 OZ. GLASS JAR).

13. AMOUNT COLLECTED: VOLUME IN CONTAINERS (E.G. 1/2 FULL).

128-10-85

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG			
DATE	07	02	91
NO.			
SHEET 1	OF 1		

PROJECT NAME: Sky Harbor ANG

PROJECT NO. 409721.02.05

FIELD ACTIVITY SUBJECT: Perform Slug Tests on Wells; Continue closing site office.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0600: Arrive site, Start paperwork. Review Datalogger Manual, Prep Equipment for slug tests, load equip.

0715: Pick up J. Boyd at Airport.

0730: Return to site. Load equip. Prep to do tests.

0820: Pick up Redox truck to haul drums.

0930: Back w/ truck. Mobilize to MWS-01.

0945: Set up at MWS-01. Decon slug. Prep Datalogger.

1000: Start tests.

1300: Repeated problems w/ logger suggest heat affecting the instrument. Could not duplicate 1st test, lost all data in RAM, Extraneous data printing even after clearing memory. Return to office, call Steve Sharp in Knoxville. Suggests working inside rest of today — heat is problem.

1700: Pick up drums at three well sites. Return to office.

1800: Depart site. Stop.

VISITORS ON SITE:

NA

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS.

NA

WEATHER CONDITIONS:

Sunny, light breeze, very hot, ~ 110°F

IMPORTANT TELEPHONE CALLS:

NA

IT PERSONNEL ON SITE: Mark Gardiner, John Boyd

SIGNATURE: Mark A. Gardiner

DATE: 7/2/91

327A-7-86

REV. DATE: MAY 1990

Sample ID No.: MWS-01-01

MONITORING WELL PURGING LOG

WELL NO.: MWS-01

Installation: Sky Harbor ANG Base

Site: Background Well

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 4/5/91 (Time) 1010 Purge End: (Date) 4/5/91 (Time) 1300

Purged by: Gardiner, Boyd, Tubman

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other

Well Hdspace/Odor: ND LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50 /100

Depth to LNAPL: ND ~~Depth to DNPL:~~ Orig. DTW: 73.28 Final DTW: 73.30

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.80

(-) Orig. DTW: ~~26.52~~ 73.28

(=) Wtr Col. Thick.: 26.52 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9 7/8" - 1.91 Gals/ft (=) 50.6 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) 151.8 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Redi-Flo 1800 Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Breezy, Warm (~80 °F)

1010

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.u)	Cond. (umhos/m)	Turbidity (NTu)	Other	Comment
1017	7	10	73.	95	23.4	6.98	1140	6.05		
1024		20			22.8	7.15	1180	7.11		
1035		40			23.0	7.16	1190	2.41		
1046		60			22.9	7.18	1180	1.06		
1057		80			23.1	7.20	1170	0.95		
1110		100			22.9	7.15	1180	0.78		
1120		120			22.9	7.25	1170	0.72		
1131		140			22.9	7.30	1190	0.64		
1136		150		95	22.8	7.31	1190	0.65		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	Sample ID No.: MWS-01-01
	WELL NO.: MWS-01
Installation: Cey Harbor ANG Base	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 4/3/91 (Time) 1210	Sample End: (Date) 4/3/91 (Time) 1255
Sampled by: Gardini, Boyd, Tidwell	

Orig. SWL: 73.28 ft BTOC* Final SWL: 73.30 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
7.08			
23.4	7.11	1180	50.3

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Warm (~ 80 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, Nitrate/Nitrite, TOPb

Metals: (Circle) Filtered ~~Unfiltered~~ JT 4-5-91 Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Samples collected at 1255. Filtered metals subsequently

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

FIGURE 5-6a

REV. DATE: MAY 1990

Sample ID No.: MWS-01-01A

MONITORING WELL PURGING LOG

WELL NO.: MWS-01

Installation: Sky Harbor Coordinates

Site:

HAZWRAP Contractor: IT Corp

Project No.: 409721.02.05

Purge Start: (Date) 4-15-91 (Time) 1035 Purge End: (Date) 4-15-91 (Time)

Purged by: Tyburski / Darr / Boyd

Depth Measurement Ref. Point*: Top of Casing Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: NA L NAPL Check (Y/N) DNAPL Check (Y / N)

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 21

Depth to Top and Bottom of Screen Interval 50' to 100'

Depth to LNAPL: ND ~~Depth to DNPL~~ Orig. DTW: 68.82 Final DTW: Not recorded

LNAPL/DNAPL Thickness NA LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.80

(-) Orig. DTW: 68.82

(=) Wtr Col. Thick.: 30.98 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9 3/4 - 1.91 Gals/ft (=) 59.2 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 177 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☒ Other

Purging Equipment (Make, Model, etc.) Bennett Pump Model 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y/ N) Avge Purge Rate: 2.5 gpm

Weather: warm, breezy (85 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1035		—								
1046		20			23.6	6.80	1240	1.25		
1100		40			23.4	6.65	1240	1.20		
1110		60			23.2	6.65	1230	1.02		
1120		80			23.2	6.67	1240	1.16		
1133		100			23.2	6.70	1240	1.46		
1143		120			23.2	6.65	1240	1.90		
1155		140			23.1	6.91	1240	1.40		Compressor out of gas
1225		160			23.3	6.87	1260	1.40		
1236		180			23.3	6.89	1240	2.01		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19

FIGURE 5-6 b

MONITORING WELL SAMPLING LOG	
Sample ID No.:	
WELL NO.: MWS-01-1A	
Installation: Sky Harbor Coordinates	Site: ANG
HAZWRAP Contractor: I T Corp	Project No.: 409721
Sample Start: (Date) 4-15-91 (Time) 1300	Sample End: (Date) 4-15-91 (Time) 1325
Sampled by: Tyburski / Darr / Boyd	

Orig. SWL: 68.82 ft BTOC* Final SWL: 68.78 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.5	6.85	1250	46

Are parameters 20% of purge values? (Y) / N

Repurge Y / (N)

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☒ Bailer ☒ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other

Sampling Equipment (Make, Model, etc.) geopump used for filtering metals

Sample Equipment Decon'd? (Y) / N

If pump or discrete bailer; Depth(s) where pump set: ft. BTC

Weather: Warm, calm (85 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TC

Others:

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / (N) Referee Dups.: Y / (N)

Comments:

Sample MWS-01 at 1300 hrs.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	
	Sample ID No.: MWS-02-02
	WELL NO.: MWS-02
Installation: Sky Harbor ANG Base	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 4/12/91 (Time) 0820	Purge End: (Date) 4/12/91 (Time) 1040
Purged by: Gardner / Boyd / [illegible]	

Depth Measurement Ref. Point*: T.O.C Well Csg ID: 2" (4") 6" Other ____

Well Hdspace/Odor: 70ppm w/HNu at well head dropped to ND after 2 min L NAPL Check (Y) N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ ____ Orig. DTW: 68.20 Final DTW: 68.18

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.98

(-) Orig. DTW: 68.20

(=) Wtr Col. Thick.: 31.78 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅞" - 1.91 Gals/ft (=) 60.7 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 182 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ____

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? (Y) N

Purge Wtr Containerized? (Y) N) Avge Purge Rate: ~ 2 gpm

Weather: 0820 Sunny, Breezy, Hot (°F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0826	6	10	68.20	95	22.1	6.89	1220	2.36		
0832		20			22.1	6.95	1220	1.86		
0844		40			22.2	6.95	1220	1.12		
0855		60			22.4	6.97	1220	1.20		
0906		80			22.4	7.14	1220	1.02		
0918		100			22.5	7.21	1220	1.06		
0930		120			22.6	7.22	1220	0.98		
0940		140			22.6	7.20	1220	1.07		
0952		160	68.18	95	22.6	7.20	1210	0.96		
1040		167			22.5	7.32	1140	14.50		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

Sample ID No.: MWS-02-01	
MONITORING WELL SAMPLING LOG	WELL NO.: MWS-02
Installation: ~~IT Corporation~~ Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409821.02.05
Sample Start: (Date) 4/12/91 (Time) 1015	Sample End: (Date) 4/12/91 (Time) 1040
Sampled by: Gardin / Bond / Thurman	

Orig. SWL: 68.20 ft BTOC* Final SWL: 68.18 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.5	7.32	1140	14.50

Are parameters 20% of purge values? Y / N Except Turbidity

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, ~~Hot~~ Warm (~85 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, Nitrate / Nitrite, TD Pb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: ~~Y~~ N JT 4-16-91 Referee Dups.: Y / N

Comments:

Sample MWS-02-01 at 1030 hours & ~~Duplicate MWS-02-01-Dup~~ QG-ER26 JT 4-16-91 at 1130 hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MW5-03-01
	WELL NO.: MW5-03
Installation:	Site: Background
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 4/5/91 (Time) 1455	Purge End: (Date) 4/5/91 (Time) 1616
Purged by: Gardiner / Boyd / Tyburski	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: ND LNAPL Check (Y / N) DNAPL Check (Y / N)

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ Orig. DTW: 71.75 Final DTW: 71.41

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.80

(-) Orig. DTW: 71.75

(=) Wtr Col. Thick.: 28.05 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9 5/8" - 1.91 Gals/ft (=) 53.58 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 160.73 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? Y / N

Purge Wtr Containerized? (Y) N) Avge Purge Rate: 2 gpm

Weather: Sunny, Breezy, Hot (~92 °F)

1455

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1459	4	10	71.75	95	23.1	7.06	1490	1.11		
1505		20			23.0	7.04	1510	1.05		
1516		40			23.1	7.02	1490	0.94		
1522		60			23.1	7.05	1480	0.94		
1538		80			23.0	7.01	1490	0.81		
1550		100			23.1	7.03	1490	0.99		
1600		120			23.0	7.06	1510	1.23		
1610		140			23.0	7.05	1490	0.72		
1616		150	71.41	95.	22.9	7.04	1500	1.20		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	Sample ID No.: MWS-03-01
	WELL NO.: MWS-03
Installation: S[illegible]	Site: B[illegible] Well
HAZWRAP Contractor: IT Corporation	Project No.:
Sample Start: (Date) 4/5/91 (Time) 1645	Sample End: (Date) 4/5/91 (Time)
Sampled by: [illegible] / [illegible] / [illegible]	

Orig. SWL: 71.75 ft BTOC* Final SWL: 71.41 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.0	6.87	1410	130.1

Are parameters 20% of purge values? Y / N Except Turbidity

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, HOT (~95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Nitrate/Nitrite, Vinyl Chloride, TO Pb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MWS-03-01 ; 1645

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MWS-03-01A

MONITORING WELL PURGING LOG

WELL NO.: MWS-03

Installation: Sky Harbor ANG

Site: Background Well

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 4/10/91 (Time) 1430 Purge End: (Date) 4/10/91 (Time) 1705

Purged by: [illegible] / Boyd / Tyburn

Depth Measurement Ref. Point*: T.O.C Well Csg ID: 2" 4" 6" Other ______

Well Hdspace/Odor: ______ LNAPL Check (Y / N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ ______ Orig. DTW: 69.82 Final DTW: 69.74

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.80

(-) Orig. DTW: 69.82

(=) Wtr Col. Thick.: 29.98 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅝" - 1.91 Gals/ft (=) 57.3 Gals/Csg Vol. (x) 1 2 3 4 5 Csg Vol. (=) 171.8 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? Y N

Purge Wtr Containerized? Y N) Avge Purge Rate: ~ 1 ½ gpm

Weather: Sunny, hot, breezy (90 °F)

1430

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/m)	Turbidity (NTU)	Other	Comment
1436	6	10	69.82	95	23.1	6.96	1340	2.64		
1442		20			22.9	7.00	1340	2.29		
1457		40			22.9	7.00	1350	2.06		
? 1520		60			22.9	6.97	1350	1.59		
1525		80			22.9	7.01	1350	1.51		
1539		100			22.8	6.98	1340	1.57		
1554		120			22.8	6.97	1360	1.35		
1607		140			22.6	7.00	1340	1.73		
1621		160			22.6	7.01	1350	1.40		
1705		167	69.74	95	22.5	6.94	1280	16.60		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 1990

Sample ID No.: MWS-03-01A	
MONITORING WELL SAMPLING LOG	WELL NO.: MWS-03
Installation: FT Smith Harbor ANG	Site: Background well
HAZWRAP Contractor: IT Corporation	Project No.: 409821.02.06
Sample Start: (Date) 4/10/91 (Time) 1645	Sample End: (Date) 4/10/91 (Time) 1705
Sampled by: Garcia / Bond / Tyrwam	

Orig. SWL: 69.82 ft BTOC* Final SWL: 69.74 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.5	6.94	1280	16.60

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1 ½" Teflon Bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (~95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, Nitrate/Nitrite, TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Samples collected at 1700 hours, MWS-03-01A (This is a redo sample of MWS-03-20A).

Rinsate QC-ER24 collected at this well at 1715 hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MWS-04-01
	WELL NO.: MWS-04
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409421.0205
Purge Start: (Date) 4/11/91 (Time) 0845	Purge End: (Date) 4/11/91 (Time) 1055
Purged by: Garcia / Boyd / Tibbals	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4) 6" Other: ______

Well Hdspace/Odor: Yes/ ~40ppm w/ HNu at well head LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval: 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ ______ Orig. DTW: 71.05 Final DTW: 71.02

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.82

(-) Orig. DTW: 71.05

(=) Wtr Col. Thick.: 28.77 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 4½" - 1.91 Gals/ft (=) 54.95 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 164.8 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y/ N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Breezy, Hot Warm (80 °F)

0845

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTu)	Other	Comment
0850	5	10	71.05	95	22.0	6.98	1250	4.63		
0855		20			21.9	7.02	1250	2.15		
0907		40			22.1	7.05	1250	1.96		
0913		60			22.1	7.14	1250	1.41		
0928		80			22.3	7.13	1240	1.97		
0939		100			22.2	7.14	1250	1.79		
0950		120			22.3	7.14	1250	1.81		
1001		140			22.5	7.16	1250	1.56		
1013		150	71.02	95	22.5	7.16	1250	1.63		
1050		160			22.9	7.03	1190	35.1		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	
Sample ID No.:	MWS-04-01
WELL NO.:	MWS-04
Installation:	Spy Harbor Annex
Site:	Background Well
HAZWRAP Contractor:	IT Corporation
Project No.:	409921.02.05
Sample Start: (Date)	4/11/91 (Time) 1030
Sample End: (Date)	4/11/91 (Time) 1055
Sampled by:	Garcia / Baird / Tyburski

Orig. SWL: 71.05 ft BTOC* Final SWL: 71.02 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.4	7.03	1190	35.1

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1½" Teflon Bailer

Sample Equipment Decon'd? Y N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot/Warm (80 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y N

Comments:

Sample MWS-04-01 Taken at 1050 Hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: PS-2-01	
MONITORING WELL PURGING LOG	WELL NO.: PS-2
Installation: Sky Harbor ANG	Site: Background Piezometer
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 4/9/91 (Time) 0755	Purge End: (Date) 4/9/91 (Time) 1215
Purged by: [illegible] / [illegible] / [illegible]	

Depth Measurement Ref. Point*: T.O.C Well Csg ID: 2" 4" 6" Other ______

Well Hdspace/Odor: 80 ppm Breathing zone readings [illegible] 20 seconds <0.5 ppm NAPL Check (Y / N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval: 50-100

Depth to LNAPL: ND ~~Depth to DNAPL~~: —— Orig. DTW: 72.92 Final DTW: NA

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 100.00

(-) Orig. DTW: 72.92

(=) Wtr Col. Thick.: 27.08 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9 5/8" - 1.91 Gals/ft (=) 51.72 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) 51.72 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ (SS ☐ Tef ☐ PVC ☑) Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Purging Equipment (Make, Model, etc.) 1 1/2" PVC Bailer Purge Equipment Decon'd? (Y / N)

Purge Wtr Containerized? (Y / N) Avge Purge Rate: ______ gpm

Weather: Sunny, Breezy, Hot (~85 °F)

0755

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0818		5	72.92	NA	21.6	6.96	1330	7200		
0842		10			21.6	7.06	1330	7200		
0900		15			21.6	7.04	1330	7200		
0920		20			21.8	7.07	1330	7200		
1000		30			21.8	7.02	1320	7200		
1041		40			21.9	7.08	1330	7200		
1120		50			21.9	7.07	1330	7200		
1140		55			22.0	7.13	1320	112.1		
1145		56			21.8	7.10	1320	111.1		
1210		57	NA		22.2	7.11	1320	31.0		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	
Sample ID No.: PS-2-01	
WELL NO.: PS-2	
Installation: Sky Harbor ANG	Site: [illegible]
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 9/9/91 (Time) 1200	Sample End: (Date) 9/9/91 (Time) 1215
Sampled by: [illegible] / [illegible] / [illegible]	

Orig. SWL: 92.92 ft BTOC* Final SWL: ______ ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.2	7.11	1320	31.0

Are parameters 20% of purge values? Y/N (Y) Except Turbidity

Repurge Y/N (N)

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) Disposable 1" Teflon Bailer

Sample Equipment Decon'd? Y/N (Y)

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (90 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, TOP16

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y/N (N) Referee Dups.: Y/N (N)

Comments:

Sample PS-2-01 Taken at 1200 Hours

Equip. Rinsate QC-ER23 Taken at 1215 Hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG

Sample ID No.: MW1-02-01
WELL NO.: MW1-02
Installation: Sky Harbor ANG Base
Site:
HAZWRAP Contractor: IT Corporation
Project No.: 409721.02.05
Purge Start: (Date) 4/2/91 (Time) 1105 Purge End: (Date) 4/2/91 (Time) 1340
Purged by: Gardin, Boyd, Tyburski

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4") 6" Other NA
Well Hdspace/Odor: ND LNAPL Check (Y/N) DNAPL Check (Y/N)
Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)
Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval TOC = 50, Bottom
Depth to LNAPL: ND Depth to DNPL: ND Orig. DTW: 75.39 Final DTW: 77.60
LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: ND
Measured Well TD: 99.33
(-) Orig. DTW: ~~23.94~~ 75.39

(=) Wtr Col. Thick.: 23.94 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9 7/8 - 1.91 Gals/ft (=) 45.73 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 137.18 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐
Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other
Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~2 gpm
Weather: Sunny, Breezy, Warm (~80 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1110	5	10		95 ft.	23.1	6.95	1110	6.2		
1117		20			23.0	7.00	1110	2.3		
1123		30			23.3	7.06	1100	1.2		
1135		50			24.0	7.04	1120	0.71		
1142		70			23.2	7.05	1120	1.21		
1159		90			23.9	7.07	1130	0.05		
1213		110			23.3	7.01	1080	0.06		
1225		130			23.0	7.01	1120	0.41		
1237		150	77.60	95ft	23.1	7.02	1130	0.43		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	Sample ID No.: MW1-02-01
	WELL NO.: MW1-02
Installation: Sky Harbor ANG Base	Site: 1
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 9/2/91 (Time) 1300	Sample End: (Date) 9/2/91 (Time) 1340
Sampled by: Garduño, Boyd, Trzewski	

Orig. SWL: 75.39 ft BTOC* Final SWL: 77.60 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.4	7.04	1120	64

Are parameters 20% of purge values? Y / N except Turbidity (stirred bottom of well)

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ____

Sampling Equipment (Make, Model, etc.) 1 5/8" Teflon Bailer

Sample Equipment Decon'd? Y N

If pump or discrete bailer; Depth(s) where pump set: ____ ft. BTOC

Weather: Sunny, Breezy, Warm (~80 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y N

Comments:

All samples completed at 1335. Collected an Equipment Rinsate at this well.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	
Sample ID No.: MW1-02-01A	
Installation: Sky Harbor ANG	WELL NO.: MW1-02
HAZWRAP Contractor: I T Corp	Site: 1
	Project No.: 409221
Purge Start: (Date) 4-18-91 (Time) 0810	Purge End: (Date) 4-18-91 (Time) 1000
Purged by: John Boyd / Cindy Dam	

Depth Measurement Ref. Point*: TOC Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: ND L NAPL Check (Y)/ N DNAPL Check (Y / N)

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND Depth to DNPL: NA Orig. DTW: 71.25 Final DTW: 71.19

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.33

(-) Orig. DTW: 71.25

(=) Wtr Col. Thick.: 28.08 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 4¾" - 1.91 Gals/ft (=) 53.6 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 162 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☒ Other

Purging Equipment (Make, Model, etc.) Bennet Pump 1800 Purge Equipment Decon'd? (Y) N

Purge Wtr Containerized? (Y / N) Avge Purge Rate: 1.6 gpm
Weather: Sunny, Cool (75 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0810		—								
0824		20			22.2	6.98	1110	2.28		
0839		40			22.9	6.92	1120	.92		
0850		60			23.2	7.03	970	.43		
0901		80			23.6	6.95	1140	.36		
0914		100			23.6	6.96	980	.50		
0939		120			23.6	6.94	1150	.20		
0940		140			23.7	7.01	1070	.39		
0953		161			23.4	6.94	1070	.26		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

Sample ID No.: MW1-02-01A

WELL NO.: MW1-02

MONITORING WELL SAMPLING LOG

Installation: Sky Harbor ANG

Site:

HAZWRAP Contractor: I T corp

Project No.: 409721

Sample Start: (Date) 4-18-91 (Time) 1020 Sample End: (Date) 4-18-91 (Time) 1140

Sampled by: John Boyd / Cindie Dean

Orig. SWL: 21.25 ft BTOC* Final SWL: 21.19 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
24.9	7.08	110	8.15

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☒ SS ☐ Tef ☒ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other

Sampling Equipment (Make, Model, etc.) 1 ½" Teflon Bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ft. BTOC

Weather: High clouds, slight breeze (65 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:
Noted sheen on ~~sur~~ water surface but HNu detector didn't detect anything - Total amount purged for MW1-02 = 165 gallons

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	
	Sample ID No.: MW2-02-01
	WELL NO.: MW2-02
Installation: Sky Harbor ANG	Site: 2
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.01
Purge Start: (Date) 4/8/91 (Time) 0816	Purge End: (Date) 4/10/91 (Time) 1130
Purged by: Gordon / Baro / Warren	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4") 6" Other ______

Well Hdspace/Odor: ND LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 80/100

Depth to LNAPL: ND ~~Depth to DNAPL:~~ ______ Orig. DTW: 71.78 Final DTW: 71.06

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 100.02

(-) Orig. DTW: 71.78

(=) Wtr Col. Thick.: 28.24 (x) 2" - 0.16 / (4" - 0.65) / 6" - 1.47 / 8" - 1.91 Gals/ft (=) 53.9 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 161.8 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y/ N) Avge Purge Rate: ~ 2 gpm

Weather: Sunny, Breezy, Hot (90 °F)

0816

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0826	10	10	71.78	95	21.7	6.80	1280	7.27		
0833	17	20			21.5	6.91	1280	2.83		
0847		40			21.8	6.83	1280	3.12		
0901		60			21.9	6.94	1300	1.31		
0915		80			22.0	6.96	1300	2.49		
0930		100			22.2	6.98	1300	0.84		
0945		120			22.3	7.05	1300	1.50		
1000		140			22.4	6.93	1300	1.05		
1008		150			22.4	6.96	1300	0.95		
1130		162	71.06	95	23.0	6.97	1150	39.0		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

REV. DATE: MAY 1990

Sample ID No.: MW2-02-01

MONITORING WELL SAMPLING LOG

WELL NO.: MW2

Installation: Sky Harbor ANG

Site: 2

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Sample Start: (Date) 4/10/91 (Time) 1040 Sample End: (Date) 4/10/91 (Time) 1130

Sampled by: [illegible] / [illegible] / [illegible]

Orig. SWL: 71.78 ft BTOC* Final SWL: 71.06 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.0	6.97	1190	39.0

Are parameters 20% of purge values? Y / N Except Turbidity

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (90 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sampled MW2-02-01 at 1100 Hours. Also took Matrix Spike & Matrix Spike Dups here: MW2-02-01-MS at 1115 Hours

MW2-02-01-MSD at 1130 Hours

*BTOC = Below Top of Casing (or other measurement reference point)

SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG

Sample ID No.: MW3-01-01
WELL NO.: MW3-01
Installation: Sky Harbor ANG
Site: 3
HAZWRAP Contractor: IT Corporation
Project No.: 409921.02.05
Purge Start: (Date) 4/11/91 (Time) 1434 Purge End: (Date) 4/11/91 (Time) 1645
Purged by: Gassin / [illegible] / [illegible]

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other: ______

Well Hdspace/Odor: ______ LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc): Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval: 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ ______ Orig. DTW: 71.72 Final DTW: 71.73

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.42

(-) Orig. DTW: 71.72

(=) Wtr Col. Thick.: 27.70 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 4¾" - 1.91 Gals/ft (=) 52.9 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) 158.7 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.): Bennett 1800 Purge Equipment Decon'd? Y N

Purge Wtr Containerized? (Y N) Avge Purge Rate: ~2 gpm
Weather: Sunny, Breezy, Hot Warm (~80 °F)

1434

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.u)	Cond. (umhos/m)	Turbidity (NTu)	Other	Comment
1440		10	71.72	95	22.6	7.13	1240	5.52		
1446		20			22.8	7.19	1240	2.58		
1457		40			22.5	7.19	1230	1.27		
1509		60			22.4	7.20	1240	1.01		
1520		80			22.6	7.21	1230	0.71		
1532		100			22.3	7.21	1240	0.66		
1544		120			22.4	7.21	1230	0.61		
1600		140			22.5	7.20	1230	0.62		
1607		150	71.73	95	22.4	7.22	1230	0.73		
1640		157			22.5	7.27	1230	51.5		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	Sample ID No.: MW3-01-01
	WELL NO.: MW3-01
Installation: Sky Harbor ANG	Site: 3
HAZWRAP Contractor: IT Corporation	Project No.: 409821.02.05
Sample Start: (Date) 4/11/91 (Time) 1630	Sample End: (Date) 4/11/91 (Time) 1645
Sampled by: Garcia/Boyd/Younan	

Orig. SWL: 71.72 ft BTOC* Final SWL: 71.72 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.5	7.22	1230	51.5

Are parameters 20% of purge values? Y / N Except Turbidity

Repurge Y / N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ________

Sampling Equipment (Make, Model, etc.) 1½" Teflon Bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ________ ft. BTOC

Weather: Sunny, Breezy, Hot/Warm (~80 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW3-01-01 taken at 1630 Hours

Equip Rinsate QC-ER25 Taken at 1720 Hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

FIGURE 5-6a

REV. DATE: MAY 199

Sample ID No.: MW3-01-01A

MONITORING WELL PURGING LOG

WELL NO.: MW3-01

Installation: Sky Harbor Coordinates

Site: 3

HAZWRAP Contractor: IT Corp

Project No.: 409721

Purge Start: (Date) 4-17-91 (Time) 1040 Purge End: (Date) 4-16-91 (Time) 1225

Purged by: John Boyd / Cindie Dahl

Depth Measurement Ref. Point*: TOC Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: — L NAPL Check (Y)/ N) DNAPL Check (Y /(N))

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe

Depth to Top and Bottom of Screen Interval 80/100

Depth to LNAPL: NA Depth to DNPL: NA Orig. DTW: 68.35 Final DTW: 97.69

LNAPL/DNAPL Thickness NA LNAPL/DNAPL Sample and Volume: CD

Measured Well TD: 99.69

(-) Orig. DTW: 68.35

(=) Wtr Col. Thick.: 31.34 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅝" - 1.91 Gals/ft (=) 59.9 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 180 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☒ Other

Purging Equipment (Make, Model, etc.) Bennett Pump Model 1800 Purge Equipment Decon'd? (Y) N

Purge Wtr Containerized? (Y) N) Avge Purge Rate: 2.6 gpm

Weather: Slight breeze, high clouds (80 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1040		—								
1046		20			23.1	6.89	1270			
1100		40			22.7	6.86	1250			
1115		60			22.7	7.01	1300	.25		
1129		80			23.1	6.89	1320	.34		
1139		100			23.6	6.89	1330	.32		
1150		120			23.2	6.86	1330	.46		
1201		140			23.0	6.95	1290	.48		
1212		160			23.0	6.94	1340	.51		
1225		180			23.1	6.93	1340	1.29		Samples taken

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19[illegible]

FIGURE 5-6 b

MONITORING WELL SAMPLING LOG	Sample ID No.: MW 3-02-01A
	WELL NO.: MW3-02
Installation: [redacted] [redacted]	Site: 3
HAZWRAP Contractor: IT Corp	Project No.: 409721
Sample Start: (Date) 4-17-91 (Time) 1250	Sample End: (Date) 4-17-91 (Time) 1330
Sampled by: John Boyd / Cindie Dorr / Joe Tyburski	

Orig. SWL: 68.35 ft BTOC* Final SWL: 68.26 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity	
23.1	6.63	1340	1.29	
24.2	6.88	1340	55.2	- after sampling

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☒ SS ☐ Tef ☒ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1½" Teflon bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTC

Weather: Hot, breezy (87 °F)

Lab Analyses: (Circle)

VOA SVOA METALS (Pb, Cd) PEST/PCBS TPH CATIONS ANIONS TD

Others: Total Organic Pb, Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Turbidity change on last sample

MW3-01 - sampled at 1250 - duplicates taken

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

FIGURE 5-6a

REV. DATE: MAY 19?

	Sample ID No.: MW3-02-01 (Plus Du[illegible]
MONITORING WELL PURGING LOG	WELL NO.: MW3-02
Installation: Sky Harbor Coordinates	Site: 3
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05

Purge Start: (Date) 4/5/91 (Time) 0945 Purge End: (Date) 4/5/91 (Time) 1245

Purged by: Gordon / Boyd / [illegible]

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4") 6" Other ______

Well Hdspace/Odor: ~NO ppm [illegible] well head L NAPL Check (Y)/ N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND ~~Depth to DNAPL:~~ ______ Orig. DTW: 71.37 Final DTW: 71.29

LNAPL/DNAPL Thickness NA LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.69

(-) Orig. DTW: 71.37

(=) Wtr Col. Thick.: 28.32 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / [illegible] - 1.91 Gals/ft (=) 54.1 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 162.3 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y)/ N) Avge Purge Rate: ≈ 2 gpm

Weather: Sunny, Breezy, Hot (~95 °F)

0945

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
~~1049~~ 0949	4	10	71.39	95	22.8	7.13	1370	15.71		
0955		20			22.9	7.12	1360	5.31		
1006		40			22.9	7.12	1360	7.73		
1016		60			23.0	7.12	1370	2.15		
1029		80			22.9	7.12	1360	1.55		
1040		100			23.0	7.11	1360	2.66		
1051		120			22.9	7.11	1370	1.75		
1101		140			23.0	7.10	1360	0.95		
1107		150	71.29	95	23.0	7.11	1360	1.08		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19

FIGURE 5-6 b

MONITORING WELL SAMPLING LOG	
Sample ID No.: MW3-02-01 (Raw D	
WELL NO.: MW3-02	
Installation: Sky Harbor Coordinates	Site: 3
HAZWRAP Contractor: IT Corporation	Project No.: 409742.02.05
Sample Start: (Date) 4/5/91 (Time) 1145	Sample End: (Date) 4/5/91 (Time) 1225
Sampled by: Gardner / Bird / Thomson	

Orig. SWL: 71.37 ft BTOC* Final SWL: 71.82 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.1	7.07	1330	31.0

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BT

Weather: Sunny, Breezy, Hot (~95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS T

Others: TO Pb, Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y N Referee Dups.: Y N

Comments:

Field Dup collected (MW3-02-02-Dup) : ~~1245~~ 1250

*BTOC = Below Top of Casing (or other measurement reference point)

SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MW4-01-01
	WELL NO.: MW4-01
Installation: Papago Military Reservation	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 4/4/91 (Time) 0900	Purge End: (Date) 4/8/91 (Time) 1400
Purged by: [illegible]	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other: ______

Well Hdspace/Odor: ND LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 22.5 – 42.5

Depth to LNAPL: ND ~~Depth to DNPL:~~ ______ Orig. DTW: 34.43 Final DTW: DRY

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 42.87

(−) Orig. DTW: 34.43

(=) Wtr Col. Thick.: 8.44 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9¾ - 1.91 Gals/ft (=) 16.1 Gals/Csg Vol. (x) 1 2 3 4 5 Csg Vol. (=) 16.1 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☐ PVC ☑ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Purging Equipment (Make, Model, etc.) 3½ inch PVC Bailer Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: << 0.5 gpm

Weather: Sunny, Breezy, Hot (~90 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0900		2.5	34.43	NA	25.3	6.97	2820	97.0		
0903		5.0			25.2	7.13	2830	195.1		
0906		10.0			25.1	7.06	2830	7200		
0915										Purged Dry
0933		12.0			26.3	9.18	2710	115.9		
0935										Purged Dry
1400		12.5	DRY							Purged Dry
4/8/91										
1400		13.5			25.6	6.95	2840	12.22		Sampled on 4/8/91 Due to low recharge from the well

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	Sample ID No.: MW4-01-01
	WELL NO.: MW4-01
Installation: Parks Military Reservation	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 4/8/91 (Time) 1345	Sample End: (Date) 4/8/91 (Time) 1415
Sampled by: Gordon / Brad Friedman	

Orig. SWL: 34.43 ft BTOC* Final SWL: Dry ft. BTOC

Screen Interval: 21 - 41 ft BTOC

Temp	pH	Cond.	Turbidity

Well dry couldn't collect sample field parameters JRT 4-26-91

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: ______

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (~ 90 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: ______

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Samples were collected on 4/8/91, 1400 hours (MW4-01-01) & Rinsate (QC-ER22) at 1415 hours. The delay between purging & sampling was due to extremely low recharge rates (< ½ gal / Day) of the well. Mark [signature]

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MW4-02-01
	WELL NO.: MW4-02
Installation: St Paul Military Reservation	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409421.02.05
Purge Start: (Date) 4/4/91 (Time) 1020	Purge End: (Date) 4/4/91 (Time) 1100
Purged by: Gardiner / Boyd / Tibman	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other ______

Well Hdspace/Odor: ND LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND Depth to DNPL: NA Orig. DTW: 27.44 Final DTW: Dry

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 44.40

(-) Orig. DTW: 27.44

(=) Wtr Col. Thick.: 16.96 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅞" - 1.91 Gals/ft (=) 32.4 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) 32.4 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☐ PVC ☑ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Purging Equipment (Make, Model, etc.) NA Purge Equipment Decon'd? Y/N

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ______ gpm

Weather: Sunny, Breezy, Hot (~90 °F)

1029

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1030	1 min	2.5	27.44	NA	26.6	7.15	1080	82.1		
1033		5.0			26.6	7.17	1090	130.3		
1039		10.0			26.6	7.12	1100	100.6		
1044		15.0			26.3	7.13	1100	154.1		
1050		20.0			26.2	7.16	1100	90.8		
1058		25.0			26.3	7.23	1090	29.3		1105 - Purged Dry
1120		27.5			26.6	7.29	1090	7.91		
1210		30.0	Dry	NA	27.0	7.46	1090	7.01		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MW4-02-01
	WELL NO.: MW4-02
Installation: Papago Military Reservation	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 4/4/91 (Time) 1230	Sample End: (Date) 4/4/91 (Time) 1400
Sampled by: Gardiner / Boyd / Tkowski	

Orig. SWL: 27.44 ft BTOC* Final SWL: Dry ft. BTOC

Screen Interval: 30 24 - 44 ft BTOC

Temp	pH	Cond.	Turbidity
28.3	7.54	1080	7.3

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other

Sampling Equipment (Make, Model, etc.)

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ft. BTOC

Weather: Sunny, Breezy, HOT (~ 90 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others:

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Finished Sampling at 1400

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

FIGURE 5-6a

REV. DATE: MAY 19[illegible]

Sample ID No.: MW4-02-OHA

MONITORING WELL PURGING LOG

WELL NO.: MW4-02

Installation: Sky Harbor Coordinates

Site: 4

HAZWRAP Contractor: IT Corp

Project No.: 407921

Purge Start: (Date) 4-16-91 (Time) 0740 Purge End: (Date) 4-16-91 (Time) 1130

Purged by: John Boyd

Depth Measurement Ref. Point*: Northside of Casing TOC Well Csg ID: 2" 4" 6" Other______

Well Hdspace/Odor: – ND LNAPL Check (Y/N) DNAPL Check (Y/N)

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Depth to Top and Bottom of Screen Interval 24' to 44'

Depth to LNAPL: NA Depth to DNPL: NA Orig. DTW: 27.90 Final DTW:______

LNAPL/DNAPL Thickness NA LNAPL/DNAPL Sample and Volume:______

Measured Well TD: 44.40

(-) Orig. DTW: 27.90

(=) Wtr Col. Thick.: 16.5 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅝" - 1.91 Gals/ft (=) 31.5 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) 31.5 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☒ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other______

Purging Equipment (Make, Model, etc.) 3½" Bailer Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: 2.5 gpm

Weather: Cool, Breezy (65 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0800		–								
0801					25.2	6.96	1460	.5?		
0805		6			25.9	6.68	1000	60.5		
0810		10			25.7	6.59	1020	62.7		
0815		14			25.4	6.54	1040	60.0		
0823		20			25.9	6.58	1020	25.0		
0829		25			25.7	6.51	1000	17.5		well going dry
0920		29			26.0	7.06	1050	1600		
1046		35			26.8	7.01	1051	10.30		
1130					27.2	6.96	960	9.50		End of Sampling

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19

FIGURE 5-6 b

MONITORING WELL SAMPLING LOG	Sample ID No.: MW4-02-01A
Installation: Sky Harbor Coordinates	WELL NO.: MW4-02
	Site: 4 (Pagan)
HAZWRAP Contractor: IT Corp	Project No.: 409721
Sample Start: (Date) 4-16-91 (Time) 1115	Sample End: (Date) 4-16-91 (Time) 1130
Sampled by: John Boyd / Cindie Darr	

Orig. SWL: 26.9 ft BTOC* Final SWL: 43.21 ft. BTOC

Screen Interval: 24 - 44 ft BTOC

Temp	pH	Cond.	Turbidity
27.2	6.96	960	9.5

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☒ SS ☐ Tef ☒ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1½" Teflon Bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BT

Weather: High clouds, slight breeze (70 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS T

Others: ______

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MWS-01-01
	WELL NO.: MWS-01
Installation: Sky Harbor ANG Base	Site: 5
HAZWRAP Contractor:	Project No.:
Purge Start: (Date) 4/3/91 (Time) 1530	Purge End: (Date) 4/3/91 (Time) 1900
Purged by: Gardner / Boyd / Truman	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4) 6" Other: ____

Well Hdspace/Odor: ND LNAPL Check (Y) / N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model 121

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: ND ~~Depth to DNPL:~~ ____ Orig. DTW: 73.00 Final DTW: 72.98

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: ~~99.80~~ 99.74 JT 4-5-91

(-) Orig. DTW: 73.00

(=) Wtr Col. Thick.: ~~26.80~~ 26.74 JT 4-5-91 (x) 2" - 0.16; 4" - 0.65; 6" - 1.47; 9⅝" - 1.91 Gals/ft (=) ~~51.2~~ 51.1 JT 4-5-91 Gals/Csg Vol. (x) 1, 2, (3), 4, 5 Csg Vol. (=) ~~153.6~~ 153.2 JT 4-5-91 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ____

Purging Equipment (Make, Model, etc.) Bennett 1800 Purge Equipment Decon'd? (Y) / N

Purge Wtr Containerized? (Y) / N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Warm, Breezy (~85 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1343	15	10	73.00	95	23.1	7.13	1230	19.89		
1348		20			22.7	7.12	1250	7.03		
1600		40			22.8	7.15	1250	7.90		
1610		60			22.7	7.12	1240	2.22		
1621		80			22.6	7.13	1240	1.12		
1654		100			22.4	7.13	1240	1.08		
1704		120			22.7	7.14	1240	0.44		
1715		140			22.5	7.12	1240	0.69		
1721		150		95	22.5	7.12	1240	0.35		

* All Depths In Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 1990

	Sample ID No.: MW5-01-01
MONITORING WELL SAMPLING LOG	WELL NO.: MW5-01
Installation: Sky Harbor ANG Base	Site: 5
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 4/3/91 (Time) 1740	Sample End: (Date) 4/3/91 (Time) 1800
Sampled by: Gardiner / Boyd / Tyburski	

Orig. SWL: 73.00 ft BTOC* Final SWL: 72.98 ft. BTOC

Screen Interval: 80 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.3	7.15	1240	31.5

Are parameters 20% of purge values? Y/N Except Turbidity

Repurge Y/N

No. repurge volumes: NA

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1 1/4" Teflon Bailer

Sample Equipment Decon'd? Y/N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Warm (~ 85 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Nitrate / Nitrite

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y/N Referee Dups.: Y/N

Comments:
Collected samples at 1745. Collected Equip. Rinsate (also at 1745) at this well.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

FIGURE 5-6a

REV. DATE: MAY 199(

Sample ID No.: MW5-01-01A

MONITORING WELL PURGING LOG

WELL NO.: MW501

Installation: Sky Harbor Coordinates

Site:

HAZWRAP Contractor: IT Corp

Project No.: 409721

Purge Start: (Date) 4-16-91 (Time)

Purge End: (Date) 4-16-91 (Time) 1535

Purged by: John Boyd, Andre Dean

Depth Measurement Ref. Point*: TOC

Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: ND

LNAPL Check (Y/N) Y

DNAPL Check (Y/N) N

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe

Depth to Top and Bottom of Screen Interval 50/100

Depth to LNAPL: NA

Depth to DNPL: NA Orig. DTW: 68.95 Final DTW: 68.85

LNAPL/DNAPL Thickness ND

LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.74

(-) Orig. DTW: 68.95

(=) Wtr Col. Thick.: 30.79 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / 9⅝" - 1.91 Gals/ft (=) 58.8 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) 176 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☒ Other

Purging Equipment (Make, Model, etc.) Bennett Pump 1800

Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y) N)

Avge Purge Rate: 1.6 gpm

Weather: Partly Cloudy, Slight Humidity (80 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1350		—								
1400		20			23.3	6.92	1300	.69		
1414		40			23.9	6.79	1290	.20		
1425		60			23.8	6.89	1280	.20		
1436		80			23.0	6.86	1280	.20		
1449		100			23.5	6.85	1270	.29		
1459		120			23.5	6.82	1250	.11		
1509		140			23.5	6.80	1260	.30		
1521		160			23.4	6.80	1240	.15		
1531		178			23.2	6.86	1260	.13		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19[illegible]

FIGURE 5-6 b

MONITORING WELL SAMPLING LOG	Sample ID No.: MW5-01-01A
	WELL NO.: MW5-01
Installation: Sky Harbor Coordinates	Site: 5
HAZWRAP Contractor: IT Corp	Project No.: 409721
Sample Start: (Date) 4-16-91 (Time) 1545	Sample End: (Date) 4-16-91 (Time) 1605
Sampled by: John Boyd, Cindi Dam	

Orig. SWL: 68.95 ft BTOC* Final SWL: 68.85 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.5	6.90	320	6.34

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: NA

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder ~~Pump~~ ☒ Bailer ☒ SS ☐ Tef ☒ PVC ☐ Centrifugal Pump ☐

JB 4-16-91 JB 4-16-91

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) 1½" Teflon Bailer

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: 95 ft. BTOC

Weather: Cloudy, Humid (85 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TD

Others: Nitrate / Nitrite

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

MW5-01, field duplicates and rinsate samples taken

Samples and dup taken at 1545

Rinsate - 1630

*BTOC = Below Top of Casing (or other measurement reference point)

SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MWS-01-02
	WELL NO.: MWS-01
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 6/25/91 (Time) 1402	Purge End: (Date) 6/25/91 (Time) 1615
Purged by: Gardiner / Saavedra	

Depth Measurement Ref. Point**: T.O.C. Well Csg ID: 2" 4" 6" Other

Well Hdspace/Odor: ~0.2 ppm (HNU PI-101) LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~ N

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~50/100 ft

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 72.88 Final DTW: 72.90

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.78

(-) Orig. DTW: 72.88

(=) Wtr Col. Thick.: 26.9 (x) 2" - 0.16 / 4" - 0.65 / ~~6" - 1.47~~ / ~10 - 1.91 Gals/ft (=) 51.4 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~154 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y) N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Breezy, Hot (C °F)

1402

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/cm)	Turbidity (NTa)	Other	Comment
1401		10	72.88	~80 ft.	23.8	6.87	1080	4.27		
1412		20			23.7	6.90	1080	4.31		
1425		40			23.6	6.89	1080	3.30		
1438		60			23.7	6.87	1080	3.43		
1450		80			23.7	6.89	1070	2.58		
1502		100			23.9	6.91	1070	2.57		Changed pH bottle at 1504
1515		120			23.8	6.96	1070	2.40		
1523		140			23.7	6.91	1070	1.60		
1532		150			23.7	6.91	1070	1.30		
1615		157			23.6	6.91	1080	16.76		Post Sampling

** All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	Sample ID No.: MWS-01-02
	WELL NO.: MWS-01
Installation: Sky Harbor ANG	Site: [illegible]
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.0[illegible]
Sample Start: (Date) 6/25/91 (Time) 1555	Sample End: (Date) 6/25/91 (Time) 1615
Sampled by: Gardiner / Saunders	

Orig. SWL: 72.90 ft BTOC* Final SWL: 72.90 ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.6	6.91	1080	16.76

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTC

Weather: Sunny, Breezy, Hot (≃ °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TC

Others: Vinyl Chloride, Nitrate/Nitrite, TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample AWS-01-02 Collected at 1555 Hours.
Collected equipment blank QC-BR30 Collected at 1630 hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MWS-02-02
	WELL NO.: MWS-02
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 6/29/91 (Time) 1016	Purge End: (Date) 6/29/91 (Time) 1255
Purged by: Gardiner / Saavedra	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other

Well Hdspace/Odor: ~0.4 ppm (HNu PI-101) LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~ N

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~ 50-100 ft.

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 70.99 Final DTW: N/A - Meter out

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.89

(-) Orig. DTW: 70.99

(=) Wtr Col. Thick.: 28.9 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) 55.2 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~166 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~ 2 gpm

Weather: Sunny, Breezy, Hot (≥ 100 °F)

1016

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
1024		10	70.99	~80 ft.	23.5	7.16	1160	0.23		
1029		20			23.4	7.12	1160	0.51		
1041		40			23.3	7.11	1160	0.73		
1053		60			23.3	7.12	1170	0.51		
1105		80			23.3	7.12	1160	0.41		
1116		100			23.4	7.10	1170	0.40		1117 - Switch Gen.
1129		120			23.4	7.10	1170	0.54		
1142		140			23.4	7.14	1170	0.44		
1154		160			23.4	7.17	1170	0.48		
1255		165			23.7	7.14	1130	57.4		Post-Sample Gen

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

Sat - mid

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
Sample ID No.: MWS-02-02	WELL NO.: MWS-02
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/29/91 (Time) 1220	Sample End: (Date) 6/29/91 (Time) 1255
Sampled by: Gardner / Saavedra	

Orig. SWL: 70.99 ft BTOC* Final SWL: N/A - water out ft. BTOC

Screen Interval: ~ 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.9	7.14	115	39.4

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTC

Weather: Sunny, Breezy, Hot (≈ 105 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride; Nitrate/Nitrite; TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MWS-02-02 Collected at 1220 Hours.

Field Duplicate Sample ~~Collected at~~ and labeled MWS-02-02-Dup Collected at 1240 Hours.

*BTOC = Below Top of Casing (or other measurement reference point)

SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG

Sample ID No.: MWS-03-02
WELL NO.: MWS-03
Installation: Sky Harbor ANG
Site: Background Well
HAZWRAP Contractor: IT Corporation
Project No.: 409721.02.05
Purge Start: (Date) 6/27/91 (Time) 0635 Purge End: (Date) 6/27/91 (Time) 0900
Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other
Well Hdspace/Odor: 1.0 ppm (HNU PI-101) L NAPL Check (Y/ N) ~~DNAPL Check (Y/N)~~ NA
Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc.)
Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval 50/100 ft.
Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 72.30 Final DTW: NA - Motor Pump Purging
LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA
Measured Well TD: 99.80
(-) Orig. DTW: 72.30
(=) Wtr Col. Thick.: 27.5 (x) 2" - 0.16 / 4" - 0.65 / ~~6" - 1.47~~ / ~10" - 1.91 Gals/ft (=) 52.5 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~158 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐
Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other
Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y/ N)

Purge Wtr Containerized? (Y/ N) Avge Purge Rate: ~ 2 gpm
Weather: Sunny, Breezy, ~~Hot~~ Warm (≈ 85 °F)
0635

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/cm)	Turbidity (NTu)	Other	Comment
0642		10	72.30	~80 ft.	22.6	6.95	1170	1.49		
0648		20			22.6	7.11	1180	0.99		
0700		40			22.5	7.05	1180	0.81		
0711		60			22.5	7.08	1190	1.04		
0723		80			22.6	7.10	1190	0.57		0726 - Change Cylinders
0736		100			22.4	7.10	1190	0.50		
0748		120			22.5	7.10	1190	0.68		
0800		140			22.5	7.11	1190	0.74		
0812		160			22.5	7.10	1190	0.73		
0900		163			22.7	7.03	1160	97.5		Post - Sample Grab

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

~~Fri~~ - Sat. a.m. ?

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MWS-03-02
	WELL NO.: MWS-03
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409321.02.05
Sample Start: (Date) 6/29/91 (Time) 0835	Sample End: (Date) 6/29/91 (Time) 0900
Sampled by: Gardner / Saunders	

Orig. SWL: 72.30 ft BTOC* Final SWL: N/A - Recovery not fully [illegible] ft. BTOC

Screen Interval: 50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.7	7.03	1160	97.5

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ____

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ____

Sampling Equipment (Make, Model, etc.) ____

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ____ ft. BTC

Weather: Sunny, Breezy, ~~Hot~~ Warm (≈ 90 °F)
my

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride, Nitrate/Nitrite, TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MWS-03-02 Collected at 0835 Hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: MWS-04-02
	WELL NO.: MWS-04
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 6/20/91 (Time) 0920	Purge End: (Date) 6/20/91 (Time) 1130
Purged by: Gardner / Saavedra	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" (4") 6" Other

Well Hdspace/Odor: ~72 ppm (HNU PI-101) LNAPL Check (Y)/N) ~~DNAPL Check (Y/N)~~ NA

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~ 50-100 ft.

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 72.45 Final DTW: 72.77

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.82

(-) Orig. DTW: 72.45

(=) Wtr Col. Thick.: 27.37 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) 52.3 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) ~157 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y)/ N

Purge Wtr Containerized? (Y)/ N) Avge Purge Rate: ~ 2 gpm

Weather: Sunny, Breezy, Hot (c 95 °F)

0920

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/cm)	Turbidity (NTu)	Other	Comment
0928		15	72.45	~80 ft.	23.3	7.02	1170	1.50		
0936		30			23.1	7.16	1180	0.82		
0947		50			23.0	7.08	1180	1.33		
1000		70			23.0	7.10	1180	0.98		
1011		90			23.0	7.13	1180	1.25		1021 - Changed Cylinders
1024		110			23.1	7.01	1180	0.29		
1038	135	~~125~~			23.1	7.13	1180	1.43		
1052		150			23.0	7.12	1180	0.92		
1056		155			23.0	7.13	1180	0.62		
1130		158			23.5	7.07	1190	26.7		Post Sampling

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

[illegible]

REV. DATE: MAY 19[illegible]

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MWS-04-02
	WELL NO.: MWS-04
Installation: Sky Harbor ANG	Site: Background Well
HAZWRAP Contractor: IT Corporation	Project No.: 409721.03.05
Sample Start: (Date) 6/28/91 (Time) 1115	Sample End: (Date) 6/28/91 (Time) 1130
Sampled by: Gardner / Saunders	

Orig. SWL: 72.45 ft BTOC* Final SWL: 72.49 ft. BTOC

Screen Interval: ~50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.3	8.04	1090	26.9

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ________

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ________

Sampling Equipment (Make, Model, etc.) ________

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ________ ft. BTO

Weather: Sunny, Breezy, Hot (≈ 95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride; TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MWS-04-02 Collected at 1115 Hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

MONITORING WELL PURGING LOG	Sample ID No.: PS-02-02
	WELL NO.: PS-02
Installation: Sky Harbor ANG	Site: Background Piezometer
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 6/30/91 (Time) 0730	Purge End: (Date) 6/30/91 (Time) 1120
Purged by: Gardiner / Saavedra	

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other ____

Well Hdspace/Odor: ~50 ppm (Using PI-101) LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~ NA

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~50-100 ft.

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 71.40 Final DTW: NA

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.86

(-) Orig. DTW: ~~99.86~~ 71.40

(=) Wtr Col. Thick.: 28.46 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) $\boxed{54.4}$ Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~163 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☐ PVC ☑ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ ~~Gas Lift/Displacement Pump~~ ☑ MP 6 lifts Other ____

Purging Equipment (Make, Model, etc.) ~~Bennett Model 1800~~ MP 6 lifts Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~~~2~~ N/A gpm

Weather: Sunny, Breezy, Hot (≈ 95 °F)

0730

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0750		5	71.40	N/A	22.1	6.68	1230	127.9		
0815		10			22.2	6.80	1240	184.2		
0826		15			22.2	6.90	1250	NA (>200)		
~~0855~~ 0855		20			22.3	6.90	1250	~~>200~~	>200	
0914		25			22.2	6.46	1240	>200		
0954		35			22.3	6.97	1260	93.1		
1026		45			22.3	6.97	1250	>200		
1101		55			22.3	6.98	1240	>200		
1120		57			22.6	6.98	1250	>200		Post Sample Gals

* All Depths In Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 199

MONITORING WELL SAMPLING LOG	
	Sample ID No.: PS-02-02
	WELL NO.: PS-02
Installation: Sky Harbor ANG	Site: Background Piezometer
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/30/91 (Time) 1110	Sample End: (Date) 6/30/91 (Time) 1120
Sampled by: Gardner / Saavedra	

Orig. SWL: 71.40 ft BTOC* Final SWL: N/A (purged out) ft. BTOC

Screen Interval: ~50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
22.6	6.98	1150	>200

Are parameters 20% of purge values? Y / N

Repurge Y / N

No. repurge volumes: ______

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (≈ 105 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride ; TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:
Sample PS-02-02 ~~PS-2-02 ?~~ Collected at 1110 Hours.
Rinsate QC-5235 Collected at 1130 Hours
Piezometer was Bailed of Approx one well volume per Variance
Allowed by HAZWRAP — This is Due to Small Diameter of Piezometer (~2")
& Quick Stabilization of Field Parameters (Bailed w/ 1-inch I.D. Bailer

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW1-02-02

MONITORING WELL PURGING LOG

WELL NO.: MW1-02

Installation: Sky Harbor ANG

Site: 1

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 6/25/91 (Time) 0830 Purge End: (Date) 6/25/91 (Time) 1210

Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other

Well Hdspace/Odor: <0.2 ppm PI-101 LNAPL Check Y/N) ~~DNAPL Check (Y/N)~~ N

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval 50/100 ft

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 73.34 Final DTW: 73.40

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.32

(-) Orig. DTW: 73.34

(=) Wtr Col. Thick.: 25.98 (x) 2" - 0.16 / 4" - 0.65 / ~~6" - 1.47~~ / ~10" - 1.91 Gals/ft (=) 49.6 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~149 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? Y/N

Purge Wtr Containerized? Y/N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Breezy, Hot (≈100 °F)

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0830	2 Sand		73.34	≈80 ft	NA				→	[illegible] 0935 - [illegible]
1018	7	10			23.7	6.90	1130	0.45		Pump on at 1010
1023		20			23.5	7.02	1130	0.78		
1035		40			23.5	7.03	1130	0.51		
1049		60			23.6	7.05	1130	0.36		
1100		80			23.5	7.02	1130	0.34		
1114		100			23.6	6.99	1130	0.34		1104 - Change [illegible]
1126		120			23.6	7.03	1130	0.32		
~~1233~~ 1137		140			23.5	6.99	1130	0.31		
~~1243~~ 1143		150			23.6	7.00	1130	0.30		
1210		160			23.7	7.01	1150	84.81		1200 - Sample; 1210 - Grab Sample

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Apeous Phase Liquid

REV. DATE: MAY 199

MONITORING WELL SAMPLING LOG	
Sample ID No.: MW1-02-02	
WELL NO.: MW1-02	
Installation: Sky Harbor ANG	Site: 1
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.0f
Sample Start: (Date) 6/25/91 (Time) 1200	Sample End: (Date) 6/25/91 (Time) 1210
Sampled by: Gardiner / Saavedra	

Orig. SWL: 73.34 ft BTOC* Final SWL: 73.40 ft. BTOC

Screen Interval: 80 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.7	7.01	1150	4.81

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (≃ 100 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW1-02-02 Collected at 1200 Hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW2/02-07
WELL NO.: MW2-02
Site: 2

MONITORING WELL PURGING LOG

Installation: Sky Harbor ANG
HAZWRAP Contractor: IT Corporation
Project No.: 409721.02.05
Purge Start: (Date) 6/26/91 (Time) 1330 Purge End: (Date) 6/26/91 (Time) 1610
Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point**: T.O.C. Well Csg ID: 2" 4" 6" Other
Well Hdspace/Odor: ~0.2 ppm / ~0.5 ppm LNAPL Check (Y/N) ~~DNAPL Check (Y/N)~~ NA
Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)
Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval 50-100 ft
Depth to LNAPL: ND ~~Depth to DNPL~~ NA Orig. DTW: 71.64 Final DTW:
LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA
Measured Well TD: 99.86
(-) Orig. DTW: 71.64

(=) Wtr Col. Thick.: 28.22 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) 53.9 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~162 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐
Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other
Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~2 gpm
Weather: Sunny, Breezy, Hot (° °F)

1334

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u.)	Cond. (umhos/m)	Turbidity (NTu)	Other	Comment
1337		10	71.64	~80 ft	23.0	6.99	1170	2.49		
1344		20			22.9	7.03	1180	2.09		
1355		40			22.8	7.05	1180	1.87		
1407		60			22.8	7.06	1190	1.55		
1419		80			22.8	7.04	1180	1.40		
1431		100			22.9	7.05	1180	1.38		1432 - Changed Air Cylinders
1444		120			22.9	7.06	1180	1.98		
1455		140			22.7	7.06	1190	1.36		
1506 ~~1606~~		160			22.7	7.06	1180	1.40		
1610		166			23.0	7.01	1100	126.5		Turb: High from Bailing

** All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	Sample ID No.: MW2-02-02
	WELL NO.: MW2-02
Installation: Sky Harbor ANG	Site: 2
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/26/91 (Time) 1515	Sample End: (Date) 6/26/91 (Time) 1610
Sampled by: Gardiner / Saavedra	

Orig. SWL: 71.64 ft BTOC* Final SWL: ≅ 71.8 ft. BTOC
Screen Interval: ~ 50 - ~ 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.0	7.01	1100	126.5

Are parameters 20% of purge values? Y / N Except Turbidity

Repurge Y / N

No. repurge volumes: ______

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______
Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (≅ °F)

Lab Analyses: (Circle)
VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS
Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:
Sample MW2-02-02 Collected at 1515 Hours.
Also Collected Matrix Spike (MW2-02-02-MS) at 1530 Hours and
Matrix Spike Duplicate (MW2-02-02-MSD) at 1545 Hours from this
Well.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW3-01-02

MONITORING WELL PURGING LOG

WELL NO.: MW3-01

Installation: Sky Harbor ANG

Site: 3

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 6/29/91 (Time) 1456 Purge End: (Date) 6/29/91 (Time) 1700

Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other____

Well Hdspace/Odor: ~56ppm (HNU-PI-101) L NAPL Check (Y/N) ~~DNAPL Check (Y/N)~~ N

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~50 - 100 ft

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 72.64 Final DTW: 72.90

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: [illegible]

(-) Orig. DTW: [illegible]

(=) Wtr Col. Thick.: 26.[illegible] (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 Gals/ft (=) 56.2 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) [illegible]54 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ____

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y/N)

Purge Wtr Containerized? (Y/N) Avge Purge Rate: ~2 gpm

Weather: Sunny, Breezy, Hot (°F)

1456

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/cm)	Turbidity (NTu)	Other	Comment
1503		10	92.14	~80 ft.	23.6	7.01	1150	0.85		
1509		20			23.4	7.02	1150	0.82		
1521		40			23.4	7.02	1160	0.34		
1533		60			23.4	7.03	1170	0.41		
1545		80			23.3	7.02	1170	0.38		
1600		100			23.3	7.04	1180	NB =>		[illegible] 1536 - [illegible]
1611		120			23.2	7.04	1180	0.57		
1623		140			23.2	7.05	1170	0.89		
1631		155			23.3	7.03	1170	0.58		
1700		157			23.6	7.06	1050	10.54		Post-Sample [illegible]

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

SAS PM

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MW3-01-02
	WELL NO.: MW3-01
Installation: Sky Harbor ANG	Site: 3
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/29/91 (Time) 1655	Sample End: (Date) 6/29/91 (Time) 1700
Sampled by: Gardner / Samienza	

Orig. SWL: 72.64 ft BTOC* Final SWL: 72.40 ft. BTOC

Screen Interval: ~50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
27.4	7.06	1150	10.54

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTO

Weather: Sunny, Breezy, Hot (≈ 100°F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride ; TO Pb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW3-01-02 Collected at 1655 Hours.

Equip. Rinsate sample collected here at 1715 Hours. (QC-ER34)

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW3-02-02

WELL NO.: MW3-02

Site: 3

MONITORING WELL PURGING LOG

Installation: SKY HARBOR ANG

HAZWRAP Contractor: IT CORPORATION

Project No.: 409721.02.05

Purge Start: (Date) 6/20/91 (Time) 1310 Purge End: (Date) 6/20/91 (Time) 1530

Purged by: GARDINER / SAAVEDRA

Depth Measurement Ref. Point*: T.O.C. Well Csg ID: 2" 4" 6" Other ______

Well Hdspace/Odor: ~1. Bzm (HNU/PI-101) LNAPL Check (Y / N) ~~DNAPL Check (Y / N)~~ NA

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

SOLINST INTERFACE PROBE MODEL

Depth to Top and Bottom of Screen Interval ~80-100 ft.

Depth to LNAPL: ND ~~Depth to DNPL~~: NA Orig. DTW: 70.31 Final DTW: 70.50

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 99.69

(-) Orig. DTW: 70.31

(=) Wtr Col. Thick.: 29.38 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) 56.1 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~168 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other ______

Purging Equipment (Make, Model, etc.) BENNETT MODEL 1800 Purge Equipment Decon'd? (Y / N)

Purge Wtr Containerized? (Y / N) Avge Purge Rate: ~2 gpm

Weather: SUNNY, BREEZY, HOT (≥60 °F)

1310

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/cm)	Turbidity (NTu)	Other	Comment
1317		10	72.77	~80 ft.	23.2	7.12	1170	0.79		
1324		20			23.1	7.11	1170	1.03		
1335		40			23.1	7.12	1170	1.00		
1347		60			23.1	7.09	1170	0.43		
1359		80			23.2	7.10	1170	0.40		1406 change extension
1412		100			23.1	7.09	1170	0.55		
1420		120			23.2	7.12	1170	0.47		
1432		140			23.2	7.09	1170	0.62		
1449		160			23.2	7.09	1170	0.46		
1452		165			23.1	7.10	1170	0.44		
~~1515~~ 1530		168			23.4	7.08	1150	19.65		

* All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)

DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

Fm. 8.m.

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
Sample ID No.: MW3-02-02	
WELL NO.: MW3-02	
Installation: Sky Harbor ANG	Site: 3
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/28/91 (Time) 1500	Sample End: (Date) 6/28/91 (Time) 1530
Sampled by: Gardiner / Saunders	

Orig. SWL: 70.31 ft BTOC* Final SWL: 70.50 ft. BTOC

Screen Interval: ~50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.4	7.08	1150	17.65

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BT

Weather: Sunny, Breezy, Hot (≃ 100 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TC

Others: Vinyl Chloride ; TOPb

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW3-02-02 Collected at 1500 Hours.

Field Duplicate Sample MW3-02-02-Dup Collected at 1515 Hours.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW4-01-03
WELL NO.: MW4-01
Site: 4

MONITORING WELL PURGING LOG

Installation: Sky Harbor ANG

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 6/27/91 (Time) 1025 Purge End: (Date) 6/28/91 (Time) 0755

Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point**: T.O.C. Well Csg ID: 2" (4") 6" Other ____

Well Hdspace/Odor: 0.2 ppm LNAPL Check (Y) / N ~~DNAPL Check (Y / N)~~ NA

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ____

Depth to LNAPL: ND ~~Depth to DNPL:~~ NA Orig. DTW: 23.43 Final DTW: ____

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 42.86

(-) Orig. DTW: 23.43

(=) Wtr Col. Thick.: 19.43 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~~12" - 1.91~~ Gals/ft (=) 37.1 Gals/Csg Vol. (x) 1 / 2 / (3) / 4 / 5 Csg Vol. (=) ~111.3 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☐ PVC ☑ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ~~☒~~ Other ____

Purging Equipment (Make, Model, etc.) ~~Brainard Model 1800~~ 6/29/91 Purge Equipment Decon'd? (Y) / N

Purge Wtr Containerized? (Y) / N) Avge Purge Rate: ~~1~~ NA gpm

Weather: Sunny, Breezy, Hot (≈ 95 °F)

1025

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.u)	Cond. (umhos/m)	Turbidity (NTu)	Other	Comment
1028		3	23.43	NA	25.2	7.02	2310	75.4		
1032		8			24.8	7.14	2730	>1000		
1037		14			24.8	7.13	2700	>100		
1044		20			24.9	7.12	2660	>100		
1052		27			25.0	7.20	2580	>1000		1053 - DRY
1056		27½								DRY (½ gal)
1135									?	Sampling VOA Vials Collect
6/28/91 0745		28			24.8	7.10	2650	27.2		Collect Sample & BEST Sample Co.

** All Depths In Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqueous Phase Liquid

REV. DATE: MAY 19[illegible]

MONITORING WELL SAMPLING LOG	Sample ID No.: MW4-01-02
	WELL NO.: MW4-01
Installation: Sky Harbor ANG	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409321.02.05
Sample Start: (Date) 6/29/91 (Time) 1235	Sample End: (Date) 6/28/91 (Time) 0935
Sampled by: Gardner / Samuelson	

Orig. SWL: 23.43 ft BTOC* Final SWL: NA (Dry) ft. BTOC

Screen Interval: ________ - ________ ft BTOC

Temp	pH	Cond.	Turbidity
24.8	7.10	2650	29.2

Are parameters 20% of purge values? Y / N (except turbidity)

Repurge Y / N

No. repurge volumes: ________

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ________

Sampling Equipment (Make, Model, etc.) ________

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ________ ft. BTC

Weather: Sunny, Breezy, Hot (≈ 95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TD[illegible]

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW4-01-02 collected at 1235 hours (VOA & Vinyl Chloride only - Remainder collected on 6/29/91). Sample MW4-01-0[illegible] Remainder collected at 0745 hours, 6/28/91.

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW4-02-02

WELL NO.: MW4-02

Site: 4

MONITORING WELL PURGING LOG

Installation: Sky Harbor ANG

HAZWRAP Contractor: IT Corporation

Project No.: 409721.02.05

Purge Start: (Date) 6/27/91 (Time) 0908 Purge End: (Date) 6/27/91 (Time) ~~1012~~ 1020

Purged by: Gardiner / Saavedra

Depth Measurement Ref. Point**: T.O.C. Well Csg ID: 2" 4" 6" Other ______

Well Hdspace/Odor: ______ LNAPL Check (Y / N) ~~DNAPL Check (Y / N)~~

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ______

Depth to LNAPL: ND ~~Depth to DNPL: NA~~ Orig. DTW: 27.14 Final DTW: N/A (Dry)

LNAPL/DNAPL Thickness: ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 50.61

(-) Orig. DTW: 27.14

(=) Wtr Col. Thick.: 23.47 (x) 2" - 0.16 / 4" - 0.65 / ~~6" - 1.47~~ / ~10" - 1.91 Gals/ft (=) 44.83 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~134.5 Total Purge Gals.

Purge Method:

Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☐ PVC ☑ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ~~☒~~ MG 6/27/91 Other ______

Purging Equipment (Make, Model, etc.) ~~Bladder Model 1800~~ MG Purge Equipment Decon'd? (Y) / N

Purge Wtr Containerized? (Y / N) Avge Purge Rate: ~~MG~~ ~ NA gpm

Weather: Sunny, Breezy, Hot (≈ 95 °F)

0908

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake(ft)	Temp (°C)	pH (s.a)	Cond. (umhos/m)	Turbidity (NTa)	Other	Comment
0911		2 1/2	27.14	NA	26.6	7.04	1050	21.9		
0914		6			26.1	7.20	1050	28.8		
0921		~~16~~ 10			26.1	7.21	1050	64.0		
0934		25			25.8	7.28	1060	23.8		Well Purged Dry - Wait [illegible] Recov.
0959		27 1/2			26.3	7.38	1050	15.45		0940 Restart [illegible] Dry
	Will Wait For Recharge & Sample									0950 Restart 0957 Dry
1135		28			26.6	7.38	1050	6.50		Post Sample [illegible]

** All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

[redacted]

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MW4-02-02
	WELL NO.: MW4-02
Installation: Sky Harbor ANG	Site: 4
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/27/91 (Time) 1135	Sample End: (Date) 6/27/91 (Time) 1145
Sampled by: Gardner / Saavedra	

Orig. SWL: 27.14 ft BTOC* Final SWL: N/A (Dry) ft BTOC

Screen Interval: ______ - ______ ft BTOC

Temp	pH	Cond.	Turbidity
26.6	7.38	1050	6.50

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (≈ 95 °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Vinyl Chloride

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW4-02-02 Collected at 1135 Hours.

Rinsate QC-ER32 Collected at 1210 Hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

REV. DATE: MAY 1990

Sample ID No.: MW5-01-02	
MONITORING WELL PURGING LOG	WELL NO.: MW5-01
Installation: Sky Harbor ANG	Site: 5
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Purge Start: (Date) 6/26/91 (Time) 0830	Purge End: (Date) 6/26/91 (Time) 1100
Purged by: Gardiner / Saavedra	

Depth Measurement Ref. Point**: T.O.C. Well Csg ID: 2" 4" 6" Other____

Well Hdspace/Odor: <0.2 ppm (HNU PI-101) LNAPL Check (Y/ N) ~~DNAPL Check (Y / N)~~ NA

Equipment Used To Measure Thickness and Sample Free Product (Make, Model, etc)

Solinst Interface Probe Model

Depth to Top and Bottom of Screen Interval ~50-100 ft.

Depth to LNAPL: ND ~~Depth to DNAPL:~~ NA Orig. DTW: 72.27 Final DTW: 72.43

LNAPL/DNAPL Thickness ND LNAPL/DNAPL Sample and Volume: NA

Measured Well TD: 100.68

(-) Orig. DTW: 72.27

(=) Wtr/Col. Thick.: 28.41 (x) 2" - 0.16 / 4" - 0.65 / 6" - 1.47 / ~10" - 1.91 Gals/ft (=) 54.3 Gals/Csg Vol. (x) 1 / 2 / 3 / 4 / 5 Csg Vol. (=) ~163 Total Purge Gals.

Purge Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☐ SS ☐ Tef ☐ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☑ Other____

Purging Equipment (Make, Model, etc.) Bennett Model 1800 Purge Equipment Decon'd? (Y/ N)

Purge Wtr Containerized? (Y/ N) Avge Purge Rate: ~ 2 gpm

Weather: Sunny, Breezy, Hot (≈ °F)

0835 ~~0830~~

Actual Time	Elapsed Time	Vols. Purged (Gals)	Depth To Wtr (ft)	Depth Of Pump Intake (ft)	Temp (°C)	pH (s.u)	Cond. (umhos/cm)	Turbidity (NTu)	Other	Comment
0840		10	72.27	~80 ft.	23.1	6.82	1070	0.76		
0846		20			23.0	6.95	1110	0.70		
0858		40			22.9	6.93	1150	0.68		
0911		60			22.8	7.00	1160	0.72		
0924		80			22.8	7.03	1160	0.67		0930 - [illegible]
0936		100			22.8	7.05	1160	0.70		
0951		120			22.9	7.01	1170	0.66		
1004		140			22.9	7.00	1160	0.65		
1021		160			22.9	7.02	1170	0.63		[illegible]
1100		165			23.1	6.99	1170	3.20		Post Sample [illegible]

** All Depths in Feet Below Ref. Point on Wellhead - generally Top of Casing (TOC)
DTW = Depth To Water LNAPL/DNAPL = Light or Dense Non-Aqeous Phase Liquid

REV. DATE: MAY 19

MONITORING WELL SAMPLING LOG	
	Sample ID No.: MW5-01-02
	WELL NO.: MW5-01
Installation: Sky Harbor ANG	Site: 5
HAZWRAP Contractor: IT Corporation	Project No.: 409721.02.05
Sample Start: (Date) 6/26/91 (Time) 1045	Sample End: (Date) 6/26/91 (Time) 1100
Sampled by: Gardiner / Saunders	

Orig. SWL: 72.27 ft BTOC* Final SWL: 72.43 ft. BTOC

Screen Interval: ~50 - 100 ft BTOC

Temp	pH	Cond.	Turbidity
23.1	6.99	1070	3.20

Are parameters 20% of purge values? Y / N (Except Turbidity)

Repurge Y / N

No. repurge volumes: ______

Sampling Method:
Submersible Pump ☐ Dedicated Bladder Pump ☐ Bladder Pump ☐ Bailer ☑ SS ☐ Tef ☑ PVC ☐ Centrifugal Pump ☐

Peristaltic Pump ☐ Hand Pump ☐ Gas Lift/ Displacement Pump ☐ Other ______

Sampling Equipment (Make, Model, etc.) ______

Sample Equipment Decon'd? Y / N

If pump or discrete bailer; Depth(s) where pump set: ______ ft. BTOC

Weather: Sunny, Breezy, Hot (~ °F)

Lab Analyses: (Circle)

VOA SVOA METALS PEST/PCBS TPH CATIONS ANIONS TDS

Others: Nitrate / Nitrite

Metals: (Circle) Filtered Unfiltered Both

Field Dups.: Y / N Referee Dups.: Y / N

Comments:

Sample MW5-01-02 Collected at 1045 Hours.

Equipment Rinsate RC-ER-54 Collected at 1100 Hours

*BTOC = Below Top of Casing (or other measurement reference point)
SWL = Static Water Level

APPENDIX I

SLUG TESTS AND ANALYSIS

PROBLEM: DETERMINE HYDRAULIC CONDUCTIVITY OF ALLUVIAL AQUIFER USING RISING HEAD SLUG TEST

APPROACH: SOLVE SLUG TEST ANALYSIS FOR UNCONFINED AQUIFER USING METHOD OF BOUWER AND RICE (1976), ATTACHMENT 1.

BOUWER AND RICE EQUATION:

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} \left(\frac{1}{t}\right) \ln\left(\frac{y_o}{y_t}\right) \qquad \text{EQ 1.}$$

where:

K = hydraulic conductivity (L/T)
r_c = radius of well casing (L)
L_e = length of well screen open to aquifer (L)
y_o = drawdown at time, $t=0$ (L)
y_t = drawdown at some later time, t (L), (T)
$\ln(R_e/r_w)$ = calculated term describing effective head loss dissipation into aquifer.

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{A + B \times \ln\left[\frac{H - L_w}{r_w}\right]}{(L_e/r_w)}\right]^{-1} \qquad \text{EQ 2}$$

where:

r_w = radius of the borehole (L)
H = saturated thickness of the aquifer (L)
A and B = graphically derived constants (unitless)
L_w = length of well screen below the watertable (L)

H is determined from literature and is estimated to be 350 ft (BROWN AND POOL, 1989)

Because the water level fluctuated within the screened interval in all wells the terms Le and Lw are equivalent (see Figure 1).

Because the water level is within the screened interval, r_c in equation 1 has to be adjusted to account for porosity of filter pack.

$$r_c = \left[r_c^2 + n\left(r_w^2 - r_c^2\right)\right]^{1/2} \qquad \text{EQ 3}$$

where:

n = filter pack porosity.

r_c = 0.16 FT. (well construction logs)
n = 0.35 assumed
r_w = 0.40 FT

$$r_c = \left[0.16^2 + 0.35\left(0.4^2 - 0.16^2\right)\right]^{1/2} = \underline{0.27 \text{ FEET}}$$

The empirical constants A and B are derived from Bouwer and Rice Figure 3. The quotient Le/r_w is calculated and the values are read from the x-axis to their respective curves, and over to each vertical axis,

MWS-01

$Le/r_w = 26.9'/0.4$ FT
$= 67.25$

A = 3.25
B = 0.6

MW1-02

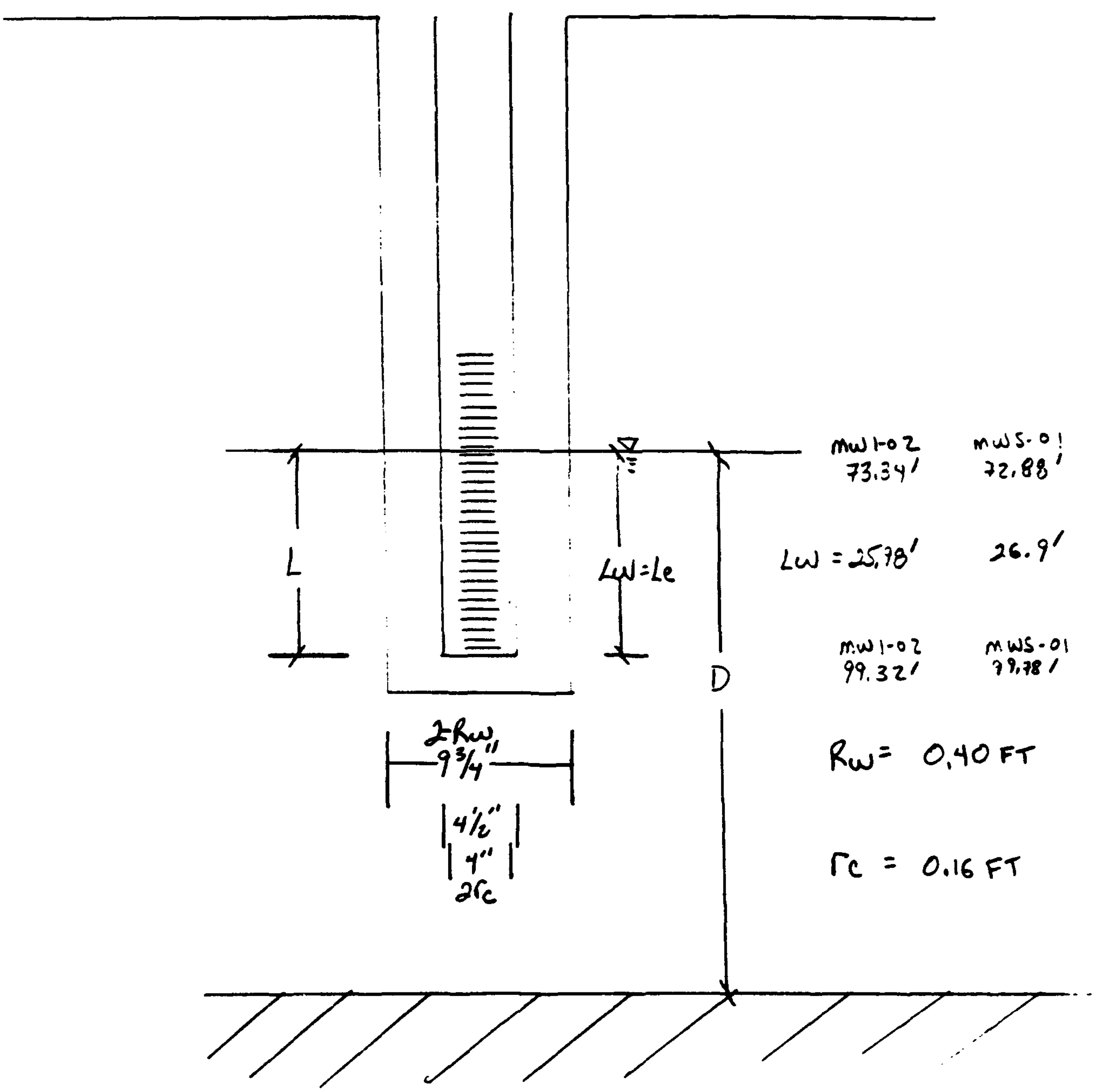
$Le/r_w = 25.98'/0.4$ FT
$= 64.95$

A = 3.25
B = 0.6

INTERNATIONAL TECHNOLOGY CORPORATION

By SWS Date 8-3-91 Subject SLUG TEST ANALYSIS - SKY HARBOR Sheet No. 3 of 9
Chkd. By SAL Date 10-30-91 ANG BASE, PHOENIX, AZ Proj. No. 409721.12.09

FIGURE 1



To find y_0, y_t, and t, a graph of logarithm drawdown (y) versus time is constructed, see FIGURES 2 AND 3.

USING EQUATION 2

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{A + B \cdot \ln\left[\frac{H - L_w}{r_w}\right]}{(L_e/r_w)}\right]^{-1}$$

FOR MWS-01

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(26.9/0.4)} + \frac{3.25 + 0.6 \times \ln\left[\frac{350 - 26.9}{0.4}\right]}{(26.9/0.4)}\right]^{-1}$$

.26 7.26 67.25

$\ln(R_e/r_w) = 2.70$ unitless FOR MWS-01

FOR MW1-02

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(25.98/0.4)} + \frac{3.25 + 0.6 \times \ln\left[\frac{350 - 25.98}{0.4}\right]}{(25.98/0.4)}\right]^{-1}$$

0.26 0.11 64.95

$\ln(R_e/r_w) = 2.70$ unitless FOR MW1-02

INTERNATIONAL TECHNOLOGY CORPORATION

By SWS Date 8-3-91 Subject SLUG TEST ANALYSIS – SKY HARBOR ANG BASE – PHOENIX, AZ Sheet No. 5 of 9

Chkd. By SAL Date 10-30-91 Proj. No. 409721.02.09

MW1-02

	time	h (FT)	drawdown (FT)	
	t_0 = 10:53:12	7.87	(FT)	
	10:53:13.0	7.77	0.10	
	13.2	7.52	0.35	
	13.4	7.29	0.58	
	13.6	7.16	0.71	
	13.8	7.19	0.68	
begin	:14.0	7.16	0.71	max drawdown test begin
	.2	7.04	0.83	0 (t)
	.4	7.15	0.72	.2
	.6	7.27	0.60	.4
	.8	7.29	0.58	.6
	:15.0	7.30	0.57	.8
	.2	7.34	0.53	1.0
	.4	7.34	0.53	.2
	.6	7.30	0.57	.4
	.8	7.29	0.58	.6
	:16.0	7.28	0.59	.8
	.2	7.27	0.60	2.0
	.4	7.31	0.56	.2
	.6	7.35	0.52	.4
	.8	7.40	0.47	.6
	:17.0	7.44	0.43	.8
	.2	7.47	0.40	3.0
	.4	7.51	0.36	.2
	.6	7.54	0.33	.4
	.8	7.57	0.30	.6
	:18.0	7.59	0.28	.8
	.2	7.62	0.25	4.0
	.4	7.64	0.23	.2
	.6	7.66	0.21	.4
	.8	7.68	0.19	.6

time	h (FT)	drawdown (FT)	
:19.0	7.70	0.17	.8
.2	7.72	0.15	5.0
.4	7.73	0.14	.2
.6	7.74	0.13	.4
.8	7.75	0.12	.6
:20.0	7.76	0.11	.8
.2	7.78	0.09	6.0
.4	7.79	0.08	.2
.6	7.80	0.07	.4
.8	7.80	0.07	.6
:21.0	7.81	0.06	.8
.2	7.81	0.06	7.0
.4	7.82	0.05	.2
.6	7.82	0.05	.4
.8	7.83	0.04	.6
:22.0	7.83	0.04	.8
.2	7.83	0.04	8.0
.4	7.84	0.03	.2
.6	7.84	0.03	.4
.8	7.84	0.03	.6
:23.0	7.84	0.03	.8
.2	7.85	0.02	9.0
.4	7.85	0.02	.2
.6	7.85	0.02	.4
.8	7.85	0.02	.6
:24.0	7.85	0.02	.8
.2	7.85	0.02	10.0
.4	7.85	0.02	.2
.6	7.85	0.02	.4
.8	7.86	0.01	.6

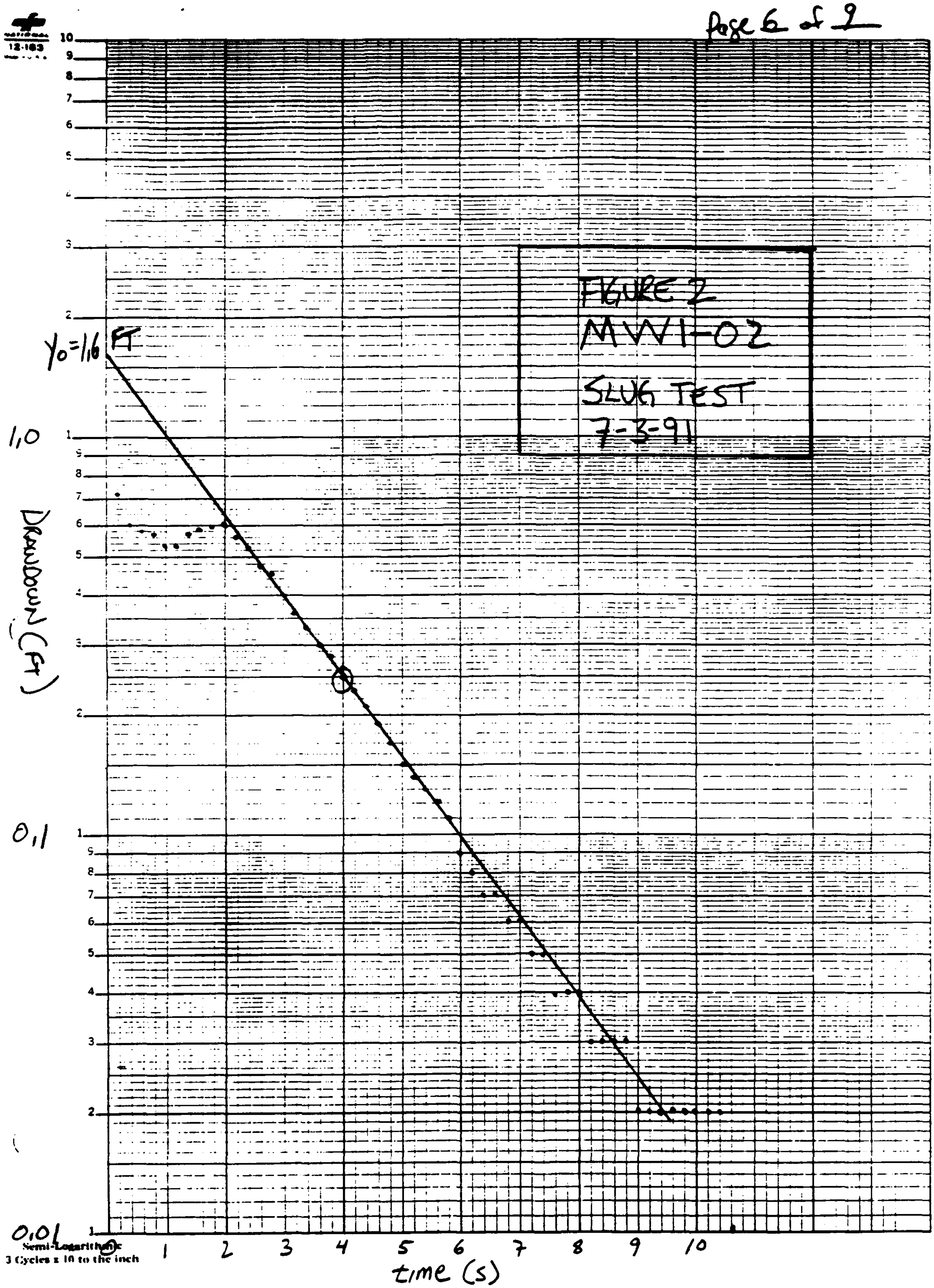


FIGURE 2
MW1-02
SLUG TEST
7-3-91
Y_0=1.6 FT
1.0
0.1
0.01
DRAWDOWN (FT)
time (s)
0
1
2
3
4
5
6
7
8
9
10
12-183
Semi-Logarithmic
3 Cycles x 10 to the inch

INTERNATIONAL TECHNOLOGY CORPORATION

By SWS Date 8-3-91 Subject SLUG TEST ANALYSIS— SKY HARBOR ANG BASE, PHOENIX AZ
Chkd. By [illegible] Date [illegible] Proj. No. 409721.02.09

MWS-01

time	h (FT)	drawdown (FT)	(t)
	11.85		
11:04:56.2	11.69	0.16	
.4	11.33	0.52	
.6	10.89	0.96	
.8	10.61	1.24	
57.0	10.39	1.46	
.2	10.22	1.63	
.4	10.25	1.60	
.6	10.50	1.35	
.8	11.10	0.75	
58.0	11.72	0.13	
.2	11.76	0.09	
.4	11.35	0.50	
.6	10.86	0.99	
.8	10.53	1.32	
:59.0	10.53	1.32	
.2	10.77	1.08	
.4	11.25	0.60	
.6	11.53	0.32	
.8	11.28	0.57	
11:05:00.0	10.99	0.86	
.2	10.98	0.87	
.4	10.63	1.22	
.6	10.68	1.17	
.8	10.58	1.27	
:01.00	10.33	1.52	
begin .2	10.34	1.51	Max drawdown begin test (t)
.4	10.09	1.76	0
.6	10.18	1.67	0.2
.8	10.31	1.54	.4
:02.0	10.48	1.37	.6
.2	10.62	1.23	.8
.4	10.75	1.10	10

time	h (FT)	drawdown	(t)
.6	10.86	0.99	1.2
.8	10.97	0.88	1.4
11:05:03.0	11.06	0.79	1.6
.2	11.14	0.71	1.8
.4	11.22	0.63	2.0
.6	11.29	0.56	2.2
.8	11.35	0.50	2.4
05:04.0	11.40	0.45	2.6
.2	11.44	0.41	2.8
.4	11.49	0.36	3
.6	11.53	0.32	3.2
.8	11.57	0.28	3.4
:05.0	11.60	0.25	3.6
.2	11.63	0.22	3.8
.4	11.64	0.21	4.0
.6	11.65	0.20	4.2
.8	11.67	0.18	4.4
:06.0	11.69	0.16	4.6
.2	11.70	0.15	4.8
.4	11.72	0.13	5.0
.6	11.73	0.12	5.2
.8	11.75	0.10	5.4
:07.0	11.75	0.10	5.6
08.0	11.79	0.06	6.6
09.0	11.80	0.05	7.6
10.0	11.81	0.04	8.6
11.0	11.82	0.03	9.6
12.0	11.82	0.03	10.6
13.0	11.82	0.03	11.6
14.0	11.82	0.03	12.6
15.0	11.83	0.03	13.6
16.0	11.83	0.03	14.6

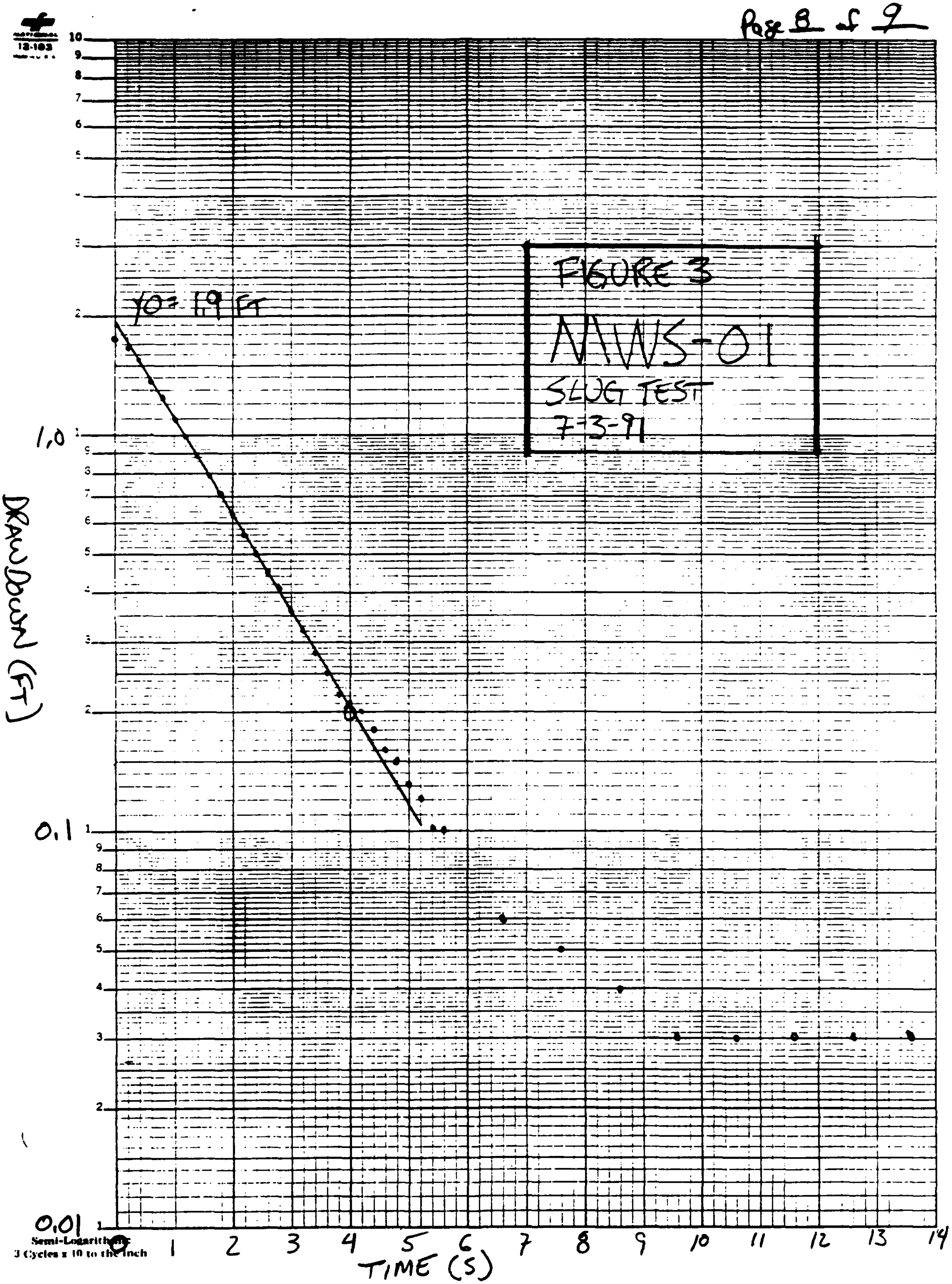


FIGURE 3
MWS-01
SLUG TEST
7-3-91
Yo = 1.9 FT
DRAWDOWN (FT)
1.0
0.1
0.01
TIME (S)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Semi-Logarithmic
3 Cycles x 10 to the Inch

INTERNATIONAL TECHNOLOGY CORPORATION

By SWS Date 8-3-91 Subject SLUG TEST ANALYSIS - SKY HARBOR ANG BASE, PHOENIX, AZ Sheet No. 9 of 9

Chkd. By SAL Date 10-30-91 Proj. No. 409721.02.09

FOR MWS-01

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} \left(1/t\right) \ln\left(Y_0/Y_t\right)$$

$r_c = 0.27$ FT

$\ln(R_e/r_w) = 2.70$

$L_e = 26.9$ FT

$y_0 = 1.9$ FT

$y_t = 0.2$ FT

$t = 4$ s

$$K = \frac{0.27\,\text{ft}^2 (2.70)}{2(26.9\,\text{FT})} \cdot \frac{1}{4\text{s}} \cdot \ln\left(\underbrace{\frac{1.9\,\text{ft}}{0.2\,\text{ft}}}_{2.25}\right)$$

$= 2.06 \cdot 10^{-3}$ FT/S

$\times$ 12 in/FT $\times$ 2.54 cm/in = $\boxed{6.3 \cdot 10^{-2}\ \text{cm/s} = K}$

FOR MW1-02

$r_c = 0.27$ FT

$\ln R_e/r_w = 2.70$

$L_e = 25.98$ FT

$y_0 = 1.6$ FT

$y_t = 0.25$ FT

$t = 4$ s

$$K = \frac{0.27\,\text{FT}^2 (2.70)}{2(25.98)} \cdot \frac{1}{4\text{s}} \cdot \ln\left(\underbrace{\frac{1.6\,\text{FT}}{0.25\,\text{FT}}}_{1.86}\right)$$

$= 1.76 \cdot 10^{-3}$ FT/S

$\times$ 12 IN/FT $\times$ 2.54 cm/in = $\boxed{5.3 \cdot 10^{-2}\ \text{cm/s} = K}$

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A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers With Completely or Partially Penetrating Wells

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A procedure is presented for calculating the hydraulic conductivity of an aquifer near a well from the rate of rise of the water level in the well after a certain volume of water is suddenly removed. The calculation is based on the Thiem equation of steady state flow to a well. The effective radius R_e over which the head difference between the equilibrium water table in the aquifer and the water level in the well is dissipated was evaluated with a resistance network analog for a wide range of system geometries. An empirical equation relating R_e to the geometry of the well and aquifer was derived. The technique is applicable to completely or partially penetrating wells in unconfined aquifers. It can also be used for confined aquifers that receive water from the upper confining layer. The method's results are compatible with those obtained by other techniques for overlapping geometries.

With the slug test the hydraulic conductivity or transmissibility of an aquifer is determined from the rate of rise of the water level in a well after a certain volume or 'slug' of water is suddenly removed from the well. The slug test is simpler and quicker than the Theis pumping test because observation wells and pumping the well are not needed. With the slug test the portion of the aquifer 'sampled' for hydraulic conductivity is smaller than that for the pumping test even though with the latter, most of the head loss also occurs within a relatively small distance of the pumped well and the resulting transmissibility primarily reflects the aquifer conditions near the pumped well.

Essentially instantaneous lowering of the water level in a well can be achieved by quickly removing water with a bailer or by partially or completely submerging an object in the water, letting the water level reach equilibrium, and then quickly removing the object. If the aquifer is very permeable, the water level in the well may rise very rapidly. Such rapid rises can be measured with sensitive pressure transducers and fast-response strip chart recorders or x-y plotters. Also it may be possible to isolate portions of the perforated or screened section of the well with special packers for the slug test. This not only reduces the inflow and hence the rate of rise of the water level in the well, but it also makes it possible to determine the vertical distribution of the hydraulic conductivity. Special packer techniques may have to be developed to obtain a good seal, especially for rough casings or perforations. Effective sealing may be achieved with relatively long sections of inflatable stoppers or tubing. The use of long sections of these materials would also reduce leakage flow from the rest of the well to the isolated section between packers. This flow can occur through gravel envelopes or other permeable zones surrounding the casing. Sections of inflatable tubing may have to be long enough to block off the entire part of the well not used for the slug test. High inflation pressures should be used to minimize volume changes in the tubing due to changing water pressures in the isolated section when the head is lowered.

So far, solutions for the slug test have been developed only for completely penetrating wells in confined aquifers. *Cooper et al.* [1967] derived an equation for the rise or fall of the water level in a well after sudden lowering or raising, respectively. Their equation was based on nonsteady flow to a pumped, completely penetrating well, and the solution was expressed as a series of 'type curves' against which observed rates of water level rises were matched. Values for the transmissibility and storage coefficient were then evaluated from the curve parameter and horizontal-scale position of the type curve showing the best fit with the experimental data. *Skibitzke* [1958] developed an equation for calculating transmissibility from the recovery of the water level in a well that was repeatedly bailed. The technique is limited to wells in confined aquifers with sufficiently shallow water levels to permit short time intervals between bailing cycles [*Lohman*, 1972].

To use the slug test for partially penetrating or partially perforated wells in confined or unconfined aquifers, some solutions developed for the auger hole and piezometer techniques to measure soil hydraulic conductivity [*Bouwer and Jackson*, 1974] may be employed. However, the geometry of most groundwater wells is outside the range in geometry covered by the existing equations or tables for the auger hole or piezometer methods. For this reason, theory and equations are presented in this paper for slug tests on partially or completely penetrating wells in unconfined aquifers for a wide range of geometry conditions. The wells may be partially or completely perforated, screened, or otherwise open along their periphery. While the solutions are developed for unconfined aquifers, they may also be used for slug tests on wells in confined aquifers if water enters the aquifer from the upper confining layer through compression or leakage.

THEORY

Geometry and symbols of a well in an unconfined aquifer are shown in Figure 1. For the slug test the water level in the well is suddenly lowered, and the rate of rise of the water level is measured. The flow into the well at a particular value of y can be calculated by modifying the Thiem equation to

$$Q = 2\pi KL \frac{y}{\ln (R_e/r_w)} \qquad (1)$$

where Q is the flow into the well (length^3/time), K is the hydraulic conductivity of the aquifer (length/time), L is the height of the portion of well through which water enters (height of screen or perforated zone or of uncased portion of well), y is the vertical distance between water level in well and equilibrium water table in aquifer, R_e is the effective radius over which y is dissipated, and r_w is the horizontal distance

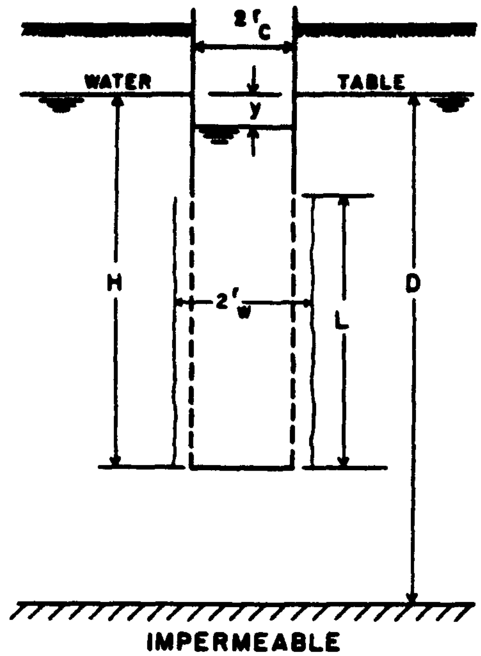

Fig. 1. Geometry and symbols of a partially penetrating, partially perforated well in unconfined aquifer with gravel pack or developed zone around perforated section.

from well center to original aquifer (well radius or radius of casing plus thickness of gravel envelope or developed zone).

The terms L, y, R_e, and r_w are all expressed in units of length. The effective radius R_e is the equivalent radial distance over which the head loss y is dissipated in the flow system. The value of R_e depends on the geometry of the flow system, and it was determined for different values of H, L, D, and r_w (Figure 1) with a resistance network analog, as will be discussed in the next section. Equation (1) is based on the assumptions that (1) drawdown of the water table around the well is negligible, (2) flow above the water table (in the capillary fringe) can be ignored, (3) head losses as water enters the well (well losses) are negligible, and (4) the aquifer is homogeneous and isotropic. These are the usual assumptions in the development of equations for pumped hole techniques [*Bouwer and Jackson*, 1974, and references therein].

The value of r_w in (1) represents the radial distance between the undisturbed aquifer and the well center. Thus r_w should include gravel envelopes or 'developed' zones if they are much more permeable than the aquifer itself (Figure 1).

The rate of rise, dy/dt, of the water level in the well after suddenly removing a slug of water can be related to the inflow Q by the equation

$$dy/dt = -Q/\pi r_c^2 \tag{2}$$

where πr_c^2 is the cross-sectional area of the well where the water level is rising. The minus sign in (2) is introduced because y decreases as t increases.

The term r_c is the inside radius of the casing if the water level is above the perforated or otherwise open portion of the well. If the water level is rising in the perforated section of the well, allowance should be made for the porosity outside the well casing if the hydraulic conductivity of the gravel envelope or developed zone is much higher than that of the aquifer. In that case the (open) porosity in the permeable zone must be included in the cross-sectional area of the well. For example, if the radius of the perforated casing is 20 cm and the casing is surrounded by a 10-cm permeable gravel envelope with a porosity of 30%, r_c should be taken as $[20^2 + 0.30(30^2 - 20^2)]^{1/2} = 23.5$ cm to obtain the cross-sectional area of the well that relates Q to dy/dt. The value of r_w for this well section is 30 cm.

Combining (1) and (2) yields

$$\frac{1}{y}\,dy = -\frac{2KL}{r_c^2 \ln (R_e/r_w)}\,dt \tag{3}$$

which can be integrated to

$$\ln y = -\frac{2KLt}{r_c^2 \ln (R_e/r_w)} + \text{constant} \tag{4}$$

Applying this equation between limits y_0 at $t = 0$ and y_t at t and solving for K yield

$$K = \frac{r_c^2 \ln (R_e/r_w)}{2L}\,\frac{1}{t}\,\ln\frac{y_0}{y_t} \tag{5}$$

This equation enables K to be calculated from the rise of the water level in the well after suddenly removing a slug of water from the well. Since K, r_c, r_w, R_e, and L in (5) are constants, $(1/t)\ln y_0/y_t$ must also be constant. Thus field data should yield a straight line when they are plotted as $\ln y_t$ versus t. The term $(1/t)\ln y_0/y_t$ in (5) is then obtained from the best-fitting straight line in a plot of $\ln y$ versus t (see the example). The value of $\ln R_e/r_w$ is dependent on H, D, L, and r_w and can be evaluated from the analog results presented in the next section. The transmissibility T of the aquifer is calculated by multiplying (5) by the thickness D of the aquifer or

$$T = \frac{Dr_c^2 \ln (R_e/r_w)}{2L}\,\frac{1}{t}\,\ln\frac{y_0}{y_t} \tag{6}$$

This equation is based on the assumption that the aquifer is uniform with depth.

Equations (5) and (6) are dimensionally correct. Thus K and T are expressed in the same units as the length and time parameters in the equations.

EVALUATION OF R_e

Values of R_e, expressed as $\ln R_e/r_w$, were determined with an electrical resistance network analog for different values of r_w, L, H, and D (Figure 1), using the same assumptions as those for (1). An axisymmetric sector of 1 rad was simulated by a network of electrical resistors. The vertical distance between the nodes was constant, but the radial distance between nodes increased with increasing distance from the center line (Figure 2). This yielded a network with the highest node density near the well, where the head loss was greatest, and a decreasing node density toward the outer reaches of the system. For a more detailed discussion of graded networks for representing axisymmetric flow systems, see *Liebmann* [1950] and *Bouwer* [1960].

The radial extent of the medium represented on the analog was more than 60,000 times the largest r_w value used in the analyses. Thus the radial extent of the analog system was essentially infinite, as evidenced by the fact that a reduction in radial extent by several nodes did not have a measurable effect on the observed value of R_e.

The value of R_e for an infinitely deep aquifer ($D = \infty$) was determined by simulating an impermeable and then an infinitely permeable layer at a certain value of D. If this value of D is taken to be sufficiently large, the flow in the system when the layer at D is taken as being impermeable is only slightly

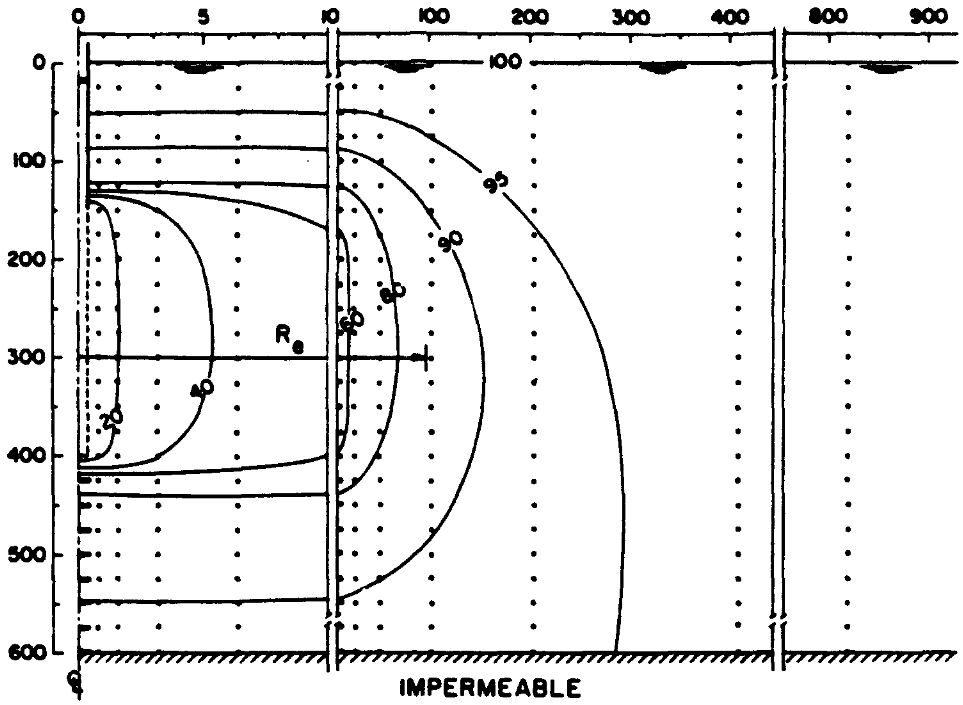

Fig. 2. Node arrangement (dots) for resistance network analog and potential distribution (indicated as percentages on equipotentials) for system with $L/r_w = 625$, $H/r_w = 1000$, and $D/r_w = 1500$. The numbers on the left and at the top of the figure are arbitrary length units (note breaks in horizontal scale).

less than the flow when the layer is taken as being infinitely permeable. The average of the two flows can then be taken as a good estimate of the flow that would occur if the aquifer were represented on the analog as being uniform to infinite depth [*Bouwer*, 1967]. This average flow was used to calculate R_e for $D = \infty$.

The analog analyses were performed by simulating a system with certain values of r_w, H, and D. The electrical current entering the 'well' was then measured for different values of L, ranging from near H to near 0. This was repeated for other values of r_w, H, and D. The condition where $L = H$ could not be simulated on the analog because it would mean a short between the water table as the source and the well as the sink. The electrical current flow in the analog was converted to volume per day, and $\ln R_e/r_w$ was evaluated with (1) for each combination of r_w, H, L, and D used in the analog.

For a given geometry described by r_w, H, and D, the current flow Q_i into the simulated well varied essentially linearly with L and could be described by the equation

$$Q_i = mL + n \tag{7}$$

Because of the linearity between Q_i and L the results of the analyses could be extrapolated to the condition $L = H$. The values of m in (7) appeared to vary inversely with $\ln H/r_w$. The values of n varied approximately linearly with $\ln [(D - H)/r_w]$, the slope A and intercept B in these relations being a function of L/r_w. This enabled the derivation of the following empirical equation relating $\ln R_e/r_w$ to the geometry of the system:

$$\ln \frac{R_e}{r_w} = \left[\frac{1.1}{\ln (H/r_w)} + \frac{A + B \ln [(D - H)/r_w]}{L/r_w}\right]^{-1} \tag{8}$$

In this equation, A and B are dimensionless coefficients that are functions of L/r_w, as shown in Figure 3. If $D >> H$, an increase in D has no measurable effect on $\ln R_e/r_w$. The analog results indicated that the effective upper limit of $\ln [(D - H)/r_w]$ is 6. Thus if D is considered infinity or $(D - H)/r_w$ is so large that $\ln [(D - H)/r_w]$ is greater than 6, a value of 6 should still be used for the term $\ln [(D - H)/r_w]$ in (8).

If $D = H$, the term $\ln [(D - H)/r_w]$ in (8) cannot be used. The analog results indicated that for this condition, which is the case of a fully penetrating well, (8) should be modified to

$$\ln R_e/r_w = \left(\frac{1.1}{\ln (H/r_w)} + \frac{C}{L/r_w}\right)^{-1} \tag{9}$$

where C is a dimensionless parameter that is a function of L/r_w as shown in Figure 3.

Equations (8) and (9) yield values of $\ln R_e/r_w$ that are within 10% of the actual value as evaluated by analog if $L > 0.4H$ and within 25% if $L << H$ (for example, $L = 0.1H$).

The analog analyses were performed for wells that were closed at the bottom. Occasionally, however, wells with open bottoms were also simulated. The flow through the bottom appeared to be negligible for all values of r_w and L used in the analyses. If L is not much greater than r_w (for example, $L/r_w << 4$), the system geometry approaches that of a piezometer cavity [*Bouwer and Jackson*, 1974], in which case the bottom flow can be significant. Equations (8) and (9) can also be used to evaluate $\ln R_e/r_w$ if a portion of the perforated or otherwise open part of the well is isolated with packers for the slug test.

Equipotentials for the flow system around a partially penetrating, partially perforated well in an unconfined aquifer after lowering the water level in the well are shown in Figure 2. The numbers along the symmetry axis and the water table represent arbitrary length units. The numbers on the equipotentials indicate the potential as a percentage of the total head difference between the water table (100%) and the open portion of the well (0%) shown as a dashed line.

The value of R_e for the case in Figure 2 is 96.7 length units. As shown in the figure, this corresponds approximately to the

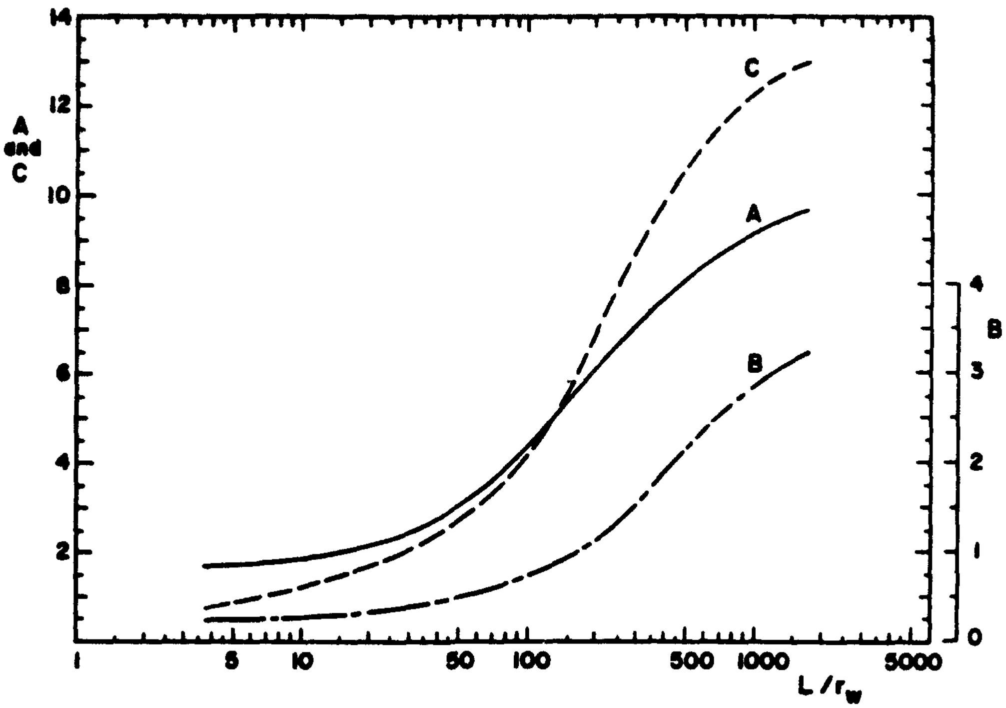

Fig. 3. Curves relating coefficients A, B, and C to L/r_w.

85% equipotential when R_e is laterally extended from the center of the open portion of the well. Thus most of the head loss in the flow system occurs in a cylinder with radius R_e, which is indicative of the horizontal extent of the portion of the aquifer sampled for K or T. The vertical extent is somewhat greater than L, as indicated by, for example, the 80% equipotential in Figure 2.

To estimate the rate of rise of the water level in a well after it is suddenly lowered, (5) can be written as

$$t = \frac{r_c^2}{2KL} \ln \frac{R_e}{r_w} \ln \frac{y_0}{y_t} \tag{10}$$

By taking $y_t = 0.9y_0$, (10) reduces to

$$t_{90\%} = 0.0527 \frac{r_c^2}{KL} \ln \frac{R_e}{r_w} \tag{11}$$

where $t_{90\%}$ is the time that it takes for the water level to rise 90% of the distance to the equilibrium level. By assuming a permeable aquifer with $K = 30$ m/day, a well with $r_c = 0.2$ m and $L = 10$ m, and $\ln (R_e/r_w) = 3$, (11) yields $t_{90\%} = 1.82$ s. Thus if y_0 is taken as 30 cm, it takes 1.8 s for the water level to rise 27 cm, another 1.8 s for the next 2.7 cm (90% of the remaining 3 cm), and another 1.8 s for the next 0.27 cm, or a total of 5.4 s for a rise of 29.97 cm. Measurement of this fast rise requires a sensitive and accurate transducer and a fast-response recorder. The rate of rise can be reduced by allowing groundwater to enter through only a portion of the open section of the well, as can be accomplished with packers.

For a moderately permeable aquifer with, for example, $K = 1$ m/day, a well with $r_c = 0.1$ m and $L = 20$ m, and $\ln (R_e/r_w) = 5$, (11) yields $t = 11.4$ s. In this case, it would take the water level 22.8 s to rise from 30 cm to 0.3 cm below static level.

EXAMPLE

A slug test was performed on a cased well in the alluvial deposits of the Salt River bed west of Phoenix, Arizona. The well, known as the east well, is located about 20 m east of six rapid infiltration basins for groundwater recharge with sewage effluent [*Bouwer*, 1970]. The static water table was at a depth of 3m, $D = 80$ m, $H = 5.5$ m, $L = 4.56$ m, $r_c = 0.076$ m, and r_w was taken as 0.12 m to allow for development of the aquifer around the perforated portion of the casing. A Statham PM131TC pressure transducer was suspended about 1 m below the static water level in the well (when trade names and company names are included, they are for the convenience of the reader and do not imply preferential endorsement of a particular product or company over others by the U.S. Department of Agriculture). A solid cylinder with a volume equivalent to a 0.32-m change in water level in the well was also placed below the water level. When the water level had returned to equilibrium, the cylinder was quickly removed. The transducer output, recorded on a Sargent millivolt recorder, yielded the y-t relationship shown in Figure 4 with y plotted on a logarithmic scale. The straight-line portion is the valid part of the readings. The actual y_0 value of 0.29 m indicated by the straight line is close to the theoretical value of 0.32 m calculated from the displacement of the submerged cylinder.

Extending the straight line in Figure 4 shows that for the arbitrarily selected t value of 20 s, $y = 0.0025$ m. Thus $(1/t) \ln y_0/y_t = 0.238$ s^{-1}. The value of $L/r_w = 38$, for which Figure 3 yields $A = 2.6$ and $B = 0.42$. Substituting these values into (8) and using the maximum value of 6 for $\ln [(D - H)/r_w]$ (since $\ln [(D - H)/r_w]$ for the well exceeds 6) yield $\ln (R_e/r_w) = 2.37$. Equation (5) then gives $K = 0.00036$ m/s $= 31$ m/day. This value agrees with K values of 10 and 53 m/day obtained previously with the tube method on two nearby observation wells [*Bouwer*, 1970]. These K values were essentially point measurements on the aquifer immediately around the well bottoms, which were at depths of 9.1 and 6.1 m, respectively.

COMPARISONS

Piezometer method. The geometry to which (8) and (9) and the coefficients in Figure 3 apply overlaps the geometry of the piezometer method at the lower values of L/r_w. With the piezometer method a cavity is augered out in the soil below a piezometer tube. The water level in the tube is abruptly lowered, and K of the soil around the cavity is calculated from the rate of rise of the water level in the tube [*Bouwer and Jackson*, 1974]. The equation for K is

$$K = \frac{\pi r_w^2}{A_Y}\frac{1}{t}\ln\frac{y_0}{y_t} \tag{12}$$

where A_Y is a geometry factor with dimension of length. Values of A_Y were evaluated with an electrolytic tank analog by *Youngs* [1968], whose results were expressed in tabular form as A_Y/r_w for different values of L/r_w (ranging between 0 and 8), $(H - L)/r_w$, and $(D - H)/r_w$.

Taking a hypothetical case where $L/r_w = 8$, $H/r_w = 12$, and $D/r_w = 16$, K calculated with (5) is 18% below K calculated with (12). This is more than the 10% error normally expected with (8) and (9) for the L/H value of 0.67 in this case. The larger discrepancy may be due to the difference in methodology, or to the fact that the L/r_w value is close to the lower limit of the range covered on the resistance network analog.

An approximate equation for calculating K with the piezometer method was presented by *Hvorslev* [1951]. The equation, which is based on the assumptions of an ellipsoidal cavity or well screen and infinite vertical extent (upward and downward) of the flow system, contains a term $[1 + (L/2r_w)^2]^{1/2}$. For most well-slug-test geometries, $L/2r_w$ will be sufficiently large to permit replacement of this term by $L/2r_w$. In that case, however, Hvorslev's equation for Q yields $R_e = L$, which is not true. In reality, R_e is considerably less than L. For example, if $L = 40$ m, $r_w = 0.4$ m, $H = 80$ m, and $D = \infty$, (8) shows that $R_e = 11.9$ m, which is much less than the value of 40 m indicated by Hvorslev's equation. However, since the calculation of K is based on $\ln(R_e/r_w)$ as shown by (5), the error in K is less than the error in R_e (i.e., 36 and 236%, respectively, in this case).

If, for the above example, the top of the well screen or cavity had been taken at the same level as the water table ($H = 40$ m), R_e would have been 8.6 m and Hvorslev's equation would have yielded a K value that is 50% higher than K given by (5). The larger error is probably due to Hvorslev's assumption of infinite vertical (upward) extent of the flow system, which is not met when the cavity is immediately below the water table. Using Hvorslev's equation for cavities immediately below a confining layer would increase the error to 73%, but this, of course, is due to the fact that a water table is not a solid boundary. Hvorslev's equation for the confining layer case can be shown to yield $R_e = 2L$.

Auger hole method. The analog analyses for (8) and (9) and Figure 3 were performed for $L < H$, because short circuiting between the water table and the well prevented simulation of the case where $L = H$. If the analog results are extrapolated to $L = H$, however, the geometry of the system in Figure 1 becomes similar to that of the auger hole technique, for which a number of equations and graphs have been developed to calculate K from the rise of the water level in the well [*Bouwer and Jackson*, 1974]. *Boast and Kirkham* [1971], for example, developed the equation

$$K = C_{BK}\frac{\Delta y}{\Delta t} \tag{13}$$

where C_{BK} was determined mathematically and expressed in tabular form for various values of L/r_w, $(D - H)/r_w$, and y_0/H. Since the rate of rise of the water level in the hole after the removal of a slug of water decreases with decreasing y, $\Delta y/\Delta t$ is not a constant and the value of K obtained with this procedure depends on the magnitude of Δy used in the field measurements. The general rule is that Δy should be relatively small.

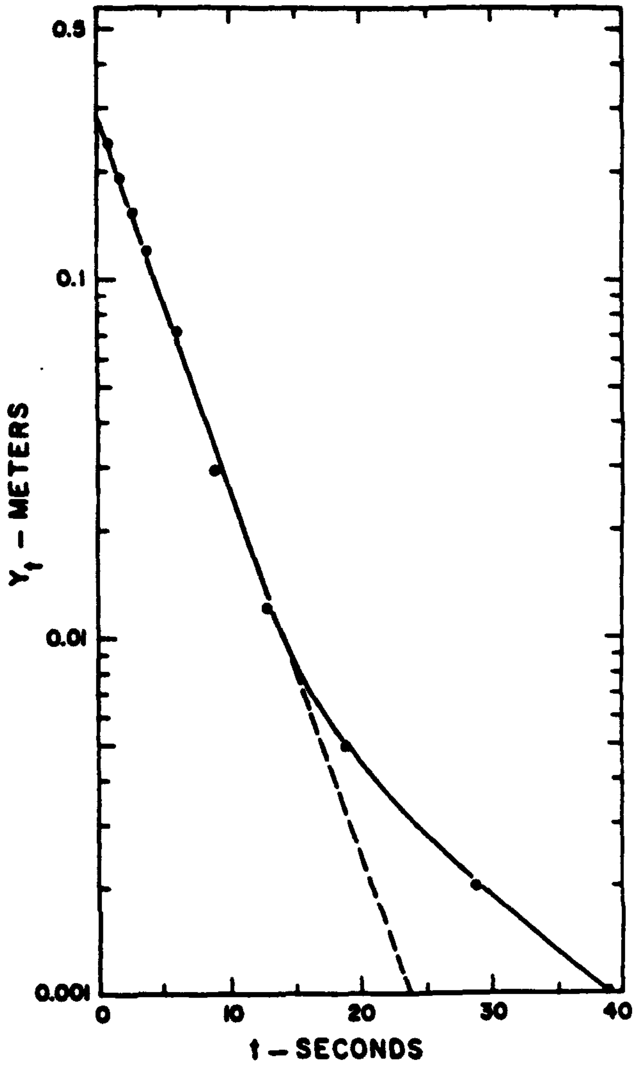

Fig. 4. Plot of y versus t for slug test on east well.

Taking a hypothetical case where $y_0 = 2.5$ m, $y_t = 2.4$ m, $\Delta t = 10$ s, $L = H = 5$ m, $D = 6$ m, and $r_w = 0.1$ m, (5) yields a K value that is 36% lower than K calculated with (13). However, if y_t is taken as 0.5 m, which should give $\Delta t = 394$ s according to the theory that $(1/t)\ln y_0/y_t$ is constant, the K value yielded by (5) is 26% higher than K obtained with (13). If y_t is taken as 0.9 m, (5) and (13) give identical results.

Slug test on wells in confined aquifers. The confined aquifer for which the slug test by *Cooper et al.* [1967] was developed is an aquifer with an internal water source, for example, recharge through aquitards or compression of confining layers or other material. This situation is similar to that of the unconfined aquifer presented in this paper because the water table is considered horizontal, like the upper boundary of a confined aquifer, and the water table is a plane source. Thus K or T calculated with (5) or (6) should be of the same order as K calculated with the procedure of *Cooper et al.* [1967], which involves plotting the rise of the water level in the well and finding the best fit on a family of type curves. *Cooper et al.* [1967] presented an example of the calculation of T for a well with $r_c = r_w = 0.076$ m and $L = 98$ m. The resulting value of T was 45.8 m²/day. Values of D and H for this well were not given. However, since the well was 122 m deep and completely penetrating (at least theoretically), D and H must have been between 98 and 122 m. Assuming that both D and H were 100 m, (6) yields $T = 62.8$ m²/day, which is compatible with T obtained by Cooper et al.

CONCLUSIONS

The hydraulic conductivity of an aquifer near a well can be calculated from the rise of the water level in the well after a slug of water is suddenly removed. The calculation is based on the Thiem equation, using an effective radius R_e for the distance over which the head difference between the equilibrium water table in the aquifer and the water level in the well is dissipated. Values of R_e were evaluated by electrical resistance network analog. An empirical equation was then developed to relate R_e to the geometry of the system. This equation is accurate to within 10–25%, depending on how much of the well below the water table is perforated or otherwise open. The technique is applicable to partially or completely penetrating wells in unconfined aquifers. It can also be used to estimate the hydraulic conductivity of confined aquifers that receive water from the upper confining layer through recharge or compression.

The vertical distance between the rising water level in the well and the equilibrium water table in the aquifer must yield a straight line when it is plotted on a logarithmic scale against time. This can be used to check the validity of field measurements and to obtain the best-fitting line for calculating the hydraulic conductivity. Permeable aquifers produce rapidly rising water levels that can be measured with fast-response pressure transducers and strip chart recorders or x-y plotters. The portion of the aquifer sampled for hydraulic conductivity with the slug test is approximately a cylinder with radius R_e and a height somewhat larger than the perforated or otherwise open section of the well.

Hydraulic conductivity values obtained with the proposed slug test are compatible with those yielded by the auger hole and piezometer techniques where the geometries of the systems overlap, and by a slug test for completely penetrating wells in confined aquifers.

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INTERNATIONAL TECHNOLOGY CORPORATION

September 11, 1992

IT Project No.: 409721

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Report on Results of Additional Slug Tests at Arizona Air National Guard Base (Sky Harbor ANGB) and Papago Military Reservation, General Order Number 12B-99886C, Task Order K-09; (A1T116)

Dear Fritz:

Enclosed are the results of the subject tests made during July 27 - 30, 1992. These tests were conducted to supplement existing data in the Draft Final Site Investigation (SI) Report dated August 1992. These results will be incorporated in the Final SI Report as explained below.

All remaining wells were slug tested except MWS-03. As discussed at the August 4, 1992 meeting in Phoenix, Arizona, this well was disturbed by construction activities in the area and could not be located. It is recommended that the Base locate the well and make any repairs as necessary to restore the well's integrity.

Table 3-0 provides the results of all slug tests. Groundwater flow velocity was calculated using the measured hydraulic conductivity (K; ft/yr) and applying the dimensionless values for hydraulic gradient (i = 0.002 (min); 0.005 (max))[1/] and porosity (η = 0.50 (min); 0.25 (max)) in the equation:

$$V = Ki/\eta$$

Velocities are expressed in ft/yr and cm/s as requested by the Air National Guard Readiness Center.

As a result of the additional tests and existing data, the minimum and maximum flow at the Base and Papago are calculated as follows:

	Min.	Max.
Base:	3.0×10^{-5} cm/s (31 ft/yr)	1.3×10^{-3} cm/s (1,304 ft/yr)
Papago:	6.0×10^{-8} cm/s (0.1 ft/yr)	5.6×10^{-6} cm/s (6 ft/yr)

1/ i = 0.001 (min); 0.01 (max) for Papago.

The SI Report, Pages 3-2 through 3-4, will be changed to reflect the slug tests results as indicated in Attachment 1, and a new Table 3-0 will be added (Attachment 2).

Please call if you have any questions.

Sincerely,

Don Willen
Project Manager

DW:ltd
Attachments

depths ranging from 66 to 83 feet below land surface, depending on location and water table fluctuations. These depths correspond to water-table elevations of 1,048 to 1,032 feet msl. Samples of aquifer materials collected during drilling indicate that the uppermost portion of the aquifer consists of medium-to coarse-grained sand and gravel.

Appendix J contains a listing of water level measurements conducted during the investigation; hydrographs of monitoring wells at the Base are presented in Figures 3-2 and 3-3. The hydrographs depict a general rising trend in all wells and piezometers at the Base beginning between days 50 and 70 of the monitoring period (March to April); this is tentatively correlated with the occurrence of flow in the Salt River, south of the site. During the June 1991 measurement period, water levels remained above January through March levels. Heavy rains increased water levels in March 1992.

A and March 26, 1992,

Figures 3-4 through 3-6 present potentiometric maps for measurement dates ~~of~~ February 20, April 18-19, ~~and~~ AND June 30, 1991, respectively. February measurements were taken at the completion of the first phase of field activities, prior to flow in the river. April measurements were collected prior to the first round of groundwater sampling. June measurements were collected prior to the confirmation groundwater sampling. The February map, in general, depicts a groundwater flow direction to the northwest and a hydraulic gradient of approximately 0.002 foot/foot. The April map depicts a similar northwest flow direction with a hydraulic gradient of approximately 0.005 foot per foot. The change in gradient is likely associated with river flow conditions. The June map also depicts a northwest groundwater flow direction and a hydraulic gradient of approximately 0.0025 foot per foot. The gradient in March 1992 was approximately 0.005 foot per foot and the flow direction maintained a northwesterly direction.

Hydraulic conductivity of the upper alluvial unit has been measured to be approximately 180 to 1,700 feet per day or 6×10^{-2} to 6×10^{-1} cm/s (Brown and Pool, 1989). Slug tests at the Base also indicate high K values, ranging from 6.3 x 10^{-2} cm/s (MWS-01) ~~to 5 x 10^{-2} cm/s (MW1-02).~~
7.4 x 10^{-3} cm/s (MW2-02) to

Review of boring logs contained in Appendix E indicates that the most prevalent aquifer materials are coarse sand and gravel. Published values of porosity for these materials range from 25 to 50 percent (Freeze and Cherry, 1979). Using the hydraulic gradients and K values previously discussed, an average interstitial groundwater flow velocity can be calculated using the following equation:

$$V = (Ki)/n$$

where:

V = Average velocity (L/T)

K = Hydraulic conductivity (L/T)

i = Hydraulic gradient (dimensionless)

n = Effective porosity (dimensionless)

The minimum groundwater flow velocity is thus calculated to be approximately ~~2.4×10^{-2}~~ 3.0×10^{-5} cm/s (~~248~~ 31 ft/yr) to a maximum of ~~1.2×10^{2}~~ 1.3×10^{-3} cm/s (~~12,400~~ 1304 ft/yr). These velocities represent an average rate through various materials along a selected flow path. Groundwater will flow at different rates and directions depending on local variations in grain size and hydraulic conductivity. TABLE 3-0 PROVIDES THE HYDRAULIC CONDUCTIVITY AND GROUNDWATER VELOCITIES FOR THE BASE.

3.1.2 Papago Military Reservation

3.1.2.1 Geology

As discussed in Section 1.5.4, Papago Military Reservation is set in an area of intermixed sedimentary and volcanic deposits. Borings from piezometers and monitoring wells indicate the presence of caliche to a depth of approximately 10 feet bgl and volcanic breccia underlying the caliche. These geologic data are consistent with the presence of Quaternary alluvium and colluvium and the Barnes Butte Member of the Tertiary Camels Head Formation underlying the site. A diagrammatic geological cross section of the Papago area is presented in Figure 3-7.

3.1.2.2 Hydrology

Two monitoring wells and three piezometers were installed during the SI at Papago Military Reservation (Figure 2-7). Groundwater occurs at a depth of approximately 27 to 37 feet below ground level, corresponding to an elevation of 1,211 to 1,214 feet msl. Water occurs under unconfined conditions in very low to moderately permeable bedrock. Figure 3-8 presents a hydrograph of monitoring wells and piezometers at Papago; individual water-level measurements are presented in Appendix J.

Observations made during drilling and development of piezometers and monitoring wells suggest that groundwater flow at Papago is primarily controlled by fractures in well-indurated deposits. As depicted in the hydrograph, PP-03 and MW4-01 required more than one week for water levels to recover to elevations similar to those observed in surrounding wells and their eventual static levels following development and sampling. Other wells and piezometers produce water readily.

Groundwater flow direction at Papago is generally northwesterly or southwesterly, depending on measurement points used to calculate the flow direction. A westerly-oriented wedge-like groundwater mound also causes groundwater to flow northwesterly and southwesterly. The hydraulic gradient is approximately 0.001 foot/foot to 0.01 foot/foot. Groundwater flow conditions for February and April 1991 are provided in Figures 3-9 and 3-10 respectively.

THROUGH AND MARCH 1992,

INSERT (1)

Hydraulic conductivity at Papago was not measured during the SI due to field logistics. Slug tests were scheduled to be conducted after groundwater sampling was completed; however, due to the slowly recharging nature of the wells, water levels had not yet returned to pre-sampling or static conditions prior to demobilization of field crews.

3.2 Background Sampling Results

To evaluate the significance of concentrations of detected compounds at each investigation site, a background soil and groundwater characterization effort was conducted. Background soil samples were collected away from known waste management units and groundwater samples were collected from locations upgradient of facilities at both the 161AREFG and at Papago. Soil sampling depths varied due to the geology and are discussed in Section 3.2.1 (161AREFG) and Section 3.2.2 (Papago).

A

Analytical Data Discussion. The following sections discuss the results of chemical analytical data obtained as a result of soil and groundwater samples collected at the Base and Papago during the SI. Analytical data have been validated based on guidelines established by the U.S. EPA and described in the documents "Functional Guidelines for Evaluating Organic Analyses" (U.S. EPA, 1988a) and "Functional Guidelines for Evaluating Inorganic Analyses" (U.S. EPA, 1988b). Thus, results presented herein have been evaluated in conjunction with respective field and lab QC samples. The validation includes adding data qualifiers to alert data users of conditions in the laboratory setting that may have affected sample data. This might include conditions such as method blank contamination or instrument calibration inconsistencies. These conditions are not new to chemical analytical laboratories, but as a result of the data validation process, data users may be ensured that data are valid and accurate to the highest degree possible as indicated by the unique qualifiers. Following are definitions of the data qualifiers used by laboratories and in the validation process:

U - The material was analyzed for, but was not detected. The associated value is the sample quantitation limit.

J - The associated numerical value is an estimated quantity.

Insert 1 to Attachment 1

Hydraulic conductivity at Papago is extremely slow and slug tests required long recovery times. As indicated in Table 3-0, the minimum groundwater flow velocity is approximately 6.0×10^{-8} cm/s (0.1 ft/yr) to a maximum of 5.6×10^{-6} cm/s (6 ft/yr).

TABLE 3-0
HYDRAULIC CONDUCTIVITIES AND GROUNDWATER VELOCITIES AT SKY HARBOR ANGB AND PAPAGO
161 AREFG, PHOENIX, ARIZONA

WELL	HYDRAULIC CONDUCTIVITY FT/YR[a]	VELOCITY FT/YR	HYDRAULIC CONDUCTIVITY CM/S[b]	VELOCITY CM/S
SKY HARBOR				
MW1-02	54,836	1,097	5.3×10^{-2}	1.1×10^{-3}
MW2-02	7,674	31	7.4×10^{-3}	3.0×10^{-5}
MW3-01	57,711	1,154	5.5×10^{-2}	1.1×10^{-3}
MW3-02	46,989	940	4.5×10^{-2}	9.0×10^{-4}
MW5-01	17,502	350	1.7×10^{-2}	3.4×10^{-4}
MWS-01	65,183	1,304	6.3×10^{-2}	1.3×10^{-3}
MWS-02	29,234	585	2.8×10^{-2}	5.6×10^{-4}
MWS-03	[c]			
MWS-04	28,908	578	2.8×10^{-2}	5.6×10^{-4}
PAPAGO				
MW4-01	148	6	1.4×10^{-4}	5.6×10^{-6}
MW4-02	31	0.1	3.0×10^{-5}	6.0×10^{-8}

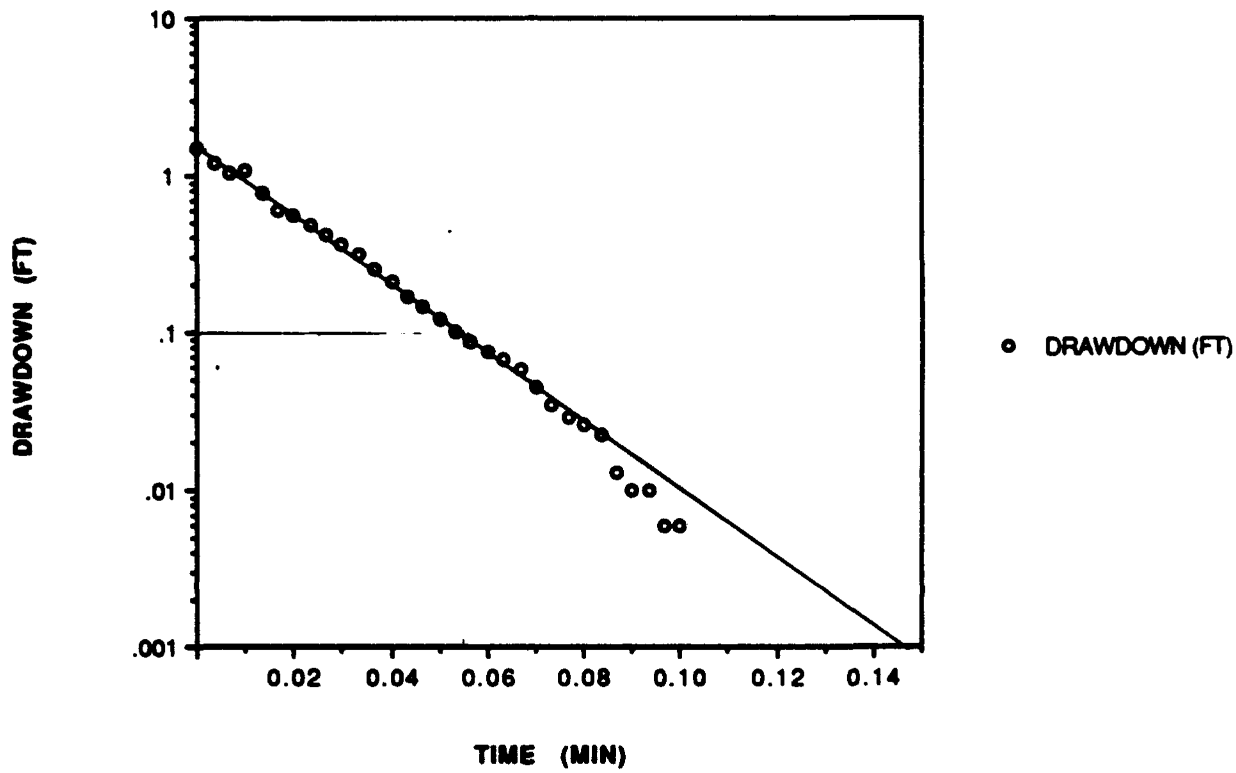
[a] FT/YR = feet/year
[b] CM/S = centimeters/second
[c] Note, MWS-03 was not slug tested due to construction disturbance.

WELL	SLUG IN/OUT	HYDRAULIC CONDUCTIVITY (FT/MIN)	HYDRAULIC CONDUCTIVITY (FT/SEC)
MW2-02	OUT	1.460E-02	2.433E-04
MW3-01	OUT	1.098E-01	1.830E-03
MW3-02	OUT	8.940E-02	1.490E-03
MW4-01	IN	2.810E-04	4.683E-06
MW4-01	OUT	8.980E-05	1.497E-06
MW4-02	IN	8.210E-05	1.368E-06
MW4-02	OUT	5.920E-05	9.867E-07
MW5-01	OUT	3.330E-02	5.550E-04
MWS-02	IN	5.562E-02	9.270E-04
MWS-04	OUT	5.500E-02	9.167E-04

MW202OUT.SLUG

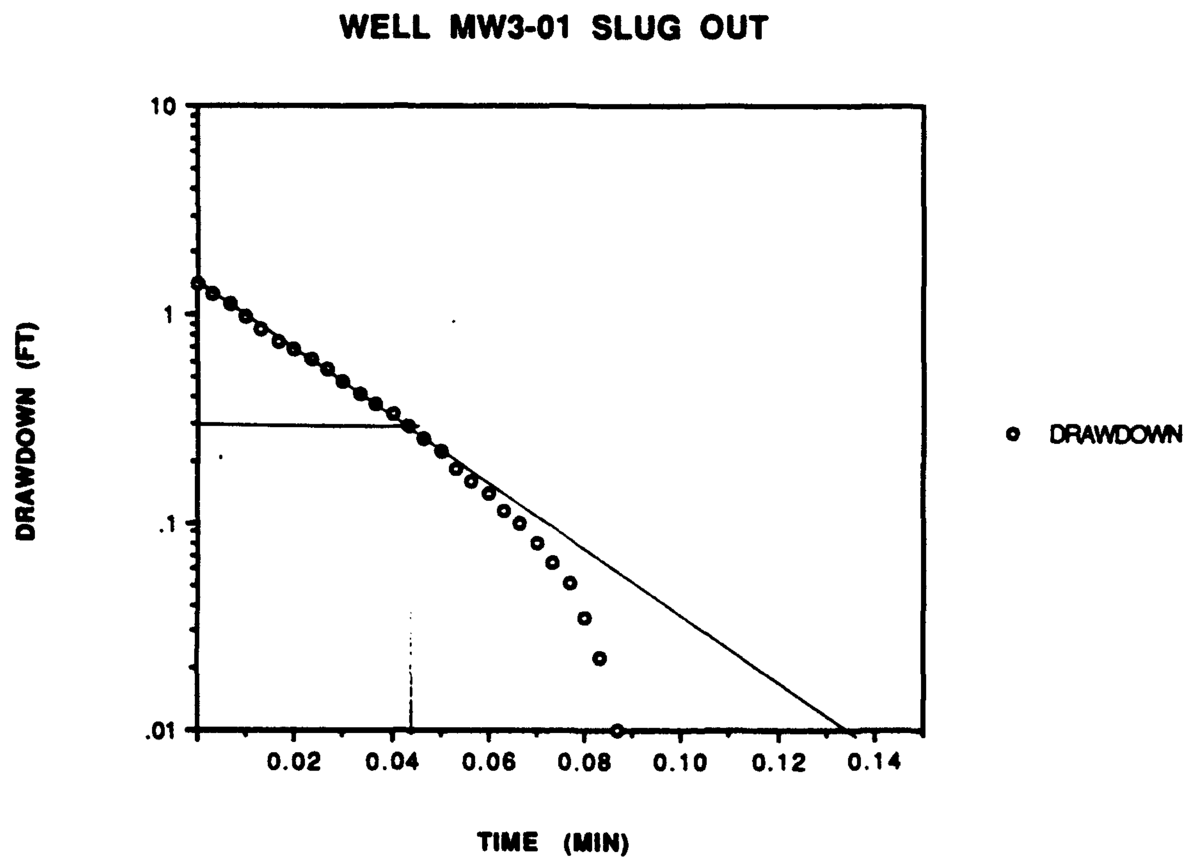
INITIAL DRAWDOWN/BUILDUP, Y0	1.468
DRAWDOWN/BUILDUP AT TIME T, YT	0.1
TIME, T	0.55
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	48.9
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.62373317
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.01459048

WELL MW2-02 SLUG OUT



	TIME	DRAWDOWN	TIME (MIN)
1	0.0366	1.468	0.000
2	0.0400	1.181	0.003
3	0.0433	1.032	0.007
4	0.0466	1.060	0.010
5	0.0500	0.780	0.013
6	0.0533	0.592	0.017
7	0.0566	0.560	0.020
8	0.0600	0.481	0.023
9	0.0633	0.411	0.027
10	0.0666	0.366	0.030
11	0.0700	0.306	0.033
12	0.0733	0.252	0.037
13	0.0766	0.207	0.040
14	0.0800	0.169	0.043
15	0.0833	0.143	0.047
16	0.0866	0.121	0.050
17	0.0900	0.099	0.053
18	0.0933	0.086	0.057
19	0.0966	0.076	0.060
20	0.1000	0.067	0.063
21	0.1033	0.057	0.067
22	0.1066	0.045	0.070
23	0.1100	0.035	0.073
24	0.1133	0.029	0.077
25	0.1166	0.026	0.080
26	0.1200	0.022	0.083
27	0.1233	0.013	0.087
28	0.1266	0.010	0.090
29	0.1300	0.010	0.093
30	0.1333	0.006	0.097
31	0.1366	0.006	0.100

INITIAL DRAWDOWN/BUILDUP, Y0	1.404
DRAWDOWN/BUILDUP AT TIME T, YT	0.3
TIME, T	0.042
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	49.88
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.62047313
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.10976101



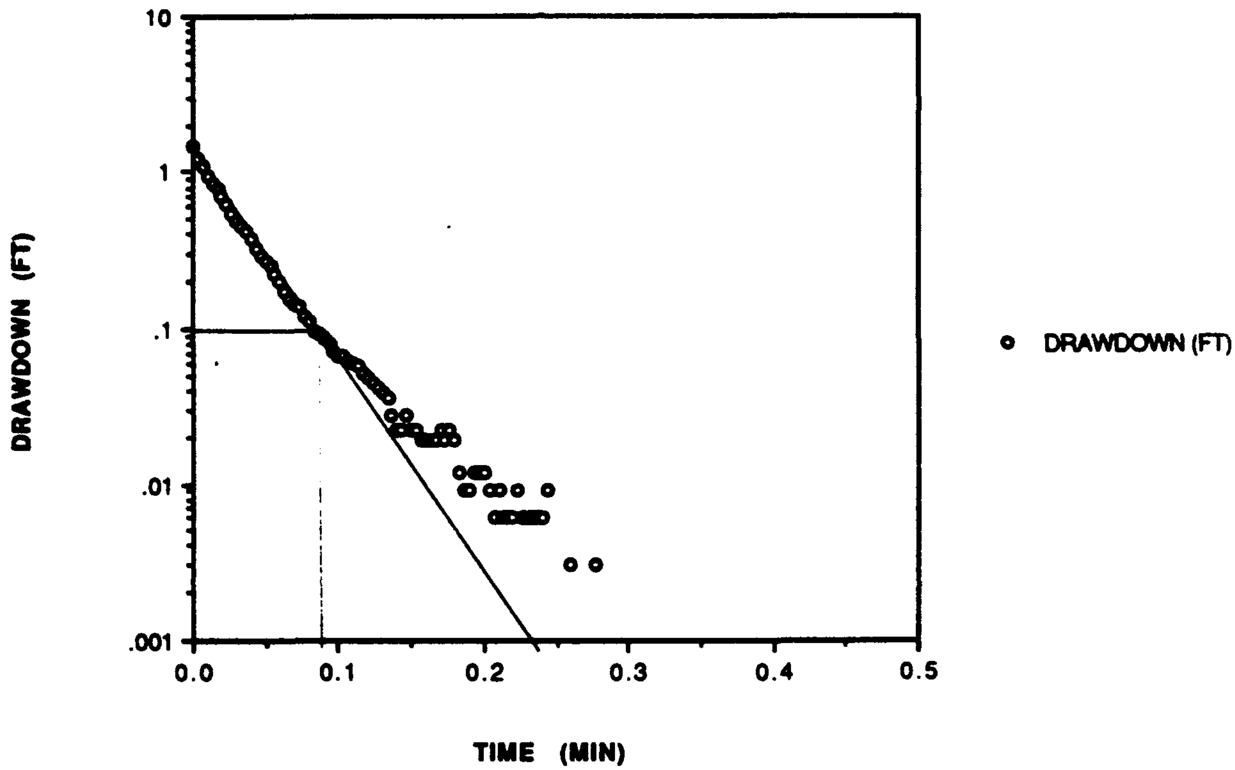
WELL MW3-01 SLUG OUT
10
1
.1
.01
DRAWDOWN (FT)
0.02
0.04
0.06
0.08
0.10
0.12
0.14
TIME (MIN)
DRAWDOWN

	TIME	DRAWDOWN	TIME (MIN)
1	0.0800	1.404	0.000
2	0.0833	1.267	0.003
3	0.0866	1.127	0.007
4	0.0900	0.981	0.010
5	0.0933	0.860	0.013
6	0.0966	0.751	0.017
7	0.1000	0.678	0.020
8	0.1033	0.615	0.023
9	0.1066	0.545	0.027
10	0.1100	0.484	0.030
11	0.1133	0.420	0.033
12	0.1166	0.369	0.037
13	0.1200	0.331	0.040
14	0.1233	0.293	0.043
15	0.1266	0.252	0.047
16	0.1300	0.220	0.050
17	0.1333	0.182	0.053
18	0.1366	0.159	0.057
19	0.1400	0.137	0.060
20	0.1433	0.115	0.063
21	0.1466	0.099	0.067
22	0.1500	0.080	0.070
23	0.1533	0.064	0.073
24	0.1566	0.051	0.077
25	0.1600	0.035	0.080
26	0.1633	0.022	0.083
27	0.1666	0.010	0.087

MW302OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	1.48
DRAWDOWN/BUILDUP AT TIME T, YT	0.1
TIME, T	0.09
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	49.96
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.62020653
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.08943423

WELL MW3-02 SLUG OUT



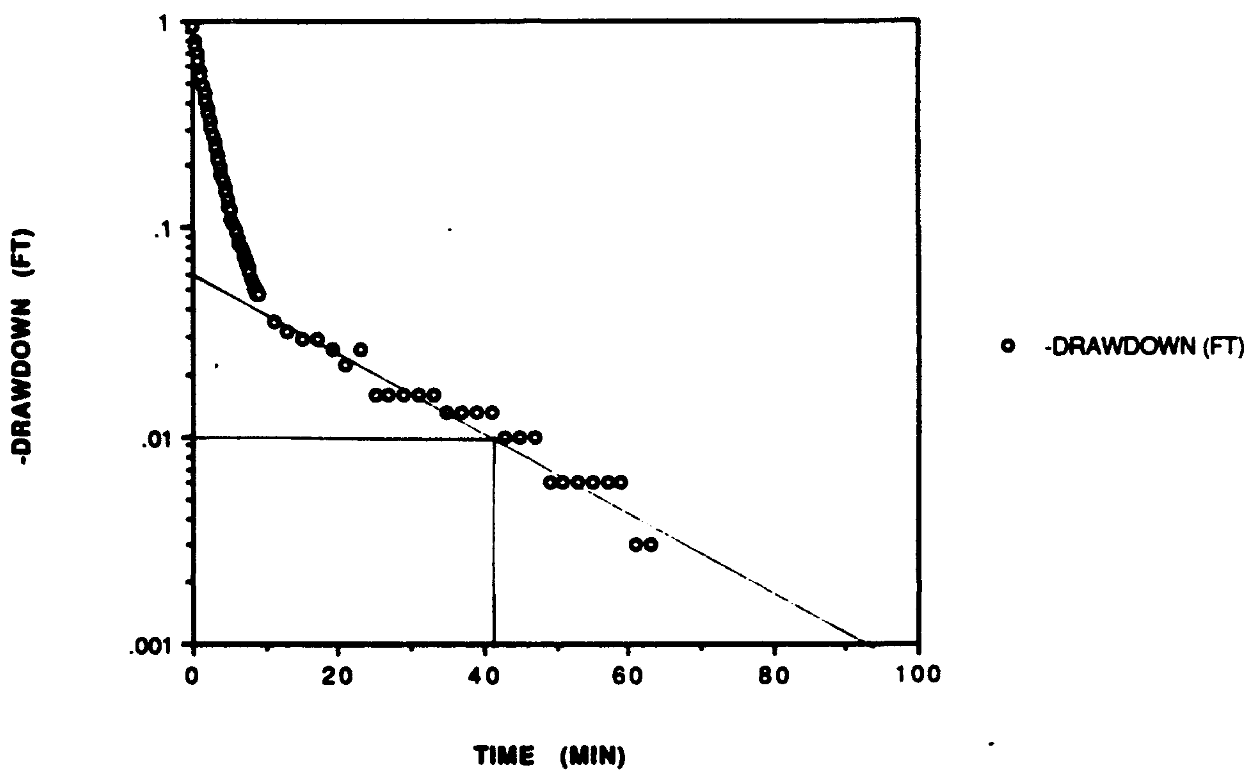
	TIME	DRAWDOWN	TIME (MIN)
1	0.0900	1.480	0.000
2	0.0933	1.206	0.003
3	0.0966	1.098	0.007
4	0.1000	0.961	0.010
5	0.1033	0.856	0.013
6	0.1066	0.783	0.017
7	0.1100	0.694	0.020
8	0.1133	0.621	0.023
9	0.1166	0.554	0.027
10	0.1200	0.496	0.030
11	0.1233	0.458	0.033
12	0.1266	0.417	0.037
13	0.1300	0.372	0.040
14	0.1333	0.328	0.043
15	0.1366	0.289	0.047
16	0.1400	0.267	0.050
17	0.1433	0.254	0.053
18	0.1466	0.229	0.057
19	0.1500	0.203	0.060
20	0.1533	0.175	0.063
21	0.1566	0.156	0.067
22	0.1600	0.146	0.070
23	0.1633	0.137	0.073
24	0.1666	0.121	0.077
25	0.1700	0.111	0.080
26	0.1733	0.095	0.083
27	0.1766	0.092	0.087
28	0.1800	0.086	0.090
29	0.1833	0.079	0.093
30	0.1866	0.073	0.097
31	0.1900	0.067	0.100
32	0.1933	0.067	0.103
33	0.1966	0.063	0.107
34	0.2000	0.060	0.110
35	0.2033	0.057	0.113
36	0.2066	0.051	0.117
37	0.2100	0.047	0.120
38	0.2133	0.044	0.123
39	0.2166	0.041	0.127
40	0.2200	0.038	0.130
41	0.2233	0.035	0.133
42	0.2266	0.028	0.137
43	0.2300	0.022	0.140
44	0.2333	0.022	0.143
45	0.2366	0.028	0.147
46	0.2400	0.022	0.150
47	0.2433	0.022	0.153
48	0.2466	0.019	0.157
49	0.2500	0.019	0.160
50	0.2533	0.019	0.163
51	0.2566	0.019	0.167
52	0.2600	0.022	0.170
53	0.2633	0.019	0.173
54	0.2666	0.022	0.177
55	0.2700	0.019	0.180
56	0.2733	0.012	0.183

	TIME	DRAWDOWN	TIME (MIN)
57	0.2766	0.009	0.187
58	0.2800	0.009	0.190
59	0.2833	0.012	0.193
60	0.2866	0.012	0.197
61	0.2900	0.012	0.200
62	0.2933	0.009	0.203
63	0.2966	0.006	0.207
64	0.3000	0.009	0.210
65	0.3033	0.006	0.213
66	0.3066	0.006	0.217
67	0.3100	0.006	0.220
68	0.3133	0.009	0.223
69	0.3166	0.006	0.227
70	0.3200	0.006	0.230
71	0.3233	0.006	0.233
72	0.3266	0.006	0.237
73	0.3300	0.006	0.240
74	0.3333	0.009	0.243
75	0.3500	0.003	0.260
76	0.3666	0.003	0.277

MW401IN.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	0.06
DRAWDOWN/BUILDUP AT TIME T, YT	0.01
TIME, T	41
SCREEN LENGTH, L	20
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	19.73
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	3
COEFFICIENT B	0.5
LN((D-H)/RW)	6.71620123
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	3.54132447
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.00028105

WELL MW4-01 SLUG IN

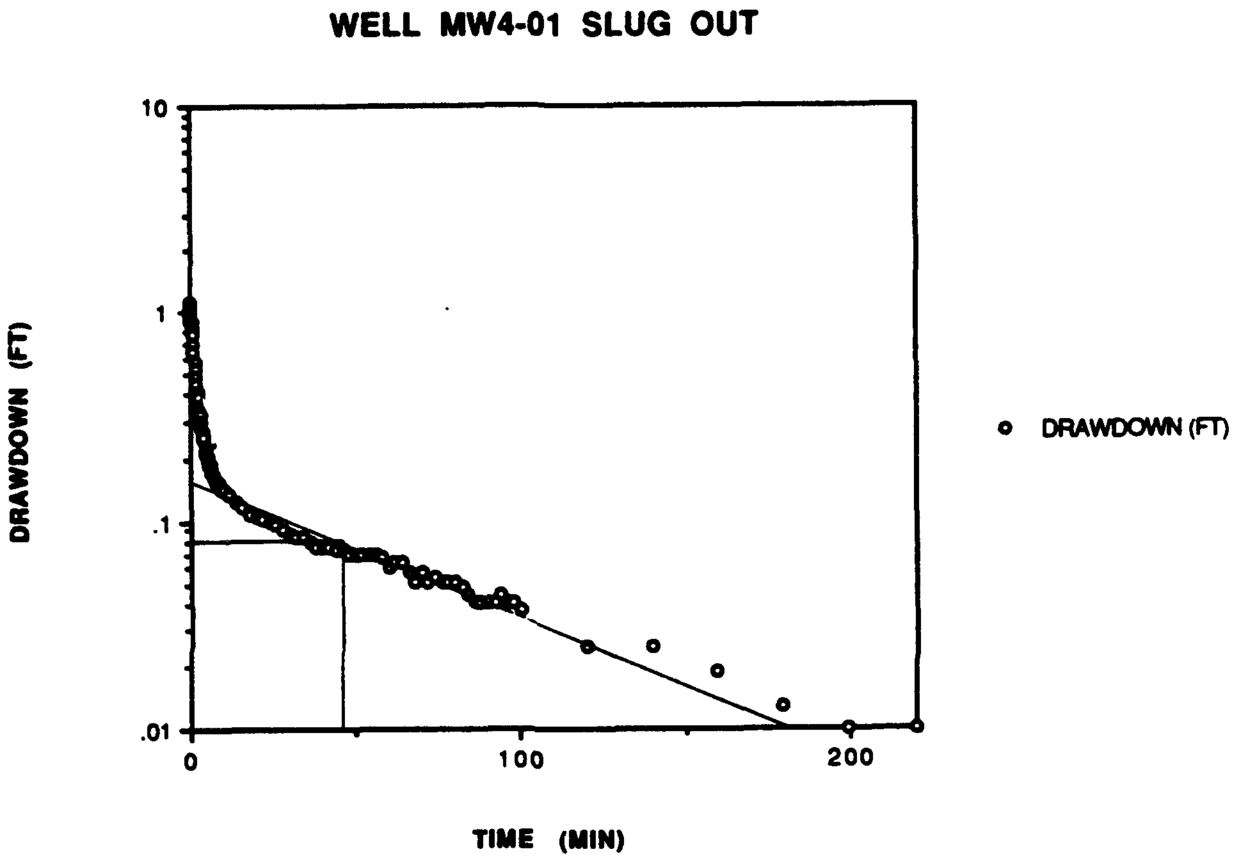


	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
1	1.0000	-0.936	0.000	0.936
2	1.2000	-0.806	0.200	0.806
3	1.4000	-0.767	0.400	0.767
4	1.6000	-0.697	0.600	0.697
5	1.8000	-0.637	0.800	0.637
6	2.0000	-0.583	1.000	0.583
7	2.2000	-0.538	1.200	0.538
8	2.4000	-0.494	1.400	0.494
9	2.6000	-0.452	1.600	0.452
10	2.8000	-0.417	1.800	0.417
11	3.0000	-0.385	2.000	0.385
12	3.2000	-0.357	2.200	0.357
13	3.4000	-0.328	2.400	0.328
14	3.6000	-0.306	2.600	0.306
15	3.8000	-0.280	2.800	0.280
16	4.0000	-0.261	3.000	0.261
17	4.2000	-0.242	3.200	0.242
18	4.4000	-0.226	3.400	0.226
19	4.6000	-0.210	3.600	0.210
20	4.8000	-0.194	3.800	0.194
21	5.0000	-0.182	4.000	0.182
22	5.2000	-0.169	4.200	0.169
23	5.4000	-0.156	4.400	0.156
24	5.6000	-0.147	4.600	0.147
25	5.8000	-0.137	4.800	0.137
26	6.0000	-0.127	5.000	0.127
27	6.2000	-0.121	5.200	0.121
28	6.4000	-0.111	5.400	0.111
29	6.6000	-0.105	5.600	0.105
30	6.8000	-0.099	5.800	0.099
31	7.0000	-0.096	6.000	0.096
32	7.2000	-0.089	6.200	0.089
33	7.4000	-0.083	6.400	0.083
34	7.6000	-0.080	6.600	0.080
35	7.8000	-0.076	6.800	0.076
36	8.0000	-0.073	7.000	0.073
37	8.2000	-0.070	7.200	0.070
38	8.4000	-0.067	7.400	0.067
39	8.6000	-0.064	7.600	0.064
40	8.8000	-0.061	7.800	0.061
41	9.0000	-0.057	8.000	0.057
42	9.2000	-0.054	8.200	0.054
43	9.4000	-0.051	8.400	0.051
44	9.6000	-0.051	8.600	0.051
45	9.8000	-0.048	8.800	0.048
46	10.0000	-0.048	9.000	0.048
47	12.0000	-0.035	11.000	0.035
48	14.0000	-0.032	13.000	0.032
49	16.0000	-0.029	15.000	0.029
50	18.0000	-0.029	17.000	0.029
51	20.0000	-0.026	19.000	0.026
52	22.0000	-0.022	21.000	0.022
53	24.0000	-0.026	23.000	0.026
54	26.0000	-0.016	25.000	0.016
55	28.0000	-0.016	27.000	0.016
56	30.0000	-0.016	29.000	0.016

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
57	32.0000	-0.016	31.000	0.016
58	34.0000	-0.016	33.000	0.016
59	36.0000	-0.013	35.000	0.013
60	38.0000	-0.013	37.000	0.013
61	40.0000	-0.013	39.000	0.013
62	42.0000	-0.013	41.000	0.013
63	44.0000	-0.010	43.000	0.010
64	46.0000	-0.010	45.000	0.010
65	48.0000	-0.010	47.000	0.010
66	50.0000	-0.006	49.000	0.006
67	52.0000	-0.006	51.000	0.006
68	54.0000	-0.006	53.000	0.006
69	56.0000	-0.006	55.000	0.006
70	58.0000	-0.006	57.000	0.006
71	60.0000	-0.006	59.000	0.006
72	62.0000	-0.003	61.000	0.003
73	64.0000	-0.003	63.000	0.003

MW401OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	0.15
DRAWDOWN/BUILDUP AT TIME T, YT	0.08
TIME, T	45
SCREEN LENGTH, L	20
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	19.73
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	3
COEFFICIENT B	0.5
LN((D-H)/RW)	6.71620123
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	3.54132447
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	8.9836E-05

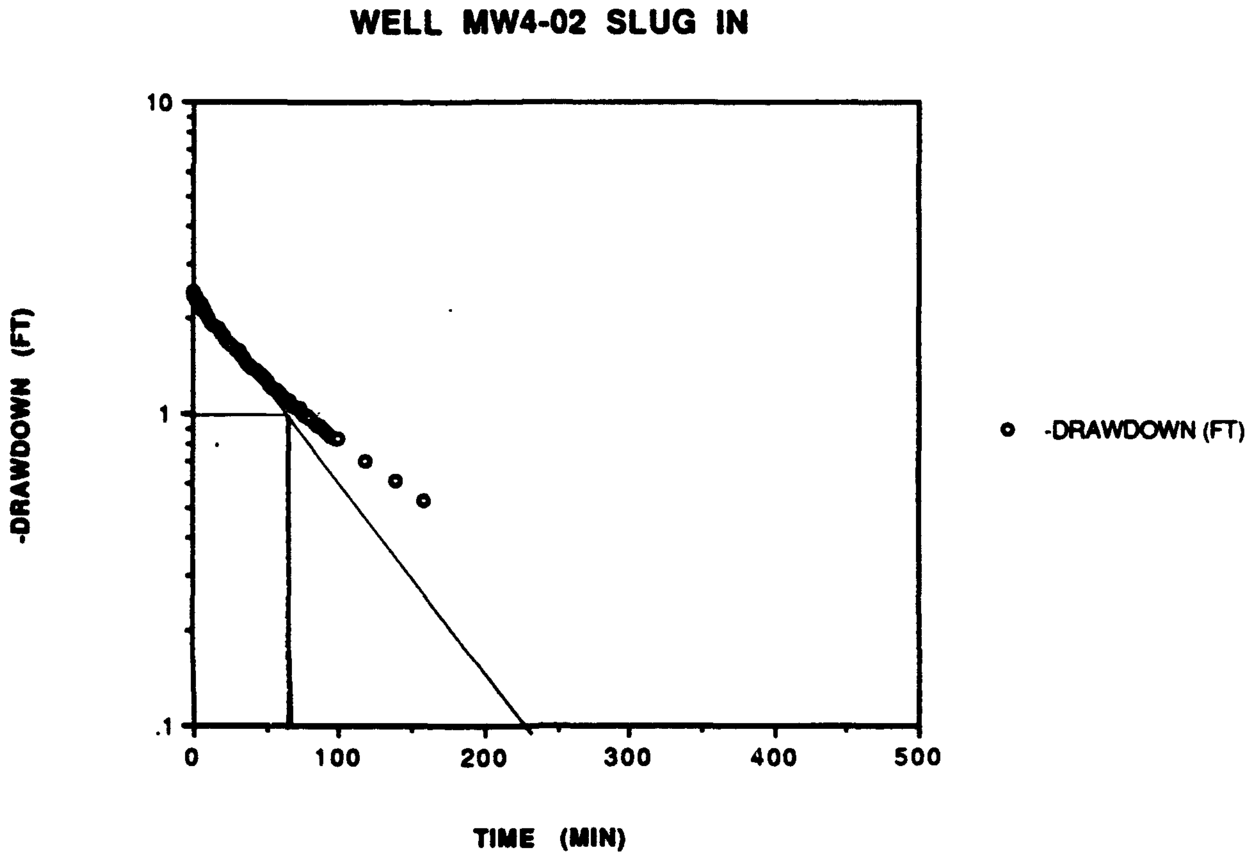

WELL MW4-01 SLUG OUT
DRAWDOWN (FT)
10
1
.1
.01
0
100
200
TIME (MIN)
DRAWDOWN (FT)

	TIME	DRAWDOWN	TIME (MIN)
1	0.3333	1.137	0.000
2	0.3500	1.124	0.017
3	0.3666	1.111	0.033
4	0.3833	1.099	0.050
5	0.4000	1.086	0.067
6	0.4166	1.073	0.083
7	0.4333	1.060	0.100
8	0.4500	1.048	0.117
9	0.4666	1.038	0.133
10	0.4833	1.025	0.150
11	0.5000	1.016	0.167
12	0.5166	1.006	0.183
13	0.5333	1.000	0.200
14	0.5500	0.987	0.217
15	0.5666	0.981	0.233
16	0.5833	0.971	0.250
17	0.6000	0.962	0.267
18	0.6166	0.952	0.283
19	0.6333	0.946	0.300
20	0.6500	0.936	0.317
21	0.6666	0.930	0.333
22	0.6833	0.920	0.350
23	0.7000	0.911	0.367
24	0.7166	0.904	0.383
25	0.7333	0.898	0.400
26	0.7500	0.888	0.417
27	0.7666	0.882	0.433
28	0.7833	0.876	0.450
29	0.8000	0.866	0.467
30	0.8166	0.860	0.483
31	0.8333	0.853	0.500
32	0.8500	0.847	0.517
33	0.8666	0.841	0.533
34	0.8833	0.831	0.550
35	0.9000	0.825	0.567
36	0.9166	0.818	0.583
37	0.9333	0.812	0.600
38	0.9500	0.806	0.617
39	0.9666	0.799	0.633
40	0.9833	0.793	0.650
41	1.0000	0.786	0.667
42	1.2000	0.701	0.867
43	1.4000	0.640	1.067
44	1.6000	0.586	1.267
45	1.8000	0.535	1.467
46	2.0000	0.494	1.667
47	2.2000	0.455	1.867
48	2.4000	0.420	2.067
49	2.6000	0.392	2.267
50	2.8000	0.344	2.467
51	3.0000	0.344	2.667
52	3.2000	0.322	2.867
53	3.4000	0.303	3.067
54	3.6000	0.287	3.267
55	3.8000	0.271	3.467
56	4.0000	0.261	3.667

	TIME	DRAWDOWN	TIME (MIN)
57	4.2000	0.248	3.867
58	4.4000	0.252	4.067
59	4.6000	0.229	4.267
60	4.8000	0.220	4.467
61	5.0000	0.213	4.667
62	5.2000	0.210	4.867
63	5.4000	0.204	5.067
64	5.6000	0.197	5.267
65	5.8000	0.191	5.467
66	6.0000	0.188	5.667
67	6.2000	0.185	5.867
68	6.4000	0.182	6.067
69	6.6000	0.175	6.267
70	6.8000	0.172	6.467
71	7.0000	0.169	6.667
72	7.2000	0.166	6.867
73	7.4000	0.162	7.067
74	7.6000	0.162	7.267
75	7.8000	0.159	7.467
76	8.0000	0.159	7.667
77	8.2000	0.156	7.867
78	8.4000	0.156	8.067
79	8.6000	0.153	8.267
80	8.8000	0.150	8.467
81	9.0000	0.150	8.667
82	9.2000	0.146	8.867
83	9.4000	0.146	9.067
84	9.6000	0.146	9.267
85	9.8000	0.143	9.467
86	10.0000	0.143	9.667
87	12.0000	0.134	11.667
88	14.0000	0.124	13.667
89	16.0000	0.118	15.667
90	18.0000	0.108	17.667
91	20.0000	0.105	19.667
92	22.0000	0.102	21.667
93	24.0000	0.099	23.667
94	26.0000	0.096	25.667
95	28.0000	0.092	27.667
96	30.0000	0.086	29.667
97	32.0000	0.083	31.667
98	34.0000	0.083	33.667
99	36.0000	0.080	35.667
100	38.0000	0.076	37.667
101	40.0000	0.076	39.667
102	42.0000	0.076	41.667
103	44.0000	0.073	43.667
104	46.0000	0.073	45.667
105	48.0000	0.070	47.667
106	50.0000	0.070	49.667
107	52.0000	0.070	51.667
108	54.0000	0.070	53.667
109	56.0000	0.070	55.667
110	58.0000	0.067	57.667
111	60.0000	0.061	59.667
112	62.0000	0.064	61.667

	TIME	DRAWDOWN	TIME (MIN)
113	64.0000	0.064	63.667
114	66.0000	0.057	65.667
115	68.0000	0.051	67.667
116	70.0000	0.057	69.667
117	72.0000	0.051	71.667
118	74.0000	0.054	73.667
119	76.0000	0.051	75.667
120	78.0000	0.051	77.667
121	80.0000	0.051	79.667
122	82.0000	0.048	81.667
123	84.0000	0.045	83.667
124	86.0000	0.041	85.667
125	88.0000	0.041	87.667
126	90.0000	0.041	89.667
127	92.0000	0.041	91.667
128	94.0000	0.045	93.667
129	96.0000	0.041	95.667
130	98.0000	0.041	97.667
131	100.0000	0.038	99.667
132	120.0000	0.025	119.667
133	140.0000	0.025	139.667
134	160.0000	0.019	159.667
135	180.0000	0.013	179.667
136	200.0000	0.010	199.667
137	220.0000	0.010	219.667
138	240.0000	0.010	239.667

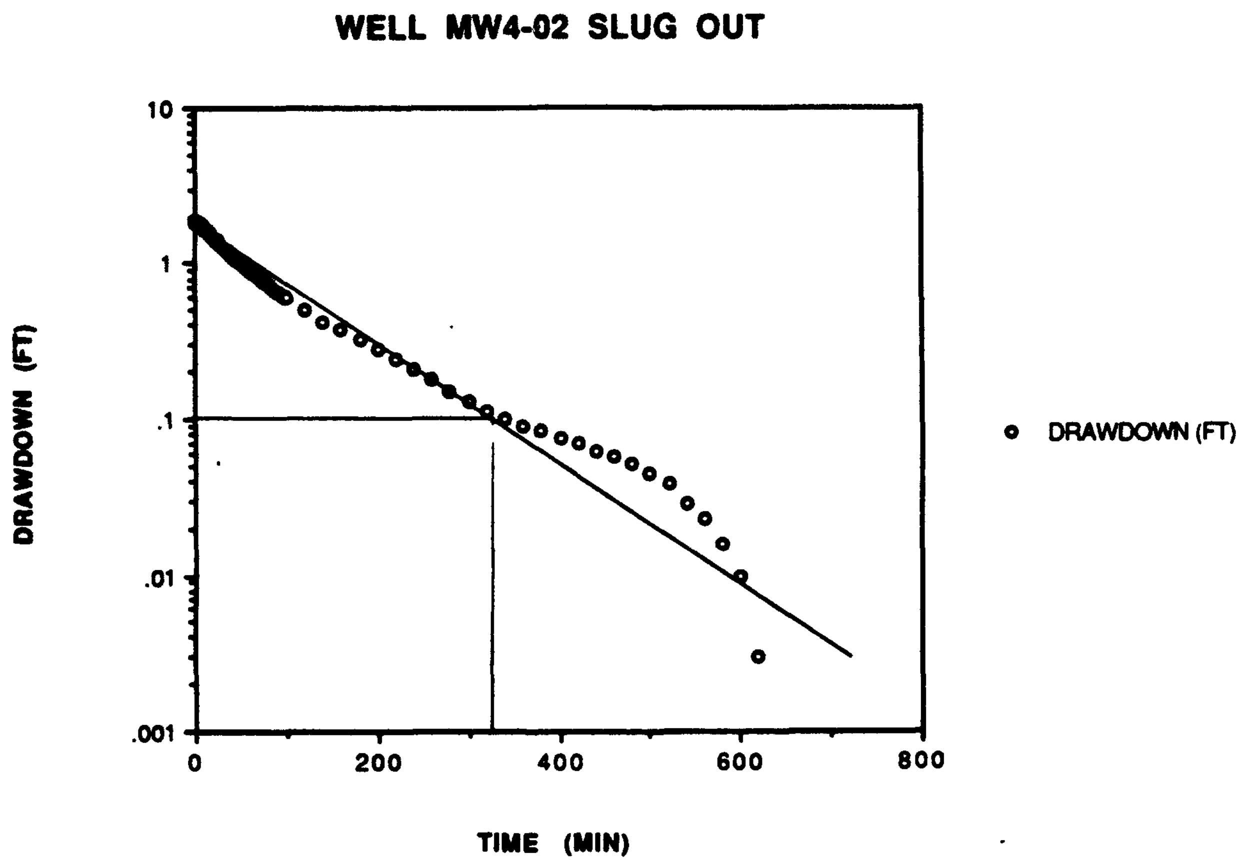
INITIAL DRAWDOWN/BUILDUP, Y0	2.445
DRAWDOWN/BUILDUP AT TIME T, YT	1
TIME, T	70
SCREEN LENGTH, L	20
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	20.24
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	3
COEFFICIENT B	0.5
LN((D-H)/RW)	6.71465585
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	3.54132447
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	8.2138E-05


WELL MW4-02 SLUG IN
10
1
.1
0
100
200
300
400
500
TIME (MIN)
-DRAWDOWN (FT)
-DRAWDOWN (FT)

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
1	1.2000	-2.445	0.000	2.445
2	1.4000	-2.432	0.200	2.432
3	1.6000	-2.416	0.400	2.416
4	1.8000	-2.404	0.600	2.404
5	2.0000	-2.391	0.800	2.391
6	2.2000	-2.381	1.000	2.381
7	2.4000	-2.372	1.200	2.372
8	2.6000	-2.359	1.400	2.359
9	2.8000	-2.353	1.600	2.353
10	3.0000	-2.343	1.800	2.343
11	3.2000	-2.327	2.000	2.327
12	3.4000	-2.314	2.200	2.314
13	3.6000	-2.308	2.400	2.308
14	3.8000	-2.305	2.600	2.305
15	4.0000	-2.295	2.800	2.295
16	4.2000	-2.289	3.000	2.289
17	4.4000	-2.279	3.200	2.279
18	4.6000	-2.273	3.400	2.273
19	4.8000	-2.279	3.600	2.279
20	5.0000	-2.270	3.800	2.270
21	5.2000	-2.260	4.000	2.260
22	5.4000	-2.251	4.200	2.251
23	5.6000	-2.238	4.400	2.238
24	5.8000	-2.228	4.600	2.228
25	6.0000	-2.222	4.800	2.222
26	6.2000	-2.216	5.000	2.216
27	6.4000	-2.209	5.200	2.209
28	6.6000	-2.203	5.400	2.203
29	6.8000	-2.193	5.600	2.193
30	7.0000	-2.184	5.800	2.184
31	7.2000	-2.174	6.000	2.174
32	7.4000	-2.165	6.200	2.165
33	7.6000	-2.155	6.400	2.155
34	7.8000	-2.149	6.600	2.149
35	8.0000	-2.142	6.800	2.142
36	8.2000	-2.139	7.000	2.139
37	8.4000	-2.136	7.200	2.136
38	8.6000	-2.127	7.400	2.127
39	8.8000	-2.120	7.600	2.120
40	9.0000	-2.111	7.800	2.111
41	9.2000	-2.104	8.000	2.104
42	9.4000	-2.098	8.200	2.098
43	9.6000	-2.091	8.400	2.091
44	9.8000	-2.085	8.600	2.085
45	10.0000	-2.082	8.800	2.082
46	12.0000	-2.015	10.800	2.015
47	14.0000	-1.958	12.800	1.958
48	16.0000	-1.913	14.800	1.913
49	18.0000	-1.859	16.800	1.859
50	20.0000	-1.818	18.800	1.818
51	22.0000	-1.760	20.800	1.760
52	24.0000	-1.719	22.800	1.719
53	26.0000	-1.678	24.800	1.678
54	28.0000	-1.633	26.800	1.633
55	30.0000	-1.598	28.800	1.598
56	32.0000	-1.572	30.800	1.572

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
57	34.0000	-1.522	32.800	1.522
58	36.0000	-1.493	34.800	1.493
59	38.0000	-1.451	36.800	1.451
60	40.0000	-1.416	38.800	1.416
61	42.0000	-1.388	40.800	1.388
62	44.0000	-1.359	42.800	1.359
63	46.0000	-1.346	44.800	1.346
64	48.0000	-1.308	46.800	1.308
65	50.0000	-1.286	48.800	1.286
66	52.0000	-1.260	50.800	1.260
67	54.0000	-1.229	52.800	1.229
68	56.0000	-1.213	54.800	1.213
69	58.0000	-1.181	56.800	1.181
70	60.0000	-1.159	58.800	1.159
71	62.0000	-1.136	60.800	1.136
72	64.0000	-1.124	62.800	1.124
73	66.0000	-1.104	64.800	1.104
74	68.0000	-1.088	66.800	1.088
75	70.0000	-1.066	68.800	1.066
76	72.0000	-1.047	70.800	1.047
77	74.0000	-1.031	72.800	1.031
78	76.0000	-1.003	74.800	1.003
79	78.0000	-0.987	76.800	0.987
80	80.0000	-0.983	78.800	0.983
81	82.0000	-0.961	80.800	0.961
82	84.0000	-0.936	82.800	0.936
83	86.0000	-0.920	84.800	0.920
84	88.0000	-0.913	86.800	0.913
85	90.0000	-0.894	88.800	0.894
86	92.0000	-0.875	90.800	0.875
87	94.0000	-0.866	92.800	0.866
88	96.0000	-0.853	94.800	0.853
89	98.0000	-0.837	96.800	0.837
90	100.0000	-0.827	98.800	0.827
91	120.0000	-0.703	118.800	0.703
92	140.0000	-0.605	138.800	0.605
93	160.0000	-0.528	158.800	0.528

INITIAL DRAWDOWN/BUILDUP, Y0	1.898
DRAWDOWN/BUILDUP AT TIME T, YT	0.1
TIME, T	320
SCREEN LENGTH, L	20
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	20.24
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	3
COEFFICIENT B	0.5
LN((D-H)/RW)	6.71465585
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	3.54132447
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	5.9153E-05


WELL MW4-02 SLUG OUT
DRAWDOWN (FT)
10
1
.1
.01
.001
0
200
400
600
800
TIME (MIN)
DRAWDOWN (FT)

	TIME	DRAWDOWN	TIME (MIN)
1	0.31	1.90	0.00
2	0.32	1.90	0.00
3	0.32	1.90	0.01
4	0.32	1.90	0.01
5	0.33	1.90	0.01
6	0.33	1.90	0.02
7	0.33	1.89	0.02
8	0.35	1.89	0.04
9	0.37	1.89	0.05
10	0.38	1.89	0.07
11	0.40	1.89	0.09
12	0.42	1.89	0.10
13	0.43	1.89	0.12
14	0.45	1.89	0.14
15	0.47	1.89	0.15
16	0.48	1.89	0.17
17	0.50	1.89	0.19
18	0.52	1.89	0.20
19	0.53	1.89	0.22
20	0.55	1.88	0.24
21	0.57	1.88	0.25
22	0.58	1.88	0.27
23	0.60	1.87	0.29
24	0.62	1.87	0.30
25	0.63	1.87	0.32
26	0.65	1.87	0.34
27	0.67	1.87	0.35
28	0.68	1.87	0.37
29	0.70	1.87	0.39
30	0.72	1.87	0.40
31	0.73	1.87	0.42
32	0.75	1.87	0.44
33	0.77	1.87	0.45
34	0.78	1.87	0.47
35	0.80	1.87	0.49
36	0.82	1.87	0.50
37	0.83	1.87	0.52
38	0.85	1.87	0.54
39	0.87	1.87	0.55
40	0.88	1.87	0.57
41	0.90	1.86	0.59
42	0.92	1.86	0.60
43	0.93	1.86	0.62
44	0.95	1.86	0.64
45	0.97	1.86	0.65
46	0.98	1.86	0.67
47	1.00	1.86	0.69
48	1.20	1.85	0.89
49	1.40	1.85	1.09
50	1.60	1.85	1.29
51	1.80	1.84	1.49
52	2.00	1.84	1.69
53	2.20	1.84	1.89
54	2.40	1.84	2.09
55	2.60	1.84	2.29
56	2.80	1.84	2.49

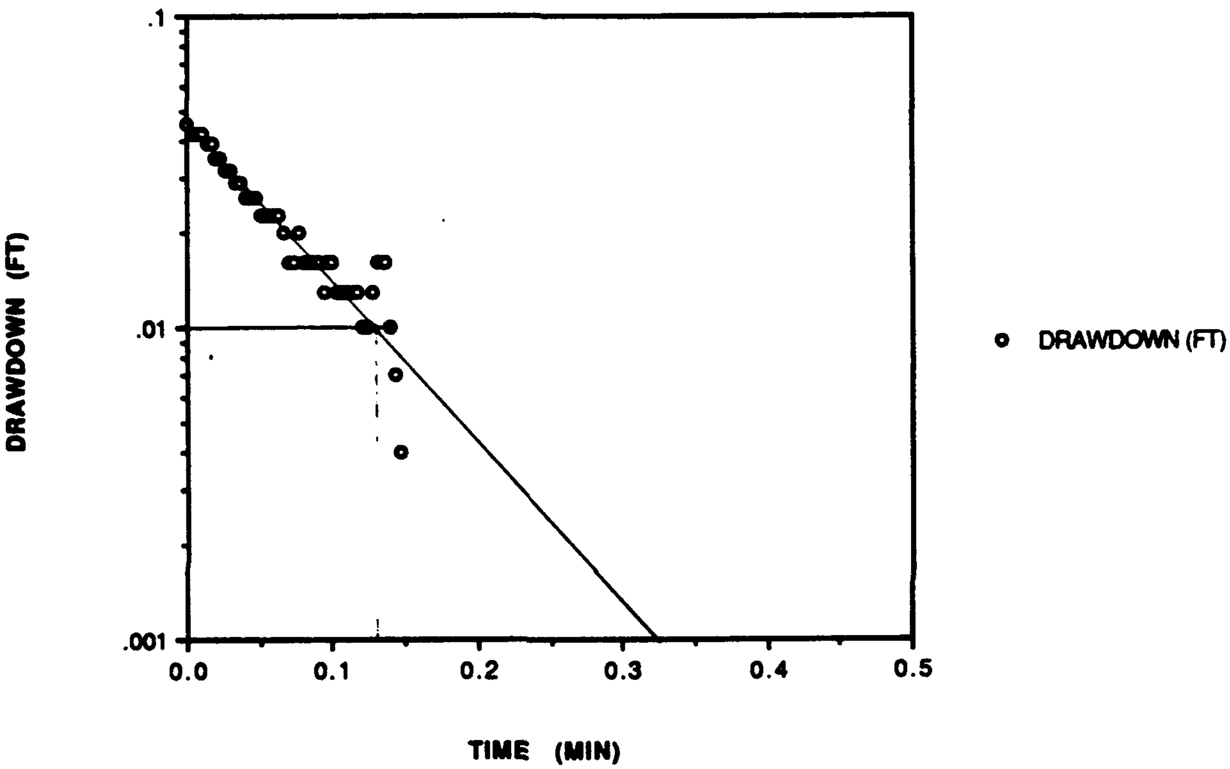
	TIME	DRAWDOWN	TIME (MIN)
57	3.00	1.84	2.69
58	3.20	1.83	2.89
59	3.40	1.83	3.09
60	3.60	1.83	3.29
61	3.80	1.83	3.49
62	4.00	1.82	3.69
63	4.20	1.82	3.89
64	4.40	1.82	4.09
65	4.60	1.82	4.29
66	4.80	1.82	4.49
67	5.00	1.81	4.69
68	5.20	1.81	4.89
69	5.40	1.81	5.09
70	5.60	1.81	5.29
71	5.80	1.81	5.49
72	6.00	1.81	5.69
73	6.20	1.80	5.89
74	6.40	1.80	6.09
75	6.60	1.80	6.29
76	6.80	1.80	6.49
77	7.00	1.80	6.69
78	7.20	1.79	6.89
79	7.40	1.79	7.09
80	7.60	1.78	7.29
81	7.80	1.77	7.49
82	8.00	1.77	7.69
83	8.20	1.77	7.89
84	8.40	1.77	8.09
85	8.60	1.76	8.29
86	8.80	1.76	8.49
87	9.00	1.75	8.69
88	9.20	1.75	8.89
89	9.40	1.74	9.09
90	9.60	1.73	9.29
91	9.80	1.73	9.49
92	10.00	1.72	9.69
93	12.00	1.67	11.70
94	14.00	1.62	13.70
95	16.00	1.57	15.70
96	18.00	1.52	17.70
97	20.00	1.49	19.70
98	22.00	1.44	21.70
99	24.00	1.40	23.70
100	26.00	1.36	25.70
101	28.00	1.32	27.70
102	30.00	1.29	29.70
103	32.00	1.26	31.70
104	34.00	1.24	33.70
105	36.00	1.20	35.70
106	38.00	1.18	37.70
107	40.00	1.15	39.70
108	42.00	1.11	41.70
109	44.00	1.10	43.70
110	46.00	1.07	45.70
111	48.00	1.04	47.70
112	50.00	1.02	49.70

	TIME	DRAWDOWN	TIME (MIN)
113	52.00	1.00	51.70
114	54.00	0.97	53.70
115	56.00	0.95	55.70
116	58.00	0.93	57.70
117	60.00	0.91	59.70
118	62.00	0.89	61.70
119	64.00	0.88	63.70
120	66.00	0.85	65.70
121	68.00	0.84	67.70
122	70.00	0.82	69.70
123	72.00	0.81	71.70
124	74.00	0.78	73.70
125	76.00	0.77	75.70
126	78.00	0.75	77.70
127	80.00	0.74	79.70
128	82.00	0.72	81.70
129	84.00	0.69	83.70
130	86.00	0.69	85.70
131	88.00	0.68	87.70
132	90.00	0.66	89.70
133	92.00	0.65	91.70
134	94.00	0.64	93.70
135	96.00	0.62	95.70
136	98.00	0.61	97.70
137	100.00	0.60	99.70
138	120.00	0.50	120.00
139	140.00	0.41	140.00
140	160.00	0.37	160.00
141	180.00	0.32	180.00
142	200.00	0.28	200.00
143	220.00	0.24	220.00
144	240.00	0.21	240.00
145	260.00	0.18	260.00
146	280.00	0.15	280.00
147	300.00	0.13	300.00
148	320.00	0.11	320.00
149	340.00	0.10	340.00
150	360.00	0.09	360.00
151	380.00	0.08	380.00
152	400.00	0.07	400.00
153	420.00	0.07	420.00
154	440.00	0.06	440.00
155	460.00	0.06	460.00
156	480.00	0.05	480.00
157	500.00	0.04	500.00
158	520.00	0.04	520.00
159	540.00	0.03	540.00
160	560.00	0.02	560.00
161	580.00	0.02	580.00
162	600.00	0.01	600.00
163	620.00	0.00	620.00

MW501OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	0.045
DRAWDOWN/BUILDUP AT TIME T, YT	0.01
TIME, T	0.135
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	49.99
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.62010654
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.03328005

WELL MW5-01 SLUG OUT



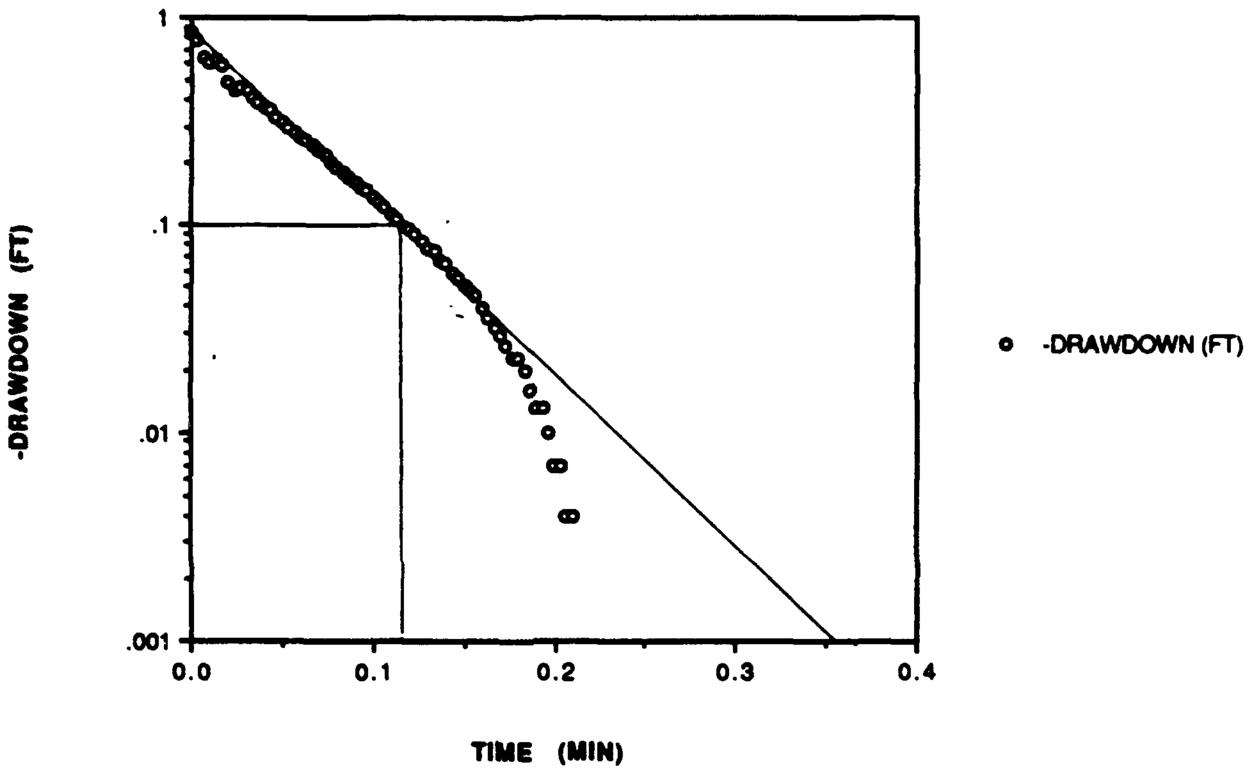
	TIME	DRAWDOWN	TIME (MIN)
1	0.1400	0.045	0.000
2	0.1433	0.042	0.003
3	0.1466	0.042	0.007
4	0.1500	0.042	0.010
5	0.1533	0.039	0.013
6	0.1566	0.039	0.017
7	0.1600	0.035	0.020
8	0.1633	0.035	0.023
9	0.1666	0.032	0.027
10	0.1700	0.032	0.030
11	0.1733	0.029	0.033
12	0.1766	0.029	0.037
13	0.1800	0.026	0.040
14	0.1833	0.026	0.043
15	0.1866	0.026	0.047
16	0.1900	0.023	0.050
17	0.1933	0.023	0.053
18	0.1966	0.023	0.057
19	0.2000	0.023	0.060
20	0.2033	0.023	0.063
21	0.2066	0.020	0.067
22	0.2100	0.016	0.070
23	0.2133	0.016	0.073
24	0.2166	0.020	0.077
25	0.2200	0.016	0.080
26	0.2233	0.016	0.083
27	0.2266	0.016	0.087
28	0.2300	0.016	0.090
29	0.2333	0.013	0.093
30	0.2366	0.016	0.097
31	0.2400	0.016	0.100
32	0.2433	0.013	0.103
33	0.2466	0.013	0.107
34	0.2500	0.013	0.110
35	0.2533	0.013	0.113
36	0.2566	0.013	0.117
37	0.2600	0.010	0.120
38	0.2633	0.010	0.123
39	0.2666	0.013	0.127
40	0.2700	0.016	0.130
41	0.2733	0.016	0.133
42	0.2766	0.016	0.137
43	0.2800	0.010	0.140
44	0.2833	0.007	0.143
45	0.2866	0.004	0.147
46	0.2400	0.016	0.100
47	0.2433	0.013	0.103
48	0.2466	0.013	0.107
49	0.2500	0.013	0.110
50	0.2533	0.013	0.113
51	0.2566	0.013	0.117
52	0.2600	0.010	0.120
53	0.2633	0.010	0.123
54	0.2666	0.013	0.127
55	0.2700	0.016	0.130
56	0.2733	0.016	0.133

	TIME	DRAWDOWN	TIME (MIN)
57	0.2766	0.016	0.137
58	0.2800	0.010	0.140
59	0.2833	0.007	0.143
60	0.2866	0.004	0.147

MWS02IN.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	0.851
DRAWDOWN/BUILDUP AT TIME T, YT	0.1
TIME, T	0.115
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	51.98
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.61345133
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.05561801

WELL MWS-02 SLUG IN

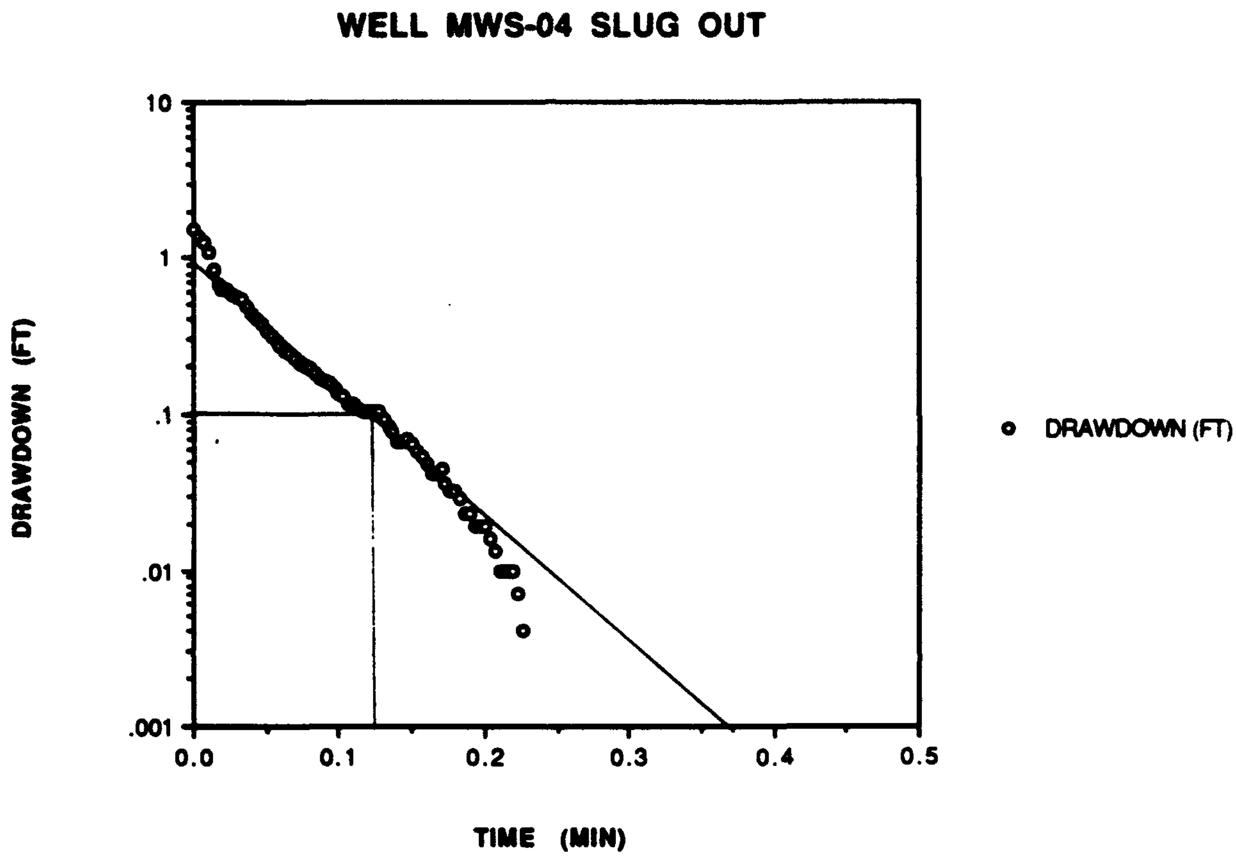


	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
1	0.1000	-0.851	0.000	0.851
2	0.1033	-0.787	0.003	0.787
3	0.1066	-0.640	0.007	0.640
4	0.1100	-0.612	0.010	0.612
5	0.1133	-0.631	0.013	0.631
6	0.1166	-0.589	0.017	0.589
7	0.1200	-0.494	0.020	0.494
8	0.1233	-0.449	0.023	0.449
9	0.1266	-0.459	0.027	0.459
10	0.1300	-0.449	0.030	0.449
11	0.1333	-0.414	0.033	0.414
12	0.1366	-0.386	0.037	0.386
13	0.1400	-0.373	0.040	0.373
14	0.1433	-0.357	0.043	0.357
15	0.1466	-0.335	0.047	0.335
16	0.1500	-0.316	0.050	0.316
17	0.1533	-0.300	0.053	0.300
18	0.1566	-0.284	0.057	0.284
19	0.1600	-0.268	0.060	0.268
20	0.1633	-0.255	0.063	0.255
21	0.1666	-0.242	0.067	0.242
22	0.1700	-0.230	0.070	0.230
23	0.1733	-0.217	0.073	0.217
24	0.1766	-0.204	0.077	0.204
25	0.1800	-0.191	0.080	0.191
26	0.1833	-0.179	0.083	0.179
27	0.1866	-0.169	0.087	0.169
28	0.1900	-0.160	0.090	0.160
29	0.1933	-0.153	0.093	0.153
30	0.1966	-0.147	0.097	0.147
31	0.2000	-0.137	0.100	0.137
32	0.2033	-0.128	0.103	0.128
33	0.2066	-0.121	0.107	0.121
34	0.2100	-0.112	0.110	0.112
35	0.2133	-0.106	0.113	0.106
36	0.2166	-0.099	0.117	0.099
37	0.2200	-0.096	0.120	0.096
38	0.2233	-0.090	0.123	0.090
39	0.2266	-0.083	0.127	0.083
40	0.2300	-0.077	0.130	0.077
41	0.2333	-0.074	0.133	0.074
42	0.2366	-0.067	0.137	0.067
43	0.2400	-0.064	0.140	0.064
44	0.2433	-0.058	0.143	0.058
45	0.2466	-0.055	0.147	0.055
46	0.2500	-0.051	0.150	0.051
47	0.2533	-0.048	0.153	0.048
48	0.2566	-0.045	0.157	0.045
49	0.2600	-0.039	0.160	0.039
50	0.2633	-0.035	0.163	0.035
51	0.2666	-0.032	0.167	0.032
52	0.2700	-0.029	0.170	0.029
53	0.2733	-0.026	0.173	0.026
54	0.2766	-0.023	0.177	0.023
55	0.2800	-0.023	0.180	0.023
56	0.2833	-0.020	0.183	0.020

	TIME	DRAWDOWN	TIME (MIN)	-DRAWDOWN
57	0.2866	-0.016	0.187	0.016
58	0.2900	-0.013	0.190	0.013
59	0.2933	-0.013	0.193	0.013
60	0.2966	-0.010	0.197	0.010
61	0.3000	-0.007	0.200	0.007
62	0.3033	-0.007	0.203	0.007
63	0.3066	-0.004	0.207	0.004
64	0.3100	-0.004	0.210	0.004

MWS04OUT.SLUG

INITIAL DRAWDOWN/BUILDUP, Y0	1
DRAWDOWN/BUILDUP AT TIME T, YT	0.1
TIME, T	0.125
SCREEN LENGTH, L	50
INITIAL SATURATED THICKNESS, D	350
DISTANCE FROM BOTTOM OF SCREEN TO WATER TABLE,H	49.1
WELL RADIUS (INCLUDING GRAVEL PACK), RW	0.4
CASING RADIUS, RC	0.16
GRAVEL PACK POROSITY (0 IF SIMILAR TO FORMATION), N	0.35
NEW RC BASED ON GRAVEL PACK POROSITY	0.26951809
COEFFICIENT A	5
COEFFICIENT B	0.85
LN((D-H)/RW)	6.62306872
IF LN((D-H)/RW)>6 THEN SET IT EQUAL TO 6 HERE OTHERWISE COPY IT	6
LN(RE/RW)	4.11217647
ESTIMATE OF HYDRAULIC CONDUCTIVITY, K	0.05502414


WELL MWS-04 SLUG OUT
10
1
.1
.01
.001
0.0
0.1
0.2
0.3
0.4
0.5
DRAWDOWN (FT)
TIME (MIN)
DRAWDOWN (FT)

	TIME	DRAWDOWN	TIME (MIN)
1	0.0733	1.513	0.000
2	0.0766	1.347	0.003
3	0.0800	1.252	0.007
4	0.0833	1.086	0.010
5	0.0866	0.847	0.013
6	0.0900	0.688	0.017
7	0.0933	0.640	0.020
8	0.0966	0.624	0.023
9	0.1000	0.596	0.027
10	0.1033	0.574	0.030
11	0.1066	0.535	0.033
12	0.1100	0.488	0.037
13	0.1133	0.437	0.040
14	0.1166	0.405	0.043
15	0.1200	0.370	0.047
16	0.1233	0.341	0.050
17	0.1266	0.312	0.053
18	0.1300	0.296	0.057
19	0.1333	0.274	0.060
20	0.1366	0.252	0.063
21	0.1400	0.239	0.067
22	0.1433	0.223	0.070
23	0.1466	0.211	0.073
24	0.1500	0.201	0.077
25	0.1533	0.195	0.080
26	0.1566	0.182	0.083
27	0.1600	0.169	0.087
28	0.1633	0.160	0.090
29	0.1666	0.153	0.093
30	0.1700	0.144	0.097
31	0.1733	0.134	0.100
32	0.1766	0.128	0.103
33	0.1800	0.118	0.107
34	0.1833	0.115	0.110
35	0.1866	0.109	0.113
36	0.1900	0.105	0.117
37	0.1933	0.105	0.120
38	0.1966	0.102	0.123
39	0.2000	0.102	0.127
40	0.2033	0.093	0.130
41	0.2066	0.083	0.133
42	0.2100	0.077	0.137
43	0.2133	0.067	0.140
44	0.2166	0.067	0.143
45	0.2200	0.070	0.147
46	0.2233	0.064	0.150
47	0.2266	0.058	0.153
48	0.2300	0.054	0.157
49	0.2333	0.048	0.160
50	0.2366	0.042	0.163
51	0.2400	0.042	0.167
52	0.2433	0.045	0.170
53	0.2466	0.035	0.173
54	0.2500	0.032	0.177
55	0.2533	0.032	0.180
56	0.2566	0.029	0.183

	TIME	DRAWDOWN	TIME (MIN)
57	0.2600	0.023	0.187
58	0.2633	0.023	0.190
59	0.2666	0.019	0.193
60	0.2700	0.019	0.197
61	0.2733	0.019	0.200
62	0.2766	0.016	0.203
63	0.2800	0.013	0.207
64	0.2833	0.010	0.210
65	0.2866	0.010	0.213
66	0.2900	0.010	0.217
67	0.2933	0.010	0.220
68	0.2966	0.007	0.223
69	0.3000	0.004	0.227

APPENDIX J

POTENTIOMETRIC MEASUREMENTS

APPENDIX J

POTENTIOMETRIC MEASUREMENTS
DEPTH TO WATER
161 ST AREFG, PHOENIX, ARIZONA

LOCATION:		PS-01	PS-02	PS-03	PP-01	PP-02	PP-03	MWS-01	MWS-02	MWS-03
NORTHING:		9822.40	8992.99	9916.67	13666.88	13022.75	13675.97	9484.29	8941.36	8620.48
EASTING:		12315.52	10050.94	10066.64	6114.69	5919.85	5744.84	11768.37	10847.55	10430.88
TOC ELEVATION:		1119.78	1113.86	1113.83	1245.22	1251.07	1239.42	1118.40	1115.61	1115.84
MEASUREMENT		DEPTH TO WATER								
DATE	DAY									
19-JAN-91	19	76.12	81.82	83.48						
20-JAN-91	20	74.95	80.58	80.45						
21-JAN-91	21	76.21	83.72	75.54						
22-JAN-91	22	76.18	76.25	75.51						
23-JAN-91	23	76.20	75.25	75.58	30.74	36.63	61.77			
28-JAN-91	28	77.41	76.20	76.54						
29-JAN-91	29				30.84	37.45	32.30			
31-JAN-91	31				31.44	37.22	42.09			
01-FEB-91	32	76.51	75.20	75.78	31.26	37.14	37.16			
04-FEB-91	35		75.25	75.83	31.18	37.27	30.36			
05-FEB-91	36				31.16	37.20	29.66			
06-FEB-91	37	76.68	75.37	75.76	30.97	37.14	29.07			
07-FEB-91	38				30.92	37.93	28.69			
08-FEB-91	39	75.75	75.46	75.92	30.88	37.19	28.62	77.27	75.22	76.50
12-FEB-91	43	76.88	75.51	76.02	30.76	37.15	28.36	77.40	75.41	76.85
20-FEB-91	51	77.12	75.68	76.19	31.22	37.37	28.01	77.62	75.57	76.80
25-FEB-91	55									
20-MAR-91	78	74.46	74.12	75.04				75.59	73.74	75.04
21-MAR-91	79				31.09	37.28	28.02			
01-APR-91	91	72.98	72.74	73.75				74.15	72.29	73.50
02-APR-91	92				30.84	37.14	27.90			
18-APR-91	108	66.90		69.94				68.28	66.76	67.83
19-APR-91	109		67.99		30.07	37.54	27.80			
27-JUN-91	178				30.47	36.78	27.88			
30-JUN-91	181	72.26	71.40	73.06				72.88	70.99	72.30
26-MAR-92	451	53.90	50.46	57.67	29.20	34.92	26.59	53.32	51.99	47.05

APPJ/LOUTS

APPENDIX J

POTENTIOMETRIC MEASUREMENTS
DEPTH TO WATER (CONTINUED)
161 ST AREFG, PHOENIX, ARIZONA

LOCATION:		MWS-04	MW1-02	MW2-02	MW3-01	MW3-02	MW4-01	MW4-02	MW5-01
NORTHING:		9224.57	9992.28	9801.70	9611.01	9774.44	13733.29	13732.21	9345.98
EASTING:		10052.99	10606.30	10386.43	10082.74	9815.91	5749.44	5959.36	11050.01
TOC ELEVATION:		1114.67	1116.04	1114.20	1114.77	1112.14	1237.87	1241.69	1116.80
MEASUREMENT DATE	DAY	DEPTH TO WATER							
19-JAN-91	19								
20-JAN-91	20								
21-JAN-91	21								
22-JAN-91	22								
23-JAN-91	23								
28-JAN-91	28								
29-JAN-91	29								
31-JAN-91	31								
01-FEB-91	32								
04-FEB-91	35								
05-FEB-91	36								
06-FEB-91	37								
07-FEB-91	38								
08-FEB-91	39		77.34	75.53					77.86
12-FEB-91	43		77.49	75.80				29.55	76.65
20-FEB-91	51		77.64	75.97			42.43	27.83	76.84
25-FEB-91	55						40.02	27.93	
20-MAR-91	78		76.40	74.66					75.09
21-MAR-91	79						28.92	27.79	
01-APR-91	91		75.34	73.62		72.25			73.80
02-APR-91	92	73.94			74.48		35.34	27.61	
18-APR-91	108	69.42	71.10		70.06				68.52
19-APR-91	109			69.24		68.03	35.00	26.98	
27-JUN-91	178						23.43	27.14	
30-JUN-91	181	72.45	73.34	71.64	72.64	70.31			72.27
26-MAR-92	451	55.10	58.62	56.44	55.91	55.12	22.93	25.68	54.15

APPJLOUTB

APPENDIX J

POTENTIOMETRIC MEASUREMENTS
WATER ELEVATION
161 ST AREFG, PHOENIX, ARIZONA

LOCATION:		PS-01	PS-02	PS-03	PP-01	PP-02	PP-03	MWS-01	MWS-02	MWS-03
NORTHING:		9822.4	8992.99	9916.67	13666.88	13022.75	13675.97	9484.29	8941.36	8620.48
EASTING:		12315.52	10050.94	10066.64	6114.69	5919.85	5744.84	11768.37	10847.55	10430.88
TOC ELEVATION:		1119.78	1113.86	1113.83	1245.22	1251.07	1239.42	1118.40	1115.61	1115.84
MEASUREMENT DATE	DAY	WATER ELEVATION								
19-JAN-91	19	1043.66	1032.04	1030.35						
20-JAN-91	20	1044.83	1033.28	1033.38						
21-JAN-91	21	1043.57	1030.14	1038.29						
22-JAN-91	22	1043.6	1037.61	1038.32						
23-JAN-91	23	1043.58	1038.61	1038.25	1214.48	1214.44	1177.65			
28-JAN-91	28	1042.37	1037.66	1037.29						
29-JAN-91	29				1214.38	1213.62	1207.12			
31-JAN-91	31				1213.78	1213.85	1197.33			
01-FEB-91	32	1043.27	1038.66	1038.05	1213.96	1213.93	1202.26			
04-FEB-91	35		1038.61	1038.00	1214.04	1213.80	1209.06			
05-FEB-91	36				1214.06	1213.87	1209.76			
06-FEB-91	37	1043.1	1038.49	1038.07	1214.25	1213.93	1210.35			
07-FEB-91	38				1214.30	1213.14	1210.73			
08-FEB-91	39	1044.03	1038.40	1037.91	1214.34	1213.88	1210.80	1041.13	1040.39	1039.34
12-FEB-91	43	1042.9	1038.35	1037.81	1214.46	1213.92	1211.06	1041.00	1040.20	1038.99
20-FEB-91	51	1042.66	1038.18	1037.64	1214.00	1213.70	1211.41	1040.78	1040.04	1039.04
25-FEB-91	55									
20-MAR-91	78	1045.32	1039.74	1038.79				1042.81	1041.87	1040.80
21-MAR-91	79					1213.79	1211.40			
01-APR-91	91	1046.8	1041.12	1040.08	1245.22			1044.25	1043.32	1042.34
02-APR-91	92					1213.93	1211.52			
18-APR-91	108	1052.88		1043.89				1050.12	1048.85	1048.01
19-APR-91	109		1045.87		1215.15	1213.53	1211.62			
27-JUN-91	178				1214.75	1214.29	1211.54			
30-JUN-91	181	1047.52	1042.46	1040.77				1045.52	1044.62	1043.54
26-MAR-92	451	1065.88	1063.40	1056.16	1216.02	1216.15	1212.83	1065.08	1063.62	1068.79

APPENDIX J

POTENTIOMETRIC MEASUREMENTS
WATER ELEVATION (CONTINUED)
161 ST AREFG, PHOENIX, ARIZONA

LOCATION:		MWS-04	MW1-02	MW2-02	MW3-01	MW3-02	MW4-01	MW4-02	MW5-01
NORTHING:		9224.57	9992.28	9801.70	9611.01	9774.44	13733.29	5749.44	9345.98
EASTING:		10052.99	10606.30	10386.43	10082.74	9815.91	5749.44	5959.36	11050.01
TOC ELEVATION:		1114.67	1116.04	1114.20	1114.77	1112.14	1237.87	1241.69	1116.80
MEASUREMENT DATE	DAY	WATER ELEVATION							
19-JAN-91	19								
20-JAN-91	20								
21-JAN-91	21								
22-JAN-91	22								
23-JAN-91	23								
28-JAN-91	28								
29-JAN-91	29								
31-JAN-91	31								
01-FEB-91	32								
04-FEB-91	35								
05-FEB-91	36								
06-FEB-91	37								
07-FEB-91	38								
08-FEB-91	39		1038.70	1038.67					1038.94
12-FEB-91	43		1038.55	1038.40				1212.14	1040.15
20-FEB-91	51		1038.40	1038.23			1195.44	1213.86	1039.96
25-FEB-91	55						1197.85	1213.76	
20-MAR-91	78		1039.64	1039.54					1041.71
21-MAR-91	79						1208.95	1213.90	
01-APR-91	91		1040.70	1040.58		1039.89			1043.00
02-APR-91	92	1040.73			1040.29		1202.53	1214.08	
18-APR-91	108	1045.25	1044.94		1044.71				1048.28
19-APR-91	109			1044.96		1044.11	1202.87	1214.71	
27-JUN-91	178						1214.44	1214.55	
30-JUN-91	181	1042.22	1042.70	1042.56	1042.13	1041.83			1044.53
26-MAR-92	451	1059.57	1057.42	1057.76	1058.86	1057.02	1214.94	1216.01	1062.65

APPENDIX K

RESULTS OF SCREENING ANALYSES

APPENDIX K
RESULTS OF SCREENING ANALYSES
BACKGROUND SOIL SAMPLES
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MBS-01-0-2-04	MBS-01-5-7-04	MBS-02-0-2-03	MBS-02-5-7-03	MBS-02-10-12-03	MBS-02-15-17-01
LAB SAMPLE NUMBER:	G 2044	G 2045	G 2052	G 2053	G 2054	G 2055
LOCATION:	MWS-01	MWS-01	MWS-02	MWS-02	MWS-02	MWS-02
DEPTH (FT):	00-02	05-07	00-02	05-07	10-12	15-17
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TCA (PPB):	1080 UA	1080 UA	1080 UA	1080 UA	1080 UA	1080 UA
BENZENE (PPB):	40 US	40 US	40 US	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TOTAL XYLENES (PPB):	40 US	40 US	40 US	40 U	40 U	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
BACKGROUND SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MBS-02-25-27-01	MBS-02-40-42-01	MBS-02-45-47-01	MBS-02-50-52-01	MBS-03-0-2-03	MBS-03-5-7-02
LAB SAMPLE NUMBER:	G 2056	G 2057	G 2074	G 2075	G 2047	G 2048
LOCATION:	MWS-02	MWS-02	MWS-02	MWS-02	MWS-03	MWS-03
DEPTH (FT):	25-27	40-42	45-47	50-52	00-02	05-07
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TCA (PPB):	1080 UA	1080 UA	1080 UA	1080 UA	1080 UA	1080 UA
BENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TOTAL XYLENES (PPB):	40 U	40 U	40 US	40 U	40 U	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	YES
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
BACKGROUND SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

	MBS-03-50-52-01	MBS-03-75-77-01	MBS-04-0-2-02	MBS-04-15-16.5-03	MBS-04-20-21.5-01	MBS-04-25-26.5-01
LAB SAMPLE NUMBER:	G 2049	G 2050	G 2099	G 2100	G 2101	G 2102
LOCATION:	MWS-03	MWS-03	MWS-04	MWS-04	MWS-04	MWS-04
DEPTH (FT):	50-52	75-77	00-02	15-16.5	20-21.5	25-26.5
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	6.6 U	5.7 U	16 U	4.4 U
TCA (PPB):	1080 UA	1080 UA	680 U	590 U	1700 U	460 U
BENZENE (PPB):	40 U	40 US	5.6 U	4.8 U	14 U	3.8 U
TCE (PPB):	57.2 U	57.2 U	53 U	23 U	65 U	18 U
TOLUENE (PPB):	40 US	40 US	5.1 U	4.4 U	13 U	3.4 U
PCE (PPB):	52.4 U	52.4 U	42 U	36 U	100 U	28 U
ETHYLBENZENE (PPB):	40 U	40 U	4.1 U	3.6 U	10 U	2.8 U
TOTAL XYLENES (PPB):	40 U	40 US	9.6 U	8.7 U	24 U	6.5 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

APPENDIX K
RESULTS OF SCREENING ANALYSES
BACKGROUND SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MBS-04-40-41.5-01	MBS-04-45-46.5-1	MBS-04-50-51.5-1	MBS-04-65-66.5-1	MBS-04-70-71.5-1
LAB SAMPLE NUMBER:	G 2103	G 2104	G 2105	G 2106	G 2107
LOCATION:	MWS-04	MWS-04	MWS-04	MWS-04	MWS-04
DEPTH (FT):	40-41.5	45-46.5	50-51.5	65-66.5	70-71.5
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	18 U	35 U	120 U	35 U	22 U
TCA (PPB):	1800 U	3700 U	12000 U	3700 U	2300 U
BENZENE (PPB):	230	530	190	82	64
TCE (PPB):	72	140 E	84	140 U	36 E
TOLUENE (PPB):	14	1200	65 E	8.2 E	4.4 E
PCE (PPB):	11 U	230 U	750 U	230 U	140 U
ETHYLBENZENE (PPB):	1700 E	3700 E	1600 E	190	380
TOTAL XYLENES (PPB):	110	420	2500 E	260	360
HEAVY HYDROCARBON:	YES	YES	YES	YES	YES
LIGHT HYDROCARBON:	YES	YES	YES	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 1 SOIL SAMPLES
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB1-02-0-2-04	SB1-02-15-17-01	SB1-02-25-27-02	SB1-02-50-52-01	SB1-03-0-2-02
LAB SAMPLE NUMBER:	G 2063	G 2071	G 2072	G 2073	G 2018
LOCATION:	SB1-02	SB1-02	SB1-02	SB1-02	SB1-03
DEPTH (FT):	00-02	15-17	25-27	50-52	00-02
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	64.4 US
TCA (PPB):	1080 UA	1080 UA	1080 UA	1080 UA	1080 AU
BENZENE (PPB):	40 US	40 U	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	40 U
TOTAL XYLENES (PPB):	6.73 E	40 U	40 U	40 US	40 U
HEAVY HYDROCARBON:	YES	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 1 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB1-04-0-2-02	SB1-04-5-7-02	SB1-04-10-12-02	SB1-04-30-32-02	SB1-05-01-02
LAB SAMPLE NUMBER:	G 2015	G 2016	G 2017	G 2019	G 2007
LOCATION:	SB1-04	SB1-04	SB1-04	SB1-04	SB1-05
DEPTH (FT):	00-02	05-07	10-12	30-32	01-02
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	
BENZENE (PPB):	40 U	40 U	40 U	40 U	70 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	100 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	70 U
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	91.7 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	70 U
TOTAL XYLENES (PPB):	40 U	40 U	40 U	40 US	70 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO

NOTES

U = NOT DETECTED AT CONCENTRATION GIVEN

S = RESIDUAL SYSTEM (BLANK) CONTAMINATION

E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE

A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 1 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB1-05-0-5/02	SB1-05-5-10/02	SB1-05-5-10-15/02	SB1-05-25-30	SB1-05-25-30/02
LAB SAMPLE NUMBER:	G 2010	G 2011	G 2012	G 2005	G 2013
LOCATION:	SB1-05	SB1-05	SB1-05	SB1-05	SB1-05
DEPTH (FT):	00-05	05-10	10-15	25-30	25-30
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 UA	1080 UA	1080 UA		1080 UA
BENZENE (PPB):	40 US	40 US	40 US	70 U	40 US
TCE (PPB):	57.2 U	57.2 U	57.2 U	100 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 U	70 U	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	91.7 U	52.4 U
ETHYLBENZENE (PPB):	40 US	40 U	40 U	70 U	40 U
TOTAL XYLENES (PPB):	40 U	40 US	40 U	70 U	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 1 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB1-05-45-50/02	SB1-05-65	MB1-02-0-2-03	MB1-02-15-17-01	MB1-02-50-52-01	MB1-02-55-57-[illegible]
LAB SAMPLE NUMBER:	G 2014	G 2006	G 2033 R	G 2034 R	G 2035 R	G [illegible] R
LOCATION:	SB1-05	SB1-05	MW1-02	MW1-02	MW1-02	MW1-02
DEPTH (FT):	45-50	65	00-02	15-17	50-52	55-57
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	64.4 US	64.4 U	57.2 U	57.2 U	57.2 U	57.2 U
TCA (PPB):	1080 UA	1080 UA	1080 US	1080 UA	1080 UA	1080 UA
BENZENE (PPB):	40 U	70 U	40 U	40 U	21.4 U	21.4 U
TCE (PPB):	57.2 U	100 U	57.2 U	57.2 U	33.4 U	33.4 U
TOLUENE (PPB):	40 US	70 US	40 US	40 US	24 US	24 US
PCE (PPB):	52.4 U	91.7 U	52.4 U	52.4 U	44 U	44 U
ETHYLBENZENE (PPB):	40 U	70 U	40 U	40 U	19.4 U	19.4 U
TOTAL XYLENES (PPB):	40 U	70 U	40 U	40 U	24.4 US	24.4 U
HEAVY HYDROCARBON:	NO	YES	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANOTES
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
SITE 2 SOIL SAMPLES
161st ARBFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB2-01-0-2-03	SB2-01-50-52-02	SB2-01-55-57-02	SB2-01-60-62-02	SB2-02-0-2-02	SB2-02-5-7-02
LAB SAMPLE NUMBER:	G 2037 R	G 2038 R	G 2039 R	G 2040 R	G 2026	G 2020
LOCATION:	SB2-01	SB2-01	SB2-01	SB2-01	SB2-02	SB2-02
DEPTH (FT):	00-02	50-52	55-57	60-62	00-02	05-07
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	64.4 US	64.4 US
TCA (PPB):	1080 UA	1080 UA	1080 UA	1080 UA	1080 AU	1080 AU
BENZENE (PPB):	21.4 U	21.4 U	21.4 U	21.4 U	40 U	40 U
TCE (PPB):	33.4 U	33.4 U	33.4 U	33.4 U	57.2 U	57.2 U
TOLUENE (PPB):	24 US	24 US	24 US	24 US	40 US	40 US
PCE (PPB):	44 U	44 U	44 U	44 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	19.4 U	19.4 U	19.4 U	19.4 U	40 U	40 U
TOTAL XYLENES (PPB):	24.4 U	24.4 U	24.4 U	24.4 U	40 U	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
SITE 2 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB2-02-10-12-02	SB2-02-40-42-02	SB2-02-50-52-02	SB2-02-70-72-02	SB2-04-0-2-02	SB2-04-15-17-0
LAB SAMPLE NUMBER:	G 2021	G 2027	G 2022	G 2023	G 2024	G 2025
LOCATION:	SB2-02	SB2-02	SB2-02	SB2-02	SB2-04	SB2-04
DEPTH (FT):	10-12	40-42	50-52	70-72	00-02	15-17
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US	64.4 US
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	1080 AU	1080 AU
BENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TOTAL XYLENES (PPB):	40 U	40 U	40 U	40 U	40 US	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
SITE 2 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB2-04-50-52-02	SB2-04-70-72-02	MB2-02-0-2-64	MB2-02-5-7-03	MB2-02-10-12-01	MB2-02-30-32-04
LAB SAMPLE NUMBER:	G 2029	G 2028	G 2077	G 2078	G 2079	G 2080
LOCATION:	SB2-04	SB2-04	MW2-02	MW2-02	MW2-02	MW2-02
DEPTH (FT):	50-52	70-72	00-02	05-07	10-12	30-32
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 US	57.2 US	57.2 U	57.2 U	57.2 U	57.2 U
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU	1080 AU	1080 AU
BENZENE (PPB):	40 US	40 US	3.71 E	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 U	40 U	40 U
TOTAL XYLENES (PPB):	40 U	40 US	13.5 E	40 US	40 U	40 US
HEAVY HYDROCARBON:	NO	NO	YES	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
SITE 2 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB2–02–45–47–01	MB2–02–50–52–01	MB2–02–65–67–01	MB2–02–70–72–01
LAB SAMPLE NUMBER:	G 2081	G 2082	G 2083	G 2084
LOCATION:	MW2–02	MW2–02	MW2–02	MW2–02
DEPTH (FT):	45–47	50–52	65–67	70–72
MATRIX:	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU
BENZENE (PPB):	40 U	40 U	40 U	40 U
TCE (PPB):	57.2 U	57.2 U	57.2 U	57.2 U
TOLUENE (PPB):	40 US	40 US	40 US	40 US
PCE (PPB):	52.4 U	52.4 U	52.4 U	52.4 U
ETHYLBENZENE (PPB):	40 U	40 U	40 U	40 US
TOTAL XYLENES (PPB):	40 US	40 U	40 U	40 U
HEAVY HYDROCARBON:	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 3 SOIL SAMPLES
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB3-01-0-1.5-03	MB3-01-5-6.5-3	MB3-01-35-36.5-2	MB3-01-40-41.5-01	MB3-01-50-51.5-01	MB3-01-55-56.5-1
LAB SAMPLE NUMBER:	G 2108	G 2109	G 2110	G 2111	G 2112	G 2113
LOCATION:	MW3-01	MW3-01	MW3-01	MW3-01	MW3-01	MW3-01
DEPTH (FT):	00-01.5	05-06.5	35-36.5	40-41.5	50-51.5	55-56.5
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	8.4 u	7.4 U	5.7 U	8.4 U	5.5 U	8.4 U
TCA (PPB):	870 U	770 U	590 U	870 U	570 U	870 U
BENZENE (PPB):	7.1 U	6.3 U	4.8 U	7.1 U	4.7 U	7.1 U
TCE (PPB):	34 U	30 U	23 U	34 U	22 U	34 U
TOLUENE (PPB):	6.5 U	5.7 U	4.4 U	6.5 U	4.3 U	6.5 U
PCE (PPB):	54 U	47 U	36 U	54 U	35 U	53 U
ETHYLBENZENE (PPB):	5.3 U	.7 U	3.6 U	5.3 U	3.5 U	5.3 U
TOTAL XYLENES (PPB):	12 U	11 U	8.4 U	12 U	8.1 U	12 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
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E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 3 SOIL SAMPLES (cont.)
161st ARBFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB3-01-60-61.5-1	MB3-01-99-01	MB3-02-0-1.5-03	MB3-02-5-6.5-03	SB3-01-0-1.5-03	SB3-01-24-01
LAB SAMPLE NUMBER:	G 2114	G 2115	G 2116	G 2117	G 2118	G 2119
LOCATION:	MW3-01	MW3-01	MW3-02	MW3-02	SB3-01	SB3-01
DEPTH (FT):	60-61.5	99-01	00-01.5	05-06.5	00-01.5	24
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	6.8	4.7 U	8.9 U	9.3 U	63 U	44 U
TCA (PPB):	710 U	400 U	920 U	970 U	3300 U	2300 U
BENZENE (PPB):	5.8 U	3.9 U	7.5 U	7.9 U	11 U	7.5 U
TCE (PPB):	28 U	19 U	36 U	38 U	200 U	143 U
TOLUENE (PPB):	5.3 U	3.6 U	6.9 U	7.2 U	9.8 U	6.9 U
PCE (PPB):	43 U	30 U	57 U	59 U	160 U	110 U
ETHYLBENZENE (PPB):	4.3 U	2.9 U	5.6 U	5.9 U	8 U	5.6 U
TOTAL XYLENES (PPB):	6 U	6.8 U	13 U	14 U	19 U	13 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO

NOTES
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E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 3 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB3-01-36-01	SB3-01-44-01	SB3-01-50-51.5-02	SB3-01-63-01	SB3-01-69-01	SB3-05-0-1.5-03
LAB SAMPLE NUMBER:	G 2120	G 2121	G 2122	G 2123	G 2124	G 2135
LOCATION:	SB3-01	SB3-01	SB3-01	SB3-01	SB3-01	SB3-05
DEPTH (FT):	36	44	50-51.5	63	69	00-01.5
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	139	30 U	23 U	34 U	74 U	5.7 U
TCA (PPB):	2100 U	1500 U	1200 U	1800 U	3800 U	770 U
BENZENE (PPB):	6.8U	5 U	3.9 U	5.8 U	13 U	3.5 U
TCE (PPB):	130 U	95 U	75 U	30 E	240 U	35 U
TOLUENE (PPB):	6.2 U	4.6 U	3.6 U	17.7	89	3.5 U
PCE (PPB):	100 U	75 U	59 U	3.9 E	240	170 U
ETHYLBENZENE (PPB):	5.1 U	3.7 U	2.9 U	2 E	9.3 U	3.5 U
TOTAL XYLENES (PPB):	12 U	3.4 E	6.8 U	6.1 E	22 U	14 U
HEAVY HYDROCARBON:	NO	YES	NO	YES	YES	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	YES	NO

NOTES
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S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 3 SOIL SAMPLES (cont.)
161st ARBPG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB3-03-10-11.5-03	SB3-03-20-21.5-02	SB3-03-34-01	SB3-03-40-41.5-01	SB3-03-54-01	SB3-03-74-01	[illegible]
LAB SAMPLE NUMBER:	G 2136	G 2137	G 2138	G 2139	G 2140	G 2141	[illegible]
LOCATION:	SB3-03	SB3-03	SB3-03	SB3-03	SB3-03	SB3-03	[illegible]
DEPTH (FT):	10-11.5	20-21.5	34	40-41.5	54	74	[illegible]
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	6.6 U	6.4 U	5.9 U	8.1 U	9 U	17 U	55 U
TCA (PPB):	900 U	870 U	800 U	1100 U	1200 U	2300 U	2000 U
BENZENE (PPB):	4.1 U	3.9 U	3.6 U	4.9 U	5.5 U	10 U	12
TCE (PPB):	41 U	4.3 E	3.4 E	98 U	110 U	210 U	270
TOLUENE (PPB):	4.1 U	4 U	3.7 U	5 U	5.6 U	11 U	8.6 U
PCE (PPB):	200 U	190 U	36 U	240 U	270 U	510 U	140 U
ETHYLBENZENE (PPB):	4.1 U	3.9 U	3.6 U	4.9 U	5.5 U	10 U	7 U
TOTAL XYLENES (PPB):	16 U	16 U	4.4 E	20 U	22 U	41 U	16 U
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO	YES

NOTES
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E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 3 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	SB3-04-5-6.5-04	SB3-04-10-11.5-01	SB3-04-20-21.5-01	SB3-04-35-36.5-01	SB3-04-40-41.5-01	SB3-04-49-01	SB3-04-68-69.5-01
LAB SAMPLE NUMBER:	G 2127	G 2128	G 2129	G 2130	G 2131	G 2132	G 2133
LOCATION:	SB3-04	SB3-04	SB3-04	SB3-04	SB3-04	SB3-04	SB3-04
DEPTH (FT):	05-06.5	10-11.5	20-21.5	35-36.5	40-41.5	49	68-69.5
MATRIX:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	49 U	22 U	26 U	88 U	47 U	8.1 U	7.7 U
TCA (PPB):	2600 U	1100 U	1400 U	4600 U	2400 U	1100 U	1000 U
BENZENE (PPB):	8.3 U	3.8 U	4.4 U	15 U	7.9 U	4.9 U	4.7 U
TCE (PPB):	160 U	72 U	84 U	290 U	150 U	49 U	47 U
TOLUENE (PPB):	7.6 U	3.3 U	4 U	14 U	6.8 U	5 U	4.8 U
PCE (PPB):	130 U	57 U	66 U	230 U	120 U	240 U	230 U
ETHYLBENZENE (PPB):	6.2 U	2.8 U	3.3 U	11 U	5.9 U	4.9 U	1.8 E
TOTAL XYLENES (PPB):	14 U	6.5 U	7.6 U	26 U	14 U	20 U	9.9 E
HEAVY HYDROCARBON:	NO	NO	NO	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
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E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K
RESULTS OF SCREENING ANALYSES
SITE 5 SOIL SAMPLES
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB5-01-0-2-0	MB5-01-5-7-0	MB5-01-20-22-0	MB5-01-25-27-01
LAB SAMPLE NUMBER:	G 2085	G 2086	G 2087	G 2088
LOCATION:	MW5-01	MW5-01	MW5-01	MW5-01
DEPTH (FT):	00-02	05-07	20-22	25-27
MATRIX:	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	114 U	114 U	114 U	114 U
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU
BENZENE (PPB):	10.7 U	10.7 U	10.7 U	10.7 U
TCE (PPB):	66.8 U	66.8 U	66.8 U	66.8 U
TOLUENE (PPB):	12 US	12 US	12 US	12 US
PCE (PPB):	88 U	88 U	88 U	88 U
ETHYLBENZENE (PPB):	9.7 US	9.7 U	9.7 U	9.7 U
TOTAL XYLENES (PPB):	22.9 US	22.9 US	22.9 US	22.9 US
HEAVY HYDROCARBON:	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

APPENDIX K

RESULTS OF SCREENING ANALYSES
SITE 5 SOIL SAMPLES (cont.)
161st AREFG, PHOENIX, ARIZONA

FIELD SAMPLE NUMBER:	MB5-01-45-47-01	MB5-01-55-57-01	MB5-01-60-62-02	MB5-01-75-77-02
LAB SAMPLE NUMBER:	G 2089	G 2090	G 2091	G 2092
LOCATION:	MW5-01	MW5-01	MW5-01	MW5-01
DEPTH (FT):	45-47	55-57	60-62	75-77
MATRIX:	SOIL	SOIL	SOIL	SOIL
DCE (PPB):	114 U	114 U	114 U	114 U
TCA (PPB):	1080 AU	1080 AU	1080 AU	1080 AU
BENZENE (PPB):	10.7 U	10.7 U	10.7 U	10.7 U
TCE (PPB):	66.8 U	66.8 U	66.8 U	66.8 U
TOLUENE (PPB):	12 US	12 US	12 US	12 US
PCE (PPB):	88 U	88 U	88 U	88 U
ETHYLBENZENE (PPB):	9.7 U	9.7 U	9.7 US	9.7 US
TOTAL XYLENES (PPB):	22.9 U	22.9 U	22.9 U	22.9 U
HEAVY HYDROCARBON:	NO	NO	NO	NO
LIGHT HYDROCARBON:	NO	NO	NO	NO

NOTES
U = NOT DETECTED AT CONCENTRATION GIVEN
S = RESIDUAL SYSTEM (BLANK) CONTAMINATION
E = ESTIMATED VALUE OUTSIDE OF CALIBRATION LINEAR RANGE
A = ESTIMATED VALUE DUE TO CALIBRATION PROBLEM

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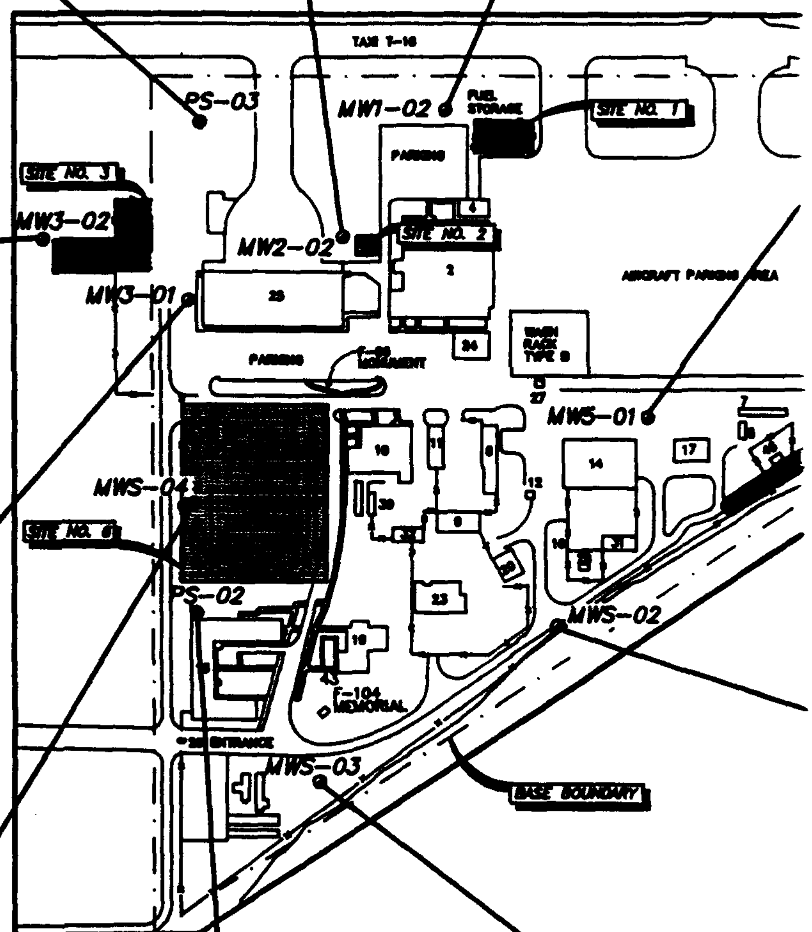
FIELD SAMPLE NUMBER:	WV-PS3-1
LAB SAMPLE NUMBER:	G 2008
LOCATION:	PS-03
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	6.44 US
TCA (PPB):	108 UA
BENZENE (PPB):	4 U
TCE (PPB):	2.01 E
TOLUENE (PPB):	4 US
PCE (PPB):	5.24 U
ETHYLBENZENE (PPB):	4 U
TOTAL XYLENES (PPB):	4 US
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	ND
TOTAL HALOGENS (PPB):	2.01

FIELD SAMPLE NUMBER:	WV-MW2-02-01
LAB SAMPLE NUMBER:	G 2085
LOCATION:	MW2-02
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	2.15 E
TCA (PPB):	108 AU
BENZENE (PPB):	0.483 E
TCE (PPB):	5.6
TOLUENE (PPB):	5.40
PCE (PPB):	4.4 U
ETHYLBENZENE (PPB):	0.96 E
TOTAL XYLENES (PPB):	4.84
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	10.13
TOTAL HALOGENS (PPB):	7.75

FIELD SAMPLE NUMBER:	
LAB SAMPLE NUMBER:	
LOCATION:	
DEPTH (FT):	
MATRIX:	
DCE (PPB):	
TCA (PPB):	
BENZENE (PPB):	
TCE (PPB):	
TOLUENE (PPB):	
PCE (PPB):	
ETHYLBENZENE (PPB):	
TOTAL XYLENES (PPB):	
HEAVY HYDROCARBON:	
LIGHT HYDROCARBON:	
TOTAL AROMATICS (PPB):	
TOTAL HALOGENS (PPB):	

FIELD SAMPLE NUMBER:	WV-MW3-02-02
LAB SAMPLE NUMBER:	G 2143
LOCATION:	MW3-02
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	0.56 E
TCA (PPB):	210 U
BENZENE (PPB):	0.94 U
TCE (PPB):	7.9 E
TOLUENE (PPB):	0.85 U
PCE (PPB):	46 U
ETHYLBENZENE (PPB):	0.94 U
TOTAL XYLENES (PPB):	3.7
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	NO
TOTAL AROMATICS (PPB):	ND
TOTAL HALOGENS (PPB):	8.46



FIELD SAMPLE NUMBER:	WV-MW3-01-01
LAB SAMPLE NUMBER:	G 2144
LOCATION:	MW3-01
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	1.5 U
TCA (PPB):	210 U
BENZENE (PPB):	25
TCE (PPB):	1.1 E
TOLUENE (PPB):	1.1
PCE (PPB):	46 U
ETHYLBENZENE (PPB):	2.7 E
TOTAL XYLENES (PPB):	3.7 U
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	28.8
TOTAL HALOGENS (PPB):	1.1

FIELD SAMPLE NUMBER:	WV-MWS-04-01
LAB SAMPLE NUMBER:	G 2142
LOCATION:	MWS-04
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	1.1 E
TCA (PPB):	118 E
BENZENE (PPB):	17
TCE (PPB):	6.3 E
TOLUENE (PPB):	4.6
PCE (PPB):	46 U
ETHYLBENZENE (PPB):	4.9
TOTAL XYLENES (PPB):	8.3
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	34.8
TOTAL HALOGENS (PPB):	125.4

FIELD SAMPLE NUMBER:	WV-PS2-1	WV-PS2-2
LAB SAMPLE NUMBER:	G 2009	G 2076
LOCATION:	PS-02	PS-02
DEPTH (FT):	75	75
MATRIX:	WATER	WATER
DCE (PPB):	6.44 US	13.1
TCA (PPB):	108 UA	108 AU
BENZENE (PPB):	541	311
TCE (PPB):	5.72 U	5.72 U
TOLUENE (PPB):	7.25	4 US
PCE (PPB):	5.24 U	5.24 U
ETHYLBENZENE (PPB):	507	45.4
TOTAL XYLENES (PPB):	4 U	2.05 E
HEAVY HYDROCARBON:	YES	NO
LIGHT HYDROCARBON:	YES	YES
TOTAL AROMATICS (PPB):	1055.25	358.45
TOTAL HALOGENS (PPB):	ND	13.1

FIELD SAMPLE NUMBER:	
LAB SAMPLE NUMBER:	
LOCATION:	
DEPTH (FT):	
MATRIX:	
DCE (PPB):	
TCA (PPB):	
BENZENE (PPB):	
TCE (PPB):	
TOLUENE (PPB):	
PCE (PPB):	
ETHYLBENZENE (PPB):	
TOTAL XYLENES (PPB):	
HEAVY HYDROCARBON:	
LIGHT HYDROCARBON:	
TOTAL AROMATICS (PPB):	
TOTAL HALOGENS (PPB):	

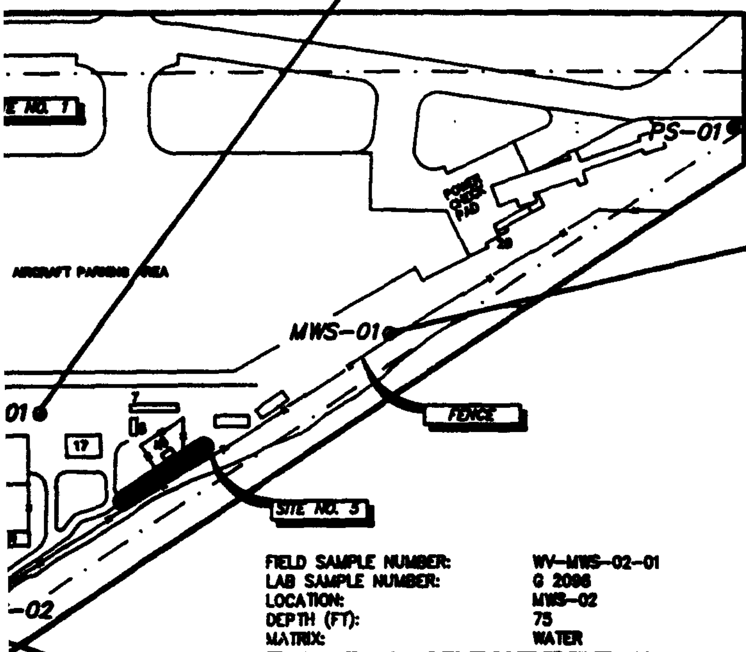
DWG. NO.: 409721-B-C50
PROJ. NO.: 409721
INITIATOR: D. WILLEN
PROJ. MGR.: D. WILLEN
DRAFT. CHCK. BY: G. PACHECO
ENGR. CHCK. BY: D. WILLEN
DATE LAST REV.: 03/25/92
DRAWN BY: S. CARDWELL
STARTING DATE: 10/30/91
DRAWN BY: S. CARDWELL
1
409721S0 04/23/92 2:30pm STC

D SAMPLE NUMBER:	WV-MW1-02-01
SAMPLE NUMBER:	G 2064
ATION:	MW1-02
TH (FT):	75
RIX:	WATER
(PPB):	1.74 E
(PPB):	108 AU
ZENE (PPB):	0.42 ES
(PPB):	0.89 E
UENE (PPB):	1.44 E
(PPB):	5.24 U
YLBENZENE (PPB):	40 U
AL XYLENES (PPB):	40 U
VY HYDROCARBON:	NO
IT HYDROCARBON:	YES
AL AROMATICS (PPB):	1.86
AL HALOGENS (PPB):	2.63

FIELD SAMPLE NUMBER:	WV-MWS-01-01
LAB SAMPLE NUMBER:	G 2067
LOCATION:	MWS-01
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	1.35 E
TCA (PPB):	108 UA
BENZENE (PPB):	0.406
TCE (PPB):	3.38
TOLUENE (PPB):	1.91 E
PCE (PPB):	4.4 U
ETHYLBENZENE (PPB):	1.94 U
TOTAL XYLENES (PPB):	0.909 E
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	3.225
TOTAL HALOGENS (PPB):	4.73

FIELD SAMPLE NUMBER:	WV-PS1-1
LAB SAMPLE NUMBER:	G 2068
LOCATION:	PS-01
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	5.72 U
TCA (PPB):	108 AU
BENZENE (PPB):	4 US
TCE (PPB):	5.72 U
TOLUENE (PPB):	4 US
PCE (PPB):	5.24 U
ETHYLBENZENE (PPB):	4 U
TOTAL XYLENES (PPB):	4 US
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	NO
TOTAL AROMATICS (PPB):	ND
TOTAL HALOGENS (PPB):	ND

FIELD SAMPLE NUMBER:	WV-MWS-01-01	WV-MWS-01-01
LAB SAMPLE NUMBER:	G 2067	G 2068
LOCATION:	MWS-01	MWS-01
DEPTH (FT):	75	75
MATRIX:	WATER	WATER
DCE (PPB):	5.72 US	5.72 U
TCA (PPB):	108 AU	108 AU
BENZENE (PPB):	4 U	4 U
TCE (PPB):	5.72 U	0.65 E
TOLUENE (PPB):	4 U	5
PCE (PPB):	5.24 U	5.24 U
ETHYLBENZENE (PPB):	4 U	4 U
TOTAL XYLENES (PPB):	4 U	4 US
HEAVY HYDROCARBON:	NO	NO
LIGHT HYDROCARBON:	YES	YES
TOTAL AROMATICS (PPB):	ND	5
TOTAL HALOGENS (PPB):	ND	0.65



FIELD SAMPLE NUMBER:	WV-MWS-02-01
LAB SAMPLE NUMBER:	G 2096
LOCATION:	MWS-02
DEPTH (FT):	75
MATRIX:	WATER
DCE (PPB):	4.43 E
TCA (PPB):	112 A
BENZENE (PPB):	15.7
TCE (PPB):	9.96
TOLUENE (PPB):	3.1
PCE (PPB):	4.4 U
ETHYLBENZENE (PPB):	0.81 E
TOTAL XYLENES (PPB):	3.86
HEAVY HYDROCARBON:	NO
LIGHT HYDROCARBON:	YES
TOTAL AROMATICS (PPB):	23.47
TOTAL HALOGENS (PPB):	126.39

AMPLE NUMBER:	WV-MWS-03-01	WV-MWS-03-02
MPLE NUMBER:	G 2066	G 2070
N:	MWS-03	MWS-03
(FT):	75	75
	WATER	WATER
B):	2.7 E	5.72 U
B):	108 U	108 AU
E (PPB):	4 U	4 U
B):	3.44 E	9.75
E (PPB):	4 U	3.11 U
B):	5.24 U	5.24 U
NZENE (PPB):	4 U	4 US
YLENES (PPB):	4 U	4
HYDROCARBON:	NO	NO
YDROCARBON:	YES	YES
ROMATICS (PPB):	ND	3.11
[illegible]GENS (PPB):	6.14	9.75

LEGEND – DATA QUALIFIERS:

A– DUE TO COMPOUND SPECIFIC CALIBRATION DIFFICULTY, VALUE IS ESTIMATED

E– COMPOUND DETECTED EITHER ABOVE OR BELOW DETECTION LIMIT, REPORTED RESULTS ARE ESTIMATED

U– NONE DETECTED, VALUE REPORTED IS LOWER THAN DETECTION LIMIT

US– COMPOUND DETECTED BELOW DETECTION LIMIT AS A RESULT OF SYSTEM CONTAMINATION

FIGURE K–1

SUMMARY OF FIELD SCREENING WATER ANALYSIS

161 AREFG, ARIZONA ANG
SKY HARBOR IAP
PHOENIX, ARIZONA

IT INTERNATIONAL TECHNOLOGY CORPORATION

APPENDIX L

TABULATION OF SOIL ANALYTICAL RESULTS

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-0?-5-7-01	MBS-02-10-12-01	MBS-03-0-2-01	MBS-03-5-7-01
Sample Date:		29-Jan-91	29-Jan-91	31-Jan-91	31-Jan-91	31-Jan-91	30-Jan-91	30-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101318-01A	C101318-04A	C102068-01A	C102008-03A	C102008-07A		C101326-03A
Analysis Date:		07-Feb-91	07-Feb-91	08-Feb-91	08-Feb-91	08-Feb-91	07-Feb-91	07-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CASE NUMBER							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	5 U	6 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
2-Butanone	78-93-3	11 U	11 U	10 U	10 U	12 U	11 U	11 U
2-Hexanone	591-78-6	11 UJ	11 UJ	10 U	10 U	12 UJ	11 U	11 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	10 U	10 U	12 U	11 U	11 U
Acetone	67-64-1	11 U	10 U	10 U	10 U	6 J	11 U	10 U
Benzene	71-43-2	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Bromoform	75-25-2	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Bromomethane	74-83-9	11 UJ	11 UJ	10 U	10 U	12 UJ	11 U	11 U
Carbon disulfide	75-15-0	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Chlorobenzene	108-90-7	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Chloroethane	75-00-3	11 U	11 U	10 U	10 U	12 U	11 U	11 U
Chloroform	67-66-3	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Chloromethane	74-87-3	11 UJ	11 UJ	10 U	10 U	12 UJ	11 U	11 U
cis-1,3-Dichloropropene	10061-01-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Methylene chloride	75-09-2	7 U	10 U	15 U	20 U	14 U	14 U	6 U
Styrene	100-42-5	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Tetrachloroethene	127-18-4	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Toluene	108-88-3	5 U	5 U	5 U	1 J	6 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Trichloroethene	79-01-6	5 U	5 U	5 U	5 U	6 U	5 U	5 U
Vinyl Acetate	108-05-4	11 U	11 U	10 U	10 U	12 U	11 U	11 U
Vinyl chloride	75-01-4	11 U	11 U	10 U	10 U	12 U	11 U	11 U
Total xylenes	1330-20-7	5 U	5 U	5 U	5 U	6 U	5 U	5 U
TPH		10000 U	10000 U	4800000	9800000	10000 U	75000	38000

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-02-0-2-01	SB1-03-0-2-01	SB1-03-20-22-01	SB1-03-35-37-01	SB1-03-35-37-02	SB1-03-55-57-01	SB1-03-55-5
Sample Date:		04-Feb-91	21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	22-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102058-01A	C101211-05A	C101211-14A	C101211-06A	C101211-07A	C101215-01A	C101215-02A
Analysis Date:		12-Feb-91	26-Jan-91	25-Jan-91	25-Jan-91	26-Jan-91	26-Jan-91	26-Jan-91
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/Kg	ug/Kg
COMPOUND NAME	**CASE NUMBER**							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,1-Dichloroethene	75-35-4	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,2-Dichloroethane	107-06-2	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	5 U	5 U	6 U	6 U
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	5 U	5 U	6 U	6 U
2-Butanone	78-93-3	11 U	11 UJ	10 U	10 U	10 UJ	13 UJ	12 UJ
2-Hexanone	591-78-6	11 U	11 U	10 U	10 U	10 U	13 U	12 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	10 U	10 U	10 U	13 U	12 U
Acetone	67-64-1	8 UJ	12 U	26	12 U	13 U	12 U	12 U
Benzene	71-43-2	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Bromoform	75-25-2	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Bromomethane	74-83-9	11 U	11 U	10 U	10 U	10 U	13 U	12 U
Carbon disulfide	75-15-0	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Chlorobenzene	108-90-7	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Chloroethane	75-00-3	11 U	11 U	10 U	10 U	10 U	13 U	12 U
Chloroform	67-66-3	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Chloromethane	74-87-3	11 U	11 UJ	10 U	10 U	10 UJ	13 UJ	12 UJ
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Ethylbenzene	100-41-4	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Methylene chloride	75-09-2	6 U	6 U	9 U	13 U	5 U	8 U	10 U
Styrene	100-42-5	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Tetrachlorethene	127-18-4	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Toluene	108-88-3	5 U	5 U	5 U	5 U	5 U	6 U	6 U
trans-1,3-Dichloropropene	10061-02-	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Trichloroethene	79-01-6	5 U	5 U	5 U	5 U	5 U	6 U	6 U
Vinyl Acetate	108-05-4	11 U	11 U	10 U	10 U	10 U	13 U	12 U
Vinyl chloride	75-01-4	11 U	11 U	10 U	10 U	10 U	13 U	12 U
Total xylenes	1330-20-7	5 U	5 U	5 U	5 U	5 U	6 U	6 U
TPH		26000	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-01-0-2-01	SB2-01-55-57-01	SB2-02-0-2-01	SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01	SB2-04-15-17-
Sample Date:		29-Jan-91	29-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101317-01A	C101317-02A	C101215-04A	C101215-06A	C101215-10A	C101215-11A	C101215-03A
Analysis Date:		07-Feb-91	07-Feb-91	26-Jan-91	26-Jan-91	26-Jan-91	26-Jan-91	31-Jan-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	6 U	5 U	6 U	6 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	6 U	5 U	6 U	6 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	6 U	5 U	6 U	6 U	5 U
1,1-Dichloroethane	75-34-3	5 R	5 U	6 U	5 U	6 U	6 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	6 U	5 U	6 U	6 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	6 U	5 U	6 U	6 U	5 UJ
1,2-Dichloroethylene	540-59-0	5 U	5 U	6 U	5 U	6 U	6 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	6 U	5 U	6 U	6 U	5 U
2-Butanone	78-93-3	11 U	11 U	12 UJ	11 UJ	11 UJ	11 UJ	10 U
2-Hexanone	591-78-6	11 U	11 UJ	12 U	11 U	11 U	11 U	10 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	12 U	11 U	11 U	11 U	10 U
Acetone	67-64-1	11 U	11 U	12 U	12 U	12 U	12 U	12 U
Benzene	71-43-2	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Bromoform	75-25-2	5 U	5 U	6 U	5 U	6 U	6 U	5 UJ
Bromomethane	74-83-9	11 U	11 UJ	12 U	11 U	11 U	11 U	10 U
Carbon disulfide	75-15-0	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Carbon Tetrachloride	56-23-5	5 R	5 U	6 U	5 U	6 U	6 U	5 U
Chlorobenzene	108-90-7	5 U	1 J	6 U	5 U	6 U	6 U	5 U
Chloroethane	75-00-3	11 U	11 UJ	12 U	11 U	11 U	11 U	10 U
Chloroform	67-66-3	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Chloromethane	74-87-3	11 U	11 U	12 UJ	11 UJ	11 UJ	11 UJ	10 R
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Methylene chloride	75-09-2	14 U	16 U	5 U	5 U	9 U	6 U	10 U
Styrene	100-42-5	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Tetrachloroethene	127-18-4	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Toluene	108-88-3	5 U	1 J	6 U	5 U	6 U	6 U	5 U
trans-1,3-Dichloropropene	10061-02-	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Trichloroethene	79-01-6	5 U	5 U	6 U	5 U	6 U	6 U	5 U
Vinyl Acetate	108-05-4	11 R	11 U	12 U	11 U	11 U	11 U	10 U
Vinyl chloride	75-01-4	11 U	11 U	12 U	11 U	11 U	11 U	10 U
Total xylenes	1330-20-7	5 U	5 U	6 U	5 U	6 U	6 U	5 U
TPH		210000	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-01-0-1 1/2-01	SB3-01-50-51 1/2-01	SB3-01-70-71 1/2-01	SB3-03-0-1 1/2-01	SB3-03-10-11 1/2-01	SB3-03-20-21 1/2-01	SB3-04-0-1 1/2-01
Sample Date:		24-Mar-91	24-Mar-91	25-Mar-91	25-Mar-91	25-Mar-91	25-Mar-91	24-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-08A	C103220-09A	C103220-05A
Analysis Date:		26-Mar-91	26-Mar-91	27-Mar-91	27-Mar-91	27-Mar-91	28-Mar-91	28-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CASE NUMBER							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 R	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	11 U	10 R	11 R	11 R	11 R	10 U	10 R
2-Hexanone	591-78-6	11 U	10 U	11 U	11 U	11 U	10 R	10 U
4-Methyl-2-pentanone	108-10-1	11 U	10 U	11 U	11 U	11 U	10 U	10 U
Acetone	67-64-1	11 U	45 UJ	40 UJ	5 UJ	11 UJ	10 U	10 UJ
Benzene	71-43-2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	11 U	10 U	11 U	11 U	11 U	10 U	10 U
Carbon disulfide	75-15-0	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5 U	5 U	5 U	5 U	5 U	5 U	5
Chloroethane	75-00-3	11 U	10 U	11 U	11 U	11 U	10 U	10 U
Chloroform	67-66-3	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	11 U	10 UJ	11 UJ	11 UJ	11 UJ	10 UJ	10 UJ
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	16	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ
Styrene	100-42-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	2 J	5 U	21	5 U	2 J	5 U	3 J
trans-1,3-Dichloropropene	10061-02-	5 R	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	11 R	10 U	11 U	11 U	11 U	10 U	10 U
Vinyl chloride	75-01-4	11 U	10 U	11 U	11 U	11 U	10 U	10 U
Total xylenes	1330-20-7	5 U	5 U	150	5 U	2 J	5 U	5 U
TPH		30000	10000 U	10000 U	46000	50000	10000 U	140000

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SS4-01	SS4-02	SS4-03	SS4-04	SS4-05	SS4-06	SC-MW4-01-01A
Sample Date:		13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	16-Apr-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102192-01C	C102192-02C	C102192-03C	C102192-04C	C102192-05C	C102192-06C	BB3500
Analysis Date:		22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	22-Feb-91	25-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	11 R	11 U	11 U	11 R	11 R	10 R	11 U
2-Hexanone	591-78-6	11 R	11 U	11 U	11 R	11 R	10 R	11 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Acetone	67-64-1	11 R	8 UJ	11 UJ	11 R	10 UJ	10 R	11 U
Benzene	71-43-2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Bromomethane	74-83-9	11 U	11 U	11 U	11 U	11 U	10 U	11 UJ
Carbon disulfide	75-15-0	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
Chlorobenzene	108-90-7	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Chloroform	67-66-3	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	11 U	11 U	11 U	11 U	11 U	10 U	11 U
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	5 U	5 U	6 U	6 U	7 U	9 U	5 U
Styrene	100-42-5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	127-18-4	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	5 U	5 U	5 U	5 U	5 U	6	5 U
trans-1,3-Dichloropropene	10061-02-	5 R	5 U	5 U	5 R	5 R	5 R	5 U
Trichloroethene	79-01-6	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Vinyl chloride	75-01-4	11 U	11 U	11 U	11 U	11 U	10 U	11 U
Total xylenes	1330-20-7	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TPH		63000	10000 U	490000	28000	78000	970000	

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SC-MW4-02-01A	SC-PP1-01A	MB5-01-0-2-01	MB5-01-5-7-01	MB5-01-70-72-01
Sample Date:		16-Apr-91	16-Apr-91	07-Feb-91	07-Feb-91	07-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		BB3501	BB3504	C102106-01A	C102106-02A	C102106-03A
Analysis Date:		25-Apr-91	25-Apr-91	16-Feb-91	16-Feb-91	16-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,1,1-Trichloroethane	71-55-6	5 U	5 U	6 R	5 R	5 R
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	6 R	5 R	5 R
1,1,2-Trichloroethane	79-00-5	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	6 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	6 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	6 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	6 U	5 U	5 U
2-Butanone	78-93-3	10 U	10 U	11 U	10 U	10 U
2-Hexanone	591-78-6	10 U	10 U	11 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	10 U	10 U	11 U	10 U	10 U
Acetone	67-64-1	10 U	10 U	10 J	10 J	10 U
Benzene	71-43-2	5 U	5 U	6 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	6 R	5 R	5 R
Bromoform	75-25-2	5 UJ	5 UJ	6 U	5 U	5 U
Bromomethane	74-83-9	10 UJ	10 UJ	11 U	10 U	10 U
Carbon disulfide	75-15-0	5 U	5 U	6 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5 UJ	5 UJ	6 R	5 R	5 R
Chlorobenzene	108-90-7	5 U	5 U	6 U	5 U	5 U
Chloroethane	75-00-3	10 U	10 U	11 U	10 U	10 U
Chloroform	67-66-3	5 U	5 U	6 U	5 U	5 U
Chloromethane	74-87-3	10 U	10 U	11 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-5	5 U	5 U	6 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	6 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	6 U	5 U	5 U
Methylene chloride	75-09-2	5 U	5 U	11 U	7 U	8 U
Styrene	100-42-5	5 U	5 U	6 U	5 U	5 U
Tetrachlorethene	127-18-4	5 U	5 U	6 U	5 U	5 U
Toluene	108-88-3	5 U	5 U	5 UJ	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	5 U	5 U	6 U	5 U	5 U
Trichloroethene	79-01-6	5 U	5 U	6 U	5 U	5 U
Vinyl Acetate	108-05-4	10 U	10 U	11 U	10 U	10 U
Vinyl chloride	75-01-4	10 U	10 U	11 U	10 U	10 U
Total xylenes	1330-20-7	5 U	5 U	6 U	5 U	5 U
TPH				10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-04-0-2-01	MBS-04-15-16 1/2-01	MBS-04-99-01	SC-PS1-1	SC-PS2-1	SC-PS3-1
Sample Date:		21-Mar-91	21-Mar-91	21-Mar-91	22-Mar-91	22-Mar-91	22-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103195-01A	C103195-02A	C103195-04A	C103213-01A	C103213-02A	C103213-03A
Analysis Date:		23-Mar-91	23-Mar-91	23-Mar-91	26-Mar-91	26-Mar-91	26-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
1,1,1-Trichloroethane	71-55-6	6 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	6 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	6 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	6 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	6 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	6 U	5 U	5 U	5 R	5 R	5 R
1,2-Dichloroethylene	540-59-0	6 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	6 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	11 U	10 U	11 U	10 U	10 U	10 U
2-Hexanone	591-78-6	11 U	10 U	11 U	10 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	11 U	10 U	11 U	10 U	10 U	10 U
Acetone	67-64-1	11 U	10 U	11 U	10 U	10 U	10 U
Benzene	71-43-2	6 U	5 U	5 J	5 U	5 U	5 U
Bromodichloromethane	75-27-4	6 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	6 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	11 U	10 U	11 U	10 U	10 U	10 U
Carbon disulfide	75-15-0	6 R	5 R	5 R	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	6 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	6 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	11 U	10 U	11 U	10 U	10 U	10 U
Chloroform	67-66-3	6 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	11 U	10 U	11 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-	6 U	5 U	5 U	5 R	5 R	5 R
Dibromochloromethane	124-48-1	6 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	6 U	5 U	80	5 U	5 U	5 U
Methylene chloride	75-09-2	7 U	13 U	6 U	5 U	6 U	6 U
Styrene	100-42-5	6 U	5 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	6 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	6 U	5 U	26	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-	6 U	5 U	5 U	5 R	5 R	5 R
Trichloroethene	79-01-6	6 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	11 U	10 U	11 U	10 R	10 R	10 R
Vinyl chloride	75-01-4	11 U	10 U	11 U	10 U	10 U	10 U
Total xylenes	1330-20-7	6 U	5 U	190	5 U	5 U	5 U
TPH		35000	10000 U	67000	10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-04-0-2-01	SB1-04-10-12-01	SB1-04-55-57-01	SB1-04-55-57-02	SB1-05-0-1/01
Sample Date:		21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	18-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101211-01A	C101211-02A	C101211-03A	C101211-04A	C101197-01A
Analysis Date:		25-Jan-91	24-Jan-91	24-Jan-91	24-Jan-91	22-Jan-91
Units:		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
COMPOUND NAME	CAS NUMBER					
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	6 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	6 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	6 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	6 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	5 U	6 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	5 U	6 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	6 U	5 R
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	6 U	5 U
2-Butanone	78-93-3	11 U	11 U	11 U	13 U	11 U
2-Hexanone	591-78-6	11 U	11 U	11 U	13 U	11 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	11 U	13 U	11 U
Acetone	67-64-1	20	12 U	12 U	12 U	12 U
Benzene	71-43-2	5 U	5 U	5 U	6 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	6 U	5 U
Bromoform	75-25-2	5 U	5 U	5 U	6 U	5 U
Bromomethane	74-83-9	11 U	11 U	11 U	13 U	11 U
Carbon disulfide	75-15-0	5 U	5 U	5 U	6 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	6 U	5 U
Chlorobenzene	108-90-7	5 U	5 U	5 U	6 U	5 U
Chloroethane	75-00-3	11 U	11 U	11 U	13 U	11 U
Chloroform	67-66-3	5 U	5 U	5 U	6 U	5 U
Chloromethane	74-87-3	11 U	11 UJ	11 UJ	13 UJ	11 U
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	5 U	6 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	6 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	5 U	6 U	5 U
Methylene chloride	75-09-2	14 U	15 U	15 U	21 U	7 UJ
Styrene	100-42-5	5 U	5 U	5 U	6 U	5 U
Tetrachlorethene	127-18-4	5 U	5 U	5 U	6 U	5 U
Toluene	108-88-3	5 U	5 U	5 U	6 U	5 U
trans-1,3-Dichloropropene	10061-02-	5 U	5 U	5 U	6 U	5 U
Trichloroethene	79-01-6	5 U	5 U	5 U	6 U	5 U
Vinyl Acetate	108-05-4	11 U	11 U	11 U	13 U	11 U
Vinyl chloride	75-01-4	11 U	11 U	11 U	13 U	11 U
Total xylenes	1330-20-7	5 U	5 U	5 U	6 U	5 U
TPH		330000	10000 U	10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-05-30-35/01	SB1-05-65-70/01	MB1-02-0-2-01	MB1-02-0-2-02	MB1-02-35-37-01	MB1-02-75-77-01
Sample Date:		18-Jan-91	18-Jan-91	28-Jan-91	28-Jan-91	28-Jan-91	28-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101197-06A	C101197-10A	C101292-01A	C101292-02A	C101292-03A	C101292-05A
Analysis Date:		22-Jan-91	22-Jan-91	05-Feb-91	06-Feb-91	06-Feb-91	06-Feb-91
Units:		ug/kg	ug/kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
1,1,1-Trichloroethane	71-55-6	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 R	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	10 R	11 U	11 U	10 U	10 U	10 U
2-Hexanone	591-78-6	10 U	11 U	11 U	10 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	10 U	11 U	11 U	10 U	10 U	10 U
Acetone	67-64-1	12 UJ	12 U	11 U	10 U	13	16
Benzene	71-43-2	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	10 U	11 U	11 U	10 U	10 U	10 U
Carbon disulfide	75-15-0	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	10 U	11 U	11 U	10 U	10 U	10 U
Chloroform	67-66-3	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	10 U	11 U	11 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	11 U	8 UJ	9 U	8 U	8 U	8 U
Styrene	100-42-5	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	10 U	11 U	11 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	10 U	11 U	11 U	10 U	10 U	10 U
Total xylenes	1330-20-7	5 U	5 U	5 U	5 U	5 U	5 U
TPH		14000	10000 U	10000 U	16000	10000 U	10000 U

SOILVOA.WK1

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
181 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01	MB2-02-30-32-01	MB2-02-70-72-01
Sample Date:		23-Jan-91	23-Jan-91	06-Feb-91	06-Feb-91	06-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101230-01A	C101230-02A	C102089-01A	C102089-03A	C102089-04A
Analysis Date:		28-Jan-91	28-Jan-91	13-Feb-91	13-Feb-91	13-Feb-91
Units:		ug/Kg		ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,1,1-Trichloroethane	71-55-6	6 U	5 U	6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	6 U	5 U	6 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	6 U	5 U	6 U	5 U	5 U
1,1-Dichloroethane	75-34-3	6 U	5 U	6 U	5 U	5 U
1,1-Dichloroethene	75-35-4	6 U	5 U	6 U	5 U	5 U
1,2-Dichloroethane	107-06-2	6 U	5 U	6 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	6 U	5 U	6 U	5 U	5 U
1,2-Dichloropropane	78-87-5	6 U	5 U	6 U	5 U	5 U
2-Butanone	78-93-3	11 U	11 U	11 UJ	10 U	11 U
2-Hexanone	591-78-6	11 U	11 U	11 UJ	10 U	11 U
4-Methyl-2-pentanone	108-10-1	11 U	11 U	11 U	10 U	11 U
Acetone	67-64-1	17	14	10 UJ	8 R	11 R
Benzene	71-43-2	6 U	5 U	6 U	5 U	5 U
Bromodichloromethane	75-27-4	6 U	5 U	6 U	5 U	5 U
Bromoform	75-25-2	6 U	5 U	6 U	5 U	5 U
Bromomethane	74-83-9	11 U	11 U	11 U	10 U	11 U
Carbon disulfide	75-15-0	6 U	5 U	6 U	5 U	5 U
Carbon Tetrachloride	56-23-5	6 U	5 U	6 U	5 U	5 U
Chlorobenzene	108-90-7	6 U	5 U	6 U	5 U	5 U
Chloroethane	75-00-3	11 U	11 U	11 U	10 U	11 U
Chloroform	67-66-3	6 U	5 U	6 U	5 U	5 U
Chloromethane	74-87-3	11 U	11 U	11 U	10 U	11 U
cis-1,3-Dichloropropene	10061-01-	6 U	5 U	6 U	5 U	5 U
Dibromochloromethane	124-48-1	6 U	5 U	6 U	5 U	5 U
Ethylbenzene	100-41-4	6 U	5 U	6 U	5 U	5 U
Methylene chloride	75-09-2	8 U	8 U	12 U	7 U	12 U
Styrene	100-42-5	6 U	5 U	6 U	5 U	5 U
Tetrachlorethene	127-18-4	6 U	5 U	6 U	5 U	5 U
Toluene	108-88-3	6 U	5 U	6 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-	6 U	5 U	6 U	5 U	5 U
Trichloroethene	79-01-6	6 U	5 U	6 U	5 U	5 U
Vinyl Acetate	108-05-4	11 U	11 U	11 UJ	10 U	11 U
Vinyl chloride	75-01-4	11 U	11 U	11 U	10 U	11 U
Total xylenes	1330-20-7	6 U	5 U	6 U	5 U	5 U
TPH		10000 U	10000 U	30000	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF VOAs IN SOIL
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-04-15-16 1/2-01	SB3-04-5-6 1/2-01	MB3-01-0-1 1/2-01	MB3-01-50-51 1/2-01	MB3-01-60-61 1/2-01	MB3-02-0-1 1/2-01	MB3-02-5-6 1/2-01
Sample Date:		24-Mar-91	24-Mar-91	22-Mar-91	22-Mar-91	22-Mar-91	23-Mar-91	23-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-13A	C103220-06A	C103212-01A	C103212-02A	C103212-03A	C103220-01A	C103220-02A
Analysis Date:		27-Mar-91	27-Mar-91	26-Mar-91	26-Mar-91	26-Mar-91	26-Mar-91	26-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER							
1,1,1-Trichloroethane	71-55-6	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	5 R	5 U	6 U	6 U	5 U	5 R	5 R
1,2-Dichloroethylene	540-59-0	5 U	5 U	6 U	6 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	5 U	5 U	6 U	6 U	5 U	5 U	5 U
2-Butanone	78-93-3	10 U	10 R	12 U	12 U	11 U	11 U	10 U
2-Hexanone	591-78-6	10 U	10 U	12 U	12 U	11 U	11 U	10 U
4-Methyl-2-pentanone	108-10-1	10 U	10 U	12 U	12 U	11 U	11 U	10 U
Acetone	67-64-1	10 U	10 UJ	12 U	12 U	11 U	11 U	10 U
Benzene	71-43-2	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Bromoform	75-25-2	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Bromomethane	74-83-9	10 U	10 U	12 U	12 U	11 U	11 U	10 U
Carbon disulfide	75-15-0	5 U	5 U	6 R	6 R	5 R	5 U	5 U
Carbon Tetrachloride	56-23-5	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Chloroethane	75-00-3	10 U	10 U	12 U	12 U	11 U	11 U	10 U
Chloroform	67-66-3	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Chloromethane	74-87-3	10 U	10 UJ	12 U	12 U	11 U	11 U	10 U
cis-1,3-Dichloropropene	10061-01-	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Methylene chloride	75-09-2	5 U	5 UJ	9 U	8 U	7 U	5 U	5 U
Styrene	100-42-5	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Toluene	108-88-3	5 U	5 U	1 J	6 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-	5 R	5 U	6 U	6 U	5 U	5 R	5 R
Trichloroethene	79-01-6	5 U	5 U	6 U	6 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	10 R	10 U	12 U	12 U	11 U	11 R	10 R
Vinyl chloride	75-01-4	10 U	10 U	12 U	12 U	11 U	11 U	10 U
Total xylenes	1330-20-7	5 U	5 U	6 U	6 U	5 U	5 U	5 U
TPH		10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above calibration range
R = Result rejected in validation

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-02-10-12-01	MBS-02-5-7-01
Sample Date:		29-Jan-91	29-Jan-91	31-Jan-91	31-Jan-91	31-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101318-01A	C101318-04A	C102008-01A	C102008-05A	C102008-03A
Prep Date:		06-Feb-91	06-Feb-91	10-Feb-91	10-Feb-91	10-Feb-91
Analysis Date:		13-Feb-91	12-Feb-91	20-Feb-91	15-Feb-91	20-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,2,4-Trichlorobenzene	120-82-1	360 U	360 U	3400 U	410 U	3400 U
1,2-Dichlorobenzene	95-50-1	360 U	360 U	3400 U	410 U	3400 U
1,3-Dichlorobenzene	541-73-1	360 U	360 U	3400 U	410 U	3400 U
1,4-Dichlorobenzene	106-46-7	360 U	360 U	3400 U	410 U	3400 U
2,4,5-Trichlorophenol	95-95-4	1800 U	1800 U	16000 U	2000 U	16000 U
2,4,6-Trichlorophenol	88-06-2	360 U	360 U	3400 U	410 U	3400 U
2,4-Dichlorophenol	120-83-2	360 U	360 U	3400 U	410 U	3400 U
2,4-Dimethylphenol	105-67-9	360 U	360 U	3400 U	410 U	3400 U
2,4-Dinitrophenol	51-28-5	1800 U	1800 U	16000 U	2000 U	16000 UJ
2,4-Dinitrotoluene	121-14-2	360 U	360 U	3400 UJ	410 U	3400 U
2,6-Dinitrotoluene	606-20-2	360 U	360 U	3400 U	410 U	3400 U
2-Chloronaphthalene	91-58-7	360 U	360 U	3400 U	410 U	3400 U
2-Chlorophenol	95-57-8	360 U	360 U	3400 U	410 U	3400 U
2-Methylnaphthalene	91-57-6	360 U	360 U	3400 U	410 U	3400 U
2-Methylphenol	95-48-7	360 U	360 U	3400 U	410 U	3400 U
2-Nitroaniline	88-74-4	1800 U	1800 U	16000 U	2000 U	16000 U
2-Nitrophenol	88-75-5	360 U	360 U	3400 U	410 U	3400 U
3,3'-Dichlorobenzidine	91-94-1	730 U	730 R	6800 UJ	820 U	6700 UJ
3-Nitroaniline	99-09-2	1800 UJ	1800 U	16000 U	2000 R	16000 U
4,6-Dinitro-2-methylphenol	534-52-1	1800 U	1800 U	16000 UJ	2000 U	16000 UJ
4-Bromophenyl phenyl ether	101-55-3	360 U	360 U	3400 U	410 U	3400 U
4-Chloroaniline	106-47-8	360 UJ	360 U	3400 U	410 R	3400 U
4-Chlorophenylphenyl ether	7005-72-5	360 U	360 U	3400 U	410 U	3400 U
4-Chloro-3-methylphenol	59-50-7	360 U	360 U	3400 U	410 U	3400 U
4-Methylphenol	106-44-5	360 U	360 U	3400 U	410 U	3400 U
4-Nitroaniline	100-01-6	1800 R	1800 R	16000 U	2000 U	16000 U
4-Nitrophenol	100-02-7	1800 U	1800 U	16000 U	2000 U	16000 U
Acenaphthene	83-32-9	360 U	360 U	3400 U	410 U	3400 U
Acenaphthylene	208-96-8	360 U	360 U	3400 U	410 U	3400 U
Anthracene	120-12-7	360 U	360 U	3400 U	410 U	3400 U
Benzoic acid	65-85-0	1800 R	1800 R	16000 UJ	2000 R	16000 UJ
Benzo(a)anthracene	56-55-3	360 U	360 U	3400 U	410 U	3400 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-03-0-2-01	MBS-03-5-7-01	MBS-04-0-2-01	MBS-04-15-16 1/2-01	MBS-04-99-01
Sample Date:		30-Jan-91	30-Jan-91	21-Mar-91	21-Mar-91	21-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101326-01A	C101326-03A	C103195-01A	C103195-02A	C103195-04A
Prep Date:		10-Feb-91	10-Feb-91	23-Mar-91	23-Mar-91	23-Mar-91
Analysis Date:		15-Feb-91	15-Feb-91	01-Apr-91	01-Apr-91	05-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,2,4-Trichlorobenzene	120-82-1	350 U	350 U	370 U	370 U	690 U
1,2-Dichlorobenzene	95-50-1	350 U	350 U	370 U	370 U	690 U
1,3-Dichlorobenzene	541-73-1	350 U	350 U	370 U	370 U	690 U
1,4-Dichlorobenzene	106-46-7	350 U	350 U	370 U	370 U	690 U
2,4,5-Trichlorophenol	95-95-4	1700 U	1700 U	1800 U	1800 U	3400 U
2,4,6-Trichlorophenol	88-06-2	350 U	350 U	370 U	370 U	690 U
2,4-Dichlorophenol	120-83-2	350 U	350 U	370 U	370 U	690 U
2,4-Dimethylphenol	105-67-9	350 U	350 U	370 U	370 U	690 U
2,4-Dinitrophenol	51-28-5	1700 U	1700 U	1800 U	1800 U	3400 U
2,4-Dinitrotoluene	121-14-2	350 U	350 U	370 U	370 U	690 U
2,6-Dinitrotoluene	606-20-2	350 U	350 U	370 U	370 U	690 U
2-Chloronaphthalene	91-58-7	350 U	350 U	370 U	370 U	690 U
2-Chlorophenol	95-57-8	350 U	350 U	370 U	370 U	690 U
2-Methylnaphthalene	91-57-6	350 U	350 U	370 U	370 U	490 J
2-Methylphenol	95-48-7	350 U	350 U	370 U	370 U	690 U
2-Nitroaniline	88-74-4	1700 U	1700 U	1800 U	1800 U	3400 U
2-Nitrophenol	88-75-5	350 U	350 U	370 U	370 U	690 U
3,3'-Dichlorobenzidine	91-94-1	700 U	710 U	750 U	750 U	1400 UJ
3-Nitroaniline	99-09-2	1700 R	1700 R	1800 U	1800 U	3400 U
4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1700 U	1800 U	1800 U	3400 U
4-Bromophenyl phenyl ether	101-55-3	350 U	350 U	370 U	370 U	690 U
4-Chloroaniline	106-47-8	350 U	350 U	370 U	370 U	690 UJ
4-Chlorophenylphenyl ether	7005-72-5	350 U	350 U	370 U	370 U	690 U
4-Chloro-3-methylphenol	59-50-7	350 U	350 U	370 U	370 U	690 U
4-Methylphenol	106-44-5	350 U	350 U	370 U	370 U	690 U
4-Nitroaniline	100-01-6	1700 U	1700 U	1800 U	1800 U	3400 R
4-Nitrophenol	100-02-7	1700 U	1700 U	1800 U	1800 U	3400 U
Acenaphthene	83-32-9	350 U	350 U	370 U	370 U	690 U
Acenaphthylene	208-96-8	350 U	350 U	370 U	370 U	690 U
Anthracene	120-12-7	350 U	350 U	370 U	370 U	690 U
Benzoic acid	65-85-0	1700 R	1700 R	1800 U	1800 U	3400 U
Benzo(a)anthracene	56-55-3	350 U	350 U	370 U	370 U	690 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-02-10-12-01	MBS-02-5-7-01
Sample Date:		29-Jan-91	29-Jan-91	31-Jan-91	31-Jan-91	31-Jan-91
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101318-01A	C101318-04A	C102008-01A	C102008-05A	C102008-03A
Prep Date:		06-Feb-91	06-Feb-91	10-Feb-91	10-Feb-91	10-Feb-91
Analysis Date:		13-Feb-91	12-Feb-91	20-Feb-91	15-Feb-91	20-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
Benzo(a)pyrene	50-32-8	360 U	360 U	3400 U	410 U	3400 U
Benzo(b)fluoranthene	205-99-2	360 U	360 U	3400 U	410 U	3400 U
Benzo(g,h,i)perylene	191-24-2	360 U	360 U	3400 UJ	410 U	3400 UJ
Benzo(k)fluoranthene	207-08-9	360 U	360 U	3400 U	410 U	3400 U
Benzyl alcohol	100-51-6	360 U	360 U	3400 U	410 U	3400 U
bis(2-Chloroethoxy)methane	111-91-1	360 U	360 U	3400 U	410 U	3400 U
bis(2-Chloroethyl)ether	111-44-4	360 R	360 U	3400 U	410 U	3400 U
bis(2-Chloroisopropyl) ether	108-60-1	360 U	360 U	3400 U	410 U	3400 U
bis(2-Ethylhexyl) phthalate	117-81-7	360 U	360 U	3400 U	410 U	3400 U
Butyl benzyl phthalate	85-68-7	360 U	360 U	3400 U	410 U	3400 U
Chrysene	218-01-9	360 U	360 U	3400 U	410 U	3400 U
Dibenzofuran	132-64-9	360 U	360 U	3400 U	410 U	3400 U
Dibenzo(a,h)anthracene	53-70-3	360 U	360 U	3400 UJ	410 U	3400 UJ
Diethyl phthalate	84-66-2	360 U	360 U	3400 U	410 U	3400 U
Dimethyl phthalate	131-11-3	360 U	360 U	3400 U	410 U	3400 U
Di-n-butyl phthalate	84-74-2	360 U	360 U	3400 U	410 U	3400 U
Di-n-octyl phthalate	117-84-0	360 U	360 U	3400 U	410 U	3400 U
Fluoranthene	206-44-0	360 U	360 U	3400 U	410 U	3400 U
Fluorene	86-73-7	360 U	360 U	3400 U	410 U	3400 U
Hexachlorobenzene	118-74-1	360 U	360 U	3400 U	410 U	3400 U
Hexachlorobutadiene	87-68-3	360 U	360 U	3400 U	410 U	3400 U
Hexachlorocyclopentadiene	77-47-4	360 U	360 U	3400 UJ	410 U	3400 UJ
Hexachloroethane	67-72-1	360 U	360 U	3400 U	410 U	3400 U
Indeno(1,2,3-cd)pyrene	193-39-5	360 U	360 U	3400 UJ	410 U	3400 UJ
Isophorone	78-59-1	360 U	360 U	3400 U	410 U	3400 U
Naphthalene	91-20-3	360 U	360 U	3400 U	410 U	3400 U
Nitrobenzene	98-95-3	360 U	360 U	3400 U	410 U	3400 U
N-Nitrosodiphenylamine	86-30-6	360 U	360 U	3400 U	410 U	3400 U
N-Nitroso-di-n-propylamine	621-64-7	360 U	360 U	3400 U	410 U	3400 U
Pentachlorophenol	87-86-5	1800 U	1800 U	16000 U	2000 U	16000 U
Phenanthrene	85-01-8	360 U	360 U	3400 U	410 U	3400 U
Phenol	108-95-2	360 U	360 U	3400 U	410 U	3400 U
Pyrene	129-00-0	360 U	360 U	3400 U	410 U	3400 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-03-0-2-01	MBS-03-5-7-01	MBS-04-0-2-01	MBS-04-15-16 1/2-01	MBS-04-99-01
Sample Date:		30-Jan-91	30-Jan-91	21-Mar-91	21-Mar-91	21-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101326-01A	C101326-03A	C103195-01A	C103195-02A	C103195-04A
Prep Date:		10-Feb-91	10-Feb-91	23-Mar-91	23-Mar-91	23-Mar-91
Analysis Date:		15-Feb-91	15-Feb-91	01-Apr-91	01-Apr-91	05-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
Benzo(a)pyrene	50-32-8	350 U	350 U	370 U	370 U	690 U
Benzo(b)fluoranthene	205-99-2	350 U	350 U	370 U	370 U	690 U
Benzo(g,h,i)perylene	191-24-2	350 U	350 U	370 U	370 U	690 U
Benzo(k)fluoranthene	207-08-9	350 U	350 U	370 U	370 U	690 U
Benzyl alcohol	100-51-6	350 U	350 U	370 U	370 U	690 U
bis(2-Chloroethoxy)methane	111-91-1	350 U	350 U	370 U	370 U	690 U
bis(2-Chloroethyl)ether	111-44-4	350 U	350 U	370 U	370 U	690 U
bis(2-Chloroisopropyl) ether	108-60-1	350 U	350 U	370 U	370 U	690 U
bis(2-Ethylhexyl) phthalate	117-81-7	350 U	350 U	370 U	370 U	690 U
Butyl benzyl phthalate	85-68-7	350 U	350 U	370 U	370 U	690 U
Chrysene	218-01-9	350 U	350 U	370 U	370 U	690 U
Dibenzofuran	132-64-9	350 U	350 U	370 U	370 U	690 U
Dibenzo(a,h)anthracene	53-70-3	350 U	350 U	370 U	370 U	690 U
Di [illegible]yl phthalate	84-66-2	350 U	350 U	370 U	370 U	690 U
Dimethyl phthalate	131-11-3	350 U	350 U	370 U	370 U	690 U
Di-n-butyl phthalate	84-74-2	350 U	350 U	370 U	370 U	690 U
Di-n-octyl phthalate	117-84-0	350 U	350 U	370 U	370 U	690 U
Fluoranthene	206-44-0	350 U	350 U	370 U	370 U	690 U
Fluorene	86-73-7	350 U	350 U	370 U	370 U	690 U
Hexachlorobenzene	118-74-1	350 U	350 U	370 U	370 U	690 U
Hexachlorobutadiene	87-68-3	350 U	350 U	370 U	370 U	690 U
Hexachlorocyclopentadiene	77-47-4	350 U	350 U	370 U	370 U	690 U
Hexachloroethane	67-72-1	350 U	350 U	370 U	370 U	690 U
Indeno(1,2,3-cd)pyrene	193-39-5	350 U	350 U	370 U	370 U	690 U
Isophorone	78-59-1	350 U	350 U	370 U	370 U	690 U
Naphthalene	91-20-3	350 U	350 U	370 U	370 U	110 J
Nitrobenzene	98-95-3	350 U	350 U	370 U	370 U	690 U
N-Nitrosodiphenylamine	86-30-6	350 U	350 U	370 U	370 U	690 U
N-Nitroso-di-n-propylamine	621-64-7	350 U	350 U	370 U	370 U	690 U
Pentachlorophenol	87-86-5	1700 U	1700 U	1800 U	1800 U	3400 U
Phenanthrene	85-01-8	350 U	350 U	43 J	370 U	690 U
Phenol	108-95-2	350 U	350 U	370 U	370 U	690 U
Pyrene	129-00-0	350 U	350 U	53 J	370 U	690 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

COMPOUND NAME	CAS NUMBER						
Sample Number:		SB1-02-0-2-01	SB1-03-0-2-01	SB1-03-20-22-01	SB1-03-35-37-01	SB1-03-35-37-02	SB1-03-55-57-01
Sample Date:		04-Feb-91	21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102058-01A	C101211-05A	C101211-14A	C101211-06A	C101211-07A	C101215-01A
Prep Date:		10-Feb-91	25-Jan-91	29-Jan-91	25-Jan-91	25-Jan-91	29-Jan-91
Analysis Date:		15-Feb-91	29-Jan-91	30-Jan-91	29-Jan-91	29-Jan-91	30-Jan-91
Units:		ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/Kg
1,2,4-Trichlorobenzene	120-82-1	360 U	360 U	340 U	340 U	340 U	430 U
1,2-Dichlorobenzene	95-50-1	360 U	360 U	340 U	340 U	340 U	430 U
1,3-Dichlorobenzene	541-73-1	360 U	360 U	340 U	340 U	340 U	430 U
1,4-Dichlorobenzene	106-46-7	360 U	360 U	340 U	340 U	340 U	430 U
2,4,5-Trichlorophenol	95-95-4	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
2,4,6-Trichlorophenol	88-06-2	360 U	360 U	340 U	340 U	340 U	430 U
2,4-Dichlorophenol	120-83-2	360 U	360 U	340 U	340 U	340 U	430 U
2,4-Dimethylphenol	105-67-9	360 U	360 U	340 U	340 U	340 U	430 U
2,4-Dinitrophenol	51-28-5	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
2,4-Dinitrotoluene	121-14-2	360 U	360 U	340 U	340 U	340 U	430 U
2,6-Dinitrotoluene	606-20-2	360 U	360 U	340 U	340 U	340 U	430 U
2-Chloronaphthalene	91-58-7	360 U	360 U	340 U	340 U	340 U	430 U
2-Chlorophenol	95-57-8	360 U	360 U	340 U	340 U	340 U	430 U
2-Methylnaphthalene	91-57-6	360 U	360 U	340 U	340 U	340 U	430 U
2-Methylphenol	95-48-7	360 U	360 U	340 U	340 U	340 U	430 U
2-Nitroaniline	88-74-4	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
2-Nitrophenol	88-75-5	360 U	360 U	340 U	340 U	340 U	430 U
3,3'-Dichlorobenzidine	91-94-1	720 U	720 U	680 U	680 U	670 U	860 U
3-Nitroaniline	99-09-2	1700 R	1700 UJ	1600 U	1600 UJ	1600 UJ	2100 U
4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
4-Bromophenyl phenyl ether	101-55-3	360 U	360 U	340 U	340 U	340 U	430 U
4-Chloroaniline	106-47-8	360 R	360 U	340 U	340 U	340 U	430 U
4-Chlorophenylphenyl ether	7005-72-5	360 U	360 U	340 U	340 U	340 U	430 U
4-Chloro-3-methylphenol	59-50-7	360 U	360 U	340 U	340 U	340 U	430 U
4-Methylphenol	106-44-5	360 U	360 U	340 U	340 U	340 U	430 U
4-Nitroaniline	100-01-6	1700 U	1700 R	1600 U	1600 R	1600 UJ	2100 U
4-Nitrophenol	100-02-7	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
Acenaphthene	83-32-9	360 U	360 U	340 U	340 U	340 U	430 U
Acenaphthylene	208-96-8	360 U	360 U	340 U	340 U	340 U	430 U
Anthracene	120-12-7	360 U	360 U	340 U	340 U	340 U	430 U
Benzoic acid	65-85-0	1700 R	1700 R	1600 U	1600 R	1600 R	2100 U
Benzo(a)anthracene	56-55-3	360 U	360 U	340 U	340 U	340 U	430 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-03-55-57-02	SB1-04-0-2-01	SB1-04-10-12-01	SB1-04-55-57-01	SB1-04-55-57-02	SB1-05-0-1/01
Sample Date:		22-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	18-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101215-02A	C101211-01A	C101211-02A	C101211-03A	C101211-04A	C101197-01A
Prep Date:		29-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91
Analysis Date:		29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	28-Jan-91
Units:		ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
COMPOUND NAME	CAS NUMBER						
1,2,4-Trichlorobenzene	120-82-1 U	390 U	3500 U	350 U	360 U	420 U	360 U
1,2-Dichlorobenzene	95-50-1 U	390 U	3500 U	350 U	360 U	420 U	360 U
1,3-Dichlorobenzene	541-73-1 U	390 U	3500 U	350 U	360 U	420 U	360 U
1,4-Dichlorobenzene	106-46-7 U	390 U	3500 U	350 U	360 U	420 U	360 U
2,4,5-Trichlorophenol	95-95-4 U	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
2,4,6-Trichlorophenol	88-06-2 U	390 U	3500 U	350 U	360 U	420 U	360 U
2,4-Dichlorophenol	120-83-2 U	390 U	3500 U	350 U	360 U	420 U	360 U
2,4-Dimethylphenol	105-67-9 U	390 U	3500 U	350 U	360 U	420 U	360 U
2,4-Dinitrophenol	51-28-5 U	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
2,4-Dinitrotoluene	121-14-2 U	390 U	3500 U	350 U	360 U	420 U	360 U
2,6-Dinitrotoluene	606-20-2 U	390 U	3500 U	350 U	360 U	420 U	360 U
2-Chloronaphthalene	91-58-7 U	390 U	3500 U	350 U	360 U	420 U	360 U
2-Chlorophenol	95-57-8 U	390 U	3500 U	350 U	360 U	420 U	360 U
2-Methylnaphthalene	91-57-6 U	390 U	3500 U	350 U	360 U	420 U	360 U
2-Methylphenol	95-48-7 U	390 U	35[illegible] U	350 U	360 U	420 U	360 U
2-Nitroaniline	88-74-4 U	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
2-Nitrophenol	88-75-5 U	390 U	3500 U	350 U	360 U	420 U	360 U
3,3'-Dichlorobenzidine	91-94-1 U	790 U	7000 U	690 U	730 U	840 U	720 U
3-Nitroaniline	99-09-2 U	1900 UJ	17000 UJ	1700 UJ	1800 UJ	2000 UJ	1700 UJ
4,6-Dinitro-2-methylphenol	534-52-1 U	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
4-Bromophenyl phenyl ether	101-55-3 U	390 U	3500 U	350 U	360 U	420 U	360 U
4-Chloroaniline	106-47-8 U	390 U	3500 U	350 U	360 U	420 U	360 UJ
4-Chlorophenylphenyl ether	7005-72-5U	390 U	3500 U	350 U	360 U	420 U	360 U
4-Chloro-3-methylphenol	59-50-7 U	390 U	3500 U	350 U	360 U	420 U	360 U
4-Methylphenol	106-44-5 U	390 U	3500 U	350 U	360 U	420 U	360 U
4-Nitroaniline	100-01-6 U	1900 UJ	17000 UJ	1700 R	1800 R	2000 R	1700 U
4-Nitrophenol	100-02-7 U	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
Acenaphthene	83-32-9 U	390 U	3500 U	350 U	360 U	420 U	360 U
Acenaphthylene	208-96-8 U	390 U	3500 U	350 U	360 U	420 U	360 U
Anthracene	120-12-7 U	390 U	3500 U	350 U	360 U	420 U	360 U
Benzoic acid	65-85-0 U	1900 R	17000 R	1700 R	1800 R	2000 R	1700 U
Benzo(a)anthracene	56-55-3 U	390 U	3500 U	350 U	360 U	420 U	360 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-02-0-2-01	SB1-03-0-2-01	SB1-03-20-22-01	SB1-03-35-37-01	SB1-03-35-37-02	SB1-03-55-57-01
Sample Date:		04-Feb-91	21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102058-01A	C101211-05A	C101211-14A	C101211-06A	C101211-07A	C101215-01A
Prep Date:		10-Feb-91	25-Jan-91	29-Jan-91	25-Jan-91	25-Jan-91	29-Jan-91
Analysis Date:		15-Feb-91	29-Jan-91	30-Jan-91	29-Jan-91	29-Jan-91	30-Jan-91
Units:		ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
Benzo(a)pyrene	50-32-8	360 U	360 U	340 U	340 U	340 U	430 U
Benzo(b)fluoranthene	205-99-2	360 U	360 U	340 U	340 U	340 U	430 U
Benzo(g,h,i)perylene	191-24-2	360 U	360 U	340 U	340 U	340 U	430 U
Benzo(k)fluoranthene	207-08-9	360 U	360 U	340 U	340 U	340 U	430 U
Benzyl alcohol	100-51-6	360 U	360 U	340 U	340 U	340 U	430 U
bis(2-Chloroethoxy)methane	111-91-1	360 U	360 U	340 U	340 U	340 U	430 U
bis(2-Chloroethyl)ether	111-44-4	360 U	360 U	340 U	340 U	340 U	430 U
bis(2-Chloroisopropyl) ether	108-60-1	360 U	360 U	340 U	340 U	340 U	430 U
bis(2-Ethylhexyl) phthalate	117-81-7	360 U	360 U	340 U	340 U	340 U	430 U
Butyl benzyl phthalate	85-68-7	360 U	360 U	340 U	340 U	340 U	430 U
Chrysene	218-01-9	360 U	360 U	340 U	340 U	340 U	430 U
Dibenzofuran	132-64-9	360 U	360 U	340 U	340 U	340 U	430 U
Dibenzo(a,h)anthracene	53-70-3	360 U	360 U	340 U	340 U	340 U	430 U
Diethyl phthalate	84-66-2	360 U	360 U	340 U	340 U	340 U	430 U
Dimethyl phthalate	131-11-3	360 U	360 U	340 U	340 U	340 U	430 U
Di-n-butyl phthalate	84-74-2	360 U	360 U	340 U	340 U	340 U	430 U
Di-n-octyl phthalate	117-84-0	360 U	360 U	340 U	340 U	340 U	430 U
Fluoranthene	206-44-0	360 U	360 U	340 U	340 U	340 U	430 U
Fluorene	86-73-7	360 U	360 U	340 U	340 U	340 U	430 U
Hexachlorobenzene	118-74-1	360 U	360 U	340 U	340 U	340 U	430 U
Hexachlorobutadiene	87-68-3	360 U	360 U	340 U	340 U	340 U	430 U
Hexachlorocyclopentadiene	77-47-4	360 U	360 U	340 U	340 U	340 U	430 U
Hexachloroethane	67-72-1	360 U	360 U	340 U	340 U	340 U	430 U
Indeno(1,2,3-cd)pyrene	193-39-5	360 U	360 U	340 U	340 U	340 U	430 U
Isophorone	78-59-1	360 U	360 U	340 U	340 U	340 U	430 U
Naphthalene	91-20-3	360 U	360 U	340 U	340 U	340 U	430 U
Nitrobenzene	98-95-3	360 U	360 U	340 U	340 U	340 U	430 U
N-Nitrosodiphenylamine	86-30-6	360 U	360 U	340 U	340 U	340 U	430 U
N-Nitroso-di-n-propylamine	621-64-7	360 U	360 U	340 U	340 U	340 U	430 U
Pentachlorophenol	87-86-5	1700 U	1700 U	1600 U	1600 U	1600 U	2100 U
Phenanthrene	85-01-8	360 U	360 U	340 U	340 U	340 U	430 U
Phenol	108-95-2	360 U	360 U	340 U	340 U	340 U	430 U
Pyrene	129-00-0	360 U	360 U	340 U	340 U	340 U	430 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB1-03-55-57-02	SB1-04-0-2-01	SB1-04-10-12-01	SB1-04-55-57-01	SB1-04-55-57-02	SB1-05-0-1/01
Sample Date:		22-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	21-Jan-91	18-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101215-02A	C101211-01A	C101211-02A	C101211-03A	C101211-04A	C101197-01A
Prep Date:		29-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91	25-Jan-91
Analysis Date:		29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	28-Jan-91
Units:		ug/Kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
COMPOUND NAME	CAS NUMBER						
Benzo(a)pyrene	50-32-8	390 U	3500 U	350 U	360 U	420 U	380 U
Benzo(b)fluoranthene	205-99-2	390 U	3500 U	350 U	360 U	420 U	380 U
Benzo(g,h,i)perylene	191-24-2	390 U	3500 U	350 U	360 U	420 U	380 U
Benzo(k)fluoranthene	207-08-9	390 U	3500 U	350 U	360 U	420 U	380 U
Benzyl alcohol	100-51-6	390 U	3500 U	350 U	360 U	420 U	380 U
bis(2-Chloroethoxy)methane	111-91-1	390 U	3500 U	350 U	360 U	420 U	380 U
bis(2-Chloroethyl)ether	111-44-4	390 U	3500 U	350 U	360 U	420 U	380 U
bis(2-Chloroisopropyl) ether	108-60-1	390 U	3500 U	350 U	360 U	420 U	380 U
bis(2-Ethylhexyl) phthalate	117-81-7	390 U	3500 U	350 U	360 U	420 U	380 U
Butyl benzyl phthalate	85-68-7	390 U	3500 U	350 U	360 U	420 U	380 U
Chrysene	218-01-9	390 U	3500 U	350 U	360 U	420 U	380 U
Dibenzofuran	132-64-9	390 U	3500 U	350 U	360 U	420 U	380 U
Dibenzo(a,h)anthracene	53-70-3	390 U	3500 U	350 U	360 U	420 U	380 U
Diethyl phthalate	84-66-2	390 U	3500 U	350 U	360 U	420 U	380 U
Dimethyl phthalate	131-11-3	390 U	3500 U	350 U	360 U	420 U	380 U
Di-n-butyl phthalate	84-74-2	390 U	3500 U	350 U	360 U	420 U	380 U
Di-n-octyl phthalate	117-84-0	390 U	3500 U	350 U	360 U	420 U	380 U
Fluoranthene	206-44-0	390 U	3500 U	350 U	360 U	420 U	380 U
Fluorene	86-73-7	390 U	3500 U	350 U	360 U	420 U	380 U
Hexachlorobenzene	118-74-1	390 U	3500 U	350 U	360 U	420 U	380 U
Hexachlorobutadiene	87-68-3	390 U	3500 U	350 U	360 U	420 U	380 U
Hexachlorocyclopentadiene	77-47-4	390 U	3500 U	350 U	360 U	420 U	380 UJ
Hexachloroethane	67-72-1	390 U	3500 U	350 U	360 U	420 U	380 U
Indeno(1,2,3-cd)pyrene	193-39-5	390 U	3500 U	350 U	360 U	420 U	380 U
Isophorone	78-59-1	390 U	3500 U	350 U	360 U	420 U	380 U
Naphthalene	91-20-3	390 U	3500 U	350 U	360 U	420 U	380 U
Nitrobenzene	98-95-3	390 U	3500 U	350 U	360 U	420 U	380 U
N-Nitrosodiphenylamine	86-30-6	390 U	3500 U	350 U	360 U	420 U	380 U
N-Nitroso-di-n-propylamine	621-64-7	390 U	3500 U	350 U	360 U	420 U	380 U
Pentachlorophenol	87-86-5	1900 U	17000 U	1700 U	1800 U	2000 U	1700 U
Phenanthrene	85-01-8	390 U	3500 U	350 U	360 U	420 U	380 U
Phenol	108-95-2	390 U	3500 U	350 U	360 U	420 U	380 U
Pyrene	129-00-0	390 U	3500 U	350 U	360 U	420 U	380 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-01-0-2-01	SB2-01-55-57-01	SB2-02-0-2-01	SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01
Sample Date:		29-Jan-91	29-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101317-01A	C101317-02A	C101215-04A	C101215-06A	C101215-10A	C101215-11A
Prep Date:		06-Feb-91	06-Feb-91	29-Jan-91	29-Jan-91	29-Jan-91	01-Feb-91
Analysis Date:		13-Feb-91	13-Feb-91	29-Jan-91	29-Jan-91	30-Jan-91	05-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
1,2,4-Trichlorobenzene	120-82-1	360 U	360 U	380 U	350 U	370 U	380 U
1,2-Dichlorobenzene	95-50-1	360 U	360 U	380 U	350 U	370 U	380 U
1,3-Dichlorobenzene	541-73-1	360 U	360 U	380 U	350 U	370 U	380 U
1,4-Dichlorobenzene	106-46-7	360 U	360 U	380 U	350 U	370 U	380 U
2,4,5-Trichlorophenol	95-95-4	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U
2,4,6-Trichlorophenol	88-06-2	360 U	360 U	380 U	350 U	370 U	380 U
2,4-Dichlorophenol	120-83-2	360 U	360 U	380 U	350 U	370 U	380 U
2,4-Dimethylphenol	105-67-9	360 U	360 U	380 U	350 U	370 U	380 U
2,4-Dinitrophenol	51-28-5	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U
2,4-Dinitrotoluene	121-14-2	360 U	360 U	380 U	350 U	370 U	380 U
2,6-Dinitrotoluene	606-20-2	360 U	360 U	380 U	350 U	370 U	380 U
2-Chloronaphthalene	91-58-7	360 U	360 U	380 U	350 U	370 U	380 U
2-Chlorophenol	95-57-8	360 U	360 U	380 U	350 U	370 U	380 U
2-Methylnaphthalene	91-57-6	360 U	360 U	380 U	350 U	370 U	380 U
2-Methylphenol	95-48-7	360 U	360 U	380 U	350 U	370 U	380 U
2-Nitroaniline	88-74-4	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U
2-Nitrophenol	88-75-5	360 U	360 U	380 U	350 U	370 U	380 U
3,3'-Dichlorobenzidine	91-94-1	720 U	720 U	770 U	690 U	740 U	760 U
3-Nitroaniline	99-09-2	1700 UJ	1700 UJ	1900 U	1700 U	1800 U	1800 U
4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U
4-Bromophenyl phenyl ether	101-55-3	360 U	360 U	380 U	350 U	370 U	380 U
4-Chloroaniline	106-47-8	360 UJ	360 UJ	380 U	350 U	370 U	380 U
4-Chlorophenylphenyl ether	7005-72-5	360 U	360 U	380 U	350 U	370 U	380 U
4-Chloro-3-methylphenol	59-50-7	360 U	360 U	380 U	350 U	370 U	380 U
4-Methylphenol	106-44-5	360 U	360 U	380 U	350 U	370 U	380 U
4-Nitroaniline	100-01-6	1700 R	1700 R	1900 U	1700 U	1800 U	1800 U
4-Nitrophenol	100-02-7	1700 U	1700 U	1900 U	1700 U	1800 U	1800 R
Acenaphthene	83-32-9	360 U	360 U	380 U	350 U	370 U	380 U
Acenaphthylene	208-96-8	360 U	360 U	380 U	350 U	370 U	380 U
Anthracene	120-12-7	360 U	360 U	380 U	350 U	370 U	380 U
Benzoic acid	65-85-0	100 J	1700 R	1900 U	1700 U	1800 U	1800 R
Benzo(a)anthracene	56-55-3	360 U	360 U	380 U	350 U	370 U	380 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-04-15-17-01	SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01	MB2-02-30-32-01	MB2-02-70-72-01
Sample Date:		22-Jan-91	23-Jan-91	23-Jan-91	06-Feb-91	06-Feb-91	06-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101215-03A	C101230-01A	C101230-02A	C102089-01A	C102089-03A	C102089-04A
Prep Date:		01-Feb-91	29-Jan-91	29-Jan-91	11-Mar-91	11-Mar-91	11-Mar-91
Analysis Date:		05-Feb-91	30-Jan-91	30-Jan-91	12-Mar-91	12-Mar-91	12-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
1,2,4-Trichlorobenzene	120-82-1	340 U	370 U	360 U	380 R	340 R	360 R
1,2-Dichlorobenzene	95-50-1	340 U	370 U	360 U	380 R	340 R	360 R
1,3-Dichlorobenzene	541-73-1	340 U	370 U	360 U	380 R	340 R	360 R
1,4-Dichlorobenzene	106-46-7	340 U	370 U	360 U	380 R	340 R	360 R
2,4,5-Trichlorophenol	95-95-4	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
2,4,6-Trichlorophenol	88-06-2	340 U	370 U	360 U	380 R	340 R	360 R
2,4-Dichlorophenol	120-83-2	340 U	370 U	360 U	380 R	340 R	360 R
2,4-Dimethylphenol	105-67-9	340 U	370 U	360 U	380 R	340 R	360 R
2,4-Dinitrophenol	51-28-5	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
2,4-Dinitrotoluene	121-14-2	340 U	370 U	360 U	380 R	340 R	360 R
2,6-Dinitrotoluene	606-20-2	340 U	370 U	360 U	380 R	340 R	360 R
2-Chloronaphthalene	91-58-7	340 U	370 U	360 U	380 R	340 R	360 R
2-Chlorophenol	95-57-8	340 U	370 U	360 U	380 R	340 R	360 R
2-Methylnaphthalene	91-57-6	340 U	370 U	360 U	380 R	340 R	360 R
2-Methylphenol	95-48-7	340 U	370 U	360 U	380 R	340 R	360 R
2-Nitroaniline	88-74-4	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
2-Nitrophenol	88-75-5	340 U	370 U	360 U	380 R	340 R	360 R
3,3'-Dichlorobenzidine	91-94-1	670 U	740 U	720 U	760 R	690 R	730 R
3-Nitroaniline	99-09-2	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
4,6-Dinitro-2-methylphenol	534-52-1	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
4-Bromophenyl phenyl ether	101-55-3	340 U	370 U	360 U	380 R	340 R	360 R
4-Chloroaniline	106-47-8	340 U	370 U	360 U	380 R	340 R	360 R
4-Chlorophenylphenyl ether	7005-72-5	340 U	370 U	360 U	380 R	340 R	360 R
4-Chloro-3-methylphenol	59-50-7	340 U	370 U	360 U	380 R	340 R	360 R
4-Methylphenol	106-44-5	340 U	370 U	360 U	380 R	340 R	360 R
4-Nitroaniline	100-01-6	1600 R	1800 U	1700 U	1800 R	1700 R	1800 R
4-Nitrophenol	100-02-7	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
Acenaphthene	83-32-9	340 U	370 U	360 U	380 R	340 R	360 R
Acenaphthylene	208-96-8	340 U	370 U	360 U	380 R	340 R	360 R
Anthracene	120-12-7	340 U	370 U	360 U	380 R	340 R	360 R
Benzoic acid	65-85-0	1600 R	1800 U	1700 U	1800 R	1700 R	1800 R
Benzo(a)anthracene	56-55-3	340 U	370 U	360 U	380 R	340 R	360 R

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-01-0-2-01	SB2-01-55-57-01	SB2-02-0-2-01	SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01
Sample Date:		29-Jan-91	29-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101317-01A	C101317-02A	C101215-04A	C101215-06A	C101215-10A	C101215-11A
Prep Date:		06-Feb-91	06-Feb-91	29-Jan-91	29-Jan-91	29-Jan-91	01-Feb-91
Analysis Date:		13-Feb-91	13-Feb-91	29-Jan-91	29-Jan-91	30-Jan-91	05-Feb-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
Benzo(a)pyrene	50-32-8	360 U	360 U	380 U	350 U	370 U	380 U
Benzo(b)fluoranthene	205-99-2	360 U	360 U	380 U	350 U	370 U	380 U
Benzo(g,h,i)perylene	191-24-2	360 U	360 U	380 U	350 U	370 U	380 U
Benzo(k)fluoranthene	207-08-9	360 U	360 U	380 U	350 U	370 U	380 U
Benzyl alcohol	100-51-6	360 U	360 U	380 U	350 U	370 U	380 UJ
bis(2-Chloroethoxy)methane	111-91-1	360 U	360 U	380 U	350 U	370 U	380 U
bis(2-Chloroethyl)ether	111-44-4	360 R	360 R	380 U	350 U	370 U	380 U
bis(2-Chloroisopropyl) ether	108-60-1	360 U	360 U	380 U	350 U	370 U	380 U
bis(2-Ethylhexyl) phthalate	117-81-7	360 U	360 U	380 U	350 U	370 U	380 U
Butyl benzyl phthalate	85-68-7	360 U	360 U	380 U	350 U	370 U	380 U
Chrysene	218-01-9	360 U	360 U	380 U	350 U	370 U	380 U
Dibenzofuran	132-64-9	360 U	360 U	380 U	350 U	370 U	380 U
Dibenzo(a,h)anthracene	53-70-3	360 U	360 U	380 U	350 U	370 U	380 U
Diethyl phthalate	84-66-2	360 U	360 U	380 U	52 J	370 U	380 U
Dimethyl phthalate	131-11-3	360 U	360 U	380 U	350 U	370 U	380 U
Di-n-butyl phthalate	84-74-2	360 U	360 U	380 U	350 U	370 U	380 U
Di-n-octyl phthalate	117-84-0	360 U	360 U	380 U	350 U	370 U	380 U
Fluoranthene	206-44-0	360 U	360 U	380 U	350 U	370 U	380 U
Fluorene	86-73-7	360 U	360 U	380 U	350 U	370 U	380 U
Hexachlorobenzene	118-74-1	360 U	360 U	380 U	350 U	370 U	380 U
Hexachlorobutadiene	87-68-3	360 U	360 U	380 U	350 U	370 U	380 U
Hexachlorocyclopentadiene	77-47-4	360 U	360 U	380 U	350 U	370 U	380 U
Hexachloroethane	67-72-1	360 U	360 U	380 U	350 U	370 U	380 U
Indeno(1,2,3-cd)pyrene	193-39-5	360 U	360 U	380 U	350 U	370 U	380 U
Isophorone	78-59-1	360 U	360 U	380 U	350 U	370 U	380 U
Naphthalene	91-20-3	360 U	360 U	380 U	350 U	370 U	380 U
Nitrobenzene	98-95-3	360 U	360 U	380 U	350 U	370 U	380 U
N-Nitrosodiphenylamine	86-30-6	360 U	360 U	380 U	350 U	370 U	380 U
N-Nitroso-di-n-propylamine	621-64-7	360 U	360 U	380 U	350 U	370 U	380 U
Pentachlorophenol	87-86-5	1700 U	1700 U	1900 U	1700 U	1800 U	1800 U
Phenanthrene	85-01-8	360 U	360 U	380 U	350 U	370 U	380 U
Phenol	108-95-2	360 U	360 U	380 U	350 U	370 U	380 U
Pyrene	129-00-0	360 U	360 U	380 U	350 U	370 U	380 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-04-15-17-01	SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01	MB2-02-30-32-01	MB2-02-70-72-01
Sample Date:		22-Jan-91	23-Jan-91	23-Jan-91	06-Feb-91	06-Feb-91	06-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101215-03A	C101230-01A	C101230-02A	C102089-01A	C102089-03A	C102089-04A
Prep Date:		01-Feb-91	29-Jan-91	29-Jan-91	11-Mar-91	11-Mar-91	11-Mar-91
Analysis Date:		05-Feb-91	30-Jan-91	30-Jan-91	12-Mar-91	12-Mar-91	12-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
Benzo(a)pyrene	50-32-8	340 U	370 U	360 U	43 J	340 R	360 R
Benzo(b)fluoranthene	205-99-2	340 U	370 U	360 U	380 R	340 R	360 R
Benzo(g,h,i)perylene	191-24-2	340 U	370 U	360 U	380 R	340 R	360 R
Benzo(k)fluoranthene	207-08-9	340 UJ	370 U	360 U	47 J	340 R	360 R
Benzyl alcohol	100-51-6	340 U	370 U	360 U	380 R	340 R	360 R
bis(2-Chloroethoxy)methane	111-91-1	340 U	370 U	360 U	380 R	340 R	360 R
bis(2-Chloroethyl)ether	111-44-4	340 U	370 U	360 U	380 R	340 R	360 R
bis(2-Chloroisopropyl) ether	108-60-1	340 U	370 U	360 U	380 R	340 R	360 R
bis(2-Ethylhexyl) phthalate	117-81-7	340 U	370 U	360 U	380 R	340 R	86 J
Butyl benzyl phthalate	85-68-7	340 U	370 U	360 U	380 R	340 R	360 R
Chrysene	218-01-9	340 U	370 U	360 U	380 R	340 R	360 R
Dibenzofuran	132-64-9	340 U	370 U	360 U	380 R	340 R	360 R
Dibenzo(a,h)anthracene	53-70-3	340 U	370 U	360 U	380 R	340 R	360 R
Diethyl phthalate	84-66-2	340 U	370 U	360 U	380 R	340 R	360 R
Dimethyl phthalate	131-11-3	340 U	370 U	360 U	380 R	340 R	360 R
Di-n-butyl phthalate	84-74-2	340 U	370 U	360 U	380 R	340 R	360 R
Di-n-octyl phthalate	117-84-0	340 U	370 U	360 U	380 R	340 R	360 R
Fluoranthene	206-44-0	340 U	370 U	360 U	380 R	340 R	360 R
Fluorene	86-73-7	340 U	370 U	360 U	380 R	340 R	360 R
Hexachlorobenzene	118-74-1	340 U	370 U	360 U	380 R	340 R	360 R
Hexachlorobutadiene	87-68-3	340 U	370 U	360 U	380 R	340 R	360 R
Hexachlorocyclopentadiene	77-47-4	340 U	370 U	360 U	380 R	340 R	360 R
Hexachloroethane	67-72-1	340 U	370 U	360 U	380 R	340 R	360 R
Indeno(1,2,3-cd)pyrene	193-39-5	340 U	370 U	360 U	380 R	340 R	360 R
Isophorone	78-59-1	340 U	370 U	360 U	380 R	340 R	360 R
Naphthalene	91-20-3	340 U	370 U	360 U	380 R	340 R	360 R
Nitrobenzene	98-95-3	340 U	370 U	360 U	380 R	340 R	360 R
N-Nitrosodiphenylamine	86-30-6	340 U	370 U	360 U	380 R	340 R	360 R
N-Nitroso-di-n-propylamine	621-64-7	340 U	370 U	360 U	380 R	340 R	360 R
Pentachlorophenol	87-86-5	1600 U	1800 U	1700 U	1800 R	1700 R	1800 R
Phenanthrene	85-01-8	340 U	370 U	360 U	380 R	340 R	360 R
Phenol	108-95-2	340 U	370 U	360 U	380 R	340 R	360 R
Pyrene	129-00-0	340 U	370 U	360 U	380 R	340 R	360 R

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-01-0-1 1/2-01	SB3-01-50-51 1/2-01	SB3-01-70-71 1/2-01	SB3-03-0-1 1/2-01	SB3-03-10-11 1/2-01
Sample Date:		24-Mar-91	24-Mar-91	25-Mar-91	25-Mar-91	25-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-08A
Prep Date:		30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,2,4-Trichlorobenzene	120-82-1	350 U	340 U	350 U	350 U	350 U
1,2-Dichlorobenzene	95-50-1	350 U	340 U	350 U	350 U	350 U
1,3-Dichlorobenzene	541-73-1	350 U	340 U	350 U	350 U	350 U
1,4-Dichlorobenzene	106-46-7	350 U	340 U	350 U	350 U	350 U
2,4,5-Trichlorophenol	95-95-4	1700 U	1600 U	1700 U	1700 U	1700 U
2,4,6-Trichlorophenol	88-06-2	350 U	340 U	350 U	350 U	350 U
2,4-Dichlorophenol	120-83-2	350 U	340 U	350 U	350 U	350 U
2,4-Dimethylphenol	105-67-9	350 U	340 U	350 U	350 U	350 U
2,4-Dinitrophenol	51-28-5	1700 U	1600 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	121-14-2	350 U	340 U	350 U	350 U	350 U
2,6-Dinitrotoluene	606-20-2	350 U	340 U	350 U	350 U	350 U
2-Chloronaphthalene	91-58-7	350 U	340 U	350 U	350 U	350 U
2-Chlorophenol	95-57-8	350 U	340 U	350 U	350 U	350 U
2-Methylnaphthalene	91-57-6	350 U	340 U	350 U	350 U	350 U
2-Methylphenol	95-48-7	350 U	340 U	350 U	350 U	350 U
2-Nitroaniline	88-74-4	1700 U	1600 U	1700 U	1700 U	1700 U
2-Nitrophenol	88-75-5	350 U	340 U	350 U	350 U	350 U
3,3'-Dichlorobenzidine	91-94-1	690 U	680 U	700 U	690 U	700 U
3-Nitroaniline	99-09-2	1700 R	1600 R	1700 R	1700 R	1700 R
4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1600 U	1700 U	1700 U	1700 U
4-Bromophenyl phenyl ether	101-55-3	350 U	340 U	350 U	350 U	350 U
4-Chloroaniline	106-47-8	350 U	340 U	350 U	350 U	350 U
4-Chlorophenylphenyl ether	7005-72-5	350 U	340 U	350 U	350 U	350 U
4-Chloro-3-methylphenol	59-50-7	350 U	340 U	350 U	350 U	350 U
4-Methylphenol	106-44-5	350 U	340 U	350 U	350 U	350 U
4-Nitroaniline	100-01-6	1700 U	1600 U	1700 U	1700 U	1700 U
4-Nitrophenol	100-02-7	1700 U	1600 U	1700 U	1700 U	1700 U
Acenaphthene	83-32-9	350 U	340 U	350 U	350 U	350 U
Acenaphthylene	208-96-8	350 U	340 U	350 U	350 U	350 U
Anthracene	120-12-7	350 U	340 U	350 U	350 U	350 U
Benzoic acid	65-85-0	1700 U	1600 U	1700 U	1700 U	38 J
Benzo(a)anthracene	56-55-3	350 U	340 U	350 U	350 U	350 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-03-20-21 1/2-01	SB3-04-0-1 1/2-01	SB3-04-5-6 1/2-01	SB3-04-15-16 1/2-01	MB3-01-0-1 1/2-01
Sample Date:		25-Mar-91	24-Mar-91	24-Mar-91	24-Mar-91	22-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-09A	C103220-05A	C103220-06A	C103220-13A	C103212-01A
Prep Date:		30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91	26-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91	02-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
1,2,4-Trichlorobenzene	120-82-1	340 U	340 U	350 U	340 U	390 U
1,2-Dichlorobenzene	95-50-1	340 U	340 U	350 U	340 U	390 U
1,3-Dichlorobenzene	541-73-1	340 U	340 U	350 U	340 U	390 U
1,4-Dichlorobenzene	106-46-7	340 U	340 U	350 U	340 U	390 U
2,4,5-Trichlorophenol	95-95-4	1600 U	1700 U	1700 U	1700 U	1900 U
2,4,6-Trichlorophenol	88-06-2	340 U	340 U	350 U	340 U	390 U
2,4-Dichlorophenol	120-83-2	340 U	340 U	350 U	340 U	390 U
2,4-Dimethylphenol	105-67-9	340 U	340 U	350 U	340 U	390 U
2,4-Dinitrophenol	51-28-5	1600 U	1700 U	1700 U	1700 U	1900 UJ
2,4-Dinitrotoluene	121-14-2	340 U	340 U	350 U	340 U	390 U
2,6-Dinitrotoluene	606-20-2	340 U	340 U	350 U	340 U	390 U
2-Chloronaphthalene	91-58-7	340 U	340 U	350 U	340 U	390 U
2-Chlorophenol	95-57-8	340 U	340 U	350 U	340 U	390 U
2-Methylnaphthalene	91-57-6	340 U	340 U	350 U	340 U	390 U
2-Methylphenol	95-48-7	340 U	340 U	350 U	340 U	390 U
2-Nitroaniline	88-74-4	1600 U	1700 U	1700 U	1700 U	1900 U
2-Nitrophenol	88-75-5	340 U	340 U	350 U	340 U	390 U
3,3'-Dichlorobenzidine	91-94-1	680 U	690 U	700 U	690 U	780 U
3-Nitroaniline	99-09-2	1600 R	1700 R	1700 R	1700 R	1900 UJ
4,6-Dinitro-2-methylphenol	534-52-1	1600 U	1700 U	1700 U	1700 U	1900 U
4-Bromophenyl phenyl ether	101-55-3	340 U	340 U	350 U	340 U	390 U
4-Chloroaniline	106-47-8	340 U	340 U	350 U	340 U	390 U
4-Chlorophenylphenyl ether	7005-72-5	340 U	340 U	350 U	340 U	390 U
4-Chloro-3-methylphenol	59-50-7	340 U	340 U	350 U	340 U	390 U
4-Methylphenol	106-44-5	340 U	340 U	350 U	340 U	390 U
4-Nitroaniline	100-01-6	1600 U	1700 U	1700 U	1700 U	1900 UJ
4-Nitrophenol	100-02-7	1600 U	1700 U	1700 U	1700 U	1900 U
Acenaphthene	83-32-9	340 U	340 U	350 U	340 U	390 U
Acenaphthylene	208-96-8	340 U	340 U	350 U	340 U	390 U
Anthracene	120-12-7	340 U	340 U	350 U	340 U	390 U
Benzoic acid	65-85-0	1600 U	1700 U	1700 U	1700 U	1900 U
Benzo(a)anthracene	56-55-3	340 U	340 U	350 U	340 U	390 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MB3-01-50-51 1/2-01	MB3-01-60-61 1/2-01	MB3-02-0-1 1/2-01	MB3-02-5-6 1/2-01
Sample Date:		22-Mar-91	22-Mar-91	23-Mar-91	23-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL
Lab Number:		C103212-02A	C103212-03A	C103220-01A	C103220-02A
Prep Date:		26-Mar-91	26-Mar-91	30-Mar-91	30-Mar-91
Analysis Date:		01-Apr-91	01-Apr-91		02-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER				
1,2,4-Trichlorobenzene	120-82-1	380 U	360 U	350 U	340 U
1,2-Dichlorobenzene	95-50-1	380 U	360 U	350 U	340 U
1,3-Dichlorobenzene	541-73-1	380 U	360 U	350 U	340 U
1,4-Dichlorobenzene	106-46-7	380 U	360 U	350 U	340 U
2,4,5-Trichlorophenol	95-95-4	1900 U	1800 U	1700 U	1600 U
2,4,6-Trichlorophenol	88-06-2	380 U	360 U	350 U	340 U
2,4-Dichlorophenol	120-83-2	380 U	360 U	350 U	340 U
2,4-Dimethylphenol	105-67-9	380 U	360 U	350 U	340 U
2,4-Dinitrophenol	51-28-5	1900 UJ	1800 UJ	1700 U	1600 U
2,4-Dinitrotoluene	121-14-2	380 U	360 U	350 U	340 U
2,6-Dinitrotoluene	606-20-2	380 U	360 U	350 U	340 U
2-Chloronaphthalene	91-58-7	380 U	360 U	350 U	340 U
2-Chlorophenol	95-57-8	380 U	360 U	350 U	340 U
2-Methylnaphthalene	91-57-6	380 U	360 U	350 U	340 U
2-Methylphenol	95-48-7	380 U	360 U	350 U	340 U
2-Nitroaniline	88-74-4	1900 U	1800 U	1700 U	1600 U
2-Nitrophenol	88-75-5	380 U	360 U	350 U	340 U
3,3'-Dichlorobenzidine	91-94-1	770 U	730 U	710 UJ	1600 UJ
3-Nitroaniline	99-09-2	1900 UJ	1800 UJ	1700 U	1600 U
4,6-Dinitro-2-methylphenol	534-52-1	1900 U	1800 U	1700 U	1600 U
4-Bromophenyl phenyl ether	101-55-3	380 U	360 U	350 U	340 U
4-Chloroaniline	106-47-8	380 U	360 U	350 UJ	340 UJ
4-Chlorophenylphenyl ether	7005-72-5	380 U	360 U	350 U	340 U
4-Chloro-3-methylphenol	59-50-7	380 U	360 U	350 U	340 U
4-Methylphenol	106-44-5	380 U	360 U	350 U	340 U
4-Nitroaniline	100-01-6	1900 UJ	1800 UJ	1700 U	1600 U
4-Nitrophenol	100-02-7	1900 U	1800 U	1700 U	1600 U
Acenaphthene	83-32-9	380 U	360 U	350 U	340 U
Acenaphthylene	208-96-8	380 U	360 U	350 U	340 U
Anthracene	120-12-7	380 U	360 U	350 U	340 U
Benzoic acid	65-85-0	1900 U	1800 U	1700 U	1600 U
Benzo(a)anthracene	56-55-3	380 U	360 U	350 U	340 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-01-0-1 1/2-01	SB3-01-50-51 1/2-01	SB3-01-70-71 1/2-01	SB3-03-0-1 1/2-01	SB3-03-10-11 1/2-01
Sample Date:		24-Mar-91	24-Mar-91	25-Mar-91	25-Mar-91	25-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-03A	C103220-04A	C103220-11A	C103220-07A	C103220-08A
Prep Date:		30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
Benzo(a)pyrene	50-32-8	350 U	340 U	350 U	350 U	350 U
Benzo(b)fluoranthene	205-99-2	350 U	340 U	350 U	350 U	350 U
Benzo(g,h,i)perylene	191-24-2	350 U	340 U	350 U	350 U	350 U
Benzo(k)fluoranthene	207-08-9	350 U	340 U	350 U	350 U	350 U
Benzyl alcohol	100-51-6	350 U	340 U	350 U	350 U	350 U
bis(2-Chloroethoxy)methane	111-91-1	350 U	340 U	350 U	350 U	350 U
bis(2-Chloroethyl)ether	111-44-4	350 U	340 U	350 U	350 U	350 U
bis(2-Chloroisopropyl) ether	108-60-1	350 U	340 U	350 U	350 U	350 U
bis(2-Ethylhexyl) phthalate	117-81-7	350 U	340 U	350 U	350 U	350 U
Butyl benzyl phthalate	85-68-7	350 U	340 U	350 U	350 U	350 U
Chrysene	218-01-9	350 U	340 U	350 U	350 U	56 J
Dibenzofuran	132-64-9	350 U	340 U	350 U	350 U	350 U
Dibenzo(a,h)anthracene	53-70-3	350 U	340 U	350 U	350 U	350 U
Diethyl phthalate	84-66-2	350 U	340 U	350 U	350 U	350 U
Dimethyl phthalate	131-11-3	350 U	340 U	350 U	350 U	350 U
Di-n-butyl phthalate	84-74-2	350 U	340 U	350 U	350 U	350 U
Di-n-octyl phthalate	117-84-0	350 U	340 U	350 U	350 U	350 U
Fluoranthene	206-44-0	350 U	340 U	350 U	350 U	97 J
Fluorene	86-73-7	350 U	340 U	350 U	350 U	350 U
Hexachlorobenzene	118-74-1	350 U	340 U	350 U	350 U	350 U
Hexachlorobutadiene	87-68-3	350 U	340 U	350 U	350 U	350 U
Hexachlorocyclopentadiene	77-47-4	350 U	340 U	350 U	350 U	350 U
Hexachloroethane	67-72-1	350 U	340 U	350 U	350 U	350 U
Indeno(1,2,3-cd)pyrene	193-39-5	350 U	340 U	350 U	350 U	350 U
Isophorone	78-59-1	350 U	340 U	350 U	350 U	350 U
Naphthalene	91-20-3	350 U	340 U	350 U	350 U	350 U
Nitrobenzene	98-95-3	350 U	340 U	350 U	350 U	350 U
N-Nitrosodiphenylamine	86-30-6	350 U	340 U	350 U	350 U	350 U
N-Nitroso-di-n-propylamine	621-64-7	350 U	340 U	350 U	350 U	350 U
Pentachlorophenol	87-86-5	1700 U	1600 U	1700 U	1700 U	1700 U
Phenanthrene	85-01-8	350 U	340 U	350 U	350 U	71 J
Phenol	108-95-2	350 U	340 U	350 U	350 U	350 U
Pyrene	129-00-0	350 U	340 U	350 U	350 U	110 J

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB3-03-20-21 1/2-01	SB3-04-0-1 1/2-01	SB3-04-5-6 1/2-01	SB3-04-15-16 1/2-01	MB3-01-0-1 1/2-01
Sample Date:		25-Mar-91	24-Mar-91	24-Mar-91	24-Mar-91	22-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C103220-09A	C103220-05A	C103220-06A	C103220-13A	C103212-01A
Prep Date:		30-Mar-91	30-Mar-91	30-Mar-91	30-Mar-91	26-Mar-91
Analysis Date:		03-Apr-91	03-Apr-91	03-Apr-91	03-Apr-91	02-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER					
Benzo(a)pyrene	50-32-8	340 U	340 U	350 U	340 U	390 U
Benzo(b)fluoranthene	205-99-2	340 U	340 U	350 U	340 U	390 U
Benzo(g,h,i)perylene	191-24-2	340 U	340 U	350 U	340 U	390 U
Benzo(k)fluoranthene	207-08-9	340 U	340 U	350 U	340 U	390 U
Benzyl alcohol	100-51-6	340 U	340 U	350 U	340 U	390 U
bis(2-Chloroethoxy)methane	111-91-1	340 U	340 U	350 U	340 U	390 U
bis(2-Chloroethyl)ether	111-44-4	340 U	340 U	350 U	340 U	390 U
bis(2-Chloroisopropyl) ether	108-60-1	340 U	340 U	350 U	340 U	390 U
bis(2-Ethylhexyl) phthalate	117-81-7	340 U	340 U	350 U	340 U	390 U
Butyl benzyl phthalate	85-68-7	340 U	340 U	350 U	340 U	390 U
Chrysene	218-01-9	340 U	340 U	350 U	340 U	390 U
Dibenzofuran	132-64-9	340 U	340 U	350 U	340 U	390 U
Dibenzo(a,h)anthracene	53-70-3	340 U	340 U	350 U	340 U	390 U
Diethyl phthalate	84-66-2	3800	340 U	350 U	340 U	390 U
Dimethyl phthalate	131-11-3	340 U	340 U	350 U	340 U	390 U
Di-n-butyl phthalate	84-74-2	340 U	340 U	350 U	340 U	390 U
Di-n-octyl phthalate	117-84-0	340 U	340 U	350 U	340 U	390 U
Fluoranthene	206-44-0	340 U	340 U	350 U	340 U	390 U
Fluorene	86-73-7	340 U	340 U	350 U	340 U	390 U
Hexachlorobenzene	118-74-1	340 U	340 U	350 U	340 U	390 U
Hexachlorobutadiene	87-68-3	340 U	340 U	350 U	340 U	390 U
Hexachlorocyclopentadiene	77-47-4	340 U	340 U	350 U	340 U	390 U
Hexachloroethane	67-72-1	340 U	340 U	350 U	340 U	390 U
Indeno(1,2,3-cd)pyrene	193-39-5	340 U	340 U	350 U	340 U	390 U
Isophorone	78-59-1	340 U	340 U	350 U	340 U	390 U
Naphthalene	91-20-3	340 U	340 U	350 U	340 U	390 U
Nitrobenzene	98-95-3	340 U	340 U	350 U	340 U	390 U
N-Nitrosodiphenylamine	86-30-6	340 U	340 U	350 U	340 U	390 U
N-Nitroso-di-n-propylamine	621-64-7	340 U	340 U	350 U	340 U	390 U
Pentachlorophenol	87-86-5	1600 U	1700 U	1700 U	1700 U	1900 U
Phenanthrene	85-01-8	340 U	340 U	350 U	340 U	390 U
Phenol	108-95-2	340 U	340 U	350 U	340 U	390 U
Pyrene	129-00-0	340 U	340 U	350 U	340 U	390 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MB3-01-50-51 1/2-01	MB3-01-60-61 1/2-01	MB3-02-0-1 1/2-01	MB3-02-5-6 1/2-01
Sample Date:		22-Mar-91	22-Mar-91	23-Mar-91	23-Mar-91
Matrix:		SOIL	SOIL	SOIL	SOIL
Lab Number:		C103212-02A	C103212-03A	C103220-01A	C103220-02A
Prep Date:		26-Mar-91	26-Mar-91	30-Mar-91	30-Mar-91
Analysis Date:		01-Apr-91	01-Apr-91		02-Apr-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER				
Benzo(a)pyrene	50-32-8	380 U	360 U	350 U	340 U
Benzo(b)fluoranthene	205-99-2	380 U	360 U	350 U	340 U
Benzo(g,h,i)perylene	191-24-2	380 U	360 U	350 U	340 U
Benzo(k)fluoranthene	207-08-9	380 U	360 U	350 U	340 U
Benzyl alcohol	100-51-6	380 U	360 U	350 U	340 U
bis(2-Chloroethoxy)methane	111-91-1	380 U	360 U	350 U	340 U
bis(2-Chloroethyl)ether	111-44-4	380 U	360 U	350 U	340 U
bis(2-Chloroisopropyl) ether	108-60-1	380 U	360 U	350 U	340 U
bis(2-Ethylhexyl) phthalate	117-81-7	380 U	360 U	350 U	340 U
Butyl benzyl phthalate	85-68-7	380 U	360 U	350 U	340 U
Chrysene	218-01-9	380 U	360 U	350 U	340 U
Dibenzofuran	132-64-9	380 U	360 U	350 U	340 U
Dibenzo(a,h)anthracene	53-70-3	380 U	360 U	350 U	340 U
Diethyl phthalate	84-66-2	380 U	360 U	350 U	340 U
Dimethyl phthalate	131-11-3	380 U	360 U	350 U	340 U
Di-n-butyl phthalate	84-74-2	380 U	360 U	350 U	340 U
Di-n-octyl phthalate	117-84-0	380 U	360 U	350 U	340 U
Fluoranthene	206-44-0	380 U	360 U	350 U	340 U
Fluorene	86-73-7	380 U	360 U	350 U	340 U
Hexachlorobenzene	118-74-1	380 U	360 U	350 U	340 U
Hexachlorobutadiene	87-68-3	380 U	360 U	350 U	340 U
Hexachlorocyclopentadiene	77-47-4	380 U	360 U	350 U	340 U
Hexachloroethane	67-72-1	380 U	360 U	350 U	340 U
Indeno(1,2,3-cd)pyrene	193-39-5	380 U	360 U	350 U	340 U
Isophorone	78-59-1	380 U	360 U	350 U	340 U
Naphthalene	91-20-3	380 U	360 U	350 U	340 U
Nitrobenzene	98-95-3	380 U	360 U	350 U	340 U
N-Nitrosodiphenylamine	86-30-6	380 U	360 U	350 U	340 U
N-Nitroso-di-n-propylamine	621-64-7	380 U	360 U	350 U	340 U
Pentachlorophenol	87-86-5	1900 U	1800 U	1700 U	1600 U
Phenanthrene	85-01-8	380 U	360 U	350 U	340 U
Phenol	108-95-2	380 U	360 U	350 U	340 U
Pyrene	129-00-0	380 U	360 U	350 U	340 U

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APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SS4-01	SS4-02	SS4-03	SS4-04	SS4-05	SS4-06
Sample Date:		13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102192-01B	C102192-02B	C102192-03B	C102192-04B	C102192-05B	C102192-06B
Prep Date:		24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91
Analysis Date:		26-Feb-91	26-Feb-91	16-Mar-91	26-Feb-91	20-Mar-91	19-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
1,2,4-Trichlorobenzene	120-82-1	350 U	350 U	360 U	350 U	350 U	340 U
1,2-Dichlorobenzene	95-50-1	350 U	350 U	360 U	350 U	350 U	340 U
1,3-Dichlorobenzene	541-73-1	350 U	350 U	360 U	350 U	350 U	340 U
1,4-Dichlorobenzene	106-46-7	350 U	350 U	360 U	350 U	350 U	340 U
2,4,5-Trichlorophenol	95-95-4	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4,6-Trichlorophenol	88-06-2	350 U	350 U	360 U	350 U	350 U	340 U
2,4-Dichlorophenol	120-83-2	350 U	350 U	360 U	350 U	350 U	340 U
2,4-Dimethylphenol	105-67-9	350 U	350 U	360 U	350 U	350 U	340 U
2,4-Dinitrophenol	51-28-5	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	121-14-2	350 U	350 U	360 U	350 U	350 U	340 U
2,6-Dinitrotoluene	606-20-2	350 U	350 U	360 U	350 U	350 U	340 U
2-Chloronaphthalene	91-58-7	350 U	350 U	360 U	350 U	350 U	340 U
2-Chlorophenol	95-57-8	350 U	350 U	360 U	350 U	350 U	340 U
2-Methylnaphthalene	91-57-6	350 U	350 U	360 U	350 U	350 U	340 U
2-Methylphenol	95-48-7	350 U	350 U	360 U	350 U	350 U	340 U
2-Nitroaniline	88-74-4	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	88-75-5	350 U	350 U	360 U	350 U	350 U	340 U
3,3'-Dichlorobenzidine	91-94-1	690 U	690 U	710 U	710 U	690 U	690 U
3-Nitroaniline	99-09-2	1700 R	1700 R	1700 R	1700 R	1700 R	1700 R
4,6-Dinitro-2-methylphenol	534-52-1	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl phenyl ether	101-55-3	350 U	350 U	360 U	350 U	350 U	340 U
4-Chloroaniline	106-47-8	350 U	350 U	360 R	350 U	350 U	340 U
4-Chlorophenylphenyl ether	7005-72-5	350 U	350 U	360 U	350 U	350 U	340 U
4-Chloro-3-methylphenol	59-50-7	350 U	350 U	360 U	350 U	350 U	340 U
4-Methylphenol	106-44-5	350 U	350 U	360 U	350 U	350 U	340 U
4-Nitroaniline	100-01-6	1700 U	1700 U	1700 U	1700 U	1700 R	1700 U
4-Nitrophenol	100-02-7	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Acenaphthene	83-32-9	350 U	350 U	360 U	350 U	350 U	340 U
Acenaphthylene	208-96-8	350 U	350 U	360 U	350 U	350 U	340 U
Anthracene	120-12-7	350 U	350 U	360 U	350 U	350 U	340 U
Benzoic acid	65-85-0	1700 U	1700 U	42 J	1700 U	57 J	1700 U
Benzo(a)anthracene	56-55-3	350 U	350 U	360 U	350 U	350 U	340 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SS4-01	SS4-02	SS4-03	SS4-04	SS4-05	SS4-06
Sample Date:		13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102192-01B	C102192-02B	C102192-03B	C102192-04B	C102192-05B	C102192-06B
Prep Date:		24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91	24-Feb-91
Analysis Date:		26-Feb-91	26-Feb-91	16-Mar-91	26-Feb-91	20-Mar-91	19-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER						
Benzo(a)pyrene	50-32-8	350 U	350 U	360 U	350 U	350 U	340 U
Benzo(b)fluoranthene	205-99-2	350 U	350 U	360 U	350 U	350 U	340 U
Benzo(g,h,i)perylene	191-24-2	350 U	350 U	360 U	350 U	350 U	340 U
Benzo(k)fluoranthene	207-08-9	350 U	350 U	360 U	350 U	350 U	340 U
Benzyl alcohol	100-51-6	350 U	350 U	360 U	350 U	350 U	340 U
bis(2-Chloroethoxy)methane	111-91-1	350 U	350 U	360 U	350 U	350 U	340 U
bis(2-Chloroethyl)ether	111-44-4	350 U	350 U	360 U	350 U	350 U	340 U
bis(2-Chloroisopropyl) ether	108-60-1	350 U	350 U	360 U	350 U	350 U	340 U
bis(2-Ethylhexyl) phthalate	117-81-7	350 U	350 U	140 J	170 J	530	340 U
Butyl benzyl phthalate	85-68-7	350 U	350 U	360 U	350 U	270 J	340 U
Chrysene	218-01-9	350 U	350 U	360 U	350 U	350 U	340 U
Dibenzofuran	132-64-9	350 U	350 U	360 U	350 U	350 U	340 U
Dibenzo(a,h)anthracene	53-70-3	350 U	350 U	360 U	350 U	350 U	340 U
Diethyl phthalate	84-66-2	350 U	350 U	360 U	350 U	350 U	340 U
Dimethyl phthalate	131-11-3	350 U	350 U	360 U	350 U	350 U	340 U
Di-n-butyl phthalate	84-74-2	350 U	350 U	360 U	350 U	72 J	340 U
Di-n-octyl phthalate	117-84-0	350 U	350 U	360 U	350 U	40 J	340 U
Fluoranthene	206-44-0	350 U	350 U	360 U	350 U	350 U	340 U
Fluorene	86-73-7	350 U	350 U	360 U	350 U	350 U	340 U
Hexachlorobenzene	118-74-1	350 U	350 U	360 U	350 U	350 U	340 U
Hexachlorobutadiene	87-68-3	350 U	350 U	360 U	350 U	350 U	340 U
Hexachlorocyclopentadiene	77-47-4	350 U	350 U	360 U	350 U	350 U	340 U
Hexachloroethane	67-72-1	350 U	350 U	360 U	350 U	350 U	340 U
Indeno(1,2,3-cd)pyrene	193-39-5	350 U	350 U	360 U	350 U	350 U	340 U
Isophorone	78-59-1	350 U	350 U	360 U	350 U	350 U	340 U
Naphthalene	91-20-3	350 U	350 U	360 U	350 U	350 U	340 U
Nitrobenzene	98-95-3	350 U	350 U	360 U	350 U	350 U	340 U
N-Nitrosodiphenylamine	86-30-6	350 U	350 U	360 U	350 U	350 U	340 U
N-Nitroso-di-n-propylamine	621-64-7	350 U	350 U	360 U	350 U	350 U	340 U
Pentachlorophenol	87-86-5	1700 U	1700 U	1700 U	1700 U	1700 U	1700 U
Phenanthrene	85-01-8	350 U	350 U	360 U	350 U	350 U	340 U
Phenol	108-95-2	350 U	350 U	360 U	350 U	350 U	340 U
Pyrene	129-00-0	350 U	350 U	360 U	350 U	350 U	340 U

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MB5-01-0-2-02	MB5-01-5-7-02	MB5-01-70-72-01
Sample Date:		07-Feb-91	07-Feb-91	07-Feb-91
Matrix:		SOIL	SOIL	SOIL
Lab Number:		C102106-01B	C102106-02B	C102106-03A
Prep Date:		11-Mar-91	11-Mar-91	22-Mar-91
Analysis Date:		14-Mar-91	14-Mar-91	22-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER			
1,2,4-Trichlorobenzene	120-82-1	380 R	340 R	340 R
1,2-Dichlorobenzene	95-50-1	380 R	340 R	340 R
1,3-Dichlorobenzene	541-73-1	380 R	340 R	340 R
1,4-Dichlorobenzene	106-46-7	380 R	340 R	340 R
2,4,5-Trichlorophenol	95-95-4	1800 R	1600 R	1600 R
2,4,6-Trichlorophenol	88-06-2	380 R	340 R	340 R
2,4-Dichlorophenol	120-83-2	380 R	340 R	340 R
2,4-Dimethylphenol	105-67-9	380 R	340 R	340 R
2,4-Dinitrophenol	51-28-5	1800 R	1600 R	1600 R
2,4-Dinitrotoluene	121-14-2	380 R	340 R	340 R
2,6-Dinitrotoluene	606-20-2	380 R	340 R	340 R
2-Chloronaphthalene	91-58-7	380 R	340 R	340 R
2-Chlorophenol	95-57-8	380 R	340 R	340 R
2-Methylnaphthalene	91-57-6	380 R	340 R	340 R
2-Methylphenol	95-48-7	380 R	340 R	340 R
2-Nitroaniline	88-74-4	1800 R	1600 R	1600 R
2-Nitrophenol	88-75-5	380 R	340 R	340 R
3,3'-Dichlorobenzidine	91-94-1	760 R	680 R	680 R
3-Nitroaniline	99-09-2	1800 R	1600 R	1600 R
4,6-Dinitro-2-methylphenol	534-52-1	1800 R	1600 R	1600 R
4-Bromophenyl phenyl ether	101-55-3	380 R	340 R	340 R
4-Chloroaniline	106-47-8	380 R	340 R	340 R
4-Chlorophenylphenyl ether	7005-72-5	380 R	340 R	340 R
4-Chloro-3-methylphenol	59-50-7	380 R	340 R	340 R
4-Methylphenol	106-44-5	380 R	340 R	340 R
4-Nitroaniline	100-01-6	1800 R	1600 R	1600 R
4-Nitrophenol	100-02-7	1800 R	1600 R	1600 R
Acenaphthene	83-32-9	380 R	340 R	340 R
Acenaphthylene	208-96-8	380 R	340 R	340 R
Anthracene	120-12-7	380 R	340 R	340 R
Benzoic acid	65-85-0	1800 R	1600 R	1600 R
Benzo(a)anthracene	56-55-3	380 R	340 R	340 R

APPENDIX L
RESULTS OF SVOAs IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MB5-01-0-2-02	MB5-01-5-7-02	MB5-01-70-72-01
Sample Date:		07-Feb-91	07-Feb-91	07-Feb-91
Matrix:		SOIL	SOIL	SOIL
Lab Number:		C102106-01B	C102106-02B	C102106-03A
Prep Date:		11-Mar-91	11-Mar-91	22-Mar-91
Analysis Date:		14-Mar-91	14-Mar-91	22-Mar-91
Units:		ug/Kg	ug/Kg	ug/Kg
COMPOUND NAME	CAS NUMBER			
Benzo(a)pyrene	50-32-8	380 R	340 R	340 R
Benzo(b)fluoranthene	205-99-2	380 R	340 R	340 R
Benzo(g,h,i)perylene	191-24-2	380 R	340 R	340 R
Benzo(k)fluoranthene	207-08-9	380 R	340 R	340 R
Benzyl alcohol	100-51-6	380 R	340 R	340 R
bis(2-Chloroethoxy)methane	111-91-1	380 R	340 R	340 R
bis(2-Chloroethyl)ether	111-44-4	380 R	340 R	340 R
bis(2-Chloroisopropyl) ether	108-60-1	380 R	340 R	340 R
bis(2-Ethylhexyl) phthalate	117-81-7	380 R	340 R	340 R
Butyl benzyl phthalate	85-68-7	380 R	340 R	340 R
Chrysene	218-01-9	380 R	340 R	340 R
Dibenzofuran	132-64-9	380 R	340 R	340 R
Dibenzo(a,h)anthracene	53-70-3	380 R	340 R	340 R
Diethyl phthalate	84-66-2	380 R	340 R	340 R
Dimethyl phthalate	131-11-3	380 R	340 R	340 R
Di-n-butyl phthalate	84-74-2	380 R	340 R	340 R
Di-n-octyl phthalate	117-84-0	380 R	340 R	340 R
Fluoranthene	206-44-0	380 R	340 R	340 R
Fluorene	86-73-7	380 R	340 R	340 R
Hexachlorobenzene	118-74-1	380 R	340 R	340 R
Hexachlorobutadiene	87-68-3	380 R	340 R	340 R
Hexachlorocyclopentadiene	77-47-4	380 R	340 R	340 R
Hexachloroethane	67-72-1	380 R	340 R	340 R
Indeno(1,2,3-cd)pyrene	193-39-5	380 R	340 R	340 R
Isophorone	78-59-1	380 R	340 R	340 R
Naphthalene	91-20-3	380 R	340 R	340 R
Nitrobenzene	98-95-3	380 R	340 R	340 R
N-Nitrosodiphenylamine	86-30-6	380 R	340 R	340 R
N-Nitroso-di-n-propylamine	621-64-7	380 R	340 R	340 R
Pentachlorophenol	87-86-5	1800 R	1600 R	1600 R
Phenanthrene	85-01-8	380 R	340 R	340 R
Phenol	108-95-2	380 R	340 R	340 R
Pyrene	129-00-0	380 R	340 R	340 R

U = Not detected
J = Estimated value
R = Result rejected in validation

SOILSVA.WK3M

APPENDIX L

RESULTS OF INORGANICS IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-01-0-2-01	MBS-01-60-62-01	MBS-02-0-2-01	MBS-02-5-7-01	MS-02-10-12-0	MBS-03-0-2-01
Sample Date:		29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	30-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101318-01A	C101318-04A	C101318-04A	C101318-04A	C101318-04A	C101326-01A
Prep Date:		20-Feb-91	20-Feb-91	20-Feb-91	20-Feb-91	20-Feb-91	20-Feb-91
Analysis Date:		13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7429-90-5	10400	5230	4230	3830	9340	9250
Antimony	7440-36-0	3.9 UJ	4 UJ	3.8 UJ	3.7 UJ	4.5 UJ	3.8 UJ
Arsenic	7440-38-2	8.1 J	8.2 J	4 J	4.1 J	8 J	8 J
Barium	7440-39-3	115	93.2	61.3	53.9	145	185 J
Beryllium	7440-41-7	0.49 J	0.36 J	0.2 U	0.2 J	0.55 J	0.4 J
Cadmium	7440-43-9	0.83 U	0.85 U	0.79 U	0.78 U	0.95 U	0.81 U
Calcium	7440-70-2	26400	2170	8570	6710	31800	18500 J
Chromium	7440-47-3	24.1 J	16.5 J	12.9	11.2	51.1	22.1
Cobalt	7440-48-4	10.8	4.6 J	5.9 J	5.5 J	14.3	8.7 J
Copper	7440-50-8	22 J	35 J	17.5 J	80.2 J	53.8 J	41.6 J
Iron	7439-89-6	18900	8490	10700	9550	30300	16900
Lead	7439-92-1	6.8 J	3.4 J	6.4 J	6.2 J	6.3 J	15.3 J
Magnesium	7439-95-4	8620	2290	3620	3230	10200	6460 J
Manganese	7439-96-5	313 J	468 J	230 J	218 J	362 J	277 J
Mercury	7439-97-6	0.16 R	0.16 U	0.15 R	0.15 R	0.19 R	0.16 R
Nickel	7440-02-0	22.2	15.3	17.4	18.3	31.1	17.6
Potassium	7440-09-7	1700 J	561 J	626 J	581 J	1360 J	1520 J
Selenium	7782-49-2	0.42 U	0.42 U	0.4 U	0.39 U	0.48 U	0.41 U
Silver	7440-22-4	1.8 J	0.63 U	0.6 U	0.61 J	2.6 J	1.6 J
Sodium	7440-23-5	706 J	127 J	295 J	305 J	530 J	557 J
Thallium	7440-28-0	0.21 U	0.21 U	0.2 J	0.2 U	0.24 U	0.2 U
Vanadium	7440-62-2	46 J	19.3 J	32.9 J	32.3 J	104 J	43.7 J
Zinc	7440-66-6	39.9 J	47.4 J	33.8 J	43.4 J	76.4 J	45 J
Nitrate/Nitrite		54	0.8	3.7	2	44	60
Organic Lead		1.1 U	1.1 U	1 U	1 U	1.2 U	1.1 U

U = Compound not detected
J = Estimated value
R = Result rejected in

MOPSOIL.MET.WK1

APPENDIX L

RESULTS OF INORGANICS IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MBS-03-5-7-01	SB2-01-0-2-01	SB2-01-0-2-02	SB2-01-50-52-01	SB2-01-55-57-01	SB2-02-0-2-01
Sample Date:		30-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	29-Jan-91	22-Jan-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101326-03A	C101317-01A	C101317-03A	C101317-06A	C101317-02A	C101215-04A
Prep Date:		20-Feb-91	23-Feb-91	23-Feb-91	23-Feb-91	23-Feb-91	07-Feb-91
Analysis Date:		13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7429-90-5	8190	12000	11400	6200	5550	12400
Antimony	7440-36-0	3.9 UJ	3.7 UJ	4 UJ	4 UJ	3.7 UJ	4.3 UJ
Arsenic	7440-38-2	4.8 J	7 J	5.7 J	3.9 J	3 J	7.9 J
Barium	7440-39-3	112 J	130	118	35.9 J	53.1	140 J
Beryllium	7440-41-7	0.33 J	0.6 J	0.62 J	0.51 J	0.4 U	0.45 U
Cadmium	7440-43-9	0.82 U	0.81 U	0.84 U	0.84 U	0.8 U	0.9 U
Calcium	7440-70-2	32800 J	27800	25900	2790	2310	33100 J
Chromium	7440-47-3	26.2	20.5 J	22.3 J	11.9 J	37.2 J	23.8
Cobalt	7440-48-4	8 J	10.6	10.4 J	6.8 J	4.2 J	12.5
Copper	7440-50-8	97.8 J	88.9 J	42.2 J	35.2 J	51.2 J	25.8 J
Iron	7439-89-6	16200	17200	17700	9320	6860	20400
Lead	7439-92-1	18.4 J	33.5 J	194	2.4 J	2.1 J	5.9 J
Magnesium	7439-95-4	6090 J	9360	8810	2710	2570	11200 J
Manganese	7439-96-5	250 J	361	355	274	272	380 J
Mercury	7439-97-6	0.16 R	0.16 R	0.16 R	0.16 R	0.16 R	0.17 R
Nickel	7440-02-0	14.6	25.2	23.8	10.8	11.1	27.3
Potassium	7440-09-7	1600 J	3420 J	3060 J	693 J	569 J	2970 J
Selenium	7782-49-2	0.42 U	0.41 U	0.4 U	0.44 U	0.41 U	0.44 U
Silver	7440-22-4	1.7 J	1.4 J	1.7 J	1.2 J	0.6 U	1.7 J
Sodium	7440-23-5	726 J	713 J	660 J	189 J	174 J	1180 J
Thallium	7440-28-0	0.21 U	0.41 U	0.4 U	0.44 U	0.41 U	0.44 U
Vanadium	7440-62-2	47.9 J	36.4 J	42.2 J	19.8 J	14.6 J	43.2 J
Zinc	7440-66-6	79.6 J	79 J	78.4 J	75 J	64.7 J	49.7 J
Nitrate/Nitrite							
Organic Lead							

U = Compound not detected
J = Estimated value
R = Result rejected in data validation

APPENDIX L

RESULTS OF INORGANICS IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SB2-02-10-12-01	SB2-02-70-72-01	SB2-04-0-2-01	SB2-04-55-57-01	SB2-04-70-72-01	MB2-02-0-2-01
Sample Date:		22-Jan-91	22-Jan-91	22-Jan-91	23-Jan-91	23-Jan-91	06-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C101215-06A	C101215-10A	C101215-11A	C101230-01A	C101230-02A	C102069-01A
Prep Date:		07-Feb-91	07-Feb-91	07-Feb-91	23-Feb-91	23-Feb-91	08-Mar-91
Analysis Date:		13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	13-Mar-91	18-Mar-91
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7429-90-5	5400	7310	13000	13600	4570	8920
Antimony	7440-36-0	3.9 UJ	4.2 UJ	4 UJ	4 UJ	3.7 UJ	4.2 UJ
Arsenic	7440-38-2	4.8 J	8.3 J	10 J	6.8 J	4 J	6.4 J
Barium	7440-39-3	68.5 J	102 J	143 J	152 J	36.1 J	115
Beryllium	7440-41-7	0.41 U	0.44 U	0.44 U	0.72 J	0.45 J	0.39 J
Cadmium	7440-43-9	0.82 U	0.89 U	0.87 U	0.86 U	0.81 U	5.5
Calcium	7440-70-2	14200 J	3780	31700 J	5850 J	2430	22500 J
Chromium	7440-47-3	17.3	22.6	25.6	35.9	8 J	19.6
Cobalt	7440-48-4	8.1 J	11.5	12.3	11.4	4.5 J	9.6 J
Copper	7440-50-8	25.5 J	67.8 J	35.4	71.9 J	24.6 J	39.2
Iron	7439-89-6	14700	15200	20700	19100	7570	15900
Lead	7439-92-1	3.2 J	3.2 J	6.3 J	3.2 J	2.6 J	154
Magnesium	7439-95-4	4980 J	3850 J	10700 J	5450 J	2400	8230 J
Manganese	7439-96-5	179 J	414 J	387 J	720	120	334
Mercury	7439-97-6	0.16 R	0.17 R	0.17 R	0.17 R	0.16 R	0.17 R
Nickel	7440-02-0	14.9	15.6	28.2	35.9	7.5 J	23.8
Potassium	7440-09-7	914 J	893 J	3580 J	1130 J	604 J	2190 J
Selenium	7782-49-2	0.4 U	0.43 U	0.44 U	0.43 U	0.4 U	0.45 U
Silver	7440-22-4	1.4 J	0.67 U	3.7 J	1.3 J	0.93 J	1.3 J
Sodium	7440-23-5	577 J	229 J	1110 J	338 J	185 J	299 J
Thallium	7440-28-0	0.4 U	0.43 U	0.44 U	0.43 U	0.4 U	0.45 U
Vanadium	7440-62-2	43.2 J	41.2 J	44.7 J	34.1 J	15.5 J	33.9
Zinc	7440-66-6	27.8 J	47.5 J	51.2 J	130 J	43.9 J	127 J
Nitrate/Nitrite							
Organic Lead							

U = Compound not detected
J = Estimated value
R = Result rejected in data validation

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APPENDIX L

RESULTS OF INORGANICS IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		MB2-02-30-32-01	MB2-02-70-72-01	SS4-01	SS4-02	SS4-03	SS4-04
Sample Date:		06-Feb-91	06-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91	13-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102069-03A	C102069-04A	C102192-01A	C102192-02A	C102192-03A	C102192-04A
Prep Date:		08-Mar-91	08-Mar-91	08-Mar-91	08-Mar-91	08-Mar-91	08-Mar-91
Analysis Date:		18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7429-90-5	2880	4040	6310	6240	6140	5820
Antimony	7440-36-0	4.5 J	4 UJ	4 UJ	3.9 UJ	4 UJ	4 UJ
Arsenic	7440-38-2	3.1 J	7.2 J	2.7 J	3.2 J	3.5 J	3.2
Barium	7440-39-3	27.1 J	51.2 J	74.5	74.2	73.7	62.2
Beryllium	7440-41-7	0.21 J	0.55 J	0.26 J	0.35 J	0.33 J	0.34 J
Cadmium	7440-43-9	0.81 U	0.87 U	0.84 U	0.83 U	0.84 U	0.84 U
Calcium	7440-70-2	1670 J	3310 J	69500 J	21400 J	21900 J	19000 J
Chromium	7440-47-3	5	9.9	8.5	9.1	13.3	10
Cobalt	7440-48-4	3.5 J	6.5 J	6.5 J	6.3 J	6.4 J	5.5 J
Copper	7440-50-8	19 J	24.1 J	11 J	39.6 J	25.3 J	16.1 J
Iron	7439-89-6	6220 J	8710 J	8740	9520	9550	9520
Lead	7439-92-1	3.3 J	4.3 J	10.2 J	8.4 J	66.9 J	12.5 J
Magnesium	7439-95-4	2050 J	2880 J	4830 J	4310 J	4560 J	3780 J
Manganese	7439-96-5	94.7	204	189	205	189	180
Mercury	7439-97-6	0.16 R	0.16 R	0.16 R	0.16 R	0.16 R	0.16 R
Nickel	7440-02-0	6.4 J	11.4	11.5	10.5 J	11.6	9.9 J
Potassium	7440-09-7	543 J	574 J	1670 J	1570 J	1390 J	1400 J
Selenium	7782-49-2	0.4 U	0.41 U	0.41 U	0.42 U	0.43 U	0.43 U
Silver	7440-22-4	0.61 U	0.75 J	0.82 J	0.62 U	0.82 J	0.63 U
Sodium	7440-23-5	225 J	246 J	144 J	163 J	191 J	146 J
Thallium	7440-28-0	0.4 U	0.41 U	0.41 U	0.42 U	0.43 U	0.43 U
Vanadium	7440-62-2	12.6	22.1	16.7	18.1	19.8	19.2
Zinc	7440-66-6	30.6 J	34.2 J	41.4 J	29.8 J	44 J	27 J
Nitrate/Nitrite							
Organic Lead							

U = Compound not detected
J = Estimated value
R = Result rejected in data validation

APPENDIX L

RESULTS OF INORGANICS IN SOIL
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:		SS4-05	SS4-06	MB5-01-0-2-01	MB5-01-5-7-01	MB5-01-70-72-01
Sample Date:		13-Feb-91	13-Feb-91	07-Feb-91	07-Feb-91	07-Feb-91
Matrix:		SOIL	SOIL	SOIL	SOIL	SOIL
Lab Number:		C102192-05A	C102192-06A	C102106-01A	C102106-02A	C102106-03A
Prep Date:		08-Mar-91	08-Mar-91	08-Mar-91	08-Mar-91	08-Mar-91
Analysis Date:		18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91	18-Mar-91
Units:		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Aluminum	7429-90-5	6470	4390	10500	3670	3710
Antimony	7440-36-0	3.9 UJ	3.7 UJ	4 UJ	3.7 UJ	3.7 UJ
Arsenic	7440-38-2	3.1 J	2.9 J	7.8 J	3.2 J	6.5 J
Barium	7440-39-3	67.4	42.4 J	115	49	152
Beryllium	7440-41-7	0.21 U	0.4 J	0.41 J	0.2 J	0.53 J
Cadmium	7440-43-9	0.83 U	0.81 U	0.87 U	0.79 U	0.78 U
Calcium	7440-70-2	33300 J	40600 J	23100 J	10500 J	3620 J
Chromium	7440-47-3	10.5	5.4	18.8	8.6	11
Cobalt	7440-48-4	5.5 J	3.5 J	10.6 J	5.5 J	8.1 J
Copper	7440-50-8	16 J	8.9 J	24.7 J	9.3 J	36.7 J
Iron	7439-89-6	10200	6900 J	17200	9330	8480
Lead	7439-92-1	9.4 J	7.3 J	10.8 J	3 J	2.6 J
Magnesium	7439-95-4	4310 J	4390 J	8950 J	3690 J	2360 J
Manganese	7439-96-5	189	133	358	132	736
Mercury	7439-97-6	0.16 R	0.16 R	0.17 R	0.15 R	0.15 R
Nickel	7440-02-0	12.1	7 J	24.3	11.1	17.8
Potassium	7440-09-7	1570 J	649 J	2020 J	554 J	365 J
Selenium	7782-49-2	0.4 U	0.41 U	0.44 U	0.39 U	0.39 U
Silver	7440-22-4	0.79 J	0.61 J	1 J	0.59 U	0.58 U
Sodium	7440-23-5	219 J	194 J	497 J	453 J	178 J
Thallium	7440-28-0	0.4 U	0.41 U	0.44 U	0.39 U	0.39 U
Vanadium	7440-62-2	21.2	13.6	36	23	22.6
Zinc	7440-66-6	27.3 J	22.6 J	53.7 J	20.5 J	57.5 J
Nitrate/Nitrite				28	7.5	0.2
Organic Lead				1.1 U	1 U	1 U

U = Compound not detected
J = Estimated value
R = Result rejected in data validation

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APPENDIX M

TABULATION OF WATER ANALYTICAL RESULTS

APPENDIX M
RESULTS OF VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA

Sample Number:			MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02	MWS-02-02 DUP
Sample Date:			15-Apr-91	24-Jun-91	12-Apr-91	28-Jun-91	28-Jun-91	28-Jun-91
Lab Number:			BB3291	BB8943	BB3074	BB9147	BB9147 DL	BB9148
Analysis Date:			24-Apr-91	29-Jun-91	23-Apr-91	03-Jul-91	03-Jul-91	05-Jul-91
COMPOUND	CASE NUMBER	UNITS						
1,1,1-Trichloroethane	71-55-6	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5 U	5 U	5 UJ	5 U	10 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
1,1-Dichloroethene	75-35-4	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
1,2-Dichloroethane	107-06-2	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	1 J	1 U	5 U	5 U	10 U	5 U
1,2-Dichloropropane	78-87-5	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
2-Butanone	78-93-3	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
2-Hexanone	591-78-6	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
4-Methyl-2-pentanone	108-10-1	ug/L	10 UJ	10 U	10 U	10 U	20 U	10 U
Acetone	67-64-1	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
Benzene	71-43-2	ug/L	5 U	5 U	66	220 E	230 D	110
Bromodichloromethane	75-27-4	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Bromoform	75-25-2	ug/L	5 UJ	5 U	5 U	5 U	10 U	5 U
Bromomethane	74-83-9	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
Carbon disulfide	75-15-0	ug/L	5 U	5 U	5 U	5 UJ	10 UJ	5 U
Carbon Tetrachloride	56-23-5	ug/L	5 UJ	5 U	5 U	5 U	10 U	5 U
Chlorobenzene	108-90-7	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Chloroethane	75-00-3	ug/L	10 U	10 U	10 U	10 R	20 R	10 U
Chloroform	67-66-3	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Chloromethane	74-87-3	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Dibromochloromethane	124-48-1	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Ethylbenzene	100-41-4	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Methylene chloride	75-09-2	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Styrene	100-42-5	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Tetrachlorethene	127-18-4	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Toluene	108-88-3	ug/L	5 U	5 U	1 J	5 U	10 U	5 U
Total xylenes	1330-20-7	ug/L	5 U	5 U	9	2 J	10 U	1 J
trans-1,3-Dichloropropene	10061-02-6	ug/L	5 U	5 U	5 U	5 U	10 U	5 U
Trichloroethene	79-01-6	ug/L	5 U	5 U	6	5 U	10 U	3 J
Vinyl Acetate	108-05-4	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
Vinyl chloride	75-01-4	ug/L	10 U	10 U	10 U	10 U	20 U	10 U
Vinyl chloride	75-01-4	ug/L	0.5 U	1.8 U	0.5 U	1.8 U		1.8 U
Organic Lead		ug/L	100 U		100 U	100 U		100 UJ
TPH		mg/L	1 U	1 U	2	1 U		1 U

U = Compound not detected
J = Estimated value
E = Estimated concentration above quantitation limits
R = Result rejected in validation

APPENDIX M
RESULTS OF VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA
(cont.)

Sample Number:			T1-01-01A	T2-01-01A	T3-01-01A	T4-01-01A	T5-01-01A
Sample Date:			19-Apr-91	19-Apr-91	19-Apr-91	19-Apr-91	19-Apr-91
Lab Number:			BB3994	BB3995	BB3996	BB3997	BB3993
Analysis Date:			30-Apr-91	30-Apr-91	30-Apr-91	30-Apr-91	30-Apr-91
COMPOUND	CASE NUMBER	UNITS					
1,1,1-Trichloroethane	71-55-6	ug/L	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	ug/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	ug/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	5 U	5 U	5 U	2 J	5 U
1,2-Dichloropropane	78-87-5	ug/L	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	ug/L	10 R	10 R	10 R	10 R	10 R
2-Hexanone	591-78-6	ug/L	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	ug/L	10 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	ug/L	65	10 U	10 U	10 U	110
Benzene	71-43-2	ug/L	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	ug/L	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	ug/L	5 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	ug/L	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	75-15-0	ug/L	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	ug/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	ug/L	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	ug/L	10 U	10 U	10 U	10 U	10 U
Chloroform	67-66-3	ug/L	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	ug/L	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	ug/L	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	ug/L	5 U	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	ug/L	5 U	5 U	5 U	5 U	5 U
Styrene	100-42-5	ug/L	5 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	ug/L	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	ug/L	5 U	5 U	5 U	5 U	5 U
Total xylenes	1330-20-7	ug/L	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	ug/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L					
Organic Lead		ug/L					
TPH		mg/L	1 U	1 U	1 U	1 U	1 U

APPENDIX M
RESULTS IN VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA
(cont.)

Sample Number:			MWS-03-01	MWS-03-02	MWS-04-01	MWS-04-01	MWS-04-02	MWS-04-02	PS-2-01
Sample Date:			10-Apr-91	28-Jun-91	11-Apr-91	11-Apr-91	27-Jun-91	27-Jun-91	09-Apr-91
Lab Number:			BB2914	BB9149	BB2915	BB2915 DL	BB9096	BB9096 DL	BB2623
Analysis Date:			23-Apr-91	03-Jul-91	23-Apr-91	24-Apr-91	01-Jul-91	02-Jul-91	19-Apr-91
COMPOUND	CASE NUMBER	UNITS							
1,1,1-Trichloroethane	71-55-6	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	5 U	5 U	1 J	100 U	5 U	250 U	5 U
1,1-Dichloroethene	75-35-4	ug/L	2 J	5 U	5 U	100 U	5 U	250 U	1 J
1,2-Dichloroethane	107-06-2	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	1 J	5 U	5 U	100 U	2 J	250 U	2 J
1,2-Dichloropropane	78-87-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
2-Butanone	78-93-3	ug/L	10 UJ	10 U	10 UJ	200 U	10 U	500 U	10 R
2-Hexanone	591-78-6	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 UJ
4-Methyl-2-pentanone	108-10-1	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 U
Acetone	67-64-1	ug/L	10 UJ	10 U	10 UJ	200 U	22 U	500 U	10 UJ
Benzene	71-43-2	ug/L	5 U	5 U	1900 E	1100 D	1700 E	1900 D	790 E/820 D
Bromodichloromethane	75-27-4	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Bromoform	75-25-2	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Bromomethane	74-83-9	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 UJ
Carbon disulfide	75-15-0	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Carbon Tetrachloride	56-23-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Chlorobenzene	108-90-7	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Chloroethane	75-00-3	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 UJ
Chloroform	67-66-3	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Chloromethane	74-87-3	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Dibromochloromethane	124-48-1	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Ethylbenzene	100-41-4	ug/L	5 U	5 U	420 E	310 D	420 E	230 DJ	25
Methylene chloride	75-09-2	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Styrene	100-42-5	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Tetrachlorethene	127-18-4	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 U
Toluene	108-88-3	ug/L	5 U	5 U	680 E	580 D	550 E	350 D	2 J
Total xylenes	1330-20-7	ug/L	5 U	5 U	1000 E	830 D	630 E	290 D	29
trans-1,3-Dichloropropene	10061-02-6	ug/L	5 U	5 U	5 U	100 U	5 U	250 U	5 UJ
Trichloroethene	79-01-6	ug/L	11	5 U	5 U	100 U	4 J	250 U	9
Vinyl Acetate	108-05-4	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 U
Vinyl chloride	75-01-4	ug/L	10 U	10 U	10 U	200 U	10 U	500 U	10 U
Vinyl chloride	75-01-4	ug/L	0.5 U	1.8 U	0.5 U		1.8 U	--	0.5 U
Organic Lead		ug/L	100 U	100 UJ	100 U		100 UJ		100 U
TPH		mg/L	IP	1 U	7		3.1		1 U

APPENDIX M
RESULTS OF VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA
(cont.)

Sample Number:			PS-2-02	PS-2-02	MW1-02-01A	MW1-02-02	MW2-02-01	MW2-02-02
Sample Date:			29-Jun-91	29-Jun-91	18-Apr-91	24-Jun-91	10-Apr-91	25-Jun-91
Lab Number:			BB9150	BB9150 DL	BB3808	BB8795	BB2911	BB9092
Analysis Date:			05-Jul-91	05-Jul-91	26-Apr-91	26-Jun-91	23-Apr-91	01-Jul-91
COMPOUND	CASE NUMBER	UNITS						
1,1,1-Trichloroethane	71-55-6	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	10 UJ	200 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	5 UJ	200 U	5 U	5 U	1 J	5 U
1,1-Dichloroethene	75-35-4	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	5 UJ	200 U	3 J	5	7	2 J
1,2-Dichloropropane	78-87-5	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	ug/L	10 UJ	400 U	10 U	10 R	10 UJ	10 U
2-Hexanone	591-78-6	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	ug/L	10 UJ	400 U	10 U	10 U	10 UJ	10 U
Benzene	71-43-2	ug/L	2100 E	6200 D	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
Carbon disulfide	75-15-0	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	ug/L	10 R	400 U	10 U	10 U	10 U	10 U
Chloroform	67-66-3	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	ug/L	360 E	430 D	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Styrene	100-42-5	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	ug/L	2 J	200 U	5 U	5 U	5 U	5 U
Total xylenes	1330-20-7	ug/L	260 E	260 D	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	5 UJ	200 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	5 UJ	200 U	1 J	2 J	5	1 J
Vinyl Acetate	108-05-4	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	10 UJ	400 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	1.8 U		0.5 U	1.8 U	0.5 U	1.8 U
Organic Lead		ug/L	100 UJ					
TPH		mg/L	3.1		1 U		1	1 U

APPENDIX M
RESULTS OF VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA
(cont.)

Sample Number:			MW3-01-01	MW3-01-01	MW3-01-02	MW3-01-02	MW3-02-01A	MW3-02-01A-DUP
Sample Date:			11-Apr-91	11-Apr-91	28-Jun-91	28-Jun-91	17-Apr-91	17-Apr-91
Lab Number:			BB3075	BB3075 DL	BB9144	BB9144 DL	BB3809	BB3810
Analysis Date:			23-Apr-91	23-Apr-91	03-Jul-91	03-Jul-91	26-Apr-91	26-Apr-91
COMPOUND	CASE NUMBER	UNITS						
1,1,1-Trichloroethane	71-55-6	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	25 UJ	50 U	5 U	100 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
1,1-Dichloroethene	75-35-4	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
1,2-Dichloroethane	107-06-2	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	25 U	50 U	4 J	100 U	2 J	2 J
1,2-Dichloropropane	78-87-5	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
2-Butanone	78-93-3	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
2-Hexanone	591-78-6	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
Acetone	67-64-1	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
Benzene	71-43-2	ug/L	1300 E	1200 D	1500 E	2600 D	5 U	5 U
Bromodichloromethane	75-27-4	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Bromoform	75-25-2	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Bromomethane	74-83-9	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
Carbon disulfide	75-15-0	ug/L	25 U	50 U	7 UJ	140 BD	5 U	5 U
Carbon Tetrachloride	56-23-5	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Chlorobenzene	108-90-7	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Chloroethane	75-00-3	ug/L	50 UJ	100 U	10 R	200 R	10 U	10 U
Chloroform	67-66-3	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Chloromethane	74-87-3	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Dibromochloromethane	124-48-1	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Ethylbenzene	100-41-4	ug/L	18 J	16 DJ	240 E	240 D	5 U	5 U
Methylene chloride	75-09-2	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Styrene	100-42-5	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Tetrachlorethene	127-18-4	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Toluene	108-88-3	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Total xylenes	1330-20-7	ug/L	25 U	50 U	8	100 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	25 U	50 U	5 U	100 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	25 U	50 U	1 J	100 U	3 J	3 J
Vinyl Acetate	108-05-4	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	50 U	100 U	10 U	200 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	0.5 U	0.5 U	1.8 U		0.5 U	0.5 U
Organic Lead		ug/L	100 U		100 UJ		100 U	100 U
TPH		mg/L	1 U	4	3.8		2	1 U

APPENDIX M
RESULTS OF VOAs IN WATER
161 AREFG SITE INVESTIGATION PHOENIX, ARIZONA
(cont.)

Sample Number:			MW3-02-02	0 MW3-02-02-DU	MW4-01-01	MW4-01-02	MW4-02-01A	MW4-02-02
Sample Date:			27-Jun-91	27-Jun-91	08-Apr-91	26-Jun-91	16-Apr-91	26-Jun-91
Lab Number:			BB9145	BB9146	BB2471	BB9087	BB3505	BB9056
Analysis Date:			03-Jul-91	03-Jul-91	19-Apr-91	02-Jul-91	25-Apr-91	29-Jun-91
COMPOUND	CASE NUMBER	UNITS						
1,1,1-Trichloroethane	71-55-6	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethylene	540-59-0	ug/L	3 J	1 J	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	78-93-3	ug/L	10 U	10 U	10 R	10 U	10 U	10 U
2-Hexanone	591-78-6	ug/L	10 U	10 U	10 UJ	10 U	10 U	10 U
4-Methyl-2-pentanone	108-10-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	ug/L	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzene	71-43-2	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	ug/L	5 U	5 U	5 U	5 U	5 UJ	5 U
Bromomethane	74-83-9	ug/L	10 U	10 U	10 UJ	10 U	10 UJ	10 U
Carbon disulfide	75-15-0	ug/L	5 UJ	5 UJ	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	ug/L	5 U	5 U	5 U	5 U	5 UJ	5 U
Chlorobenzene	108-90-7	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	ug/L	10 R	10 R	10 UJ	10 U	10 U	10 U
Chloroform	67-66-3	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	75-09-2	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100-42-5	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachlorethene	127-18-4	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
Total xylenes	1330-20-7	ug/L	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	5 U	5 U	5 UJ	5 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	3 J	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	108-05-4	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	75-01-4	ug/L	1.8 U	1.8 U	0.5 U	1.8 U	0.5 U	1.8 U
Organic Lead		ug/L	100 UJ	100 UJ				
TPH		mg/L	1 U	1 U	1 U	1 U	1 U	1 U

APPENDIX M
RESULTS OF SVOAs IN WATER
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:			MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02 DUP	MWS-03-01
Sample Date:			15-Apr-91	24-Jun-91	12-Apr-91	28-Jun-91	28-Jun-91	10-Apr-91
Lab Number:			BB3305	BB8943	BB3090	BB9173	BB9173	BB2934
Prep Date:			18-Apr-91	01-Jul-91	17-Apr-91	05-Jul-91	05-Jul-91	17-Apr-91
Analysis Date:			29-Apr-91	09-Jul-91	19-Apr-91	09-Jul-91	09-Jul-91	19-Apr-91
COUMPOUND	CASE NUMBER	UNITS						
1,2,4-Trichlorobenzene	120-82-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	95-50-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	541-73-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	106-46-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	95-95-4	ug/L	50 U	50 U	50 U	50 U	50 R	50 U
2,4,6-Trichlorophenol	88-06-2	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
2,4-Dichlorophenol	120-83-2	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
2,4-Dimethylphenol	105-67-9	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
2,4-Dinitrophenol	51-28-5	ug/L	50 U	50 U	50 UJ	50 U	50 R	50 UJ
2,4-Dinitrotoluene	121-14-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	606-20-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	91-58-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	95-57-8	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
2-Methylnaphthalene	91-57-6	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	95-48-7	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
2-Nitroaniline	88-74-4	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	88-75-5	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
3,3'-Dichlorobenzidine	91-94-1	ug/L	20 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	99-09-2	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	50 U	50 U	50 U	50 U	50 R	50 U
4-Bromophenyl phenyl ether	101-55-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	106-47-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenylphenyl ether	7005-72-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	59-50-7	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
4-Methylphenol	106-44-5	ug/L	10 U	10 U	10 U	10 U	10 R	10 U
4-Nitroaniline	100-01-6	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	100-02-7	ug/L	50 U	50 U	50 U	50 U	50 R	50 U
Acenaphthene	83-32-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	208-96-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	120-12-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

APPENDIX M
RESULTS OF SVOAs IN WATER
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:			MWS-03-02	MWS-04-01	MWS-04-02	PS-2-01	PS-2-02	MW1-02-01A
Sample Date:			28-Jun-91	11-Apr-91	27-Jun-91	09-Apr-91	29-Jun-91	18-Apr-91
Lab Number:			BB9175	BB2935	BB9111	BB2633	BB9150	BB3933
Prep Date:			05-Jul-91	17-Apr-91	03-Jul-91	15-Apr-91	05-Jul-91	23-Apr-91
Analysis Date:			09-Jul-91	19-Apr-91	08-Jul-91	17-Apr-91	09-Jul-91	16-May-91
COUMPOUND	CASE NUMBER	UNITS						
1,2,4-Trichlorobenzene	120-82-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	95-50-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	541-73-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	106-46-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	95-95-4	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
2,4,6-Trichlorophenol	88-06-2	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
2,4-Dichlorophenol	120-83-2	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
2,4-Dimethylphenol	105-67-9	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
2,4-Dinitrophenol	51-28-5	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
2,4-Dinitrotoluene	121-14-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	606-20-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	91-58-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	95-57-8	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
2-Methylnaphthalene	91-57-6	ug/L	10 U	7 J	10 U	10 U	10	10 R
2-Methylphenol	95-48-7	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
2-Nitroaniline	88-74-4	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	88-75-5	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
3,3'-Dichlorobenzidine	91-94-1	ug/L	20 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	99-09-2	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
4-Bromophenyl phenyl ether	101-55-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	106-47-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenylphenyl ether	7005-72-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	59-50-7	ug/L	10 U	10 U	10 R	10 R	10 U	10 U
4-Methylphenol	106-44-5	ug/L	10 U	3 J	10 R	10 R	10 U	10 U
4-Nitroaniline	100-01-6	ug/L	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	100-02-7	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
Acenaphthene	83-32-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	208-96-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	120-12-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

U= Compound not detected
J= Estimated value
E= Estimated concentration above quantitation limits
R= Result rejected in validation

APPENDIX M
RESULTS OF SVOAs IN WATER
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:			MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02 DUP	MWS-03-01
Sample Date:			15-Apr-91	24-Jun-91	12-Apr-91	28-Jun-91	28-Jun-91	10-Apr-91
Lab Number:			BB3305	BB8943	BB3090	BB9173	BB9173	BB2934
Prep Date:			18-Apr-91	01-Jul-91	17-Apr-91	05-Jul-91	05-Jul-91	17-Apr-91
Analysis Date:			29-Apr-91	09-Jul-91	19-Apr-91	09-Jul-91	09-Jul-91	19-Apr-91
Benzoic acid	65-85-0	ug/L	50 U	50 U	50 U	50 U	50 R	50 U
Benzo(a)anthracene	56-55-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	50-32-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	205-99-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	191-24-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	207-08-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	100-51-6	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	111-91-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	111-44-4	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	108-60-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl) phthalate	117-81-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	85-68-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	218-01-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	132-64-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	53-70-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	84-66-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	131-11-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	84-74-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	117-84-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	206-44-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	86-73-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	118-74-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	87-68-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	77-47-4	ug/L	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Hexachloroethane	67-72-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	78-59-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	91-20-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	98-95-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	621-64-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	87-86-5	ug/L	50 U	50 U	50 U	50 U	50 R	50 U
Phenanthrene	85-01-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	108-95-2	ug/L	10 U	10 U	10 U	3 J	10 R	10 U
Pyrene	129-00-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

U = Compound not detected
J = Estimated value
R = Result rejected in validation

APPENDIX M
RESULTS OF SVOAs IN WATER
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

Sample Number:			MWS-03-02	MWS-04-01	MWS-04-02	PS-2-01	PS-2-02	MW1-02-91A
Sample Date:			28-Jun-91	11-Apr-91	27-Jun-91	09-Apr-91	29-Jun-91	18-Apr-91
Lab Number:			BB9175	BB2935	BB9111	BB2633	BB9150	BB3833
Prep Date:			05-Jul-91	17-Apr-91	03-Jul-91	15-Apr-91	05-Jul-91	23-Apr-91
Analysis Date:			09-Jul-91	19-Apr-91	08-Jul-91	17-Apr-91	09-Jul-91	16-May-91
COUMPOUND	CASE NUMBER	UNITS						
Benzoic acid	65-85-0	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
Benzo(a)anthracene	56-55-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	50-32-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	205-99-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	191-24-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	207-08-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl alcohol	100-51-6	ug/L	10 U	10 U	10 U	10 UJ	10 U	10 U
bis(2-Chloroethoxy)methane	111-91-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	111-44-4	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	108-60-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl) phthalate	117-81-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Butyl benzyl phthalate	85-68-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	218-01-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	132-64-9	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	53-70-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	84-66-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl phthalate	131-11-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butyl phthalate	84-74-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octyl phthalate	117-84-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	206-44-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	86-73-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	118-74-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	87-68-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	77-47-4	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	67-72-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	78-59-1	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	91-20-3	ug/L	10 U	7 J	3 J	10 U	29	10 U
Nitrobenzene	98-95-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	621-64-7	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	87-86-5	ug/L	50 U	50 U	50 R	50 R	50 U	50 U
Phenanthrene	85-01-8	ug/L	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	108-95-2	ug/L	10 U	2 J	10 R	10 R	21	10 U
Pyrene	129-00-0	ug/L	10 U	10 U	10 U	10 U	10 U	10 U

U = Compound not detected
J = Estimated value
R = Result rejected in validation

APPENDIX M
RESULTS OF INORGANICS IN WATER
161 AREFG SITE INVESTIGATION
PHOENIX, ARIZONA

						MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02 DUP	MWS-03-01	MWS-03-02	MW2-02-01	MW2-02-02
Sample Number:			Sample Number:			MWS-01-01A	MWS-01-02	MWS-02-01	MWS-02-02	MWS-02-02 DUP	MWS-03-01	MWS-03-02	MW2-02-01	MW2-02-02
Sample Date:			Sample Date:			15-Apr-91	24-Jun-91	12-Apr-91	26-Jun-91	26-Jun-91	10-Apr-91	26-Jun-91	10-Apr-91	25-Jun-91
Lab Number:			Lab Number:			BB3299	BB6947	BB3066	BB6167	BB6168	BB2929	BB6169	BB2926	BB6059
Prep Date:			Prep Date:			19-Apr-91	03-Jul-91	16-Apr-91	08-Jul-91	08-Jul-91	16-Apr-91	08-Jul-91	16-Apr-91	03-Jul-91
Analysis Date:			Analysis Date:			22-Apr-91	03-Jul-91	23-Apr-91	12-Jul-91	12-Jul-91	22-Apr-91	12-Jul-91	22-Apr-91	03-Jul-91
COMPOUND	CAS NUMBER	UNITS	COMPOUND	CAS NUMBER	UNITS									
Aluminum	7429-90-5	ug/L	Aluminum	7429-90-5	ug/L	40 U	40 U	40 U	128 J	88.4 J	57.1 J	105 J	40 U	89.8 J
Antimony	7440-36-0	ug/L	Antimony	7440-36-0	ug/L	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	ug/L	Arsenic	7440-38-2	ug/L	5.4 JW	6.2 J	6.7 J	8 J	7.4 J	4.8 J	5.4 J	6.7 J	5.5 J
Barium	7440-39-3	ug/L	Barium	7440-39-3	ug/L	50.7 J	46.5 J	68.6 J	126 J	105 J	77.2 J	70.9 J	47.4 J	46.5 J
Beryllium	7440-41-7	ug/L	Beryllium	7440-41-7	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	7440-43-9	ug/L	Cadmium	7440-43-9	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	7440-70-2	ug/L	Calcium	7440-70-2	ug/L	58400	60800	71500	66400	67800	65200	60300	51400	50800
Chromium	7440-47-3	ug/L	Chromium	7440-47-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	7440-48-4	ug/L	Cobalt	7440-48-4	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	7440-50-8	ug/L	Copper	7440-50-8	ug/L	10 U	28.4 J	10 U	10 U	10 U	10 U	10 U	13.2 J	21.2 J
Iron	7439-89-6	ug/L	Iron	7439-89-6	ug/L	12.4 J	11.9 J	21.2 J	34.3 J	14.3 J	51.8 J	21.3 J	18.4 J	15.8 J
Lead	7439-92-1	ug/L	Lead	7439-92-1	ug/L	2 U	2 UJ	2 UW	2 UJ	2 UJ	2 U	2 U	2 U	2 U
Magnesium	7439-95-4	ug/L	Magnesium	7439-95-4	ug/L	22600	24800	26700	27500	27500	33400	32900	19800	20000
Manganese	7439-96-5	ug/L	Manganese	7439-96-5	ug/L	15.5	2 U	329	1460	1090	3.3 J	6.7 J	2 U	2 U
Mercury	7439-97-6	ug/L	Mercury	7439-97-6	ug/L	0.2 UW	0.2 U	0.21	0.2 U	0.2 U	0.2 UW	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	ug/L	Nickel	7440-02-0	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	7440-09-7	ug/L	Potassium	7440-09-7	ug/L	4890 J	6020	6810	5130	5170	5120	5600	4370 J	5200
Selenium	7782-49-2	ug/L	Selenium	7782-49-2	ug/L	2 UW	2 UJ	2 UW	4 UJ	4 UJ	2 UWN	4 UJ	4 UWN	2 UJ
Silver	7440-22-4	ug/L	Silver	7440-22-4	ug/L	5 U	6.8 J	5 U	5 U	5 U	5 U	5 U	5 U	6.6 J
Sodium	7440-23-5	ug/L	Sodium	7440-23-5	ug/L	136000	138000	122000	122000	120000	107000	113000	148000	148000 J
Thallium	7440-28-0	ug/L	Thallium	7440-28-0	ug/L	2 U	2 UJ	2 UW	2 UJ	2 UJ	2 U	2 U	2 U	2 UJ
Vanadium	7440-62-2	ug/L	Vanadium	7440-62-2	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11.1 J
Zinc	7440-66-6	ug/L	Zinc	7440-66-6	ug/L	27.8	18.6 J	46	24.3 J	12.4 J	64.6	28.4 J	38.8	21.6 J
Nitrate	14797-55-8	mg/L	Nitrate	14797-55-8	mg/L	2.6	2.4	2 U	2 U	2 U	2.1	2.7		
Nitrite		mg/L	Nitrite		mg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U		

U = Compound not detected
J = Estimated value
R = Result rejected in validation

U = Compound not detected
J = Estimated value
R = Result rejected in validation

APPENDIX M
RESULTS OF INORGANICS IN WATER
161AREFG SITE INVESTIGATION
PHOENIX, ARIZONA
(cont.)

Sample Number:			MW2-02-02 DUP	MW4-01-01	MW4-01-02	MW4-02-01A	MW4-02-02	MW5-01-01A	MW5-01-01A-DUP	MW5-01-02
Sample Date:			25-Jun-91	08-Apr-91	26-Jun-91	16-Apr-91	26-Jun-91	16-Apr-91	16-Apr-91	25-Jun-91
Lab Number:			BB9060	BB2474	BB9101	BB3510	BB9062	BB3678	BB3679	BB8946
Prep Date:			03-Jul-91	16-Apr-91	03-Jul-91	24-Apr-91	03-Jul-91	24-Apr-91	24-Apr-91	03-Jul-91
Analysis Date:			03-Jul-91	18-Apr-91	03-Jul-91	25-Apr-91	03-Jul-91	25-Apr-91	25-Apr-91	03-Jul-91
COMPOUND	CAS NUMBER	UNITS								
Aluminum	7429-90-5	ug/L	40 U	40 U	54.1 J	59.6 J	40 U	40 U	59.3 J	48.4 J
Antimony	7440-36-0	ug/L	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	ug/L	5.4 B	2 UW	2 U	32.4	14.2	5.6 J	3.8 J	5.1 J
Barium	7440-39-3	ug/L	47.5 B	217	195 J	121 J	118 J	55.6 J	54.5 J	52.5 J
Beryllium	7440-41-7	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	7440-43-9	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	7440-70-2	ug/L	49662	181000	206000	61200	62300	65900	65500	68200
Chromium	7440-47-3	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cobalt	7440-48-4	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	7440-50-8	ug/L	21.8 B	10 U	31.9 J	11.8 J	22.1 J	10.1 J	10 U	33.8 J
Iron	7439-89-6	ug/L	14.4 B	12 J	19.1 J	57.9 J	10 U	24.2 J	50.5 J	18.2 J
Lead	7439-92-1	ug/L	2 U	2 U	2 UJ	2 UW	2 U	2 U	2 U	2 U
Magnesium	7439-95-4	ug/L	19869	61900	71600	24000	25500	26700	26100	27900
Manganese	7439-96-5	ug/L	2.1 B	16.8	2.5 J	2 U	2 U	2 U	2 U	2 U
Mercury	7439-97-6	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21	0.2 U	0.2 UW
Nickel	7440-02-0	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	7440-09-7	ug/L	4653 B	17700	13700	9100	7630	4380 J	4450 J	5880
Selenium	7782-49-2	ug/L	2 U	2 UW	2 UJ	6 UW	4 UJ	4 U	2 U	2 UJ
Silver	7440-22-4	ug/L	5 B	5 U	18.8 J	6.9 J	5 U	5 U	5 UJ	7.2 J
Sodium	7440-23-5	ug/L	136184	238000	223000	116000	104000 J	143000	139000	118000
Thallium	7440-28-0	ug/L	2 U	2 UW	2 UJ	2 U	2 UJ	2 U	2 U	2 UJ
Vanadium	7440-62-2	ug/L	10.4 B	10 U	10 U	64.2	39.9 J	10 U	10 U	10 U
Zinc	7440-66-6	ug/L	20.3	38.3	22.4 J	10.8 J	12 J	10.2 J	21	96.8 J
Nitrate	14797-55-8	mg/L						2.4	2.3	6.3
Nitrite		mg/L						2 U	2 U	2 U

U = Compound not detected
J = Estimated value
R = Result rejected in validation